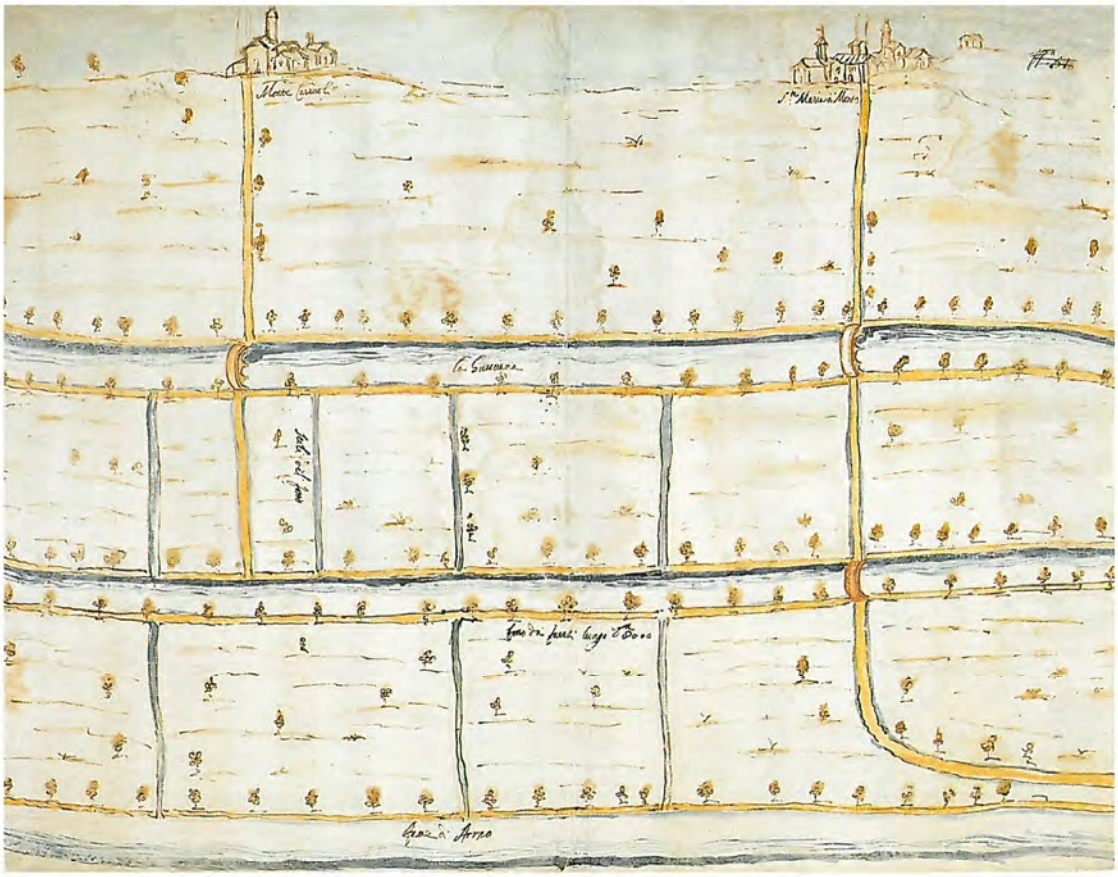
REGOLAMENTO URBANISTICO

VARIANTE DI ADEGUAMENTO AL P.S. (ai sensi Art.222 L.R.65/14)

Comune di Santa Maria a Monte

(Provincia di Pisa)



Sindaco: Ilaria Parrella

Ass. Urbanistica: Silvano Melani

SETTORE 3

Garante della comunicazione:
Dott. Paolo Di Carlo

Responsabile del procedimento:
Dott. Luigi Degl'Innocenti

Collaboratore tecnico:
Arch. Patrizia Lombardi
Geom. Daniele Luchetti

AUTORITA' COMPETENTE V.A.S.:

Arch. Paola Pollina

PROGETTO

Arch. Mauro Ciampa
(Architetti Associati M.Ciampa - P.Lazzeroni)
Arch. Chiara Ciampa
Arch. Giovanni Giusti

Collaboratore:
Geogr. Laura Garcés

VALUTAZIONI

PFM - Società tra professionisti

Dott. Agr. Guido Franchi
Dott. Agr. Federico Martinelli

Collaboratore:
Dott. Agr. Irene Giannelli

STUDI GEOLOGICI

Geoprogetti Studio Associato

Dott. Geol. Francesca Franchi
Dott. Geol. Emilio Pistilli

Dott. Geol. Alessandra Giannetti

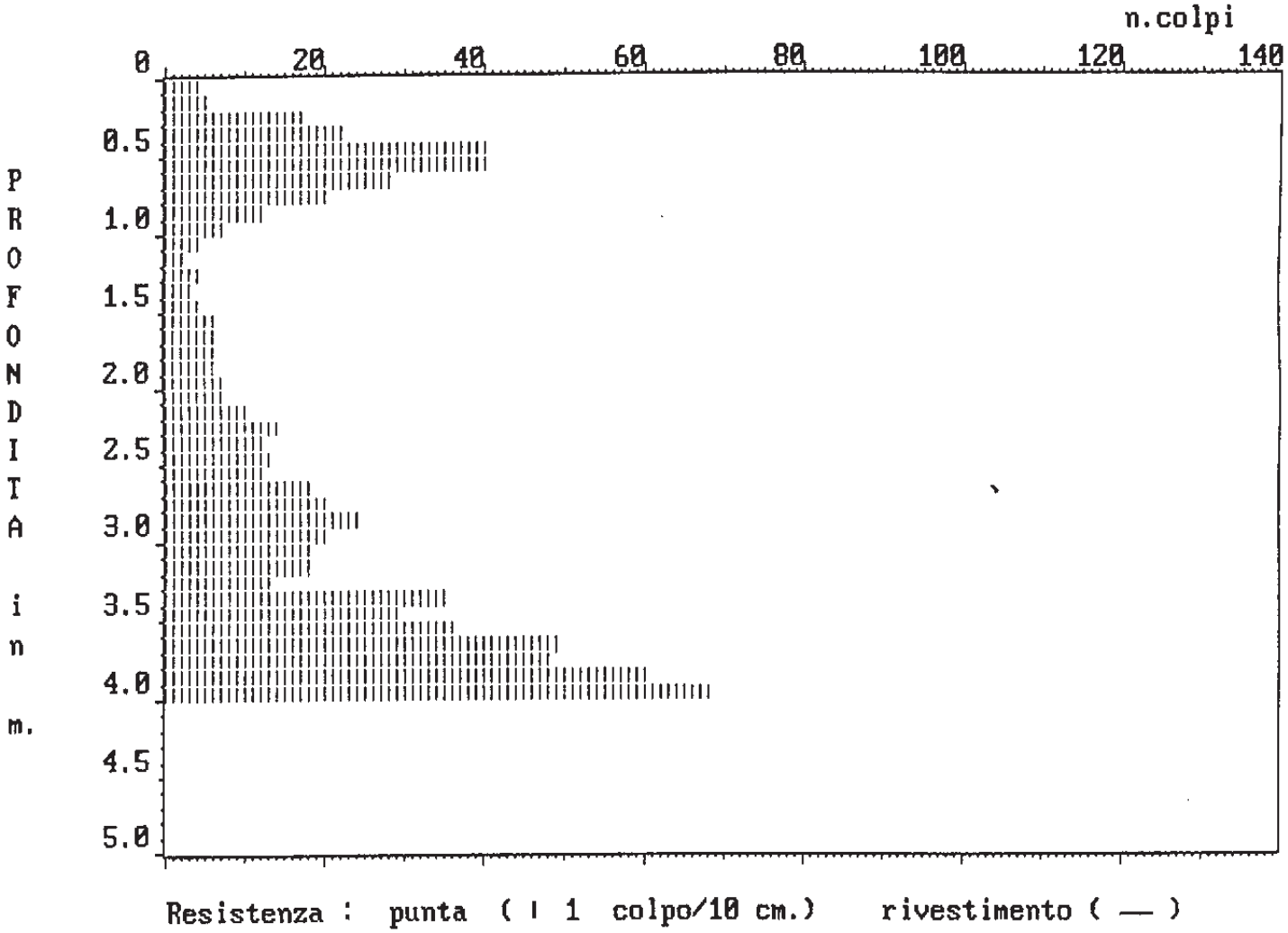
ALLEGATO 2

Indagini geognostiche estratte dal database della Provincia di Pisa

Dicembre 2016

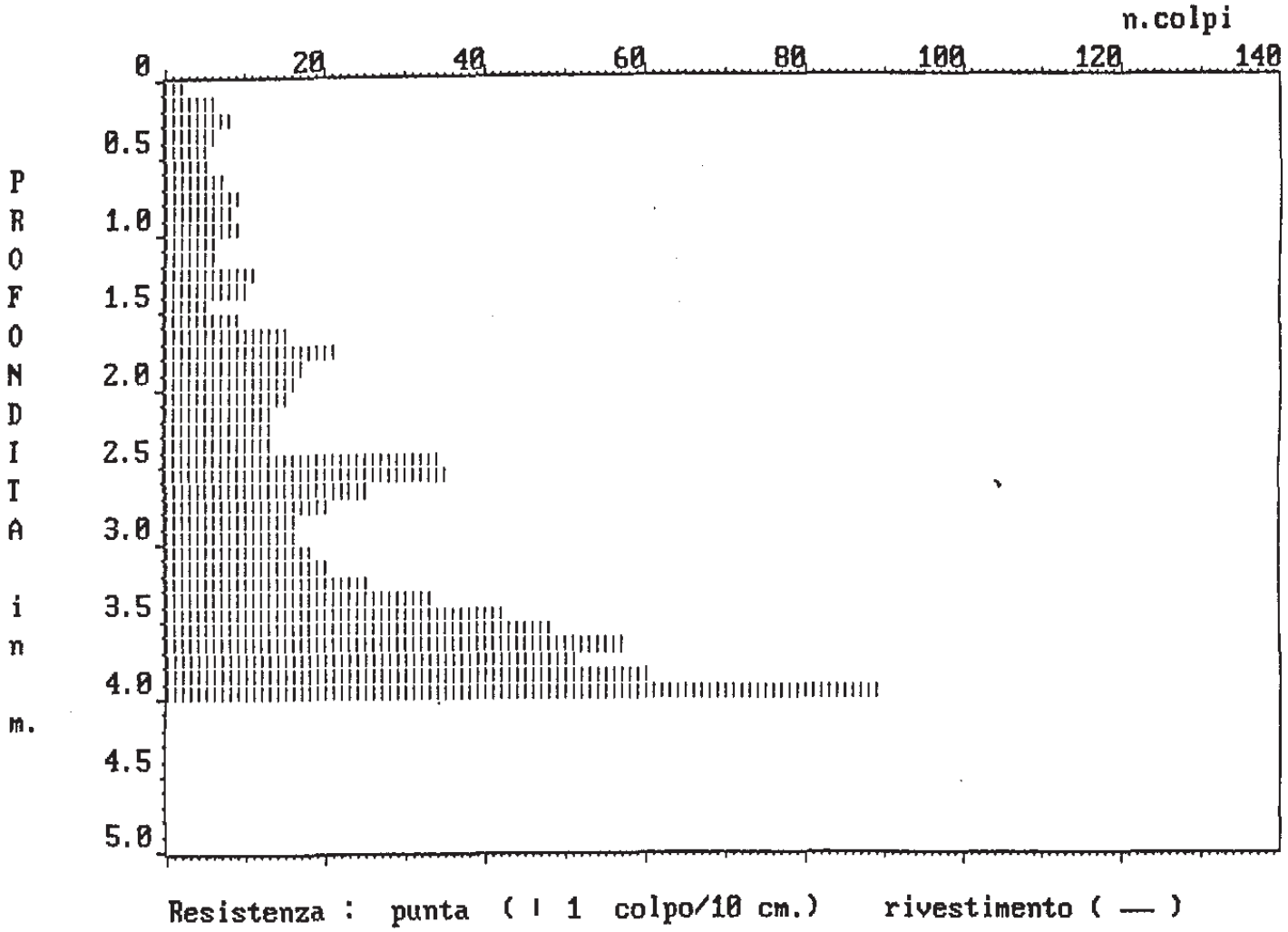
Resistenza alla punta

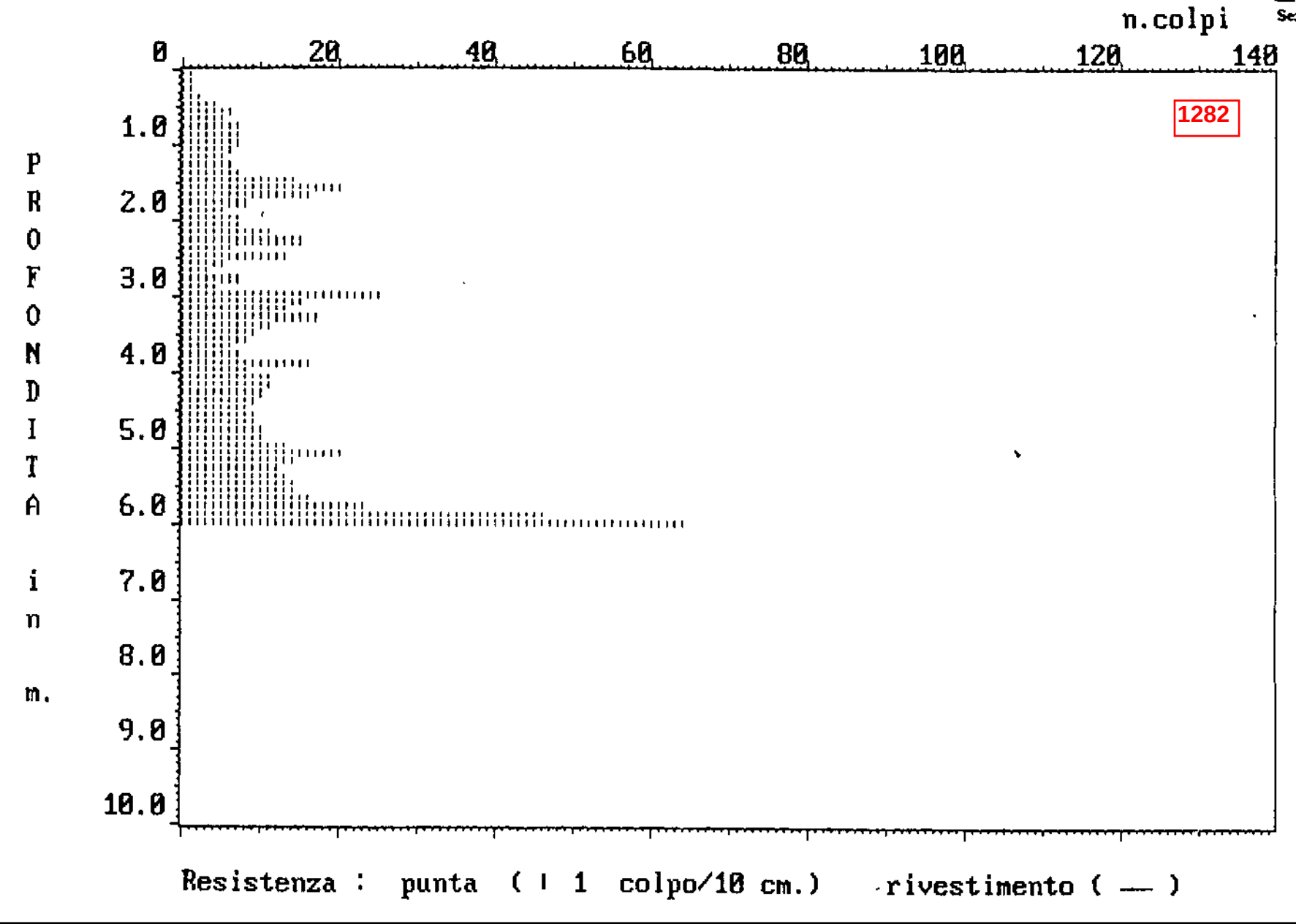
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	4	15	2.10	7	21
0.20	5	18	2.20	10	30
0.30	17	62	2.30	14	42
0.40	22	80	2.40	12	36
0.50	40	145	2.50	13	39
0.60	40	143	2.60	12	35
0.70	28	100	2.70	18	53
0.80	20	71	2.80	20	59
0.90	12	43	2.90	24	70
1.00	7	25	3.00	20	59
1.10	4	13	3.10	18	49
1.20	2	7	3.20	18	49
1.30	4	13	3.30	13	35
1.40	3	10	3.40	35	95
1.50	4	13	3.50	29	79
1.60	6	19	3.60	36	97
1.70	6	19	3.70	49	132
1.80	6	19	3.80	48	130
1.90	6	19	3.90	60	162
2.00	7	23	4.00	68	184



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	2	7	2.10	15	45
0.20	6	22	2.20	13	39
0.30	8	29	2.30	13	39
0.40	6	22	2.40	13	39
0.50	5	18	2.50	34	101
0.60	5	18	2.60	35	103
0.70	7	25	2.70	25	73
0.80	9	32	2.80	20	59
0.90	8	29	2.90	16	47
1.00	9	32	3.00	16	47
1.10	6	20	3.10	18	49
1.20	6	20	3.20	20	55
1.30	11	36	3.30	25	68
1.40	10	33	3.40	33	90
1.50	5	16	3.50	42	115
1.60	9	29	3.60	48	130
1.70	15	48	3.70	57	154
1.80	21	68	3.80	51	138
1.90	17	55	3.90	60	162
2.00	16	52	4.00	89	240




n.colpi
0
20
40
60
80
100
120
140
1282
PROFONDITA in m.
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

letture di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
.2	30	50	200
.4	40	90	400
.6	170	200	400
.8	110	160	300
1	80	120	300
1.2	110	190	500
1.4	140	220	500
1.6	110	220	500
1.8	90	170	500
2	100	170	500
2.2	130	220	700
2.4	170	260	800
2.6	190	310	800
2.8	200	350	900
3	180	340	1000
3.2	180	340	1250
3.4	150	310	1350
3.6	170	290	1400
3.8	150	260	1400
4	90	210	1500
4.2	180	240	1650
4.4	100	180	1600
4.6	80	130	1600
4.8	70	140	1600
5	150	190	1700
5.2	120	190	1850
5.4	230	330	1850
5.6	90	140	1850
5.8	90	170	1800
6	90	140	1800
6.2	90	150	1950
6.4	80	150	1950
6.6	100	140	1950
6.8	100	160	2050
7	130	200	2050
7.2	140	250	2150
7.4	140	260	2200
7.6	140	250	2250
7.8	160	260	2350
8	150	290	2500

valori derivati

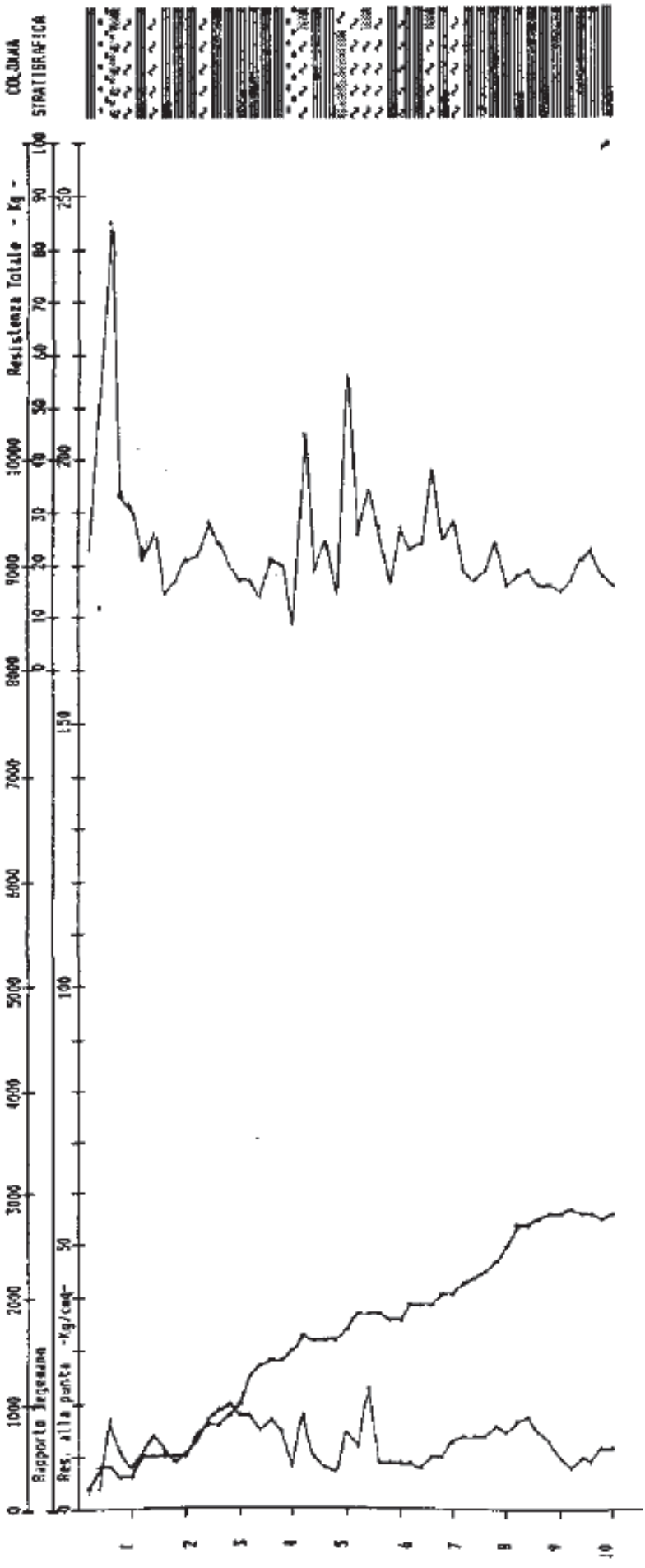
Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
20	.13	23	170			.12	41.81
50	.33	12	360			.16	33.74
30	.2	85	230	30	15		17.75
50	.33	33	190			.44	19.64
40	.26	30	220			.32	22.29
80	.53	21	190			.44	19.64
80	.53	26	360			.56	18.4
110	.73	15	390			.44	19.64
80	.53	17	410			.36	21.16
70	.46	21	400			.4	20.3
90	.6	22	520			.52	18.72
90	.6	28	630			.68	17.75
120	.8	24	610			.76	17.47
150	1	20	700			.8	17.36
140	1.06	17	820			.72	17.6
160	1.06	17	1070			.72	17.6
160	1.06	14	1200			.6	18.14
120	.8	21	1230			.68	17.75
110	.73	20	1250			.6	18.14
130	.86	9	1420			.32	22.29
60	.4	45	1470			.72	17.6
80	.53	19	1500			.4	20.3
50	.33	24	1520			.32	22.29
70	.46	15	1530			.28	23.81
40	.26	56	1550	25	14		18.14
70	.46	26	1730			.48	19.13
100	.66	34	1620			.92	17.08
50	.33	27	1760			.36	21.16
80	.53	17	1710			.36	21.16
50	.33	27	1710			.36	21.16
60	.4	23	1860			.36	21.16
50	.33	24	1870			.32	22.29
40	.26	38	1850			.4	20.3
60	.4	25	1950			.4	20.3
70	.46	28	1920			.52	18.72
110	.73	19	2010			.56	18.4
120	.8	17	2060			.56	18.4
110	.73	19	2110			.56	18.4
100	.66	24	2190			.64	17.93
140	.93	16	2350			.6	18.14

letture di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
8.2	170	310	2700
8.4	180	320	2700
8.6	150	290	2750
8.8	130	250	2800
9	100	200	2800
9.2	80	150	2850
9.4	100	170	2800
9.6	90	150	2800
9.8	120	220	2750
10	120	230	2800

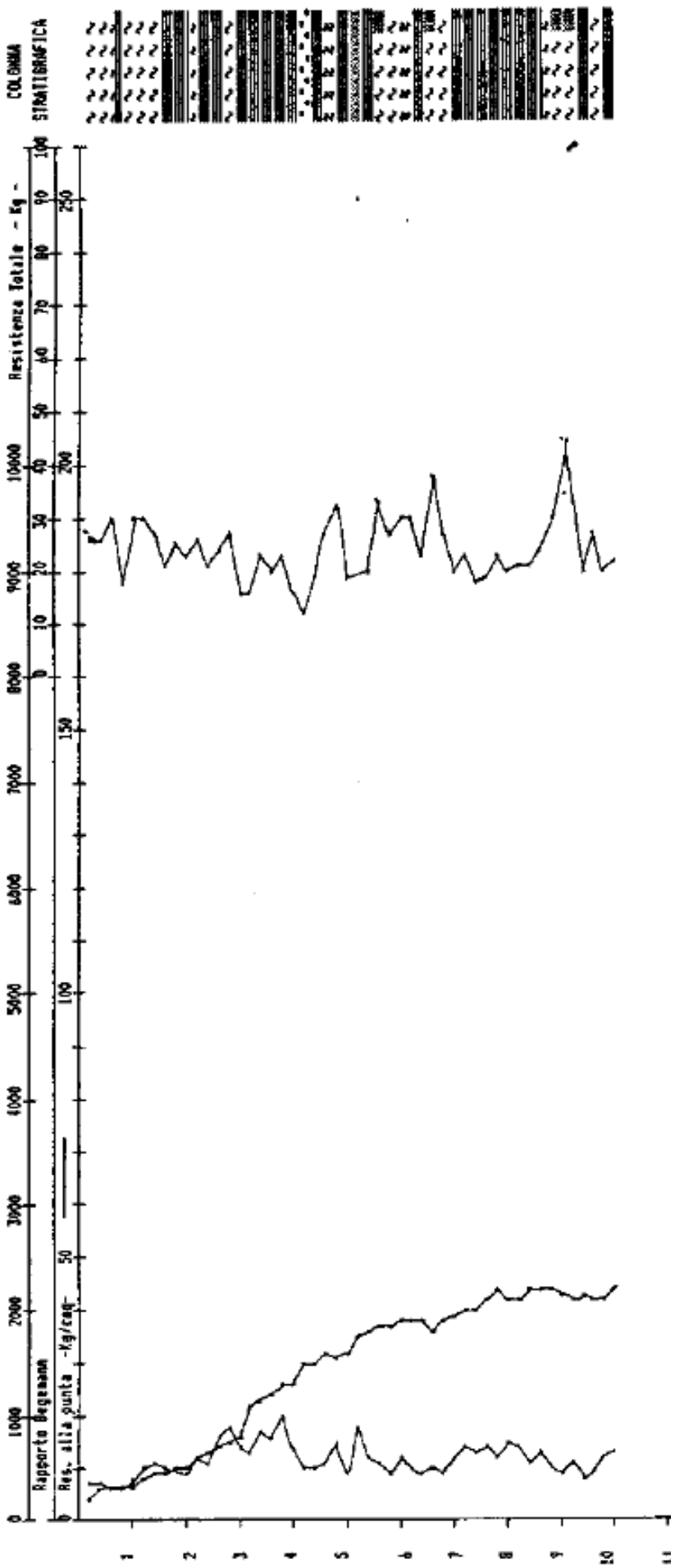
valori derivati

Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
140	.93	18	2530			.68	17.75
140	.93	19	2520			.72	17.6
140	.93	16	2600			.6	18.14
120	.8	16	2670			.52	18.72
100	.66	15	2700			.4	20.3
70	.46	17	2770			.32	22.29
70	.46	21	2700			.4	20.3
60	.4	23	2710			.36	21.16
100	.66	18	2630			.48	19.13
110	.73	16	2680			.48	19.13


COLONNA
STRATIGRAFICA
Resistenza Totale - Kg -
Rapporto Begemann
Res. alla punta - Kg/cmq -

	letture di campagna			valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	70	110	200	40	.26	26	130			.28	23.81
.4	70	110	300	40	.26	26	230			.28	23.81
.6	60	90	300	30	.2	30	240			.24	25.93
.8	60	110	300	50	.33	18	240			.24	25.93
1	80	120	300	40	.26	30	220			.32	22.29
1.2	100	150	400	50	.33	30	300			.4	20.3
1.4	130	170	450	60	.4	27	340			.44	19.64
1.6	100	170	450	70	.46	21	350			.4	20.3
1.8	100	160	500	60	.4	25	400			.4	20.3
2	90	150	500	60	.4	23	410			.36	21.16
2.2	120	190	600	70	.46	26	480			.48	19.13
2.4	110	190	650	80	.53	21	540			.44	19.64
2.6	160	260	700	100	.66	24	540			.44	17.93
2.8	180	280	750	100	.66	27	570			.72	17.6
3	140	270	800	130	.86	16	660			.56	18.4
3.2	130	250	1100	120	.8	16	970			.52	18.72
3.4	170	280	1150	110	.73	23	980			.68	17.75
3.6	160	280	1200	120	.8	20	1040			.64	17.93
3.8	200	330	1300	130	.86	23	1100			.8	17.36
4	140	270	1300	130	.86	16	1160			.56	18.4
4.2	100	220	1500	120	.8	12	1400			.4	20.3
4.4	100	180	1500	80	.53	19	1400			.4	20.3
4.6	110	170	1600	60	.4	27	1490			.44	19.64
4.8	150	220	1550	70	.46	32	1400			.6	18.14
5	90	160	1600	70	.46	19	1510			.36	21.16
5.2	180	210	1750	30	.2	90	1570	32	16		17.6
5.4	120	210	1800	90	.6	20	1690			.48	19.13
5.6	110	160	1850	50	.33	33	1740			.44	19.64
5.8	90	140	1850	50	.33	27	1760			.36	21.16
6	120	180	1900	60	.4	30	1780			.48	19.13
6.2	100	150	1900	50	.33	30	1800			.4	20.3
6.4	90	150	1900	60	.4	23	1810			.36	21.16
6.6	100	140	1800	40	.26	38	1700			.4	20.3
6.8	90	140	1900	50	.33	27	1810			.36	21.16
7	120	210	1950	90	.6	20	1830			.48	19.13
7.2	140	230	2000	90	.6	23	1860			.56	18.4
7.4	130	240	2000	110	.73	18	1870			.52	18.72
7.6	140	250	2100	110	.73	19	1960			.56	18.4
7.8	120	200	2200	80	.53	23	2080			.48	19.13
8	150	260	2100	110	.73	20	1950			.6	18.14

	letture di campagna			valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	140	240	2100	100	.66	21	1960			.56	18.4
8.4	130	190	2200	80	.53	21	2070			.44	19.64
8.6	130	210	2200	80	.53	24	2070			.52	18.72
8.8	100	150	2200	50	.33	30	2100			.4	20.3
9	90	120	2150	30	.2	45	2060			.36	21.16
9.2	110	160	2100	50	.33	33	1990			.44	19.64
9.4	80	140	2150	60	.4	20	2070			.32	22.29
9.6	90	140	2100	50	.33	27	2010			.36	21.16
9.8	120	210	2100	90	.6	20	1980			.48	19.13
10	130	220	2200	90	.6	22	2070			.52	18.72


COLONNA
STRATIGRAFICA
Resistenza Totale - Kg -
Rapporto Begemann
Res. alla punta -Kg/cm²-

PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 790-AA CANTIERE :COSTRUZIONE DI FABBRICATO CIVILE ABITAZIONE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	13	18	0.33	39.39										
0.20	13	18	0.33	39.39										
0.40	15	28	0.87	17.24										
0.60	21	34	0.87	24.14										
0.80	42	54	0.80	52.50										
1.00	32	52	1.33	24.06										
1.20	65	85	1.33	48.87										
1.40	51	65	0.93	54.84										
1.60	42	72	2.00	21.00										
1.80	33	66	2.20	15.00										
2.00	67	89	1.47	45.58										
2.20	43	52	0.60	71.67										
2.40	165	245	5.33	30.96										
2.60	89	135	3.07	28.99										
2.80	74	114	2.67	27.72										
3.00	68	109	2.73	24.91										
3.20	49	93	2.93	16.72										
3.40	93	107	0.93	100.00										
3.60	56	219	10.87	5.15										
3.80	98	128	2.00	49.00										
4.00	108	192	5.60	19.29										
4.20	109	175	4.40	24.77										
4.40	111	180	4.60	24.13										
4.60	57	104	3.13	18.21										
4.80	49	93	2.93	16.72										
5.00	36	64	1.87	19.25										
5.20	31	62	2.07	14.98										
5.40	30	48	1.20	25.00										
5.60	31	49	1.20	25.83										
5.80	34	58	1.60	21.25										
6.00	34	52	1.20	28.33										
6.20	20	39	1.27	15.75										
6.40	17	27	0.67	25.37										
6.60	15	24	0.60	25.00										
6.80	16	24	0.53	30.19										
7.00	20	31	0.73	27.40										
7.20	21	33	0.80	26.25										
7.40	25	40	1.00	25.00										
7.60	37	54	1.13	32.74										
7.80	36	69	2.20	16.36										
8.00	47	78	2.07	22.71										
8.20	60	94	2.27	26.43										
8.40	62	97	2.33	26.61										
8.60	57	90	2.20	25.91										
8.80	70	114	2.93	23.89										
9.00	58	91	2.20	26.36										
9.20	59	91	2.13	27.70										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

H a	ac kg/cmq	fs	Diagramma fs S 4 3 2 1 0	Diagramma ac 10 20 30 40 50 60 70	BEGEMANN 1965 H2O	A0	A	LA	LS	SL	S	SG	SCHM. 1978
0.2	13	0.333											SAL
0.4	15	0.866											A4
0.6	21	0.866											ASL
0.8	42	0.800											S1
1.0	32	1.333											ASL
1.2	65	1.333											S1
1.4	51	0.933											S1
1.6	42	2.000											ASL
1.8	33	2.200											A5
2.0	67	1.466											SAL
2.2	43	0.600											S1
2.4	165	5.333											LS
2.6	89	3.066											ASL
2.8	74	2.666											ASL
3.0	68	2.733											ASL
3.2	49	2.933											A5
3.4	93	0.933											S1
3.6	56	10.866											A5
3.8	98	2.000											S1
4.0	108	5.599											ASL
4.2	109	4.400											LS
4.4	111	4.599											ASL
4.6	57	3.133											ASL
4.8	49	2.933											A5
5.0	36	1.866											A5
5.2	31	2.066											A5
5.4	30	1.200											ASL
5.6	31	1.200											ASL
5.8	34	1.600											ASL
6.0	34	1.200											ASL
6.2	20	1.266											A5
6.4	17	0.666											ASL
6.6	15	0.600											A4
6.8	16	0.533											ASL
7.0	20	0.733											ASL
7.2	21	0.800											ASL
7.4	25	1.000											ASL
7.6	37	1.133											SAL
7.8	36	2.200											A5
8.0	42	2.066											ASL
8.2	60	2.266											ASL
8.4	62	2.333											ASL
8.6	57	2.200											ASL
8.8	70	2.933											ASL
9.0	58	2.200											ASL

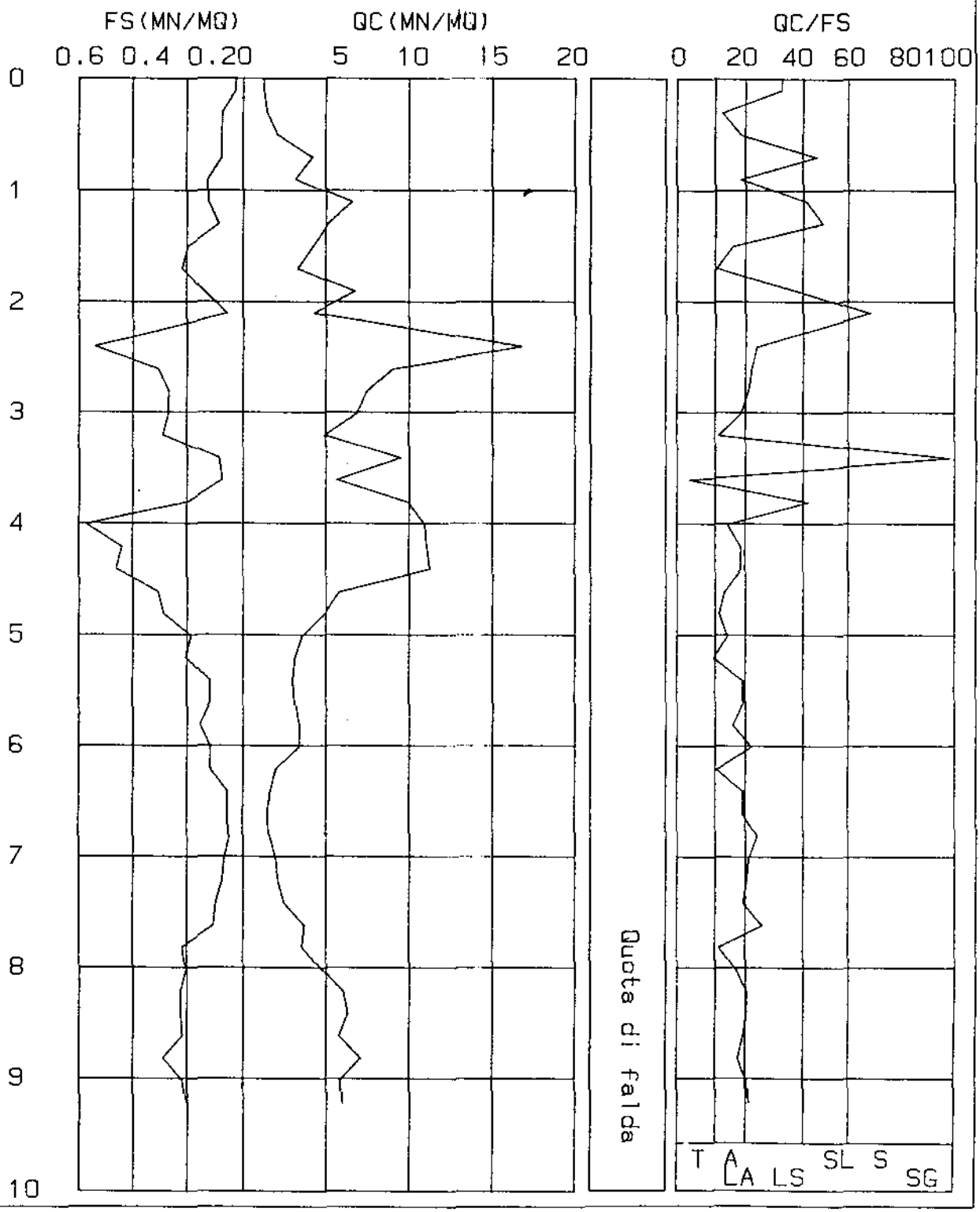
1304

CPT (CONE PENETROMETER TEST)

Certif.n. 790-AA
del 04/12/1991

Picchetto n. P/1

Cantiere
COSTRUZIONE DI FABBRICATO CIVILE ABITAZIONE
Committente



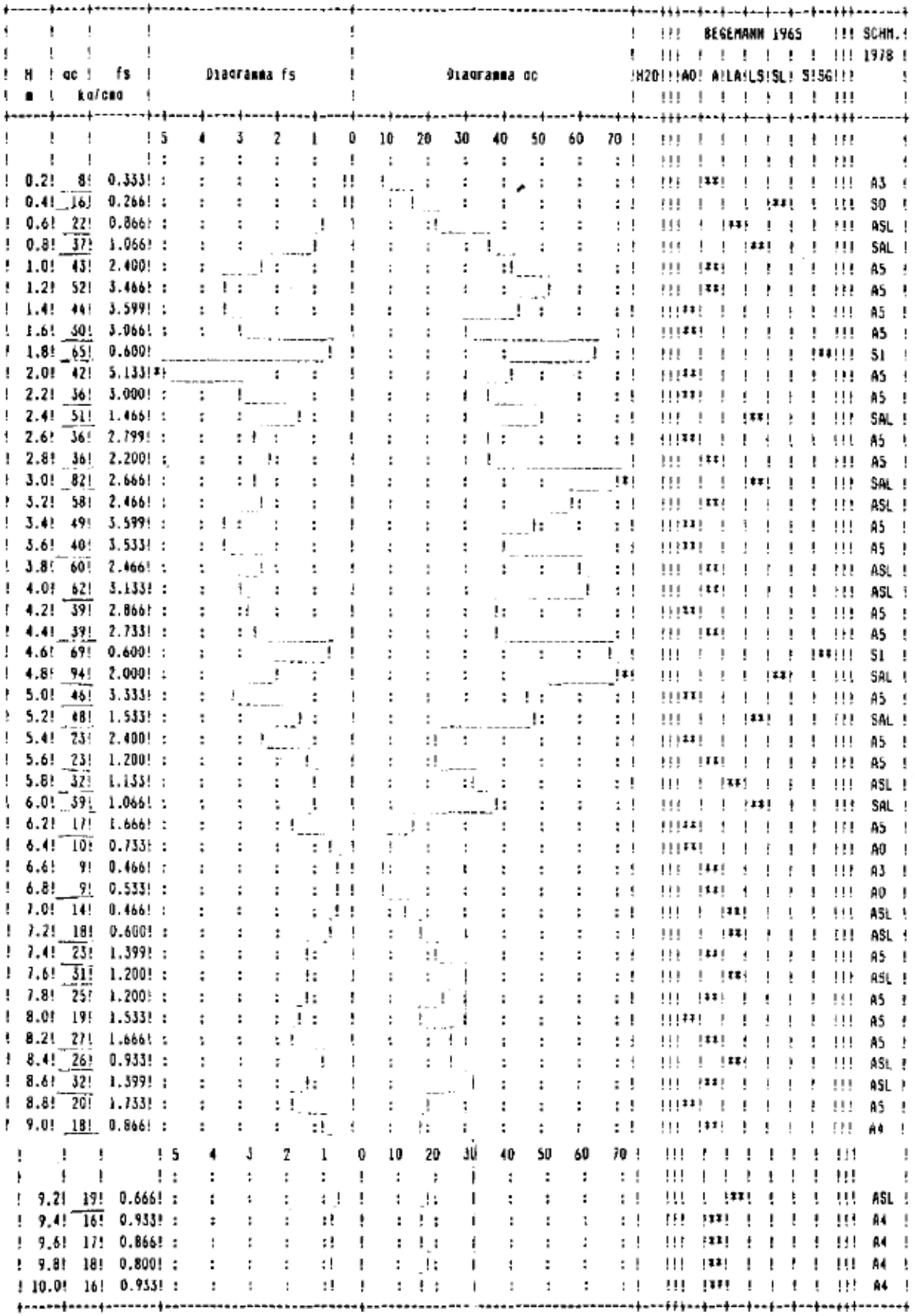
PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 791-AA CANTIERE :COSTRUZIONE DI FABBRICATO CIVILE ABITAZIONE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	8	13	0.33	24.24	10.00	16	30	0.93	17.20					
0.20	8	13	0.33	24.24										
0.40	16	20	0.27	59.26										
0.60	22	35	0.87	25.29										
0.80	37	53	1.07	34.58										
1.00	43	79	2.40	17.92										
1.20	52	104	3.47	14.99										
1.40	44	98	3.60	12.22										
1.60	30	76	3.07	9.77										
1.80	65	74	0.60	108.33										
2.00	42	119	5.13	8.19										
2.20	36	81	3.00	12.00										
2.40	51	73	1.47	34.69										
2.60	36	78	2.80	12.86										
2.80	36	69	2.20	16.36										
3.00	82	122	2.67	30.71										
3.20	58	95	2.47	23.48										
3.40	49	103	3.60	13.61										
3.60	40	93	3.53	11.33										
3.80	60	97	2.47	24.29										
4.00	62	109	3.13	19.81										
4.20	39	82	2.87	13.59										
4.40	39	80	2.73	14.29										
4.60	69	78	0.60	115.00										
4.80	94	124	2.00	47.00										
5.00	46	96	3.33	13.81										
5.20	48	71	1.53	31.37										
5.40	23	59	2.40	9.58										
5.60	23	41	1.20	19.17										
5.80	32	49	1.13	28.32										
6.00	39	55	1.07	36.45										
6.20	17	42	1.67	10.18										
6.40	10	21	0.73	13.70										
6.60	9	16	0.47	19.15										
6.80	9	17	0.53	16.98										
7.00	14	21	0.47	29.79										
7.20	18	27	0.60	30.00										
7.40	23	44	1.40	16.43										
7.60	31	49	1.20	25.83										
7.80	25	43	1.20	20.83										
8.00	19	42	1.53	12.42										
8.20	27	52	1.67	16.17										
8.40	26	40	0.93	27.96										
8.60	32	55	1.40	22.86										
8.80	20	46	1.73	11.56										
9.00	18	31	0.87	20.69										
9.20	19	29	0.67	28.36										
9.40	16	30	0.93	17.20										
9.60	17	30	0.87	19.54										
9.80	18	30	0.80	22.50										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISIENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq R = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

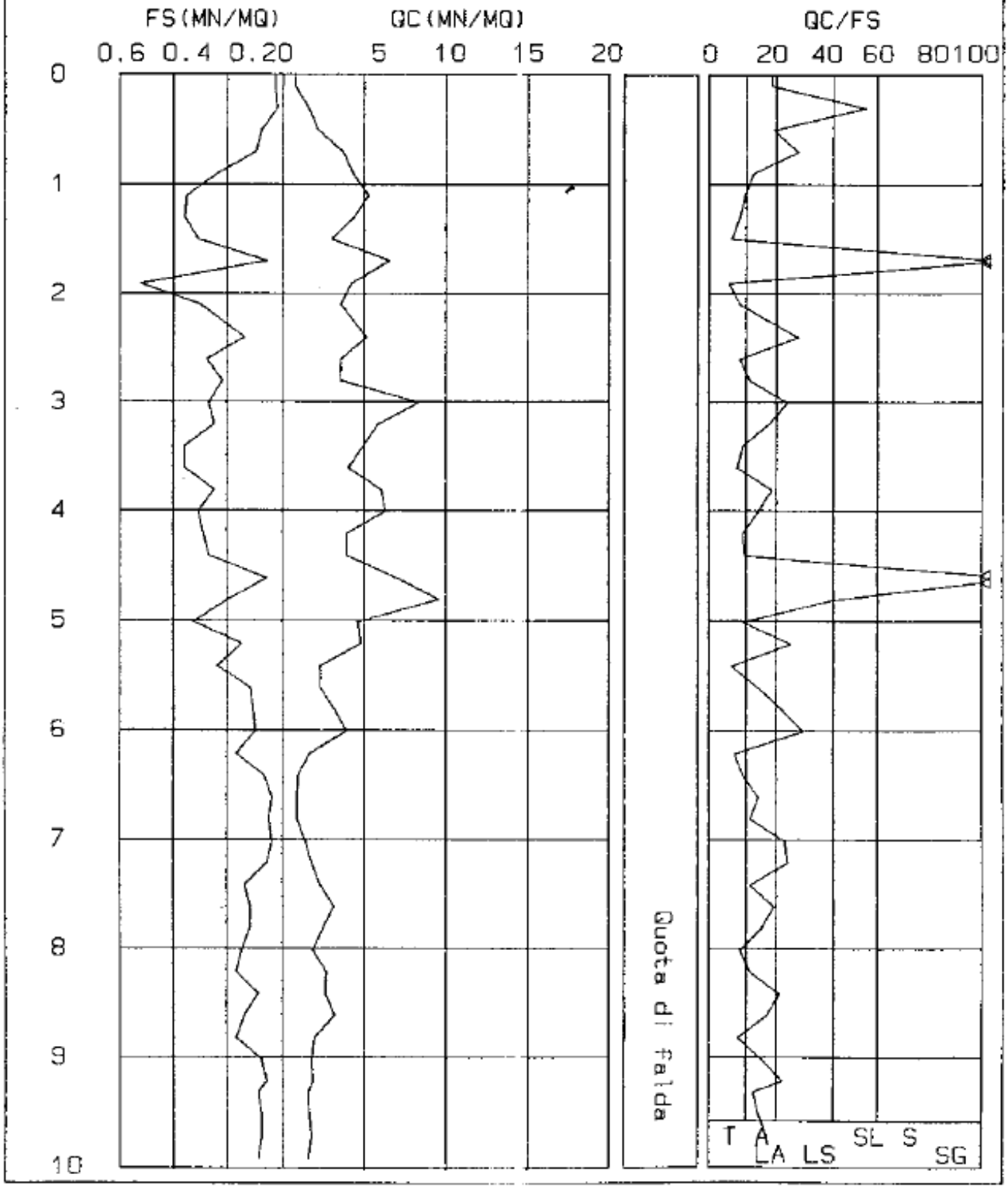

BEGEMANN 1965
SCHM. 1978
H m
qc kg/cmq
fs
Diagramma fs
Diagramma qc
H20 AO AILA LS SL S SG

CPT (CONE PENETROMETER TEST)

Certif.n. 791-AA
del 04/12/1991

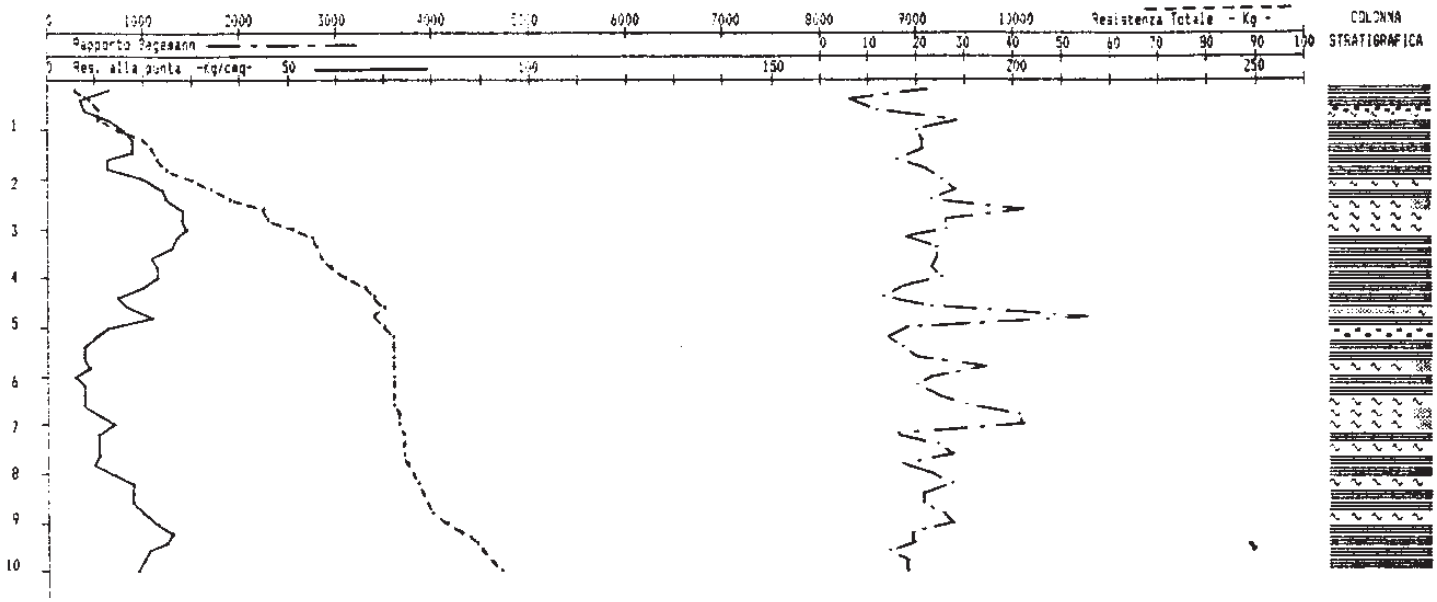
Picchetto n. P/1

Cantiere
COSTRUZIONE DI FABBRICATO CIVILE ABITAZIONE
Committente



letture di campagna				valori derivati								
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dv [%]	Cu [Kg/cmq]	qv [cmq/t]
.2	130	220	300	90	.6	22	170			.52	18.72
.4	70	260	450	190	1.26	6	380			.28	23.81
.6	80	180	550	100	.66	12	470			.32	22.29
.8	130	200	550	70	.46	28	420			.52	18.72
1	160	280	750	120	.8	20	590			.64	17.93
1.2	180	310	1000	130	.86	21	820			.72	17.6
1.4	180	310	1100	130	.86	21	920			.72	17.6
1.6	130	250	1150	120	.8	16	1020			.52	18.72
1.8	130	220	1250	90	.6	22	1120			.52	18.72
2	200	320	1500	120	.8	25	1300			.8	17.56
2.2	240	370	1730	130	.86	28	1460			.96	16.94
2.4	250	410	1900	160	1.06	23	1650			1	16.33
2.6	290	380	2250	100	.66	42	1970			1.12	16.48
2.8	280	440	2300	160	1.06	26	2020			1.12	16.48
3	290	460	2550	170	1.13	26	2260			1.16	16.35
3.2	270	490	2750	220	1.46	18	2480			1.08	16.6
3.4	260	420	2900	160	1.06	24	2540			1.04	16.72
3.6	220	360	2850	140	.93	24	2630			.88	17.15
3.8	230	380	2950	150	1	23	2720			.92	17.04
4	230	370	3100	140	.93	25	2870			.92	17.04
4.2	290	320	3300	190	1.2	17	3100			.8	17.76
4.4	150	320	3450	170	1.13	13	3250			.6	18.14
4.6	170	280	3500	110	.73	23	3330			.68	17.75
4.8	220	280	3400	60	.4	55	3180	27	20		17.15
5	130	240	3530	110	.73	18	3370			.52	18.72
5.2	100	210	3600	110	.73	14	3500			.4	20.3
5.4	80	150	3620	70	.46	17	3520			.32	22.29
5.6	90	140	3600	60	.4	20	3520			.32	22.29
5.8	90	120	3600	40	.26	34	3510			.36	21.16
6	60	100	3600	40	.26	23	3540			.24	25.93
6.2	80	140	3630	60	.4	20	3520			.32	22.29
6.4	80	130	3680	50	.33	24	3520			.32	22.29
6.6	80	120	3680	40	.26	30	3520			.32	22.29
6.8	110	150	3650	40	.26	41	3540			.44	19.64
7	140	190	3650	50	.33	42	3510			.56	18.4
7.2	110	210	3700	100	.66	16	3590			.44	19.64
7.4	110	180	3700	70	.46	24	3590			.44	19.64
7.6	110	170	3700	60	.4	27	3590			.44	19.64
7.8	100	190	3750	90	.6	17	3650			.4	20.3
8	140	230	3800	90	.6	23	3660			.56	18.4

Letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	180	290	3850	100	.66	27	3670			.72	17.6
8.4	190	310	3900	130	.86	21	3720			.72	17.6
8.6	180	310	3950	130	.86	21	3770			.72	17.6
8.8	200	320	4000	120	.8	25	3800			.8	17.36
9	230	360	4150	130	.86	27	3920			.92	17.04
9.2	260	460	4300	200	1.33	19	4040			1.04	16.72
9.4	250	450	4450	200	1.33	19	4200			1	16.83
9.6	210	430	4500	220	1.46	14	4290			.84	17.25
9.8	200	370	4600	170	1.13	18	4400			.8	17.36
10	190	350	4700	160	1.06	18	4510			.76	17.47



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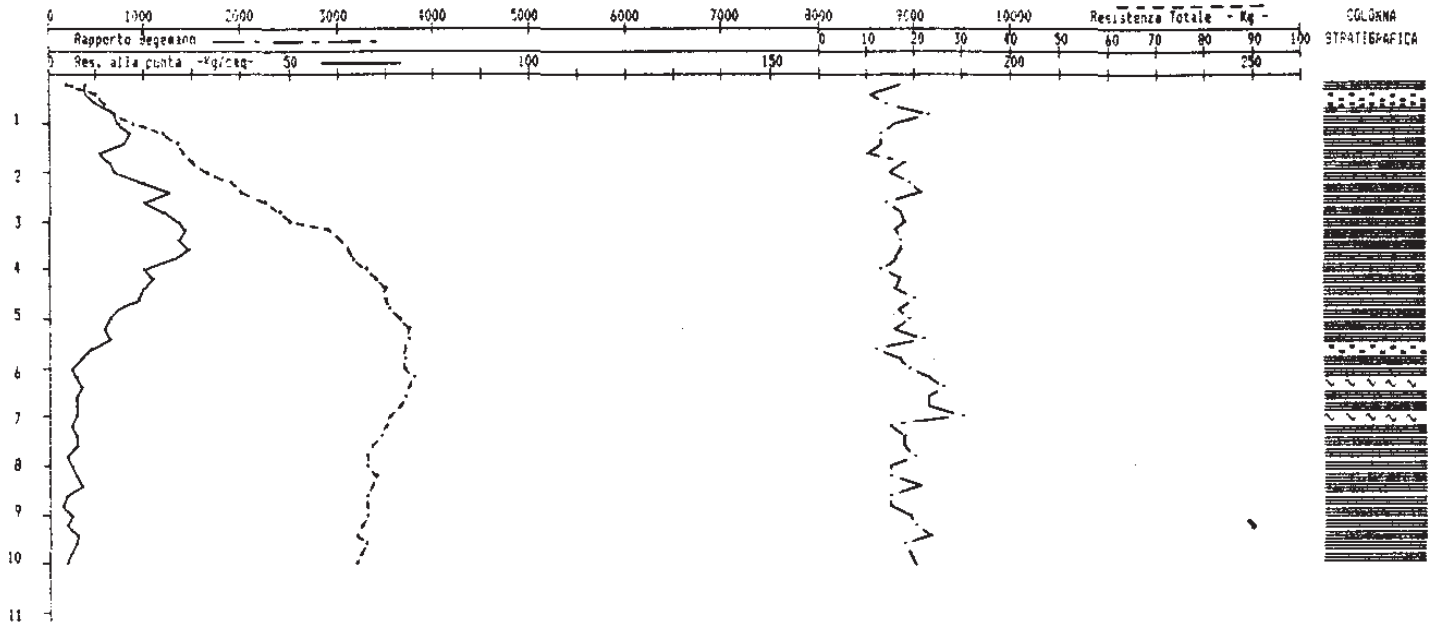
letture di campagna

valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [kg/cmq]	ev [cmq/t]
.2	80	150	200	70	.46	17	120			.32	22.29
.4	80	190	500	110	.73	11	420			.32	22.29
.6	100	210	600	110	.73	14	500			.4	20.3
.8	140	230	700	90	.6	23	560			.56	18.4
1	150	290	900	140	.93	16	750			.6	18.14
1.2	170	360	1200	190	1.26	13	1030			.68	17.75
1.4	160	350	1350	190	1.26	13	1190			.64	17.93
1.6	110	270	1400	160	1.06	10	1290			.44	19.64
1.8	130	240	1500	110	.73	18	1370			.52	18.72
2	140	280	1650	140	.93	15	1510			.56	18.4
2.2	200	360	1700	160	1.06	19	1700			.8	17.36
2.4	250	430	2000	180	1.2	21	1750			1	16.93
2.6	200	420	2250	220	1.46	14	2050			.8	17.36
2.8	240	450	2400	210	1.4	17	2160			.96	16.94
3	270	490	2500	220	1.46	18	2230			1.08	16.6
3.2	280	540	2900	260	1.73	16	2620			1.12	16.48
3.4	270	510	3000	240	1.6	17	2730			1.08	16.6
3.6	290	540	3100	250	1.66	17	2810			1.16	16.35
3.8	260	510	3150	250	1.66	16	2890			1.04	16.72
4	200	430	3300	230	1.53	13	3100			.8	17.36
4.2	220	410	3400	190	1.26	17	3180			.88	17.15
4.4	200	390	3500	190	1.26	16	3300			.8	17.36
4.6	190	330	3500	140	.93	20	3310			.76	17.47
4.8	150	280	3550	130	.86	17	3400			.6	18.14
5	120	230	3650	100	.66	19	3520			.52	18.72
5.2	120	230	3750	110	.73	16	3630			.48	19.13
5.4	130	220	3750	90	.6	22	3620			.52	18.72
5.6	90	200	3790	110	.73	12	3610			.36	21.16
5.8	70	130	3790	60	.4	17	3630			.28	23.91
6	50	90	3700	40	.26	19	3650			.2	29
6.2	60	100	3800	40	.26	23	3740			.24	25.93
6.4	70	110	3750	40	.26	26	3680			.28	23.81
6.6	60	100	3700	40	.26	23	3640			.24	25.93
6.8	60	100	3650	40	.26	23	3590			.24	25.93
7	60	90	3550	30	.2	30	3490			.24	25.93
7.2	50	100	3500	50	.33	15	3450			.2	29
7.4	60	110	3450	50	.33	18	3390			.24	25.93
7.6	60	110	3350	50	.33	18	3290			.24	25.93
7.8	40	70	3390	30	.2	20	3250			.16	33.74
8	50	100	3300	50	.33	15	3250			.2	29

13307

Letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [tmq/t]
8.2	60	120	3400	60	.4	15	3340			.24	25.93
8.4	70	120	3350	50	.33	21	3280			.28	23.81
8.6	40	80	3300	40	.26	15	3260			.16	33.74
8.8	30	60	3300	30	.2	15	3270			.12	41.81
9	50	90	3300	40	.26	19	3250			.2	29
9.2	40	70	3250	30	.2	20	3210			.16	33.74
9.4	60	100	3200	40	.26	23	3140			.24	25.93
9.6	60	110	3300	50	.33	18	3240			.24	25.93
9.8	50	90	3250	40	.26	19	3200			.2	29
10	40	70	3200	30	.2	20	3160			.16	33.74



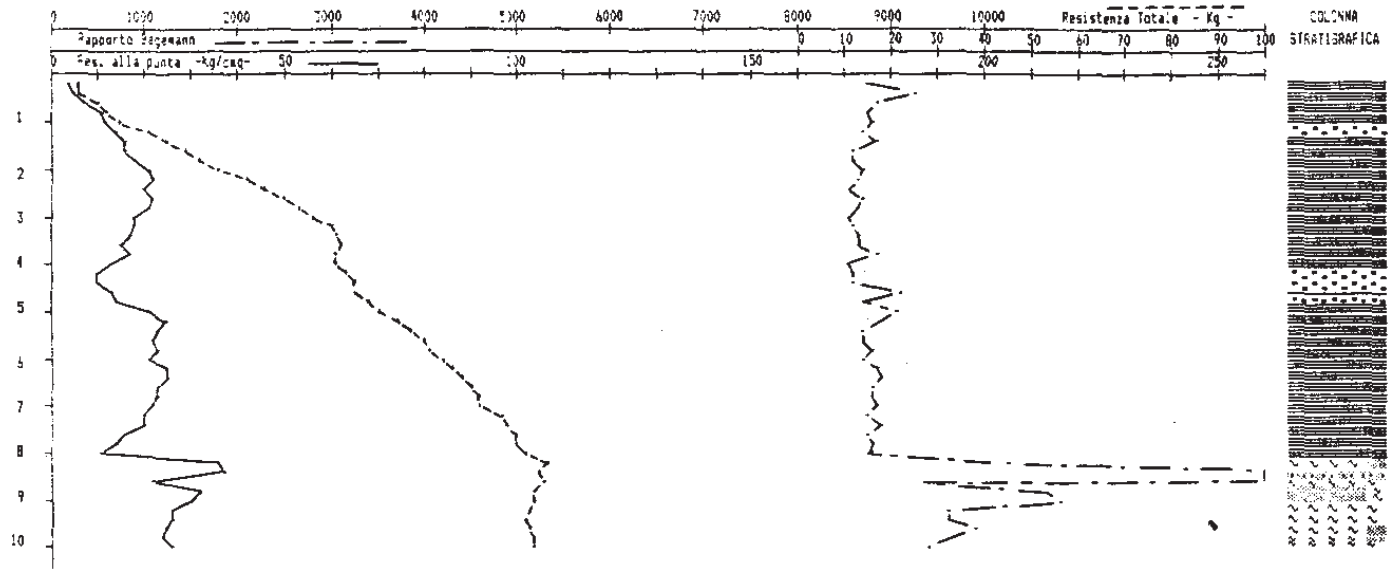
letture di campagna

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valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
.2	40	80	300	40	.26	15	260			.16	33.74
.4	50	80	300	30	.2	25	250			.2	29
.6	70	130	500	60	.4	17	430			.28	23.91
.8	110	220	600	110	.73	15	490			.44	19.64
1	120	230	750	110	.73	16	630			.48	19.13
1.2	140	290	1050	150	1	14	910			.56	18.4
1.4	160	300	1250	140	.93	17	1090			.64	17.93
1.6	160	360	1450	200	1.33	12	1290			.64	17.93
1.8	180	400	1600	220	1.46	12	1420			.72	17.6
2	210	430	1900	220	1.46	14	1690			.84	17.25
2.2	220	480	2100	260	1.73	13	1880			.68	17.15
2.4	290	470	2300	270	1.8	11	2100			.8	17.36
2.6	220	460	2500	240	1.6	14	2280			.88	17.15
2.8	210	450	2650	240	1.6	13	2440			.84	17.25
3	190	420	2900	240	1.6	11	2620			.72	17.6
3.2	180	400	3000	220	1.46	12	2820			.72	17.6
3.4	170	370	3050	200	1.33	13	2880			.68	17.75
3.6	150	320	3100	170	1.13	13	2950			.6	18.14
3.8	170	320	3050	150	1	17	2880			.68	17.75
4	130	300	3050	170	1.13	11	2920			.52	18.72
4.2	190	230	3150	130	.86	12	3050			.4	20.3
4.4	100	220	3250	120	.8	12	3150			.4	20.3
4.6	130	220	3250	90	.6	22	3120			.52	18.72
4.8	140	290	3400	150	1	14	3260			.56	18.4
5	210	360	3500	150	1	21	3290			.84	17.25
5.2	250	460	3700	210	1.4	18	3450			1	16.83
5.4	230	480	3850	250	1.66	14	3620			.92	17.04
5.6	220	450	4000	230	1.53	14	3780			.98	17.15
5.8	230	440	4050	210	1.4	16	3820			.92	17.04
6	210	430	4200	220	1.46	14	3990			.84	17.25
6.2	250	470	4300	220	1.46	17	4050			1	16.83
6.4	250	460	4400	210	1.4	18	4150			1	16.83
6.6	230	440	4500	210	1.4	16	4270			.92	17.04
6.8	230	440	4600	210	1.4	16	4370			.92	17.04
7	220	410	4600	190	1.26	17	4380			.88	17.15
7.2	200	400	4850	200	1.33	15	4650			.8	17.36
7.4	200	370	4900	170	1.13	18	4700			.8	17.36
7.6	160	320	5000	160	1.06	15	4840			.64	17.93
7.8	140	270	5000	130	.86	16	4860			.56	18.4
8	110	220	5100	110	.73	15	4990			.44	19.64

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	360	480	5350	120	.8	45	4990			1.44	15.24
8.4	370	420	5250	50	.33	111	4880	34	30		15.06
8.6	220	340	5300	120	.8	27	5080			.88	17.15
8.8	320	410	5200	90	.6	53	4890	29	27		15.91
9	300	380	5200	80	.53	56	4900	29	26		16.21
9.2	260	380	5150	120	.8	32	4890			1.04	16.72
9.4	260	380	5100	120	.8	32	4840			1.04	16.72
9.6	250	350	5150	100	.66	38	4900			1	16.83
9.8	240	350	5200	110	.73	33	4960			.96	16.94
10	260	400	5200	140	.93	28	4940			1.04	16.72



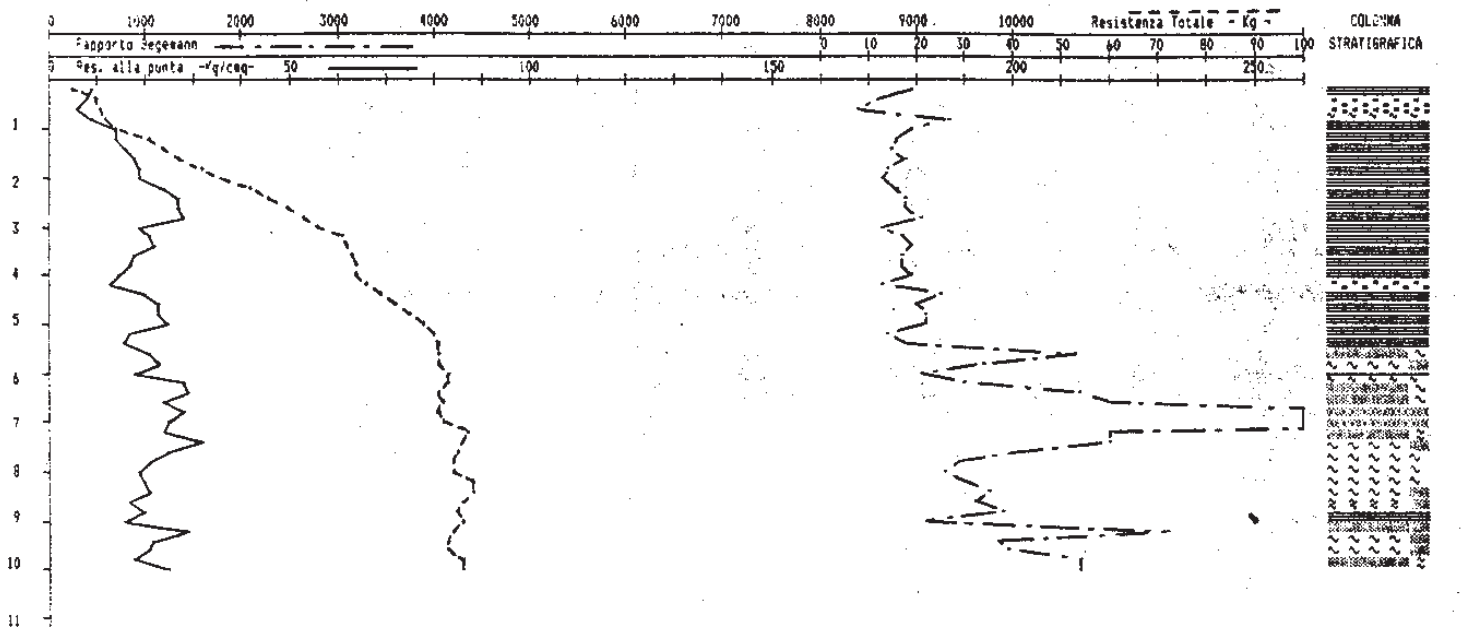
letture di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
.2	90	160	250
.4	80	180	500
.6	60	180	550
.8	90	140	600
1	140	250	700
1.2	140	270	1050
1.4	160	320	1200
1.6	180	330	1350
1.8	190	400	1600
2	190	410	1800
2.2	240	460	2100
2.4	270	490	2300
2.6	270	490	2500
2.8	280	480	2650
3	190	410	2800
3.2	210	400	3050
3.4	220	390	3100
3.6	180	340	3150
3.8	170	320	3200
4	150	270	3200
4.2	130	280	3300
4.4	200	320	3450
4.6	230	400	3600
4.8	230	390	3750
5	250	420	3900
5.2	170	350	4000
5.4	160	290	4050
5.6	210	270	4050
5.8	230	330	4050
6	180	310	4150
6.2	180	420	4150
6.4	290	370	4050
6.6	240	300	4100
6.8	280	310	4050
7	250	280	4100
7.2	240	300	4350
7.4	320	400	4300
7.6	250	340	4250
7.8	210	320	4200
8	190	300	4200

valori derivati

Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
70	.46	19	160			.36	21.16
100	.66	12	420			.32	22.29
120	.8	8	490			.24	25.93
50	.33	27	510			.36	21.16
110	.73	19	560			.56	18.4
130	.86	16	910			.56	18.4
160	1.06	15	1040			.64	17.93
150	1	18	1170			.72	17.6
210	1.4	14	1410			.76	17.47
220	1.46	13	1610			.76	17.47
220	1.46	16	1860			.96	16.94
220	1.46	18	2030			1.08	16.6
220	1.46	18	2230			1.08	16.6
200	1.33	21	2370			1.12	16.48
220	1.46	13	2610			.76	17.47
190	1.26	17	2840			.84	17.25
170	1.13	19	2880			.88	17.15
160	1.06	17	2970			.72	17.6
150	1	17	3030			.68	17.75
120	.8	19	3050			.6	18.14
150	1	13	3170			.52	19.72
120	.8	25	3250			.8	17.36
170	1.13	20	3370			.92	17.04
160	1.06	22	3520			.92	17.04
170	1.13	22	3650			1	16.83
180	1.2	14	3830			.68	17.75
130	.86	18	3890			.84	17.93
60	.4	53	3840	27	19		17.25
100	.66	34	3820			.92	17.04
130	.86	21	3970			.72	17.6
140	.93	30	3970			1.12	16.48
80	.53	54	3760	29	25		16.35
60	.4	60	3860	27	21		16.94
30	.2	140	3770	34	29		16.48
30	.2	125	3850	34	22		16.83
60	.4	60	4110	27	21		16.94
80	.53	60	3980	29	27		15.91
90	.6	42	4000			1	16.83
110	.73	29	3990			.84	17.25
110	.73	26	4010			.76	17.47

PROFONDITA' [metri]	letture di campagna: Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati: Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	gv [cmq/t]
9.2	200	300	4400	100	.66	30	4200			.8	17.36
9.4	210	300	4400	90	.6	35	4190			.84	17.25
9.6	170	250	4300	80	.53	32	4130			.68	17.75
9.8	200	280	4250	80	.53	38	4050			.8	17.36
9	160	270	4300	110	.73	22	4140			.64	17.93
9.2	290	350	4200	60	.4	72	3910	29	25		16.35
9.4	220	310	4150	90	.6	37	3930			.88	17.15
9.6	210	290	4150	80	.53	39	3940			.84	17.25
9.8	180	230	4300	50	.33	54	4120	27	16		17.6
10	250	320	4300	70	.46	54	4050	29	22		16.83

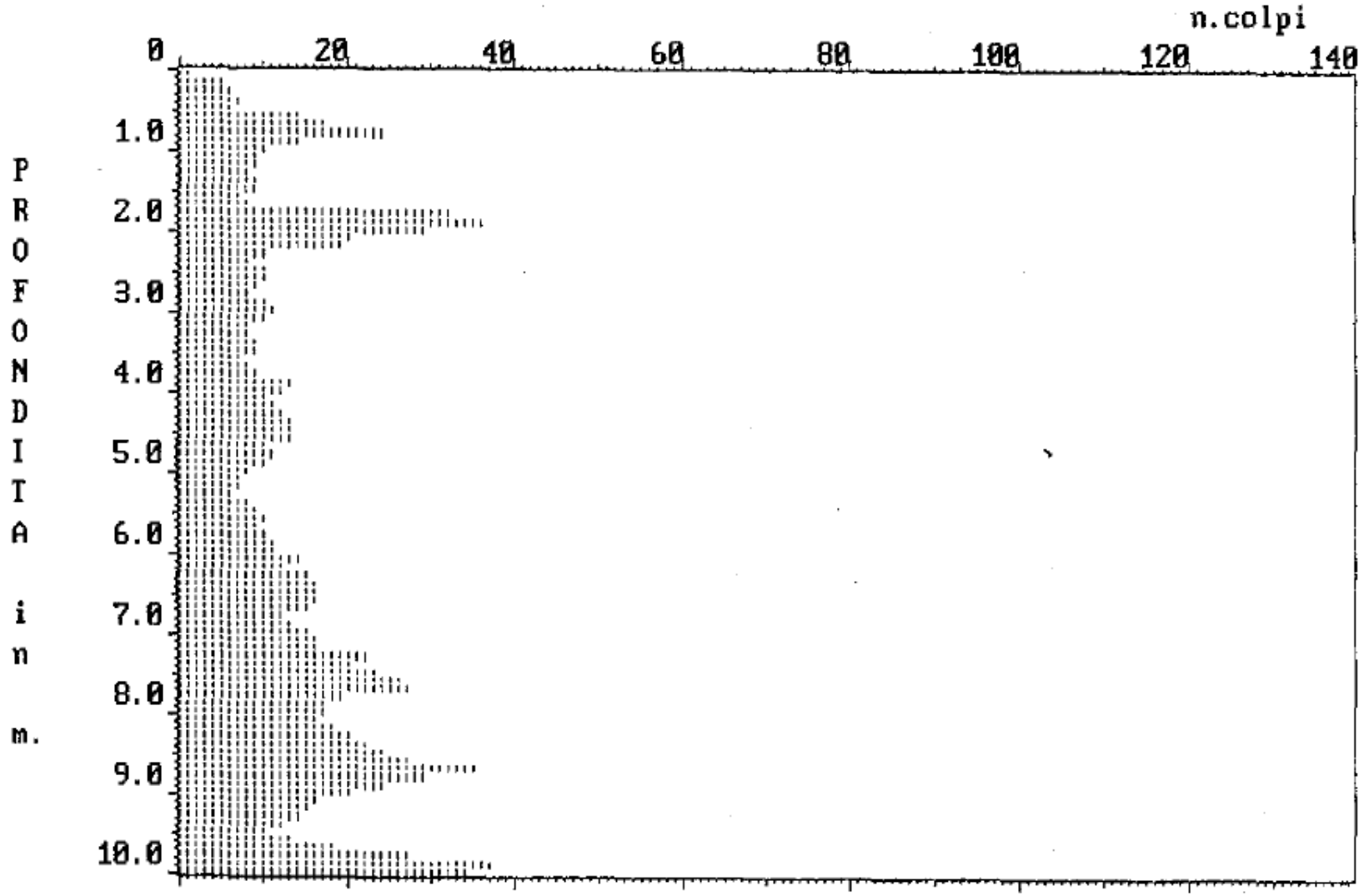


Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	1	4	3.10	10	27
0.20	5	18	3.20	8	22
0.30	6	22	3.30	8	22
0.40	7	25	3.40	9	25
0.50	6	22	3.50	9	25
0.60	14	50	3.60	7	19
0.70	17	61	3.70	8	22
0.80	24	86	3.80	9	24
0.90	14	50	3.90	13	35
1.00	10	36	4.00	12	32
1.10	9	29	4.10	10	25
1.20	9	29	4.20	11	28
1.30	8	26	4.30	12	30
1.40	9	29	4.40	13	33
1.50	9	29	4.50	13	33
1.60	7	23	4.60	13	32
1.70	8	26	4.70	10	25
1.80	32	103	4.80	11	27
1.90	36	116	4.90	10	25
2.00	29	93	5.00	8	20
2.10	20	60	5.10	7	16
2.20	19	57	5.20	7	16
2.30	10	30	5.30	6	14
2.40	8	24	5.40	8	19
2.50	10	30	5.50	9	21
2.60	10	29	5.60	10	23
2.70	9	26	5.70	9	21
2.80	8	23	5.80	10	23
2.90	10	29	5.90	11	26
3.00	11	32	6.00	11	26

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	14	31	8.10	16	31
6.20	12	26	8.20	18	35
6.30	15	33	8.30	20	39
6.40	16	35	8.40	22	43
6.50	16	35	8.50	24	46
6.60	16	35	8.60	27	52
6.70	15	33	8.70	35	67
6.80	12	26	8.80	29	56
6.90	13	28	8.90	24	46
7.00	15	33	9.00	20	38
7.10	16	33	9.10	16	29
7.20	16	33	9.20	15	27
7.30	22	45	9.30	14	26
7.40	20	41	9.40	12	22
7.50	23	47	9.50	10	18
7.60	26	53	9.60	13	24
7.70	27	55	9.70	18	33
7.80	19	39	9.80	27	49
7.90	17	35	9.90	37	67
8.00	17	35	10.00	34	62

PROVA PENETROMETRICA [S.C.P.T.] N. 1

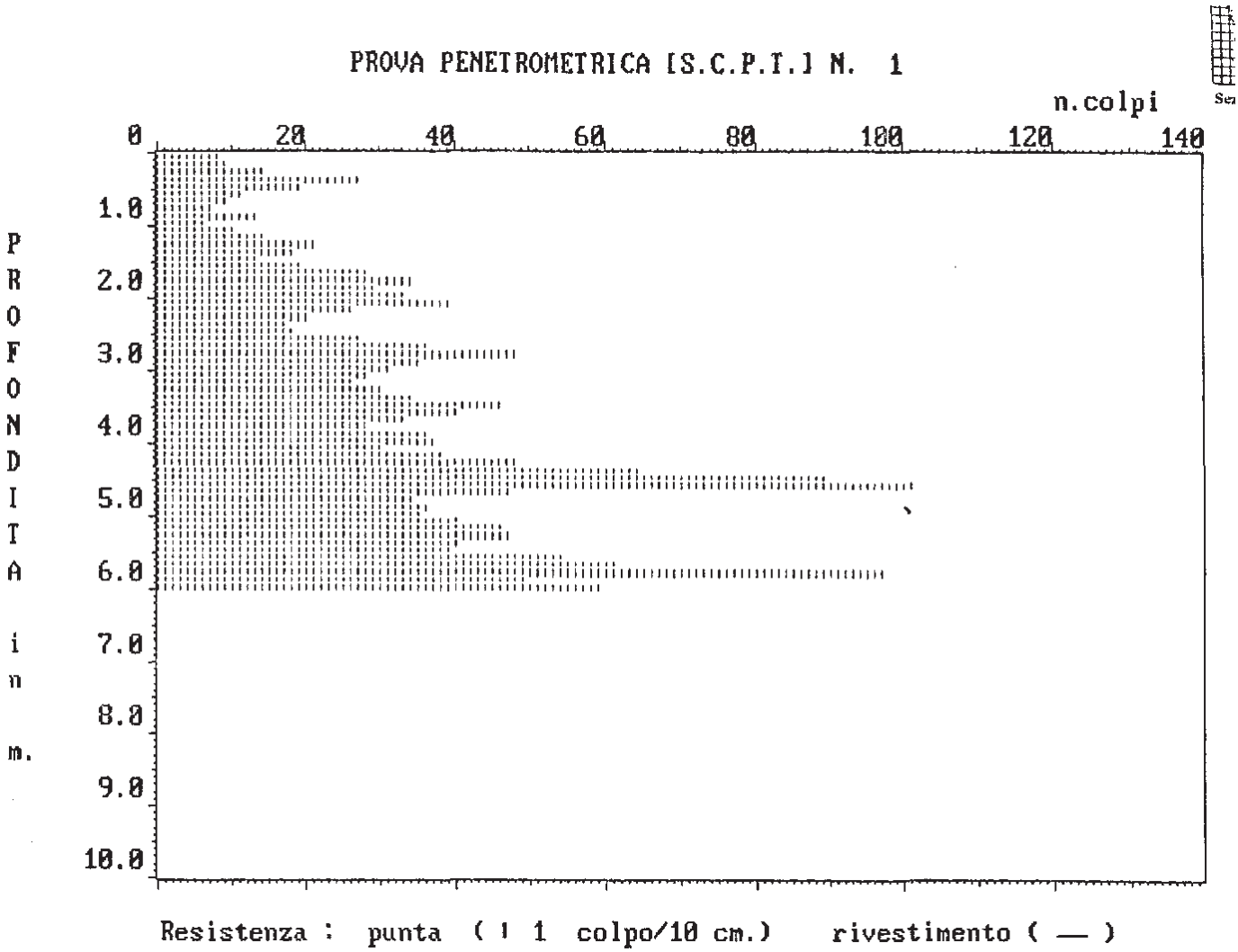


Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	8	29	3.10	28	76
0.20	9	33	3.20	26	71
0.30	14	51	3.30	30	82
0.40	27	98	3.40	34	93
0.50	19	69	3.50	46	125
0.60	11	39	3.60	40	108
0.70	9	32	3.70	33	89
0.80	7	25	3.80	28	76
0.90	13	46	3.90	36	97
1.00	6	21	4.00	37	100
1.10	10	33	4.10	30	76
1.20	14	46	4.20	38	96
1.30	21	69	4.30	48	121
1.40	18	59	4.40	64	161
1.50	13	42	4.50	89	224
1.60	19	61	4.60	101	252
1.70	28	90	4.70	47	117
1.80	34	110	4.80	34	85
1.90	29	93	4.90	36	90
2.00	33	106	5.00	35	87
2.10	39	116	5.10	40	94
2.20	26	77	5.20	46	108
2.30	20	60	5.30	47	110
2.40	17	51	5.40	40	94
2.50	18	54	5.50	39	91
2.60	27	79	5.60	54	125
2.70	36	106	5.70	61	142
2.80	48	141	5.80	97	225
2.90	35	103	5.90	49	114
3.00	31	91	6.00	59	137

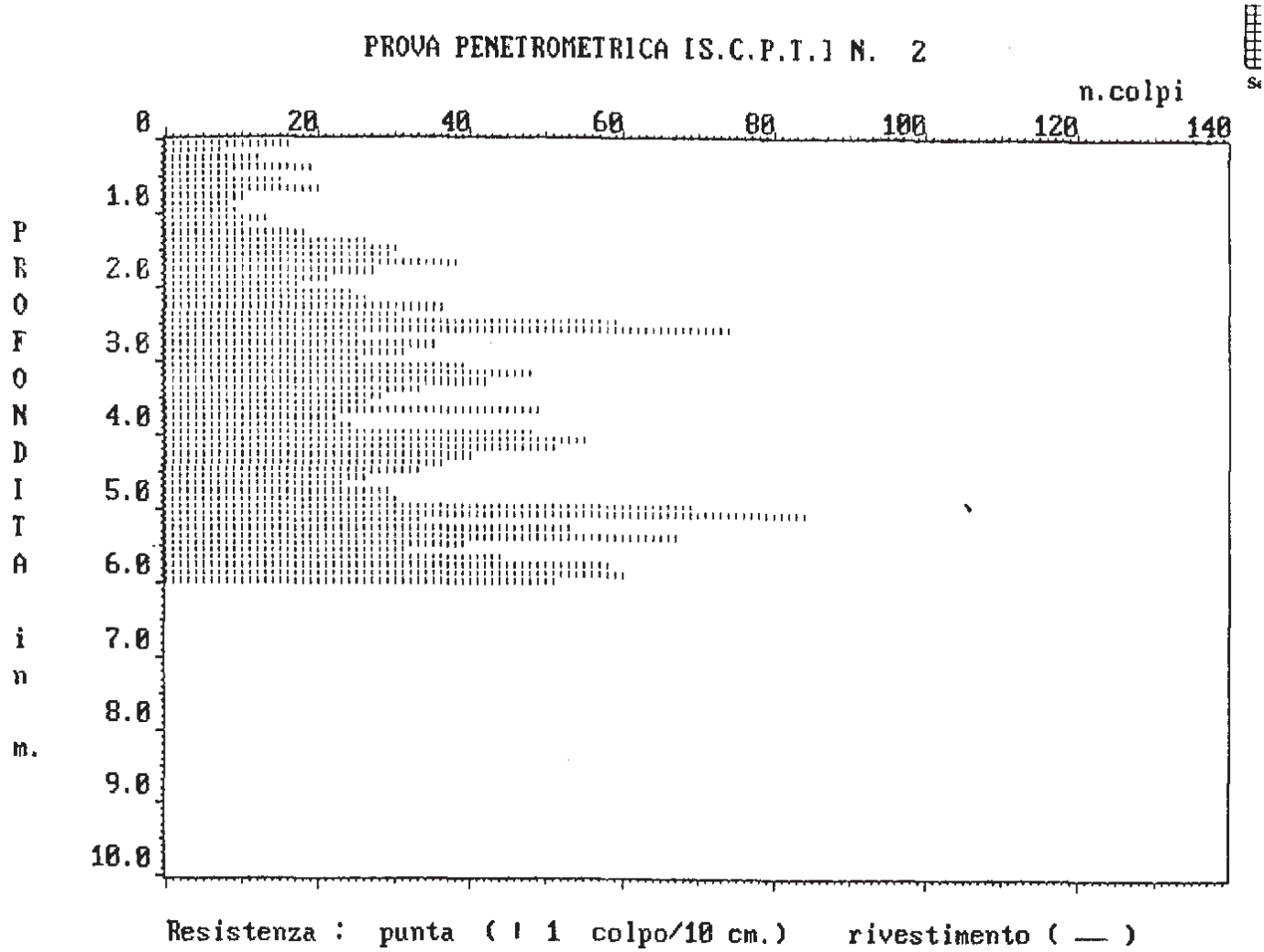
PROVA PENETROMETRICA [S.C.P.T.] N. 1



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	16	58	3.10	39	106
0.20	7	25	3.20	48	131
0.30	12	44	3.30	42	115
0.40	19	69	3.40	33	90
0.50	8	29	3.50	28	76
0.60	15	53	3.60	26	70
0.70	20	71	3.70	49	132
0.80	10	36	3.80	22	59
0.90	8	29	3.90	24	65
1.00	9	32	4.00	48	130
1.10	13	42	4.10	55	139
1.20	10	33	4.20	51	129
1.30	18	59	4.30	40	101
1.40	26	85	4.40	36	91
1.50	30	98	4.50	33	83
1.60	29	93	4.60	26	65
1.70	38	122	4.70	23	57
1.80	27	87	4.80	29	72
1.90	21	68	4.90	30	75
2.00	17	55	5.00	69	172
2.10	24	71	5.10	84	197
2.20	26	77	5.20	33	77
2.30	36	107	5.30	53	124
2.40	30	89	5.40	67	157
2.50	59	176	5.50	39	91
2.60	74	217	5.60	31	72
2.70	25	73	5.70	44	102
2.80	35	103	5.80	58	135
2.90	31	91	5.90	60	139
3.00	25	73	6.00	51	118

PROVA PENETROMETRICA [S.C.P.T.] N. 2

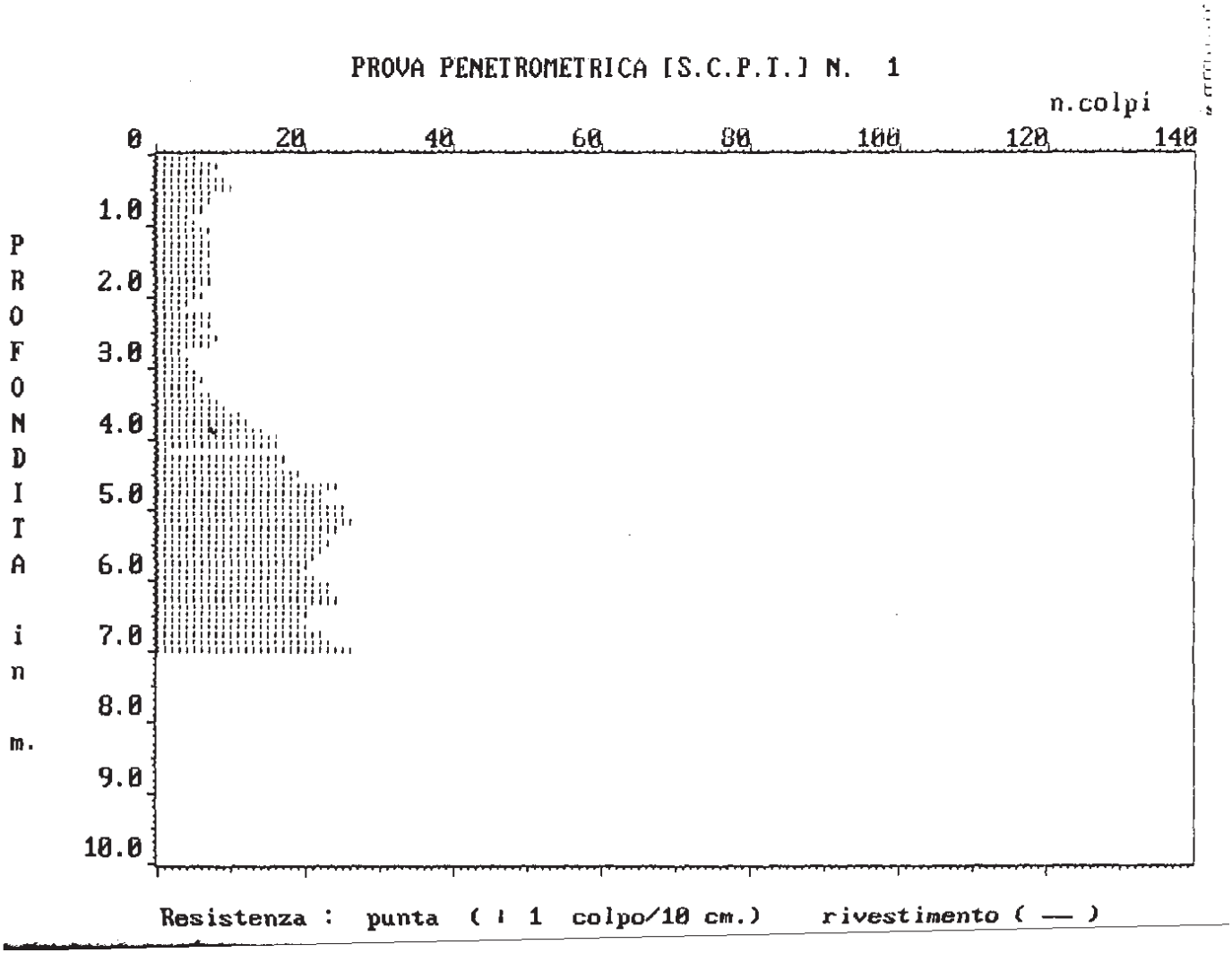


Resistenza : punta (! 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	5	18	3.10	5	14
0.20	8	29	3.20	6	16
0.30	7	25	3.30	5	14
0.40	9	33	3.40	7	19
0.50	10	36	3.50	8	22
0.60	7	25	3.60	9	24
0.70	7	25	3.70	11	30
0.80	6	21	3.80	12	32
0.90	4	14	3.90	14	38
1.00	5	18	4.00	16	43
1.10	7	23	4.10	16	40
1.20	6	20	4.20	1	3
1.30	7	23	4.30	17	43
1.40	7	23	4.40	16	40
1.50	6	20	4.50	19	48
1.60	7	23	4.60	18	45
1.70	7	23	4.70	24	60
1.80	7	23	4.80	22	55
1.90	5	16	4.90	22	55
2.00	6	19	5.00	25	62
2.10	4	12	5.10	25	59
2.20	3	9	5.20	26	61
2.30	7	21	5.30	24	56
2.40	7	21	5.40	22	52
2.50	5	15	5.50	23	54
2.60	8	23	5.60	22	51
2.70	7	21	5.70	21	49
2.80	3	9	5.80	20	46
2.90	4	12	5.90	19	44
3.00	4	12	6.00	21	49

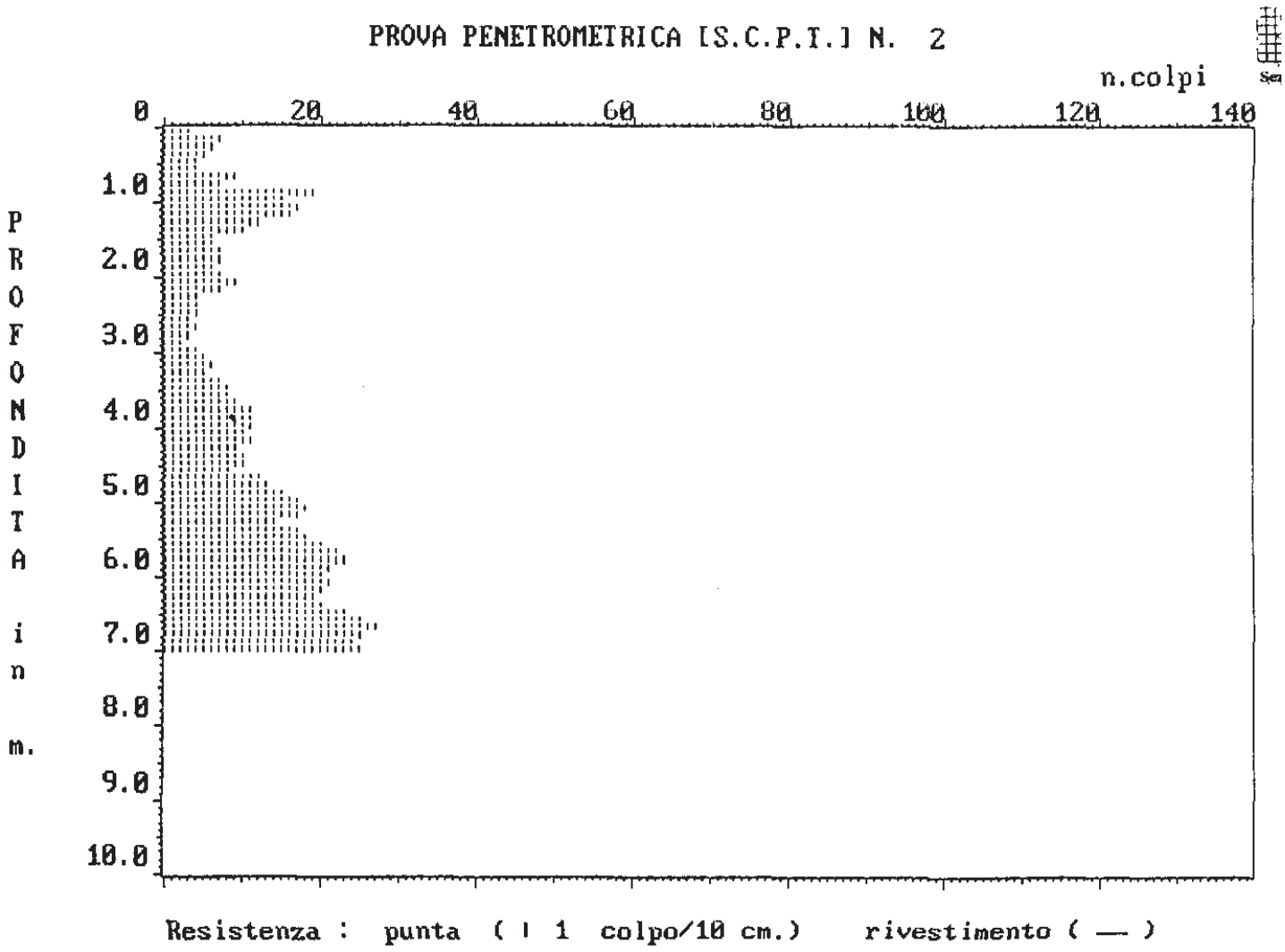
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
6.10	23	50	6.60	19	41
6.20	23	50	6.70	20	43
6.30	24	53	6.80	22	48
6.40	20	44	6.90	23	50
6.50	20	44	7.00	26	57



Resistenza alla punta

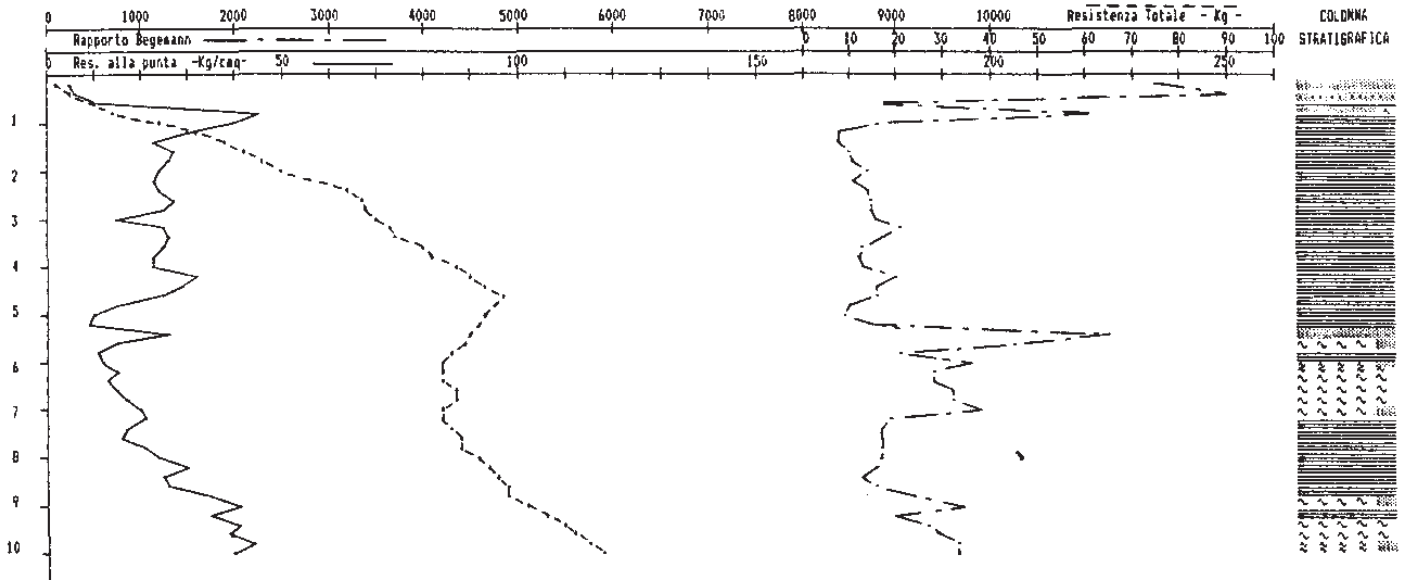
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	3	11	3.10	5	14
0.20	7	25	3.20	6	16
0.30	6	22	3.30	5	14
0.40	5	18	3.40	7	19
0.50	4	15	3.50	8	22
0.60	4	14	3.60	8	22
0.70	9	32	3.70	9	24
0.80	7	25	3.80	11	30
0.90	19	68	3.90	11	30
1.00	15	53	4.00	11	30
1.10	17	56	4.10	10	25
1.20	16	52	4.20	11	28
1.30	12	39	4.30	9	23
1.40	10	33	4.40	10	25
1.50	6	20	4.50	10	25
1.60	6	19	4.60	8	20
1.70	7	23	4.70	12	30
1.80	7	23	4.80	13	32
1.90	6	19	4.90	15	37
2.00	7	23	5.00	17	42
2.10	9	27	5.10	18	42
2.20	7	21	5.20	17	40
2.30	4	12	5.30	14	33
2.40	4	12	5.40	17	40
2.50	4	12	5.50	18	42
2.60	3	9	5.60	20	46
2.70	4	12	5.70	22	51
2.80	3	9	5.80	23	53
2.90	2	6	5.90	21	49
3.00	4	12	6.00	20	46

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgN/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgN/cm².
6.10	21	46	6.60	25	54
6.20	20	44	6.70	27	59
6.30	19	42	6.80	25	54
6.40	20	44	6.90	24	52
6.50	23	50	7.00	25	54



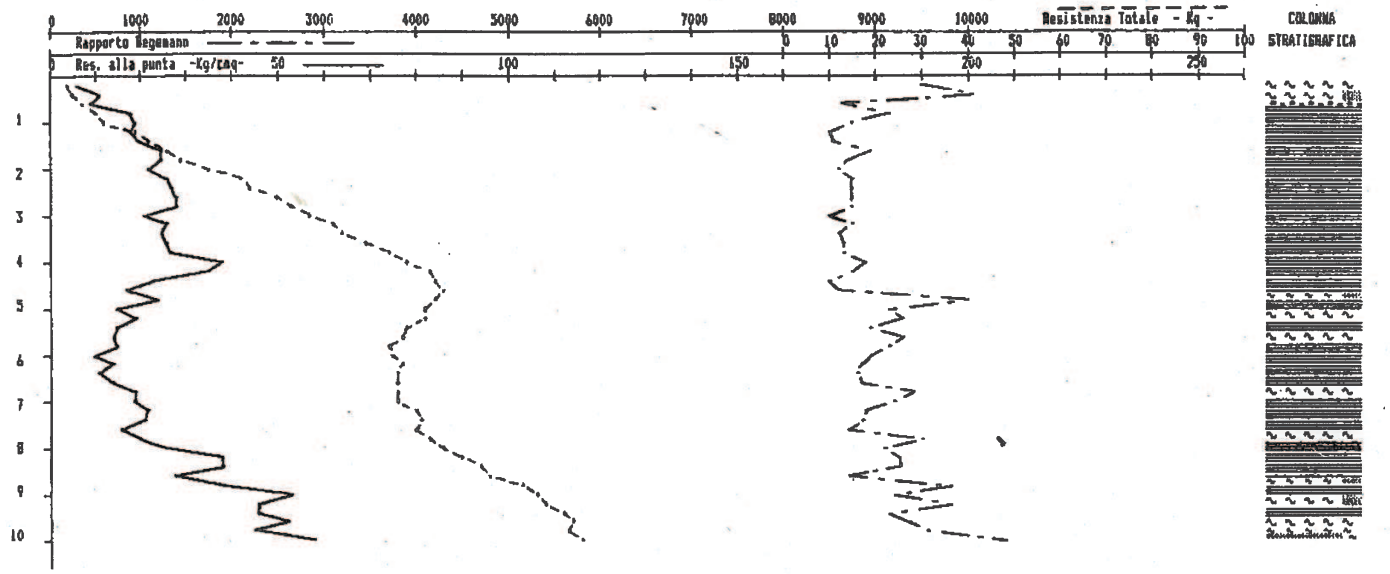
letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
.2	50	60	100	10	.06	75	50	27	5		29
.4	60	70	250	10	.06	90	190	30	6		25.93
.6	110	200	500	90	.6	18	390			.44	19.64
.8	450	560	700	110	.73	61	250	30	35		13.53
1	480	720	1200	320	2.13	19	800			1.6	14.5
1.2	300	850	1600	550	3.66	8	1300			1.2	16.21
1.4	230	680	1900	450	3	8	1670			.92	17.04
1.6	270	670	2100	400	2.66	10	1830			1.08	16.6
1.8	260	620	2300	360	2.4	11	2040			1.04	16.72
2	240	500	2500	260	1.73	14	2260			.96	16.94
2.2	230	530	2800	300	2	11	2570			.92	17.04
2.4	240	500	3200	260	1.73	14	2960			.96	16.94
2.6	270	540	3350	270	1.8	15	3080			1.08	16.6
2.8	250	500	3400	250	1.66	15	3150			1	16.83
3	150	290	3500	140	.93	16	3350			.6	18.14
3.2	250	430	3650	180	1.2	21	3400			1	16.83
3.4	260	490	3700	230	1.53	17	3440			1.04	16.72
3.6	250	530	4000	280	1.86	13	3750			1	16.83
3.8	230	520	4100	290	1.93	12	3870			.92	17.04
4	230	500	4350	270	1.8	13	4120			.92	17.04
4.2	320	560	4500	240	1.6	20	4180			1.28	15.91
4.4	290	560	4650	270	1.8	16	4360			1.16	16.35
4.6	250	490	4850	240	1.6	16	4600			1	16.83
4.8	150	380	4750	230	1.53	10	4600			.6	18.14
5	100	260	4650	160	1.06	9	4550			.4	20.3
5.2	90	180	4600	90	.6	15	4510			.36	21.16
5.4	260	320	4500	60	.4	65	4240	29	23		16.72
5.6	150	200	4450	50	.33	45	4300			.6	18.14
5.8	110	190	4300	80	.53	21	4190			.44	19.64
6	120	170	4200	50	.33	36	4080			.48	19.13
6.2	150	230	4200	80	.53	28	4050			.6	18.14
6.4	130	200	4200	70	.46	28	4070			.52	18.72
6.6	150	220	4350	70	.46	32	4200			.6	18.14
6.8	170	250	4350	80	.53	32	4180			.68	17.75
7	200	280	4200	80	.53	38	4000			.8	17.36
7.2	210	380	4200	170	1.13	19	3990			.84	17.25
7.4	170	320	4300	150	1	17	4130			.68	17.75
7.6	160	300	4400	140	.93	17	4240			.64	17.93
7.8	210	400	4400	190	1.26	17	4190			.84	17.25
8	240	450	4600	210	1.4	17	4360			.96	16.94

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Kp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	300	590	4700	290	1.93	16	4400			1.2	16.21
8.4	250	540	4800	290	1.93	13	4550			1	16.83
8.6	260	500	4900	240	1.6	16	4640			1.04	16.72
8.8	350	570	4900	220	1.46	24	4550			1.4	15.42
9	410	590	5100	180	1.2	34	4690			1.64	14.3
9.2	350	610	5300	260	1.73	20	4950			1.4	15.42
9.4	410	640	5500	230	1.53	27	5090			1.64	14.3
9.6	390	590	5600	200	1.33	29	5210			1.56	14.69
9.8	440	640	5750	200	1.33	33	5310			1.76	13.72
10	400	580	5900	180	1.2	33	5500			1.6	14.5



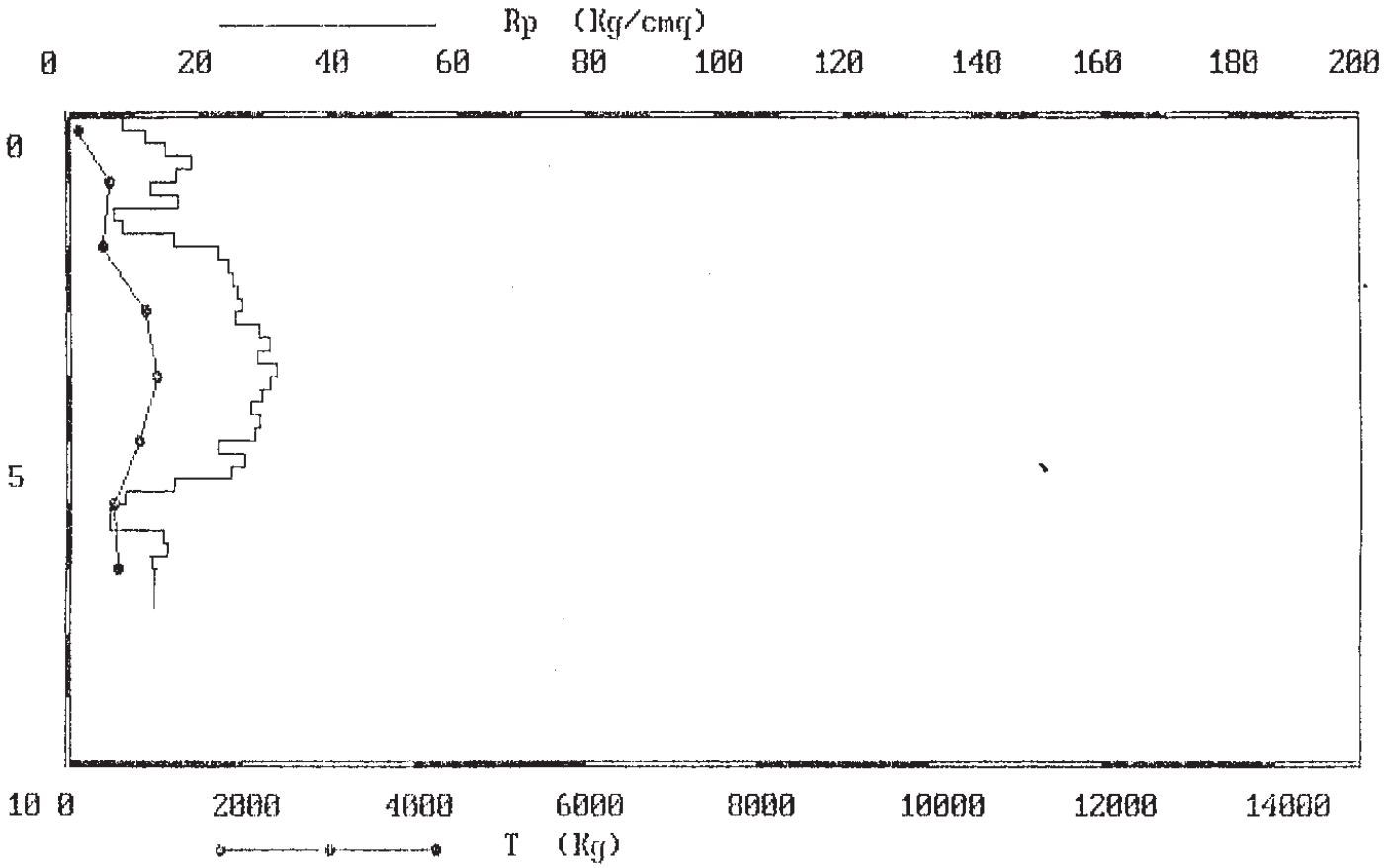
letture di campagna				valori derivati								
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	ny [cmq/t]
.2	60	90	200	30	.2	30	140			.24	25.93
.4	110	150	250	40	.26	41	140			.44	19.64
.6	90	190	350	100	.66	13	260			.36	21.18
.8	180	300	500	120	.8	23	320			.72	17.6
1	190	380	600	190	1.26	15	410			.76	17.47
1.2	180	440	950	260	1.73	10	770			.72	17.6
1.4	200	470	1100	270	1.8	11	900			.8	17.3c
1.6	250	450	1300	200	1.33	19	1050			1	16.83
1.8	250	510	1450	260	1.73	14	1200			1	16.83
2	220	500	1750	280	1.86	12	1530			.88	17.15
2.2	260	520	2100	260	1.73	15	1840			1.04	16.72
2.4	270	540	2200	270	1.8	15	1930			1.08	16.6
2.6	280	560	2500	280	1.86	15	2220			1.12	16.48
2.8	280	560	2650	280	1.86	15	2370			1.12	16.48
3	210	520	2850	310	2.06	10	2640			.84	17.25
3.2	260	520	3100	260	1.73	15	2840			1.04	16.72
3.4	250	550	3200	300	2	12	2950			1	16.83
3.6	260	560	3450	300	2	13	3190			1.04	16.72
3.8	270	570	3700	300	2	13	3430			1.08	16.6
4	380	700	3900	320	2.13	18	3520			1.52	14.87
4.2	350	700	4150	350	2.33	15	3800			1.4	15.42
4.4	230	570	4200	340	2.26	10	3970			.92	17.04
4.6	170	380	4300	210	1.4	12	4130			.68	17.75
4.8	240	330	4200	90	.6	40	3960			.96	16.94
5	150	250	4100	100	.66	23	3950			.6	18.14
5.2	190	300	4100	110	.73	26	3910			.76	17.47
5.4	150	270	3900	120	.8	19	3750			.6	18.14
5.6	140	220	3850	80	.53	26	3710			.56	18.4
5.8	150	250	3700	100	.66	23	3550			.6	18.14
6	100	180	3750	80	.53	19	3650			.4	20.3
6.2	140	260	3850	120	.8	17	3710			.56	18.4
6.4	110	210	3800	100	.66	16	3690			.44	19.64
6.6	140	260	3800	120	.8	17	3660			.56	18.4
6.8	190	290	3800	100	.66	28	3610			.76	17.47
7	190	310	3800	120	.8	24	3610			.76	17.47
7.2	220	400	4000	180	1.2	18	3780			.88	17.15
7.4	210	400	4050	190	1.26	17	3840			.84	17.25
7.6	160	330	4000	170	1.13	14	3840			.64	17.93
7.8	200	300	4150	100	.66	30	3950			.8	17.36
8	260	440	4300	180	1.2	22	4040			1.04	16.72

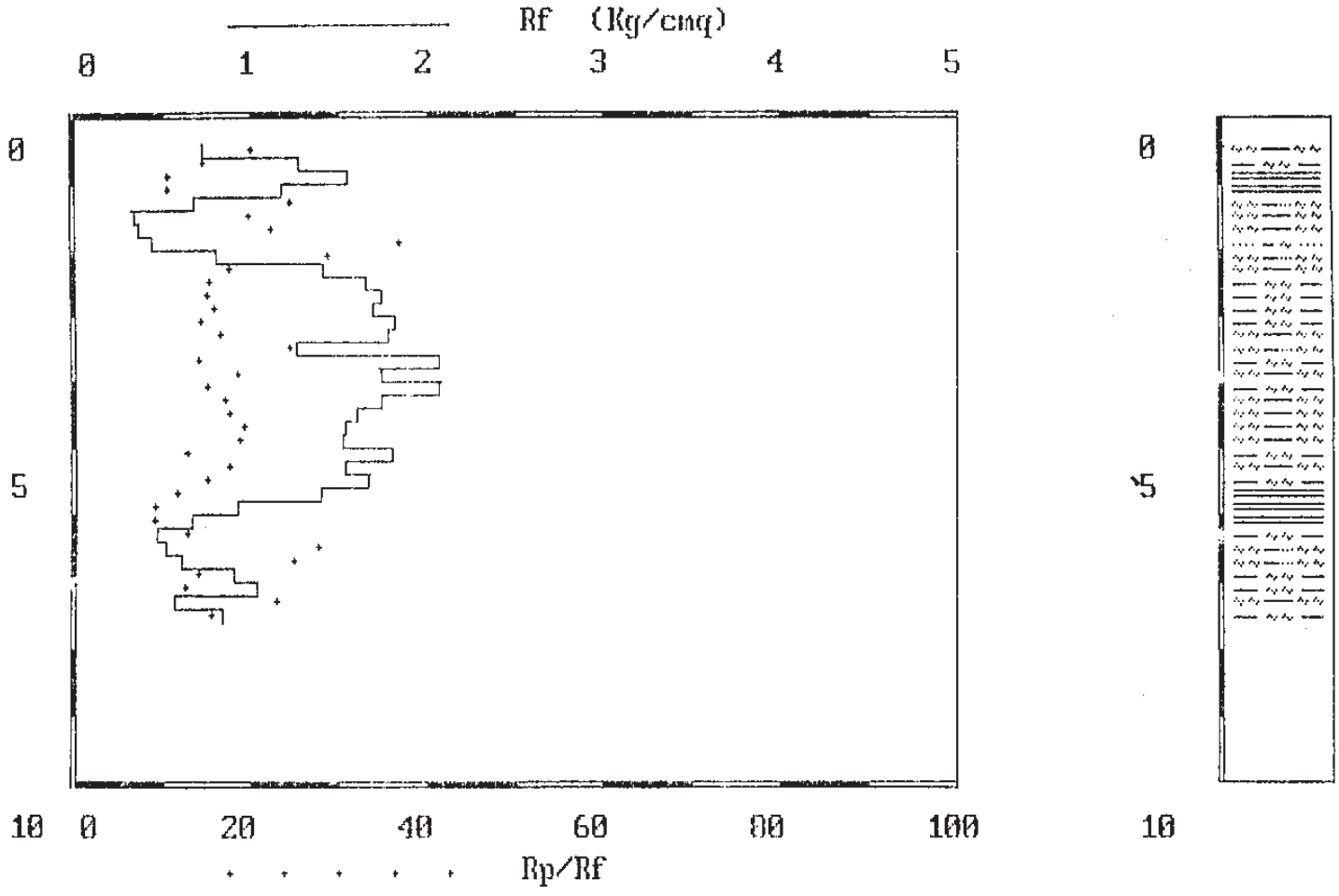
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
8.2	380	610	4500	230	1.53	25	4120			1.52	14.87
8.4	380	610	4700	230	1.53	25	4320			1.52	14.87
8.6	280	580	4800	300	2	14	4520			1.12	16.46
8.8	380	540	5150	160	1.06	36	4770			1.52	14.87
9	530	860	5300	330	2.2	24	4770			2.65	12.02
9.2	466	650	5400	190	1.26	36	4940			2.3	13.33
9.4	466	760	5600	300	2	23	5140			2.3	13.33
9.6	520	810	5700	290	1.93	27	5180			2.6	12.2
9.8	450	670	5650	220	1.46	31	5200			1.8	13.53
10	580	760	5800	180	1.2	48	5220	31	43		11.16



LETTURE DI CAMPAGNA				VALORI DERIVATI						
prof.	A	B	T	Rp	Rf	Rp/Rf	Ø	Dr	cu	mv
0.20	80	--	110	8.0	--	--	-	--	--	--
0.40	115	--	150	11.5	--	--	-	--	--	--
0.60	146	255	550	14.6	0.73	20.09	0	0	0.58	0.017
0.80	187	379	630	18.7	1.28	14.61	0	0	0.94	0.015
1.00	163	396	460	16.3	1.55	10.49	0	0	1.09	0.015
1.20	123	300	550	12.3	1.18	10.42	0	0	0.82	0.020
1.40	167	269	370	16.7	0.68	24.56	25	35	0.00	0.015
1.60	66	116	230	6.6	0.33	19.80	0	0	0.26	0.038
1.80	80	134	250	8.0	0.36	22.22	0	0	0.32	0.031
2.00	159	224	380	15.9	0.43	36.69	28	34	0.00	0.016
2.20	230	350	550	23.0	0.80	28.75	26	42	0.00	0.014
2.40	246	457	735	24.6	1.41	17.49	0	0	0.98	0.014
2.60	253	500	830	25.3	1.65	15.36	0	0	1.27	0.016
2.80	260	520	850	26.0	1.73	15.00	0	0	1.30	0.015
3.00	267	520	880	26.7	1.69	15.83	0	0	1.34	0.015
3.20	258	530	940	25.8	1.81	14.23	0	0	1.29	0.016
3.40	294	560	960	29.4	1.77	16.58	0	0	1.18	0.011
3.60	310	500	980	31.0	1.27	24.47	25	48	0.00	0.011
3.80	290	600	1000	29.0	2.07	14.03	0	0	1.45	0.014
4.00	320	580	1000	32.0	1.73	18.46	0	0	1.28	0.010
4.20	310	620	1000	31.0	2.07	15.00	0	0	1.55	0.013
4.40	295	556	950	29.5	1.74	16.95	0	0	1.18	0.011
4.60	280	520	910	28.0	1.60	17.50	0	0	1.12	0.012
4.80	294	524	860	29.4	1.53	19.17	0	0	1.18	0.011
5.00	286	515	790	28.6	1.53	18.73	0	0	1.14	0.013
5.20	230	500	830	23.0	1.80	12.78	0	0	1.15	0.017
5.40	270	500	790	27.0	1.53	17.61	0	0	1.08	0.012
5.60	250	500	730	25.0	1.67	15.00	0	0	1.25	0.016
5.80	160	370	630	16.0	1.40	11.43	0	0	1.07	0.016
6.00	82	220	500	8.2	0.92	8.91	0	0	0.55	0.030
6.20	60	160	320	6.0	0.67	9.00	0	0	0.40	0.042
6.40	59	139	350	5.9	0.47	12.64	0	0	0.30	0.034
6.60	143	280	410	14.3	0.51	27.86	26	31	0.00	0.017
6.80	150	240	500	15.0	0.60	25.00	25	33	0.00	0.017
7.00	125	260	560	12.5	0.90	13.89	0	0	0.63	0.020
7.20	130	235	630	13.0	1.02	12.52	0	0	0.65	0.022
7.40	130	215	660	13.0	0.57	22.94	0	0	0.52	0.017
7.60	130	255	680	13.0	0.83	15.60	0	0	0.65	0.022

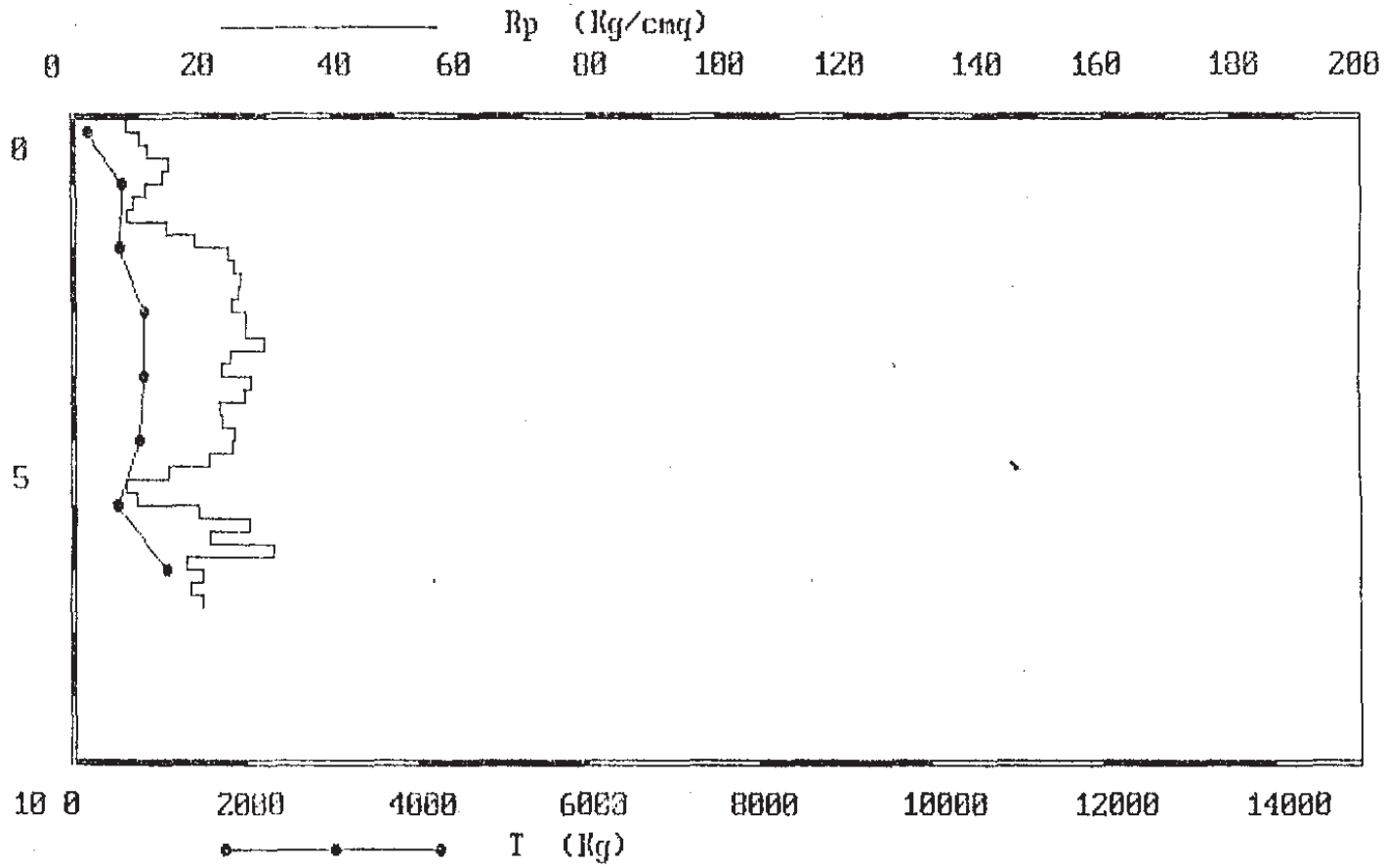
Quota : p.c. Livello di falda : -0.80

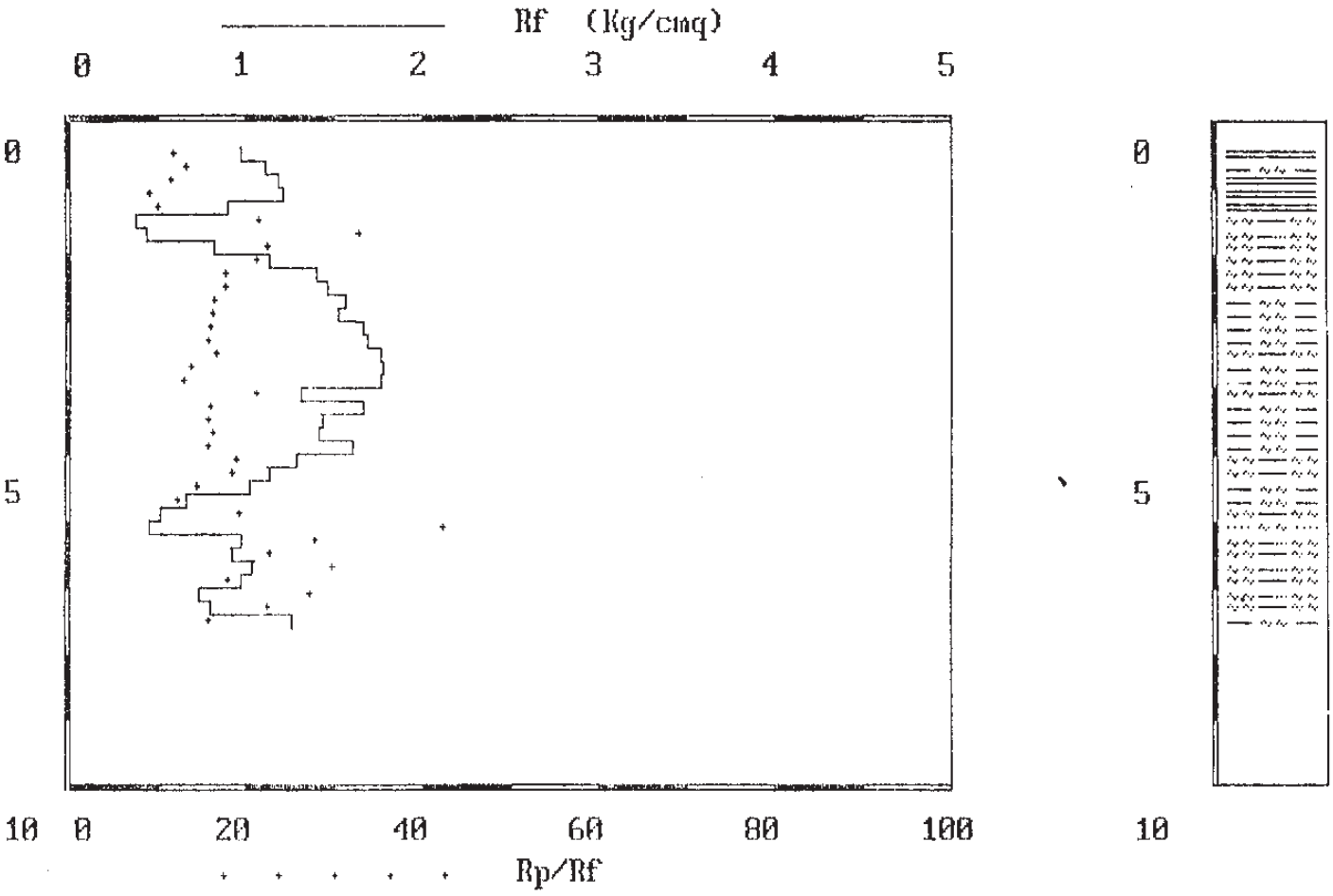

Rp (Kg/cmq)
0 20 40 60 80 100 120 140 160 180 200
0
5
10 0 2000 4000 6000 8000 10000 12000 14000
T (Kg)


Rf (Kg/cmq)
0 1 2 3 4 5
0
5
10 0 20 40 60 80 100
Rp/Rf
0
5
10

LETTURE DI CAMPAGNA				VALORI DERIVATI						
prof.	A	B	T	Rp	Rf	Rp/Rf	Ø	Dr	cu	av
0.20	80	--	160	8.0	--	--	-	--	--	--
0.40	100	--	230	10.0	--	--	-	--	--	--
0.60	114	260	510	11.4	0.97	11.71	0	0	0.76	0.022
0.80	148	315	540	14.8	1.11	13.29	0	0	0.74	0.019
1.00	137	316	560	13.7	1.19	11.48	0	0	0.91	0.018
1.20	110	292	530	11.0	1.21	9.07	0	0	0.73	0.023
1.40	90	225	390	9.0	0.90	10.00	0	0	0.60	0.028
1.60	80	136	310	8.0	0.37	21.43	0	0	0.32	0.031
1.80	144	210	390	14.4	0.44	32.73	27	32	0.00	0.017
2.00	186	310	520	18.6	0.83	22.50	0	0	0.74	0.013
2.20	240	410	700	24.0	1.13	21.18	0	0	0.96	0.014
2.40	250	460	800	25.0	1.40	17.86	0	0	1.00	0.013
2.60	260	480	800	26.0	1.47	17.73	0	0	1.04	0.013
2.80	256	490	800	25.6	1.56	16.41	0	0	1.02	0.013
3.00	247	476	800	24.7	1.53	16.18	0	0	0.99	0.013
3.20	266	515	830	26.6	1.66	16.02	0	0	1.06	0.013
3.40	267	520	920	26.7	1.69	15.83	0	0	1.34	0.015
3.60	295	560	900	29.5	1.77	16.70	0	0	1.18	0.011
3.80	244	510	790	24.4	1.77	13.76	0	0	1.22	0.015
4.00	230	495	800	23.0	1.77	13.02	0	0	1.15	0.017
4.20	278	475	730	27.8	1.31	21.17	0	0	1.11	0.012
4.40	265	515	750	26.5	1.67	15.90	0	0	1.33	0.015
4.60	225	440	730	22.5	1.43	15.70	0	0	1.13	0.018
4.80	229	440	700	22.9	1.41	16.28	0	0	0.92	0.015
5.00	250	490	740	25.0	1.60	15.63	0	0	1.25	0.016
5.20	246	440	750	24.6	1.29	19.02	0	0	0.98	0.014
5.40	210	380	750	21.0	1.13	18.53	0	0	0.84	0.016
5.60	147	300	640	14.7	1.02	14.41	0	0	0.74	0.019
5.80	81	180	530	8.1	0.66	12.27	0	0	0.41	0.035
6.00	98	174	510	9.8	0.51	19.34	0	0	0.39	0.026
6.20	192	260	680	19.2	0.45	42.35	29	34	0.00	0.017
6.40	273	420	700	27.3	0.98	27.86	26	43	0.00	0.012
6.60	210	348	1020	21.0	0.92	22.83	0	0	0.84	0.016
6.80	310	466	940	31.0	1.04	29.81	27	46	0.00	0.011
7.00	174	320	1070	17.4	0.97	17.83	0	0	0.70	0.014
7.20	200	310	1150	20.0	0.73	27.27	26	41	0.00	0.017
7.40	180	300	1000	18.0	0.80	22.50	0	0	0.72	0.014
7.60	200	390	1100	20.0	1.27	15.79	0	0	1.00	0.020

Quota : p.c. Livello di falda :

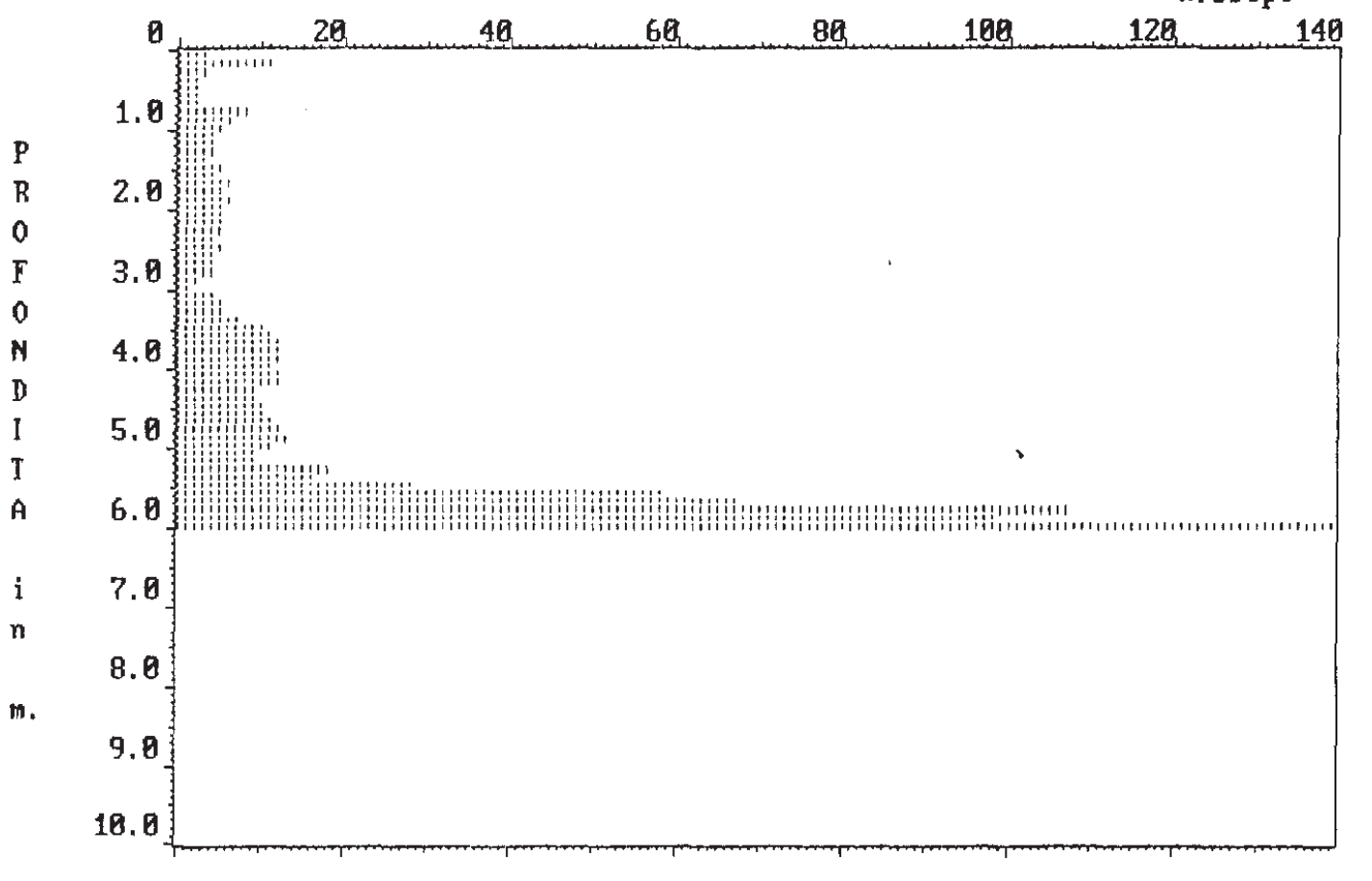

Rp (Kg/cmq)
0 20 40 60 80 100 120 140 160 180 200
0
5
10 0 2000 4000 6000 8000 10000 12000 14000
T (Kg)


Rf (Kg/cmq)
0 1 2 3 4 5
0
5
0
5
10 0 20 40 60 80 100
10
Rp/Rf

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	3	11	3.10	4	11
0.20	11	40	3.20	5	14
0.30	3	11	3.30	5	14
0.40	2	7	3.40	7	19
0.50	2	7	3.50	10	27
0.60	2	7	3.60	11	30
0.70	2	7	3.70	12	32
0.80	8	29	3.80	12	32
0.90	6	21	3.90	12	32
1.00	5	18	4.00	11	30
1.10	4	13	4.10	12	30
1.20	4	13	4.20	12	30
1.30	4	13	4.30	9	23
1.40	3	10	4.40	9	23
1.50	5	16	4.50	10	25
1.60	4	13	4.60	10	25
1.70	6	19	4.70	11	27
1.80	5	16	4.80	12	30
1.90	6	19	4.90	13	32
2.00	5	16	5.00	11	27
2.10	5	15	5.10	9	21
2.20	5	15	5.20	9	21
2.30	5	15	5.30	18	42
2.40	4	12	5.40	16	37
2.50	5	15	5.50	29	66
2.60	4	12	5.60	58	135
2.70	4	12	5.70	67	156
2.80	4	12	5.80	107	247
2.90	2	6	5.90	98	228
3.00	1	3	6.00	Rif.	Rif.

PROVA PENETROMETRICA [S.C.P.T.] N. 1

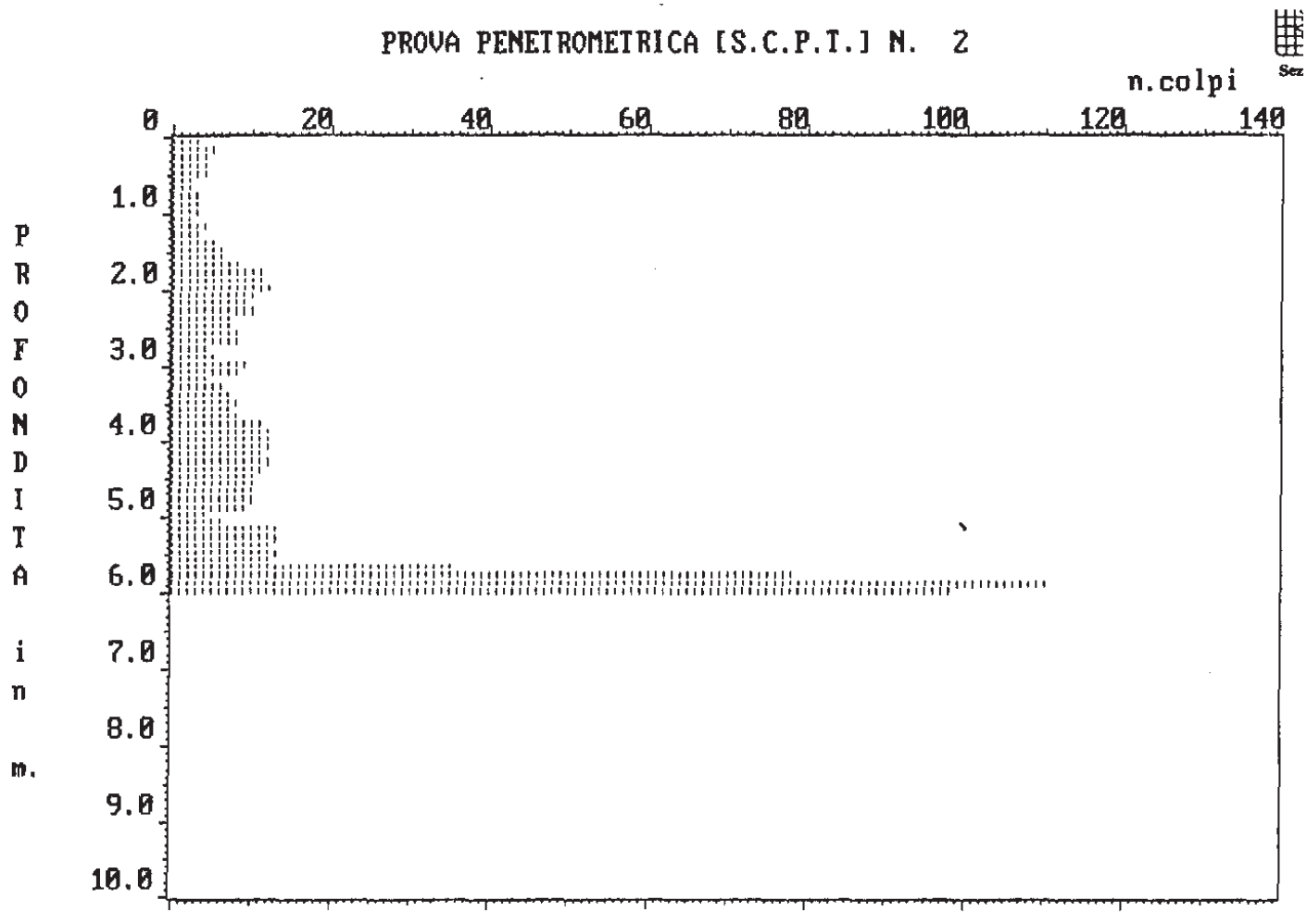


Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	3	11	3.10	8	22
0.20	5	18	3.20	4	11
0.30	4	15	3.30	6	16
0.40	4	15	3.40	7	19
0.50	4	15	3.50	8	22
0.60	2	7	3.60	7	19
0.70	2	7	3.70	8	22
0.80	3	11	3.80	11	30
0.90	3	11	3.90	12	32
1.00	3	11	4.00	12	32
1.10	2	7	4.10	12	30
1.20	4	13	4.20	11	28
1.30	3	10	4.30	12	30
1.40	5	16	4.40	11	28
1.50	6	20	4.50	10	25
1.60	6	19	4.60	10	25
1.70	8	26	4.70	10	25
1.80	11	35	4.80	10	25
1.90	11	35	4.90	9	22
2.00	12	39	5.00	4	10
2.10	10	30	5.10	6	14
2.20	9	27	5.20	13	30
2.30	10	30	5.30	13	30
2.40	7	21	5.40	12	28
2.50	7	21	5.50	13	30
2.60	8	23	5.60	12	28
2.70	8	23	5.70	35	81
2.80	4	12	5.80	78	181
2.90	5	15	5.90	110	256
3.00	9	26	6.00	98	228

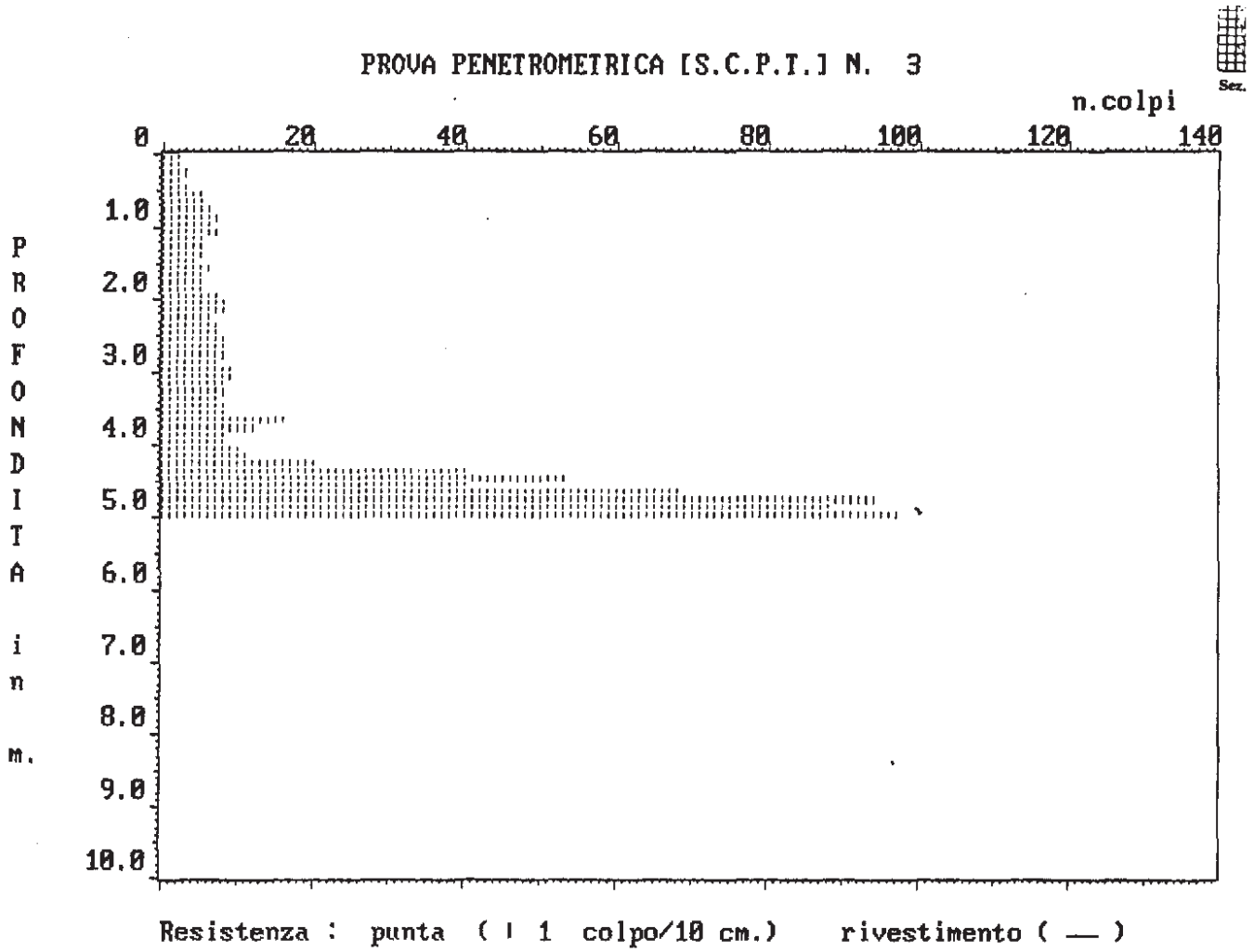
PROVA PENETROMETRICA [S.C.P.T.] N. 2



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	2	7	2.60	8	23
0.20	2	7	2.70	8	23
0.30	3	11	2.80	8	23
0.40	2	7	2.90	7	21
0.50	3	11	3.00	9	26
0.60	5	18	3.10	9	25
0.70	5	18	3.20	8	22
0.80	6	21	3.30	8	22
0.90	7	25	3.40	7	19
1.00	6	21	3.50	8	22
1.10	7	23	3.60	8	22
1.20	5	16	3.70	16	43
1.30	5	16	3.80	12	32
1.40	5	16	3.90	8	22
1.50	4	13	4.00	8	22
1.60	6	19	4.10	10	25
1.70	5	16	4.20	11	28
1.80	5	16	4.30	20	50
1.90	5	16	4.40	40	101
2.00	7	23	4.50	53	134
2.10	8	24	4.60	40	100
2.20	8	24	4.70	68	170
2.30	6	18	4.80	94	235
2.40	7	21	4.90	88	220
2.50	7	21	5.00	97	242

PROVA PENETROMETRICA [S.C.P.T.] N. 3

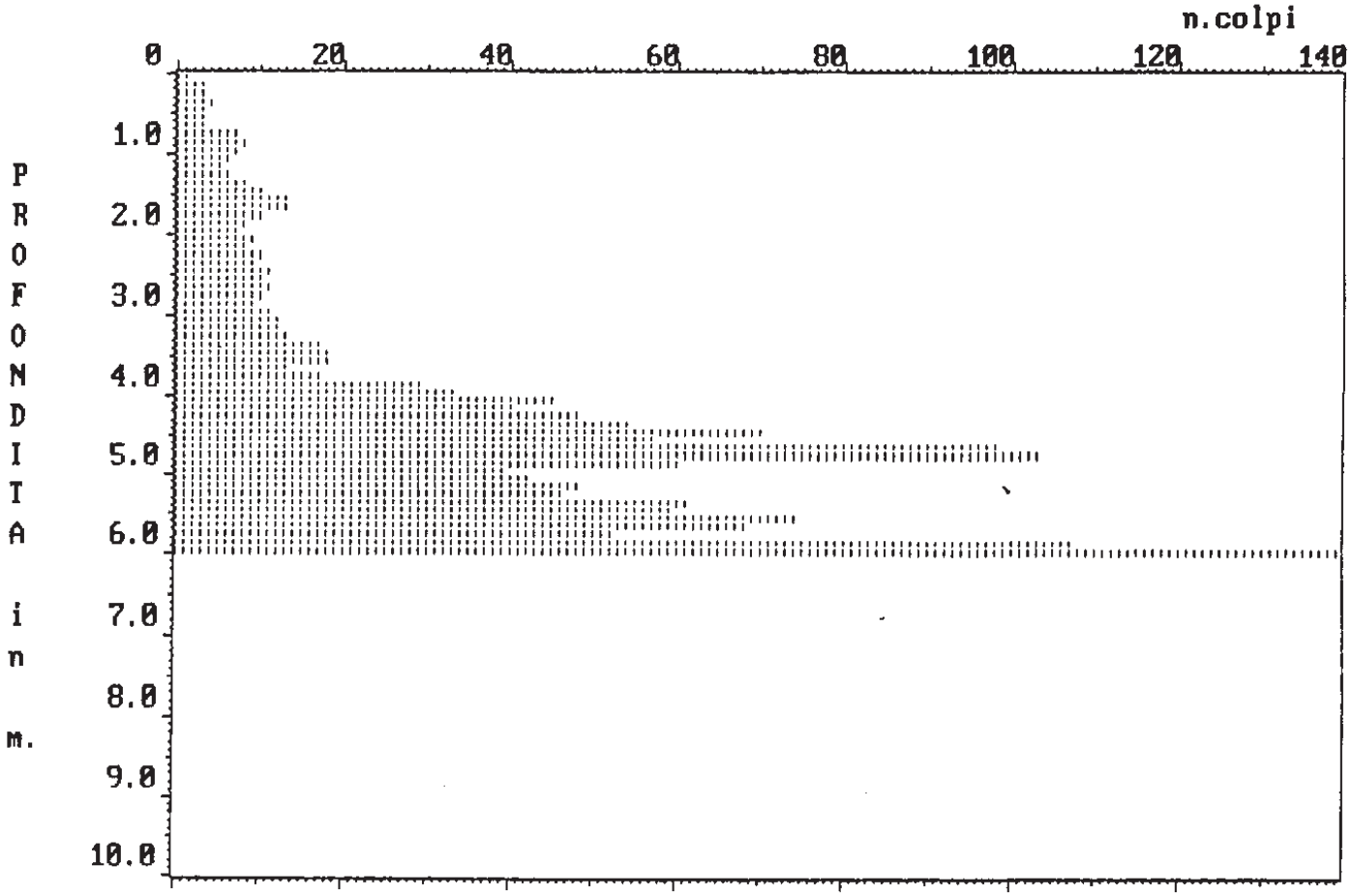


Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	3.10	12	33
0.20	3	11	3.20	12	33
0.30	3	11	3.30	13	35
0.40	4	15	3.40	17	46
0.50	3	11	3.50	18	49
0.60	3	11	3.60	18	49
0.70	3	11	3.70	13	35
0.80	7	25	3.80	17	46
0.90	8	29	3.90	29	78
1.00	7	25	4.00	33	89
1.10	6	20	4.10	45	113
1.20	5	16	4.20	40	101
1.30	6	20	4.30	48	121
1.40	9	26	4.40	54	136
1.50	10	33	4.50	70	176
1.60	13	42	4.60	57	142
1.70	13	42	4.70	98	245
1.80	10	32	4.80	103	257
1.90	8	26	4.90	60	150
2.00	7	23	5.00	39	97
2.10	9	27	5.10	42	98
2.20	8	24	5.20	48	112
2.30	10	30	5.30	46	108
2.40	9	27	5.40	61	143
2.50	11	33	5.50	59	138
2.60	10	29	5.60	74	172
2.70	11	32	5.70	68	158
2.80	10	29	5.80	52	121
2.90	9	26	5.90	107	245
3.00	11	32	6.00	Rif.	Rif.

PROVA PENETROMETRICA [S.C.P.T.] N. 1

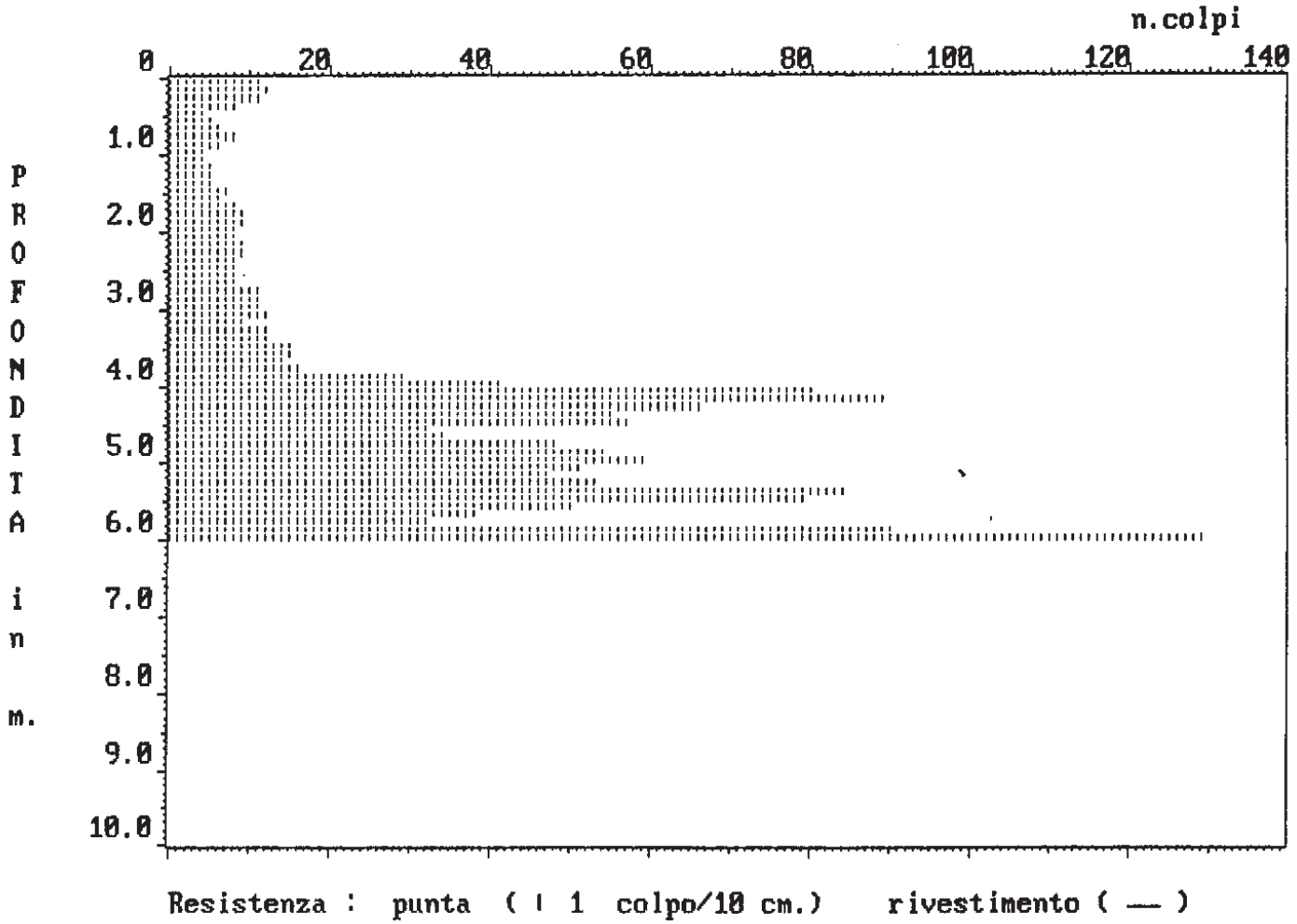


Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	11	40	3.10	12	33
0.20	12	44	3.20	9	25
0.30	11	40	3.30	12	33
0.40	8	29	3.40	12	33
0.50	4	15	3.50	15	41
0.60	5	18	3.60	15	41
0.70	6	21	3.70	14	38
0.80	8	29	3.80	16	43
0.90	6	21	3.90	29	78
1.00	4	14	4.00	41	111
1.10	4	13	4.10	80	202
1.20	5	16	4.20	89	224
1.30	5	16	4.30	66	166
1.40	5	16	4.40	55	139
1.50	7	23	4.50	57	144
1.60	6	19	4.60	32	80
1.70	8	26	4.70	34	85
1.80	9	29	4.80	48	120
1.90	9	29	4.90	54	135
2.00	8	26	5.00	59	147
2.10	8	24	5.10	51	120
2.20	9	27	5.20	47	110
2.30	9	27	5.30	53	124
2.40	8	24	5.40	84	197
2.50	8	24	5.50	79	185
2.60	8	23	5.60	50	116
2.70	8	23	5.70	38	88
2.80	11	32	5.80	32	74
2.90	11	32	5.90	90	209
3.00	11	32	6.00	129	300

PROVA PENETROMETRICA [S.C.P.T.] N. 2

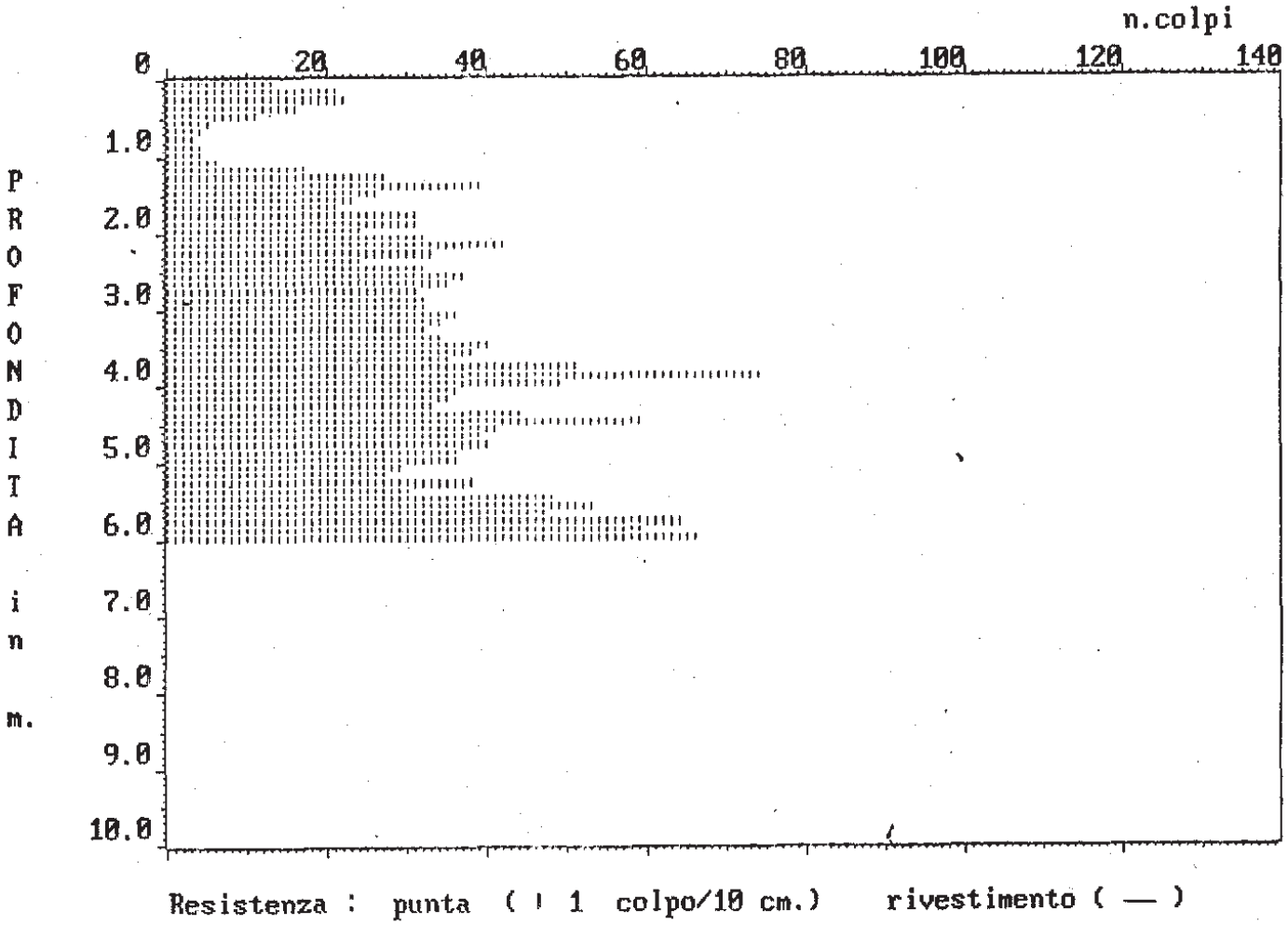


Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgiN/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgiN/cm².
0.10	13	47	3.10	36	98
0.20	21	76	3.20	34	93
0.30	22	80	3.30	32	87
0.40	16	58	3.40	34	93
0.50	11	40	3.50	40	109
0.60	5	18	3.60	38	103
0.70	4	14	3.70	35	95
0.80	3	11	3.80	51	138
0.90	4	14	3.90	74	200
1.00	4	14	4.00	49	132
1.10	6	20	4.10	36	91
1.20	17	56	4.20	35	88
1.30	27	88	4.30	33	83
1.40	39	127	4.40	44	111
1.50	26	85	4.50	59	149
1.60	23	74	4.60	41	102
1.70	21	68	4.70	39	97
1.80	31	100	4.80	40	100
1.90	31	100	4.90	36	90
2.00	24	77	5.00	36	90
2.10	32	95	5.10	29	69
2.20	42	125	5.20	27	63
2.30	33	98	5.30	38	89
2.40	24	71	5.40	30	70
2.50	32	95	5.50	48	112
2.60	37	109	5.60	53	123
2.70	35	103	5.70	47	109
2.80	31	91	5.80	64	149
2.90	32	94	5.90	59	137
3.00	32	94	6.00	66	153

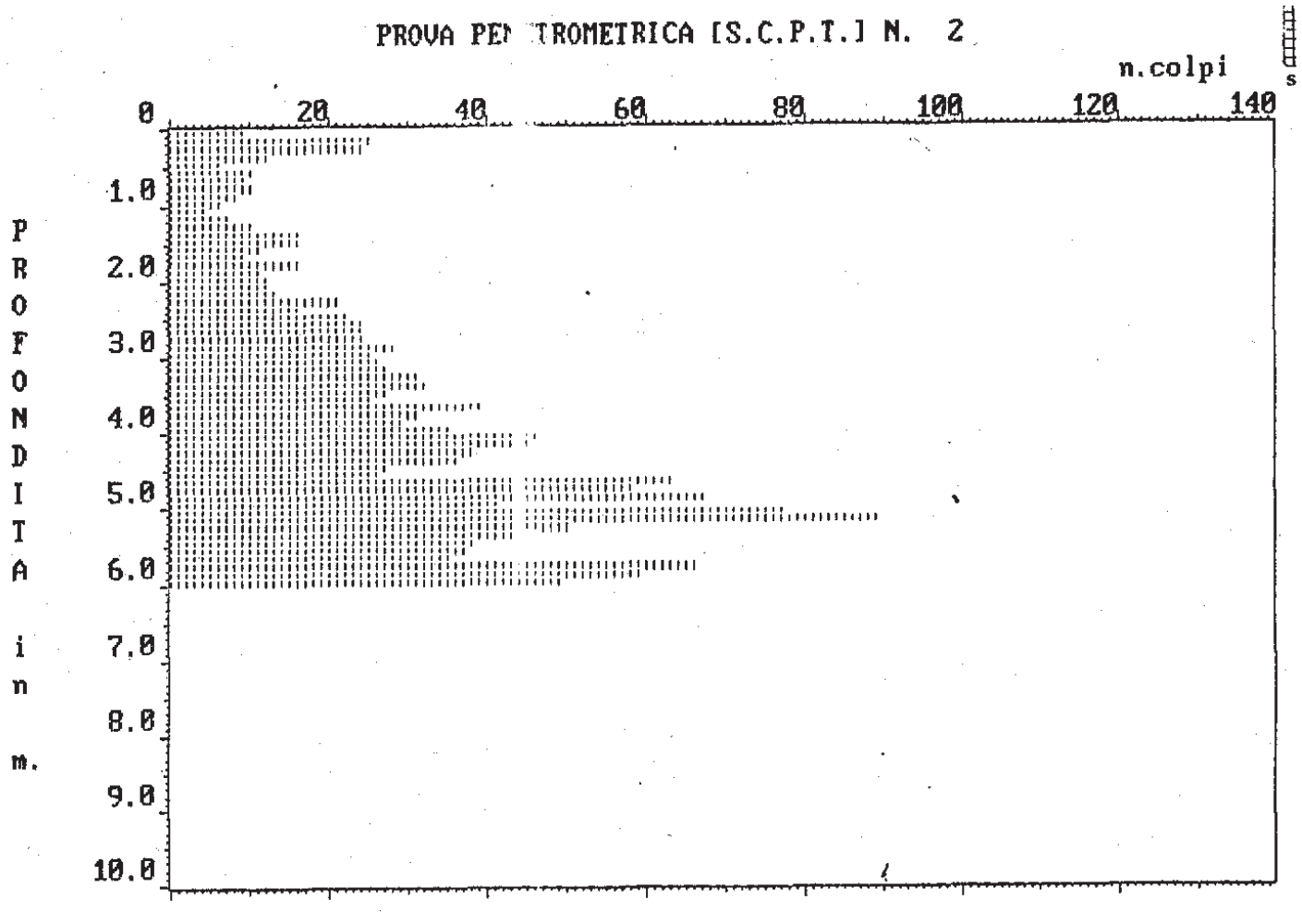
PROVA PENETROMETRICA [S.C.P.T.] N. 1



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	9	33	3.10	26	71
0.20	25	91	3.20	27	74
0.30	24	87	3.30	31	85
0.40	12	44	3.40	32	87
0.50	6	22	3.50	27	74
0.60	10	36	3.60	25	68
0.70	9	32	3.70	39	105
0.80	10	36	3.80	31	84
0.90	8	29	3.90	29	78
1.00	6	21	4.00	35	95
1.10	4	13	4.10	46	116
1.20	7	23	4.20	45	113
1.30	10	33	4.30	39	96
1.40	16	52	4.40	36	91
1.50	16	52	4.50	27	66
1.60	11	35	4.60	26	65
1.70	9	29	4.70	63	157
1.80	16	52	4.80	58	145
1.90	11	35	4.90	67	167
2.00	12	39	5.00	41	102
2.10	12	38	5.10	77	190
2.20	13	39	5.20	69	209
2.30	21	62	5.30	50	117
2.40	16	46	5.40	43	101
2.50	22	65	5.50	38	89
2.60	24	70	5.60	37	86
2.70	24	70	5.70	35	81
2.80	24	70	5.80	66	153
2.90	28	82	5.90	59	137
3.00	25	73	6.00	49	114

PROVA PENETROMETRICA [S.C.P.T.] N. 2



Resistenza : punta (! 1 colpo/10 cm.) rivestimento (—)

PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 6-AA CANTIERE :AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE 11

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	2	3	0.07	28.57										
0.40	2	3	0.07	28.57										
0.60	4	6	0.13	30.77										
0.80	3	4	0.07	42.86										
1.00	3	4	0.07	42.86										
1.20	20	28	0.53	37.74										
1.40	26	45	1.27	20.47										
1.60	37	64	1.80	20.56										
1.80	36	59	1.53	23.53										
2.00	31	48	1.13	27.43										
2.20	47	64	1.13	41.59										
2.40	35	58	1.53	22.88										
2.60	38	57	1.27	29.92										
2.80	33	51	1.20	27.50										
3.00	26	41	1.00	26.00										
3.20	37	52	1.00	37.00										
3.40	48	70	1.47	32.65										
3.60	51	70	1.27	40.16										
3.80	65	88	1.53	42.48										
4.00	76	99	1.53	49.67										
4.20	39	82	2.87	13.59										
4.40	39	80	2.73	14.29										
4.60	69	78	0.60	115.00										
4.80	94	124	2.00	47.00										
5.00	46	96	3.33	13.81										
5.20	48	71	1.53	31.37										
5.40	23	59	2.40	9.58										
5.60	23	41	1.20	19.17										
5.80	32	49	1.13	28.32										
6.00	39	55	1.07	36.45										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

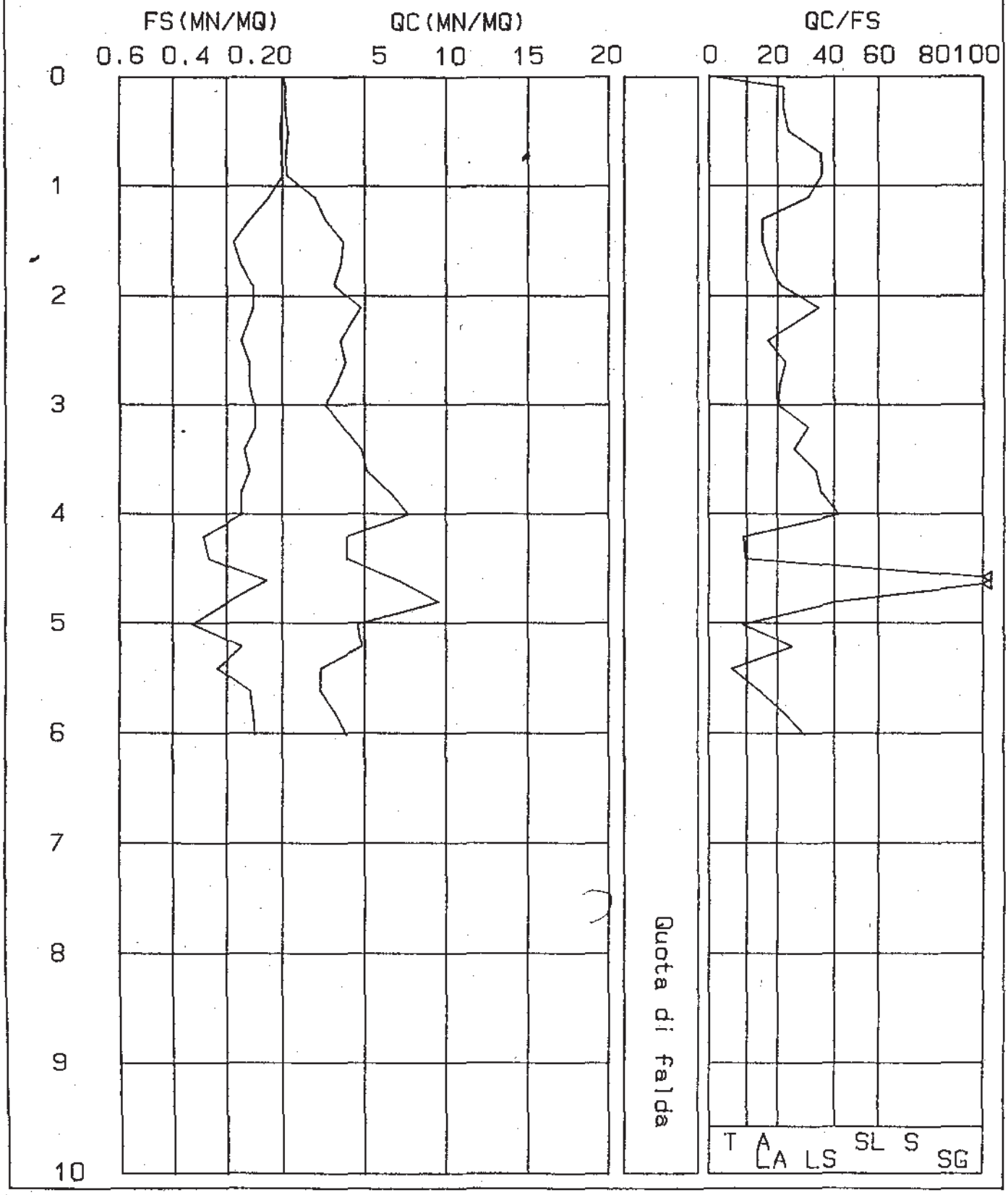
H m	qc kg/cmq	fs	Diagramma fs (5 4 3 2 1)	Diagramma qc (0 20 40 60 80 100 120 140)	BEGEMANN 1965 (H2O AO A1 LA LS SL SG)	SCHM. 1978
0.2	2	0.066				A1
0.4	2	0.066				A1
0.6	4	0.133				A2
0.8	3	0.066				SAL
1.0	3	0.066				SAL
1.2	20	0.533				SAL
1.4	26	1.266				A5
1.6	37	1.799				ASL
1.8	36	1.533				ASL
2.0	31	1.133				ASL
2.2	47	1.133				SAL
2.4	35	1.533				ASL
2.6	38	1.266				ASL
2.8	33	1.200				ASL
3.0	26	1.000				ASL
3.2	37	1.000				SAL
3.4	48	1.466				SAL
3.6	51	1.266				SAL
3.8	65	1.533				SAL
4.0	76	1.533				SI
4.2	39	2.866				A5
4.4	39	2.733				A5
4.6	69	0.600				SI
4.8	94	2.000				SAL
5.0	46	3.333				A5
5.2	48	1.533				SAL
5.4	23	2.400				A5
5.6	23	1.200				A5
5.8	32	1.133				ASL
6.0	39	1.066				SAL

CPT (CONE PENETROMETER TEST)

Certif.n. 6-AA
del 10/05/1993

Picchetto n. P/1

Cantiere
AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE
Committente



CERTIFICATO N.RG : 140-AA CANTIERE :REALIZZAZIONE DI MURO A RETIA

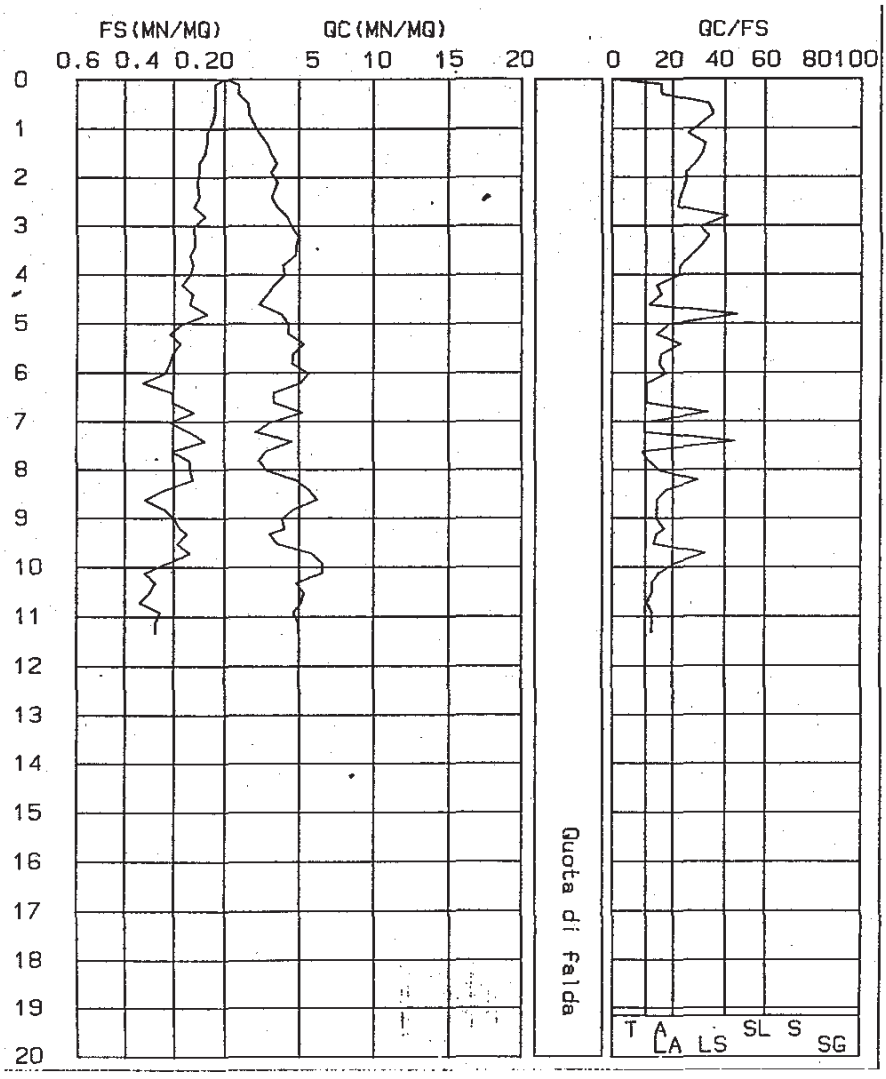
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00	10.00	65	100	2.33	27.90					
0.20	10	17	0.47	21.28	10.20	65	113	3.20	20.31					
0.40	10	17	0.47	21.28	10.40	48	90	2.80	17.14					
0.60	16	22	0.40	40.00	10.60	53	98	3.00	17.67					
0.80	17	25	0.40	42.50	10.80	51	102	3.40	15.00					
1.00	20	28	0.53	37.74	11.00	46	85	2.60	17.69					
1.20	24	35	0.73	32.88	11.20	49	91	2.80	17.50					
1.40	29	40	0.73	39.73										
1.60	31	43	0.80	38.75										
1.80	35	50	1.00	35.00										
2.00	31	46	1.00	31.00										
2.20	36	53	1.13	31.86										
2.40	32	48	1.07	29.91										
2.60	36	55	1.27	28.35										
2.80	42	55	0.87	48.28										
3.00	45	65	1.20	37.50										
3.20	49	67	1.20	40.83										
3.40	48	67	1.27	37.80										
3.60	47	68	1.40	33.57										
3.80	39	57	1.33	29.32										
4.00	40	61	1.40	28.57										
4.20	33	59	1.73	19.08										
4.40	29	49	1.33	21.80										
4.60	23	44	1.40	16.43										
4.80	38	49	0.73	52.05										
5.00	43	69	1.73	24.86										
5.20	43	76	2.20	19.55										
5.40	53	80	1.80	29.44										
5.60	46	78	2.13	21.60										
5.80	45	78	2.20	20.45										
6.00	56	92	2.40	23.33										
6.20	51	100	3.27	15.60										
6.40	53	65	2.13	15.49										
6.60	33	63	2.13	15.49										
6.80	52	71	1.27	40.94										
7.00	31	64	2.20	14.09										
7.20	21	43	1.47	14.29										
7.40	45	58	0.87	51.72										
7.60	28	59	2.07	13.53										
7.80	23	44	1.40	16.43										
8.00	28	49	1.40	20.00										
8.20	48	68	1.33	36.09										
8.40	56	92	2.40	23.33										
8.60	61	109	3.20	19.06										
8.80	46	82	2.40	19.17										
9.00	38	68	2.00	19.00										
9.20	40	67	1.80	22.22										
9.40	30	53	1.53	19.61										
9.60	35	63	1.87	18.72										
9.80	58	80	1.47	39.46										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO qn/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA qN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE qN/cmq

LITOLOGIA : T:TORBE A:ARGILLA LA:LIMI ARGILLOSI LS:LIMI SABBIOSI SL:SABBIE LIMOSE
S:SABBIE SG:SABBIE E GHIAIA AG:TERRENO AGRICOLO

N a	ac kg/cmq	fs	Diagramma fs 5 4 3 2 1 0	Diagramma ac 20 40 60 80 100 120 140	GEGENNNH 1965 nZO A0 A1 LA LS SL S SG	SCHL. 1978
0.2	10	0.466				A4
0.4	10	0.466				A4
0.6	16	0.400				SAL
0.8	17	0.400				SAL
1.0	20	0.533				SAL
1.2	24	0.733				SAL
1.4	29	0.733				SAL
1.6	31	0.800				SAL
1.8	35	1.000				SAL
2.0	31	1.000				SAL
2.2	36	1.133				SAL
2.4	32	1.066				ASL
2.6	36	1.266				ASL
2.8	42	0.866				S1
3.0	45	1.200				SAL
3.2	49	1.200				SAL
3.4	48	1.266				SAL
3.6	47	1.399				SAL
3.8	39	1.333				ASL
4.0	40	1.399				ASL
4.2	53	1.733				A5
4.4	29	1.333				ASL
4.6	23	1.399				A5
4.8	38	0.733				S1
5.0	45	1.733				ASL
5.2	43	2.200				ASL
5.4	53	1.799				ASL
5.6	46	2.133				ASL
5.8	45	2.200				ASL
6.0	56	2.400				ASL
6.2	51	3.266				A5
6.4	33	2.133				A5
6.6	33	2.133				A5
6.8	52	1.266				SAL
7.0	31	2.200				A5
7.2	21	1.466				A5
7.4	45	0.866				S1
7.6	28	2.066				A5
7.8	23	1.399				A5
8.0	28	1.399				A5
8.2	48	1.533				SAL
8.4	56	2.400				ASL
8.6	61	3.200				ASL
8.8	46	2.400				ASL
9.0	38	2.000				A5

m	qc kg/cmq	fs	Diadramma fs	Diadramma qc	BEGEMANN 1965	SCHM. 1978
			5 4 3 2 1	0 20 40 60 80 100 120 140	HZO AO A LA LS SL S SG	
9.2	40	1.799				ASL
9.4	30	1.553				AS
9.6	35	1.866				AS
9.8	58	1.466				SAL
10.0	65	2.333				ASL
10.2	65	3.200				ASL
10.4	48	2.799				AS
10.6	55	3.000				ASL
10.8	51	3.400				AS
11.0	46	2.599				AS
11.2	49	2.799				AS

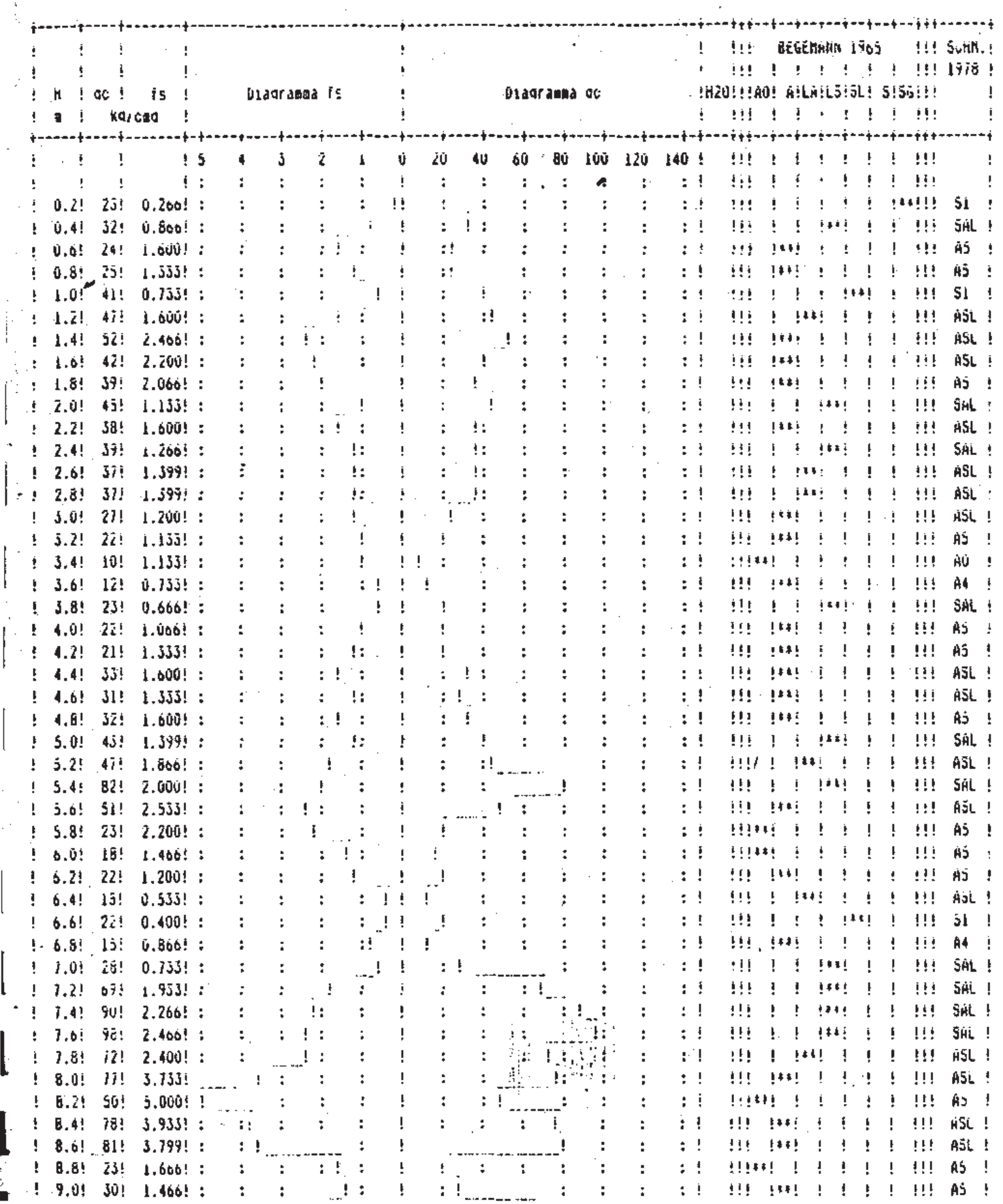


CERTIFICATO N.RO : 141-AA CANTIERE :COSTRUZIONE DI MURO A RETTA

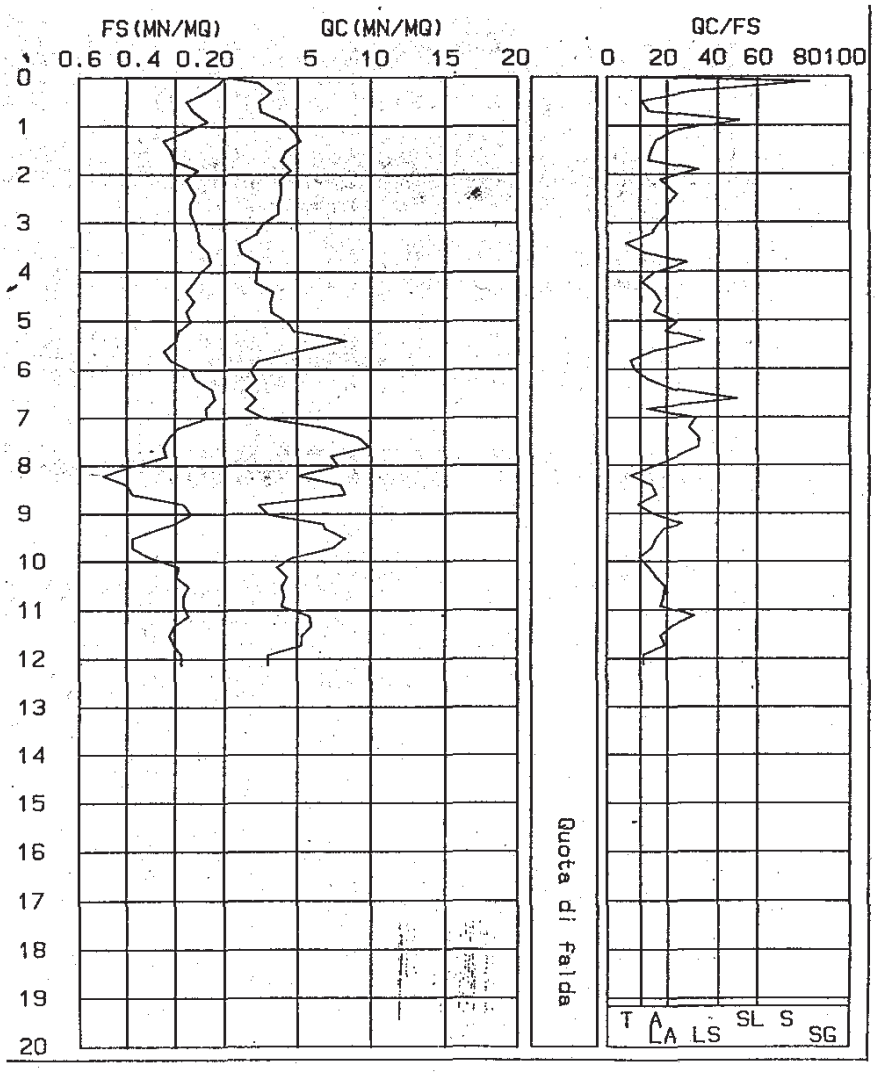
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00	10.00	46	92	3.07	14.98					
0.20	20	27	0.27	85.19	10.20	36	65	1.93	18.65					
0.40	32	45	0.87	36.78	10.40	45	73	2.00	21.50					
0.60	24	48	1.60	15.00	10.60	39	62	1.53	25.49					
0.80	25	45	1.33	18.80	10.80	41	66	1.67	24.55					
1.00	41	52	0.73	56.16	11.00	39	64	1.67	23.35					
1.20	47	71	1.60	29.37	11.20	58	81	1.53	37.91					
1.40	52	59	2.47	21.05	11.40	59	90	2.07	28.50					
1.60	42	75	2.20	19.09	11.60	53	87	2.27	23.35					
1.80	39	70	2.07	18.84	11.80	53	84	2.07	25.60					
2.00	45	62	1.15	39.82	12.00	30	57	1.80	16.67					
2.20	36	62	1.60	23.75										
2.40	39	58	1.27	30.71										
2.60	37	58	1.40	26.43										
2.80	37	58	1.40	26.43										
3.00	27	45	1.20	22.50										
3.20	22	39	1.13	19.47										
3.40	10	27	1.13	8.85										
3.60	12	23	0.73	16.44										
3.80	23	33	0.67	34.33										
4.00	22	36	1.07	20.56										
4.20	21	41	1.33	15.79										
4.40	33	57	1.60	20.62										
4.60	31	51	1.33	23.31										
4.80	32	56	1.60	20.00										
5.00	43	64	1.40	30.71										
5.20	47	75	1.87	25.13										
5.40	82	112	2.00	41.00										
5.60	51	89	2.53	20.16										
5.80	23	56	2.20	10.45										
6.00	18	40	1.47	12.24										
6.20	22	40	1.20	18.33										
6.40	15	23	0.53	28.30										
6.60	22	28	0.40	55.00										
6.80	15	28	0.87	17.24										
7.00	26	39	0.73	35.36										
7.20	69	98	1.93	35.75										
7.40	90	124	2.27	39.65										
7.60	98	135	2.47	39.68										
7.80	72	108	2.40	30.00										
8.00	77	133	3.73	20.64										
8.20	50	125	5.00	10.00										
8.40	78	137	3.93	19.85										
8.60	81	138	3.80	21.32										
8.80	23	48	1.67	13.77										
9.00	30	52	1.47	20.41										
9.20	67	98	2.07	32.37										
9.40	68	109	2.73	24.91										
9.60	81	137	3.73	21.72										
9.80	73	129	3.73	19.57										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE Cm. | FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq | X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO


Diagramma fs
Diagramma σc
BEGEMANN 1965
SCHN. 1978
H a
σc kg/cmq
fs
5 4 3 2 1 0
20 40 60 80 100 120 140
H20 A0 A1 LA1 L3 SL1 S1 S6
S1
SAL
A5
A5
S1
ASL
ASL
ASL
A5
SAL
ASL
SAL
ASL
ASL
ASL
A5
SAL
A5
A5
ASL
A5
A4
SAL
A5
A5
ASL
ASL
A5
SAL
ASL
A5
A5
A4
SAL
SAL
SAL
SAL
ASL
ASL
A5
ASL
A5

H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 20 40 60 80 100 120 140	BEGEMANN 1965 / SCHM. 1978
9.2	67	2.066			SAL
9.4	68	2.733			ASL
9.6	81	3.733			ASL
9.8	73	3.733			ASL
10.0	46	3.066			AS
10.2	36	1.933			AS
10.4	43	2.000			ASL
10.6	39	1.533			ASL
10.8	41	1.666			ASL
11.0	39	1.666			ASL
11.2	58	1.533			SAL
11.4	59	2.066			ASL
11.6	55	2.266			ASL
11.8	53	2.066			ASL
12.0	30	1.799			AS



CERTIFICATO N.RO : 18-AA . IMPIANTO :AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE **11**

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	63	65	0.13	484.62										
0.40	84	96	0.80	105.00										
0.60	70	98	1.87	37.43										
0.80	62	79	1.13	54.87										
1.00	62	81	1.27	48.82										
1.20	33	56	1.53	21.57										
1.40	24	36	0.80	30.00										
1.60	29	41	0.80	36.25										
1.80	29	46	1.13	25.66										
2.00	32	50	1.20	26.67										
2.20	41	56	1.00	41.00										
2.40	65	89	1.60	40.63										
2.60	28	47	1.27	22.05										
2.80	42	61	1.27	33.07										
3.00	26	47	1.40	18.57										
3.20	20	41	1.40	14.29										
3.40	14	31	1.13	12.39										
3.60	13	26	0.87	14.94										
3.80	12	23	0.73	16.44										
4.00	12	21	0.60	20.00										
4.20	14	24	0.67	20.90										
4.40	21	36	1.00	21.00										
4.60	17	32	1.00	17.00										
4.80	11	27	1.07	10.28										
5.00	26	49	1.53	16.99										
5.20	24	43	1.27	18.90										
5.40	16	34	1.20	13.33										
5.60	15	31	1.07	14.02										
5.80	15	31	1.07	14.02										
6.00	7	16	0.60	11.67										
6.20	9	14	0.33	27.27										
6.40	12	24	0.80	15.00										
6.60	14	23	0.60	23.33										
6.80	19	31	0.80	23.75										
7.00	21	31	0.67	31.34										
7.20	25	39	0.93	26.88										
7.40	16	28	0.80	20.00										
7.60	9	15	0.40	22.50										
7.80	8	14	0.40	20.00										
8.00	11	18	0.47	23.40										
8.20	21	32	0.73	28.77										

LEGENDA : PROF. : PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC : RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS t
RL : RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

H a	ac kg/cmq	fs	Diagramma fs	Diagramma ac	HZO	AO	A	LA	LS	SL	S	SG	BEGEMANN 1965	SCHM. 1978
0.2	63	0.133												GS
0.4	84	0.800												S1
0.6	70	1.866												SAL
0.8	62	1.133												S1
1.0	62	1.266												S1
1.2	33	1.533												ASL
1.4	24	0.800												ASL
1.6	29	0.800												SAL
1.8	29	1.133												ASL
2.0	32	1.200												ASL
2.2	41	1.000												SAL
2.4	65	1.600												SAL
2.6	28	1.266												ASL
2.8	42	1.266												SAL
3.0	26	1.399												A5
3.2	20	1.399												A5
3.4	14	1.133												AO
3.6	13	0.866												AO
3.8	12	0.733												A4
4.0	12	0.600												A4
4.2	14	0.666												A4
4.4	21	1.000												A5
4.6	17	1.000												A5
4.8	11	1.066												AO
5.0	26	1.533												A5
5.2	24	1.266												A5
5.4	16	1.200												AO
5.6	15	1.066												AO
5.8	15	1.066												AO
6.0	7	0.600												AO
6.2	9	0.333												A3
6.4	12	0.800												AO
6.6	14	0.600												A4
6.8	19	0.800												ASL
7.0	21	0.666												ASL
7.2	25	0.933												ASL
7.4	16	0.600												A4
7.6	9	0.400												A3
7.8	8	0.400												A3
8.0	11	0.466												A4
8.2	21	0.733												ASL

CPT (CONE PENETROMETER TEST)

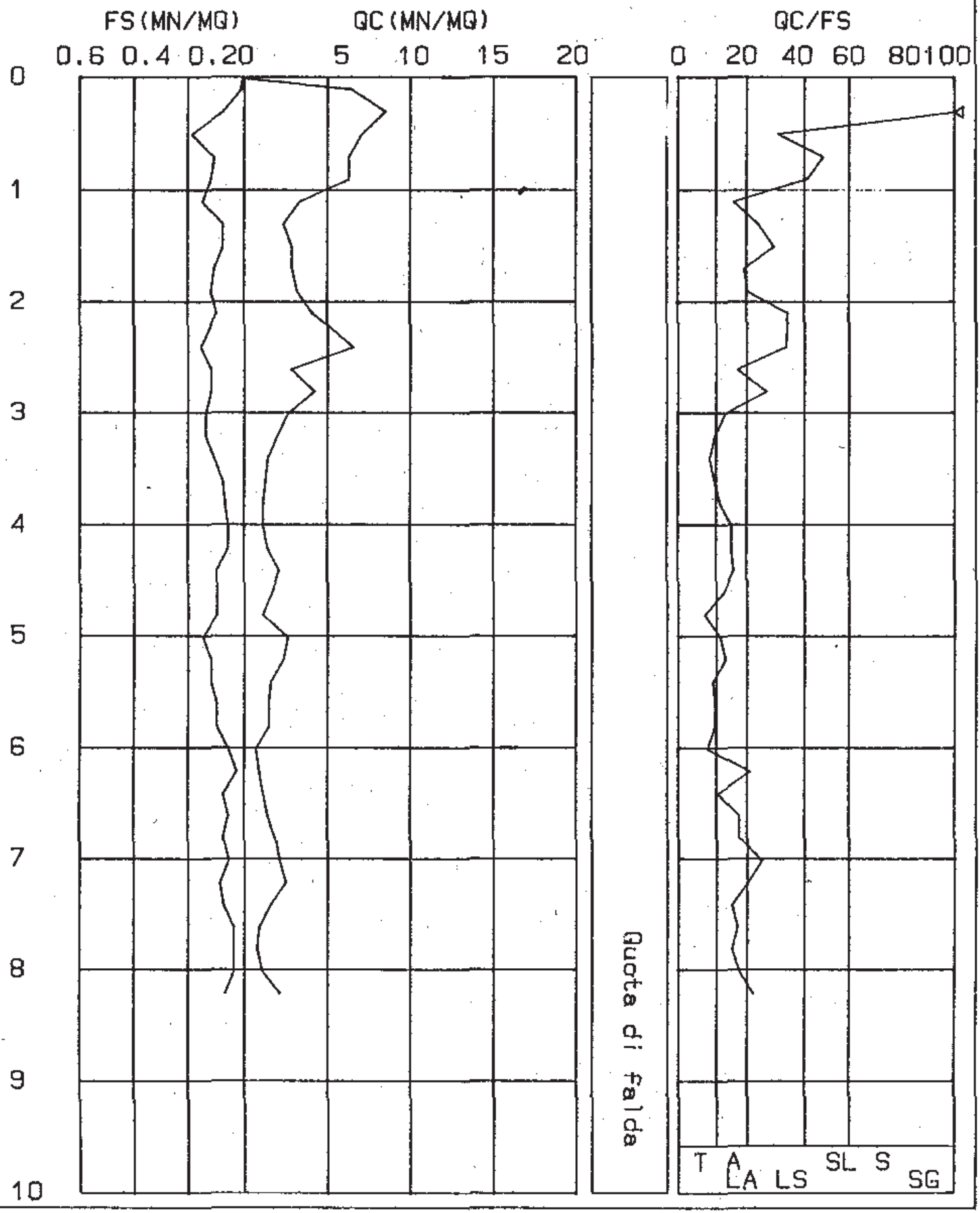
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del 06/09/1993

Picchetto n. P/1

Cantiere
AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE

1349

Committente



VA PENETROMETRICA STATICA

CERTIFICATO N.RO : 19-68 IMPIANTO :AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE **13**

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	69	75	0.40	172.50										
0.40	61	72	0.73	83.56										
0.60	42	57	1.00	42.00										
0.80	42	56	0.93	45.16										
1.00	54	77	1.53	35.29										
1.20	57	77	1.33	42.86										
1.40	53	71	1.20	44.17										
1.60	69	96	1.80	38.33										
1.80	105	148	2.80	37.86										
2.00	74	102	1.87	39.57										
2.20	97	119	1.47	65.99										
2.40	40	66	1.73	23.12										
2.60	21	41	1.33	15.79										
2.80	20	38	1.20	16.67										
3.00	17	32	1.00	17.00										
3.20	17	30	0.87	19.54										
3.40	16	28	0.80	20.00										
3.60	22	42	1.33	16.54										
3.80	21	42	1.40	15.00										
4.00	24	48	1.60	15.00										
4.20	16	37	1.40	11.43										
4.40	14	24	0.67	20.90										
4.60	21	31	0.67	31.34										
4.80	24	40	1.07	22.43										
5.00	21	36	1.00	21.00										
5.20	12	23	0.73	16.44										
5.40	12	19	0.47	25.53										
5.60	15	25	0.67	22.39										
5.80	10	16	0.40	25.00										
6.00	11	17	0.40	27.50										
6.20	12	17	0.33	36.36										
6.40	23	35	0.80	28.75										
6.60	31	48	1.13	27.43										
6.80	22	37	1.00	22.00										
7.00	9	17	0.53	16.98										
7.20	9	14	0.33	27.27										
7.40	10	17	0.47	21.28										
7.60	11	19	0.53	20.75										
7.80	16	25	0.60	26.67										
8.00	18	29	0.73	24.66										
8.20	19	29	0.67	28.36										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS t
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

H	qc	fs	Diagramm fs	Diagramm qc	BEGEMANN 1965	SCHM. 1978
m	kg/cmq		5 4 3 2 1 0	20 40 60 80 100 120 140	H2O AO A LA LS SL S SG	
0.2	69	0.400				GS
0.4	61	0.733				SL
0.6	42	1.000				SAL
0.8	42	0.933				SAL
1.0	54	1.533				SAL
1.2	57	1.333				SAL
1.4	53	1.200				SAL
1.6	69	1.799				SAL
1.8	106	2.799				LS
2.0	74	1.866				SAL
2.2	97	1.466				SL
2.4	40	1.733				ASL
2.6	21	1.333				AS
2.8	20	1.200				AS
3.0	17	1.000				AS
3.2	17	0.866				A4
3.4	16	0.800				A4
3.6	22	1.333				AS
3.8	21	1.399				AS
4.0	24	1.600				AS
4.2	16	1.399				AO
4.4	14	0.666				A4
4.6	21	0.666				ASL
4.8	24	1.066				ASL
5.0	21	1.000				AS
5.2	12	0.733				A4
5.4	12	0.466				A4
5.6	15	0.666				A4
5.8	10	0.400				A4
6.0	11	0.400				ASL
6.2	12	0.333				SAL
6.4	23	0.800				ASL
6.6	31	1.133				ASL
6.8	22	1.000				AS
7.0	9	0.533				AO
7.2	9	0.333				A3
7.4	10	0.466				A4
7.6	11	0.533				A4
7.8	16	0.600				ASL
8.0	18	0.933				ASL
8.2	19	0.666				ASL

CPT (CONE PENETROMETER TEST)

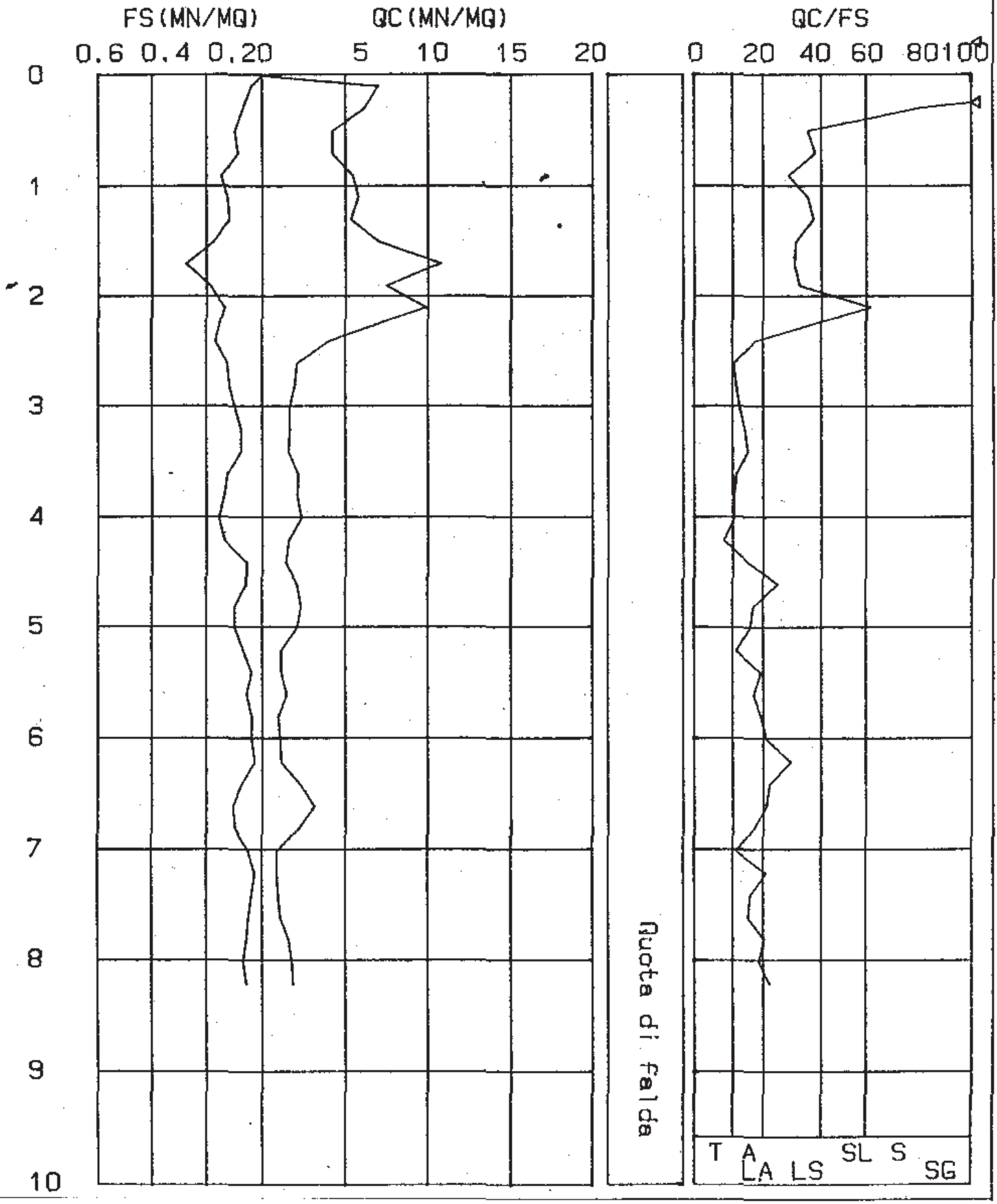
Certif.n. 19-AA
del 06/09/1993

Picchetto n. P/2

Cantiere
AMPLIAMENTO FABBRICATO CIVILE ABITAZIONE

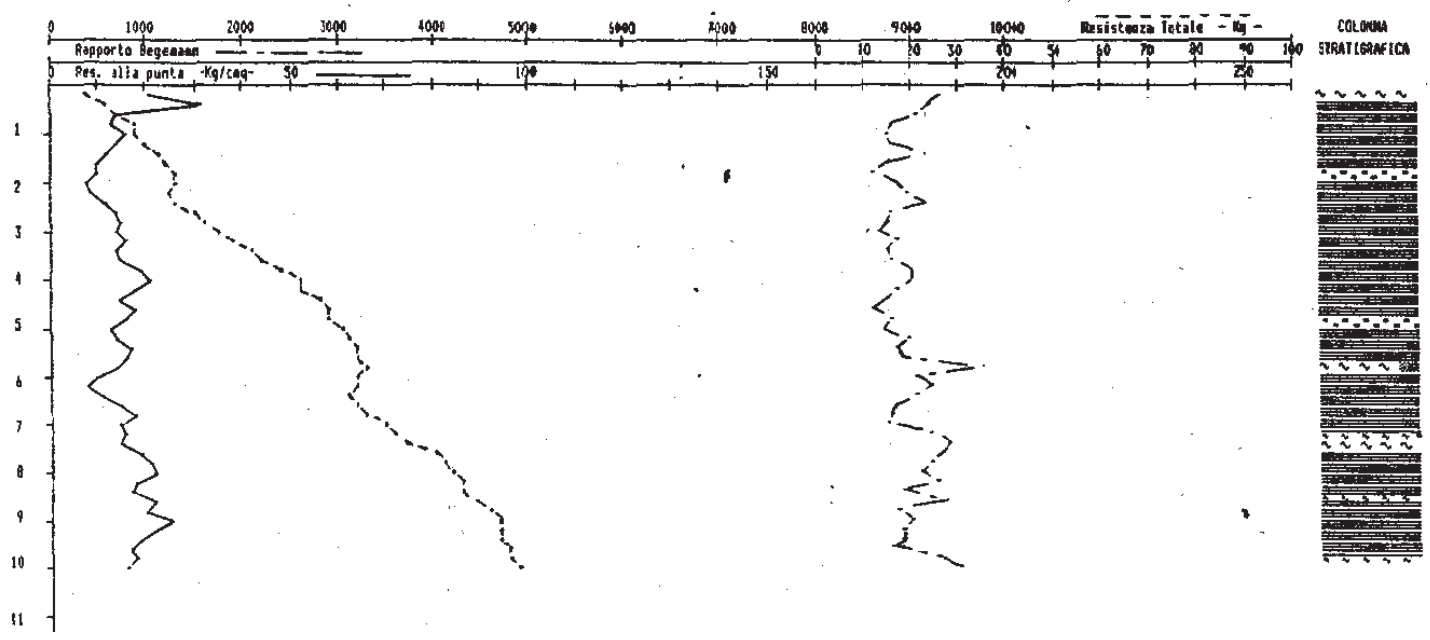
1350

Committente



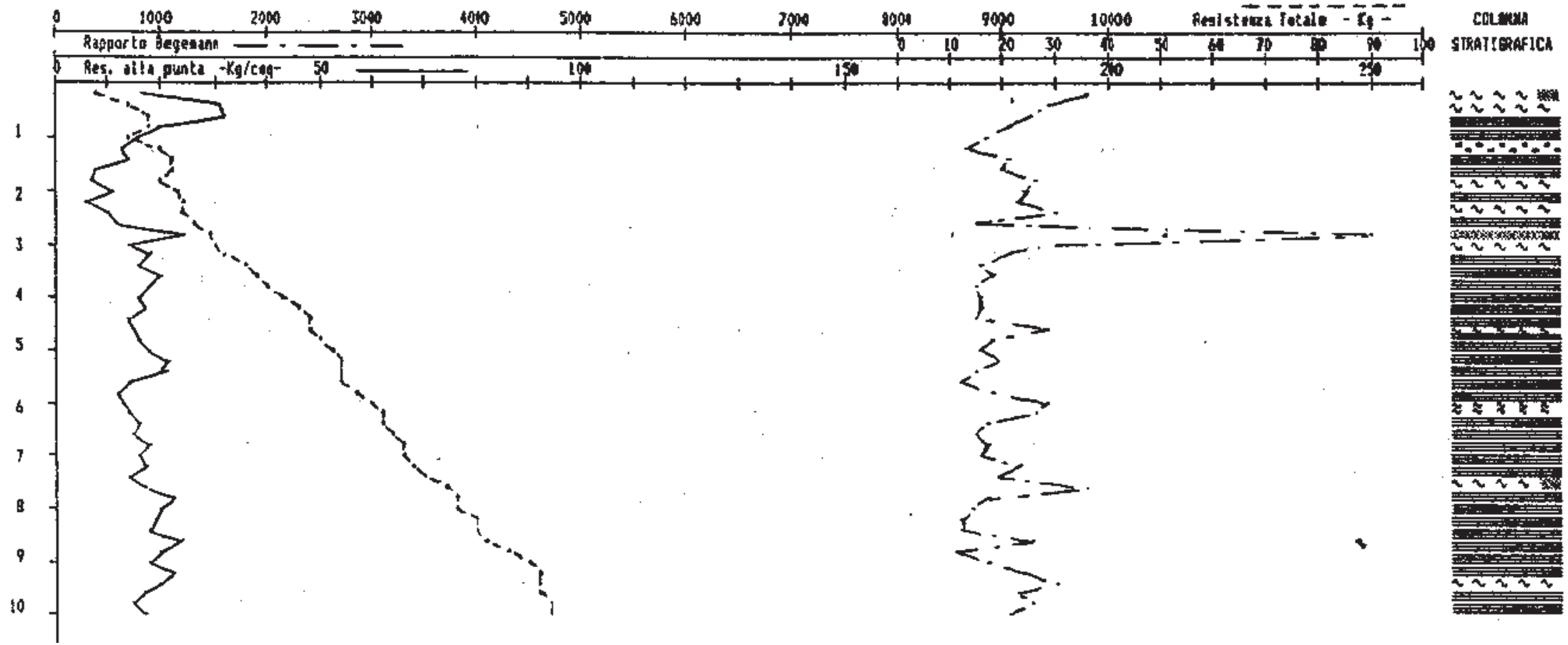
	letture di campagna			valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	mr [cmq/t]
.2	210	330	400	120	.8	26	190			.94	17.25
.4	310	500	600	190	1.26	24	290			1.24	16.66
.6	140	240	700	100	.66	21	560			.56	18.4
.8	130	250	900	120	.8	16	770			.52	18.72
1	160	320	900	140	1.06	15	740			.64	17.93
1.2	140	270	1000	130	.86	16	860			.56	18.4
1.4	120	200	1150	90	.53	23	1030			.48	19.13
1.6	100	200	1200	100	.66	15	1100			.4	20.3
1.8	100	220	1300	120	.8	12	1200			.4	20.3
2	80	150	1300	70	.46	17	1220			.32	22.29
2.2	90	160	1250	70	.46	19	1160			.36	21.16
2.4	120	200	1300	80	.53	23	1180			.48	19.13
2.6	140	270	1500	130	.86	16	1360			.56	18.4
2.8	150	300	1600	150	1	15	1450			.6	18.14
3	140	300	1750	160	1.06	13	1610			.56	18.4
3.2	160	300	1900	140	.93	17	1740			.64	17.93
3.4	140	280	2100	140	.93	15	1960			.56	18.4
3.6	150	290	2200	140	.93	16	2050			.6	18.14
3.8	190	330	2400	140	.93	20	2210			.76	17.47
4	210	370	2600	160	1.06	20	2390			.84	17.25
4.2	180	340	2400	160	1.06	17	2420			.72	17.6
4.4	150	300	2800	150	1	15	2650			.6	18.14
4.6	180	400	2900	220	1.46	12	2720			.72	17.6
4.8	160	310	2900	150	1	16	2740			.64	17.93
5	130	270	3050	140	.93	14	2920			.52	18.72
5.2	140	250	3100	110	.73	19	2960			.56	18.4
5.4	170	320	3200	150	1	17	3030			.68	17.75
5.6	160	290	3200	130	.86	18	3040			.64	17.93
5.8	140	200	3300	60	.4	35	3140			.56	18.4
6	100	170	3200	70	.46	21	3100			.4	20.3
6.2	80	130	3200	50	.33	24	3120			.32	22.29
6.4	110	190	3100	80	.53	21	2990			.44	19.64
6.6	150	280	3200	130	.86	17	3050			.6	18.14
6.8	180	350	3300	170	1.13	16	3120			.72	17.6
7	150	300	3500	150	1	15	3350			.6	18.14
7.2	160	260	3600	100	.66	24	3440			.64	17.93
7.4	150	230	3700	80	.53	28	3550			.6	18.14
7.6	190	300	4000	110	.73	26	3810			.76	17.47
7.8	210	340	4100	130	.86	24	3890			.84	17.25
8	220	370	4200	150	1	22	3980			.88	17.15

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-tpt [Kj]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	180	290	4300	110	.73	25	4120			.73	17.6
8.4	170	310	4300	140	.93	18	4130			.68	17.75
8.6	220	340	4450	120	.8	27	4230			.88	17.15
8.8	200	380	4600	180	1.2	17	4440			.8	17.36
9	250	440	4700	190	1.26	20	4460			1	16.83
9.2	220	400	4700	180	1.2	18	4480			.88	17.15
9.4	190	350	4700	160	1.06	18	4510			.76	17.47
9.6	170	330	4800	160	1.06	16	4630			.68	17.75
9.8	180	290	4800	110	.73	25	4620			.72	17.6
10	160	240	4900	80	.53	30	4740			.64	17.93



PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	170	240	400	70	.46	36	230			.88	17.75
.4	310	470	700	160	1.06	29	390			1.24	16.06
.6	320	510	900	190	1.26	25	580			1.28	15.91
.8	200	340	900	140	.93	21	700			.8	17.36
1	160	300	700	140	.93	17	540			.84	17.93
1.2	130	280	1000	150	1	13	870			.52	16.72
1.4	140	240	1100	100	.66	21	960			.54	16.4
1.6	80	140	1100	60	.4	20	1020			.32	22.29
1.8	70	110	1000	40	.26	26	930			.29	23.81
2	110	180	1150	70	.46	24	1040			.48	19.64
2.2	60	100	1200	40	.26	23	1140			.28	25.93
2.4	100	150	1200	50	.33	30	1100			.4	26.3
2.6	120	240	1300	120	.8	15	1180			.48	19.13
2.8	240	280	1450	40	.26	90	1210	32	21		16.94
3	140	210	1500	70	.46	30	1360			.56	18.4
3.2	180	310	1600	130	.86	21	1420			.72	17.6
3.4	160	310	1800	150	1	16	1640			.64	17.93
3.6	200	370	1900	170	1.13	18	1700			.8	17.36
3.8	180	360	2000	180	1.2	15	1820			.72	17.6
4	160	310	2150	150	1	16	1990			.64	17.93
4.2	170	330	2300	160	1.06	16	2130			.68	17.75
4.4	140	280	2400	140	.93	15	2260			.56	18.4
4.6	150	230	2400	80	.53	28	2250			.6	18.14
4.8	160	290	2500	130	.86	18	2340			.64	17.93
5	180	350	2600	170	1.13	16	2420			.72	17.6
5.2	210	380	2700	170	1.13	19	2490			.84	17.25
5.4	200	400	2700	200	1.33	15	2500			.8	17.36
5.6	140	310	2700	170	1.13	12	2560			.56	18.4
5.8	120	220	2850	100	.66	18	2730			.48	19.13
6	130	200	3000	70	.46	28	2870			.52	18.72
6.2	140	220	3100	80	.53	26	2960			.56	18.4
6.4	160	300	3100	140	.93	17	2940			.64	17.93
6.6	150	300	3200	150	1	15	3050			.6	18.14
6.8	180	340	3300	160	1.06	17	3120			.72	17.6
7	160	310	3300	150	1	16	3140			.64	17.93
7.2	170	280	3400	110	.73	23	3230			.68	17.75
7.4	140	250	3500	110	.73	19	3360			.56	18.4
7.6	170	240	3700	70	.46	36	3530			.68	17.75
7.8	220	410	3800	190	1.26	17	3580			.88	17.15
8	200	420	3800	220	1.46	14	3600			.8	17.36

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	190	430	4000	240	1.6	12	3810			.76	17.47
8.4	180	400	4000	220	1.46	12	3820			.72	17.6
8.6	230	370	4100	140	.93	25	3870			.92	17.04
8.8	200	470	4300	270	1.8	11	4100			.8	17.36
9	180	340	4500	160	1.06	17	4320			.72	17.6
9.2	220	360	4600	140	.93	24	4380			.84	17.15
9.4	200	300	4600	100	.66	30	4400			.8	17.36
9.6	170	280	4600	110	.73	23	4430			.68	17.75
9.8	150	240	4700	90	.6	25	4550			.6	18.14
10	170	290	4700	120	.8	21	4530			.68	17.75

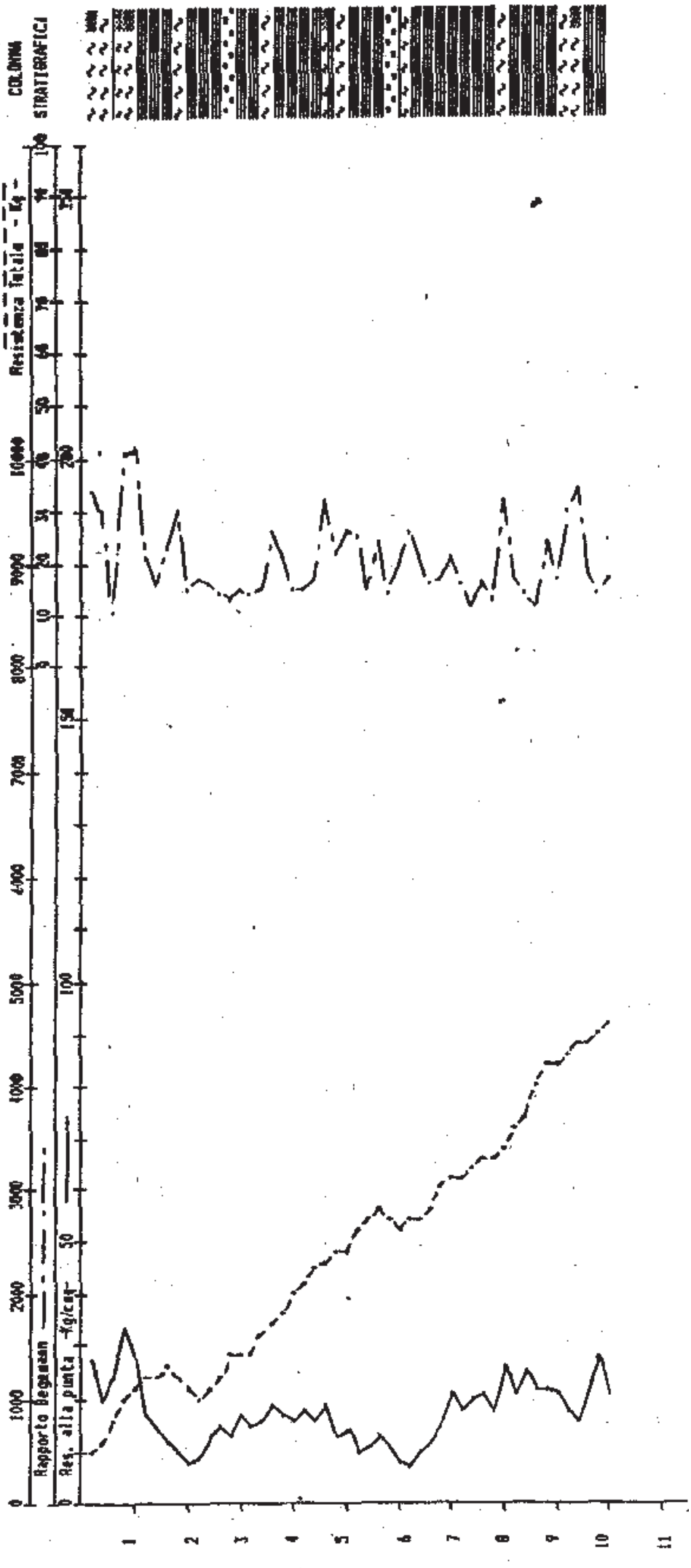

0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza totale - Kg -
Rapporto Begemann
0
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
50
100
150
200
250
COLONNA
STRATIGRAFICA
1
2
3
4
5
6
7
8
9
10

letture di campagna | valori derivati

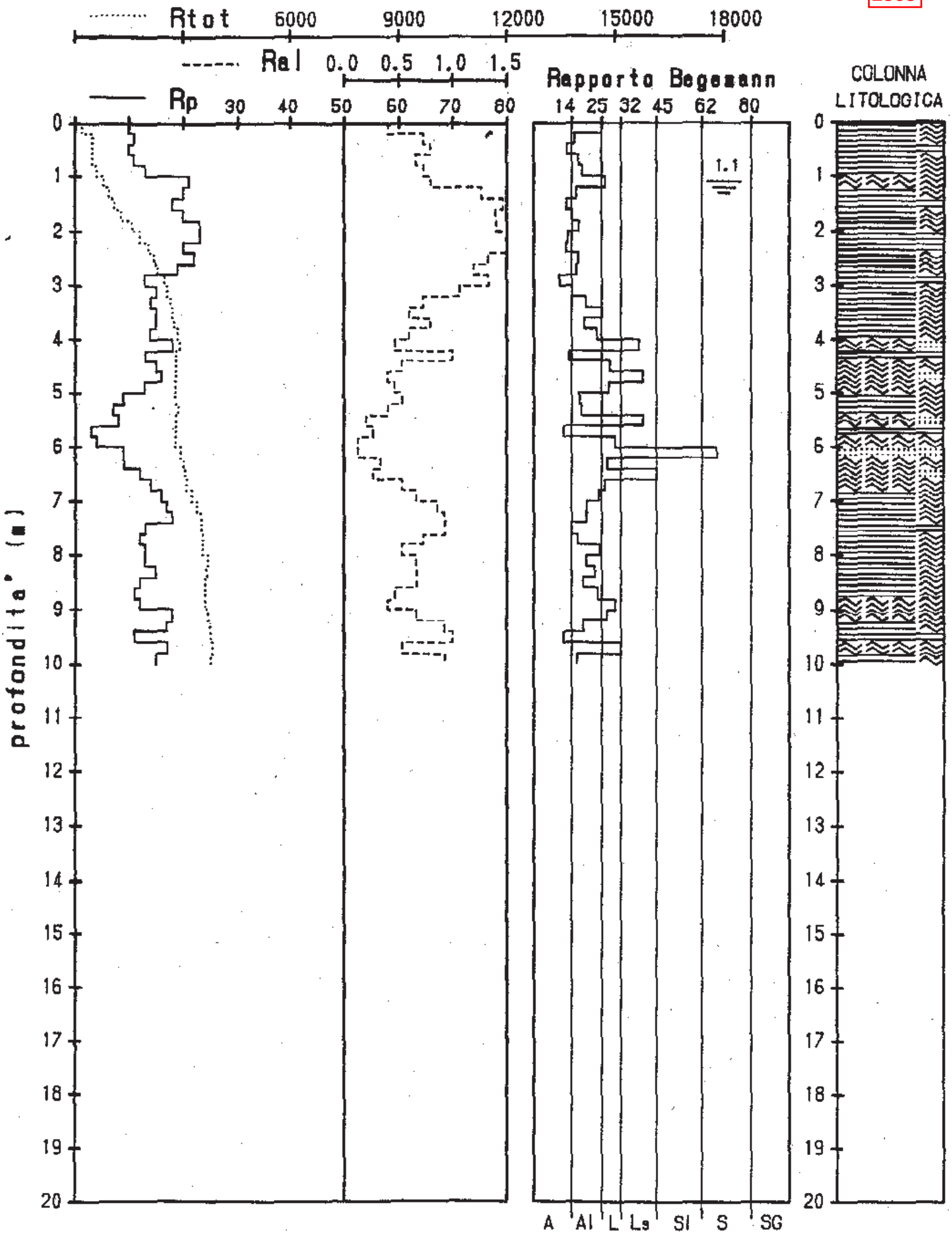
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	270	390	500	120	.8	34	230			1.08	16.6
.4	200	300	600	100	.66	30	400			.8	17.36
.6	240	570	900	330	2.2	11	660			.96	16.94
.8	330	450	1080	120	.8	41	630			1.32	15.75
1	280	380	1140	100	.66	42	860			1.12	16.48
1.2	170	290	1260	120	.8	21	1630			.68	17.75
1.4	150	290	1260	140	.93	16	1850			.8	18.14
1.6	120	200	1380	80	.53	23	1180			.48	19.13
1.8	100	150	1200	50	.33	30	1100			.4	20.3
2	80	160	1160	80	.53	15	1920			.32	22.29
2.2	90	170	1060	80	.53	17	910			.36	21.16
2.4	130	250	1800	120	.8	16	970			.52	18.72
2.6	150	310	1290	160	1.06	14	1050			.6	18.14
2.8	130	280	1400	150	1	13	1270			.52	18.72
3	170	340	1400	170	1.13	15	1230			.68	17.75
3.2	150	310	1400	160	1.06	14	1250			.6	18.14
3.4	160	320	1600	160	1.06	15	1440			.64	17.93
3.6	190	300	1700	110	.73	26	1510			.76	17.47
3.8	170	290	1850	120	.8	21	1630			.68	17.75
4	160	320	2000	160	1.06	15	1840			.64	17.93
4.2	180	360	2100	180	1.2	15	1920			.72	17.6
4.4	160	300	2250	140	.93	17	2090			.64	17.93
4.6	190	280	2300	90	.6	32	2110			.76	17.47
4.8	130	220	2400	90	.6	22	2270			.52	18.72
5	140	229	2430	80	.53	26	2260			.56	18.4
5.2	100	160	2690	60	.4	25	2500			.4	20.3
5.4	110	220	2700	110	.73	15	2590			.44	19.64
5.6	130	210	2800	80	.53	24	2670			.52	18.72
5.8	110	230	2780	120	.8	14	2590			.44	19.64
6	80	140	2680	60	.4	20	2520			.32	22.29
6.2	70	110	2780	40	.26	26	2630			.28	23.81
6.4	100	170	2700	70	.46	21	2600			.4	20.3
6.6	120	230	2800	110	.73	16	2680			.48	19.13
6.8	150	280	3000	130	.86	17	2850			.6	18.14
7	210	360	3100	150	1	21	2890			.84	17.25
7.2	180	350	3100	170	1.13	16	2920			.72	17.6
7.4	200	440	3200	240	1.6	12	3000			.8	17.36
7.6	210	410	3300	200	1.33	16	3090			.84	17.25
7.8	180	390	3300	210	1.4	13	3120			.72	17.6
8	260	380	3400	120	.8	32	3140			1.08	16.72

letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	210	400	3600	190	1.26	17	3390			.84	17.25
8.4	250	510	3700	260	1.73	14	3450			1	16.83
8.6	220	490	4000	270	1.8	12	3780			.88	17.15
8.8	220	360	4200	140	.93	24	3980			.88	17.15
9	210	390	4200	180	1.2	17	3990			.84	17.25
9.2	180	270	4380	90	.6	30	4120			.72	17.6
9.4	160	230	4400	70	.46	34	4240			.64	17.93
9.6	210	380	4400	170	1.13	19	4190			.84	17.25
9.8	270	550	4500	280	1.86	14	4230			1.08	16.6
10	210	400	4600	190	1.26	17	4390			.84	17.25

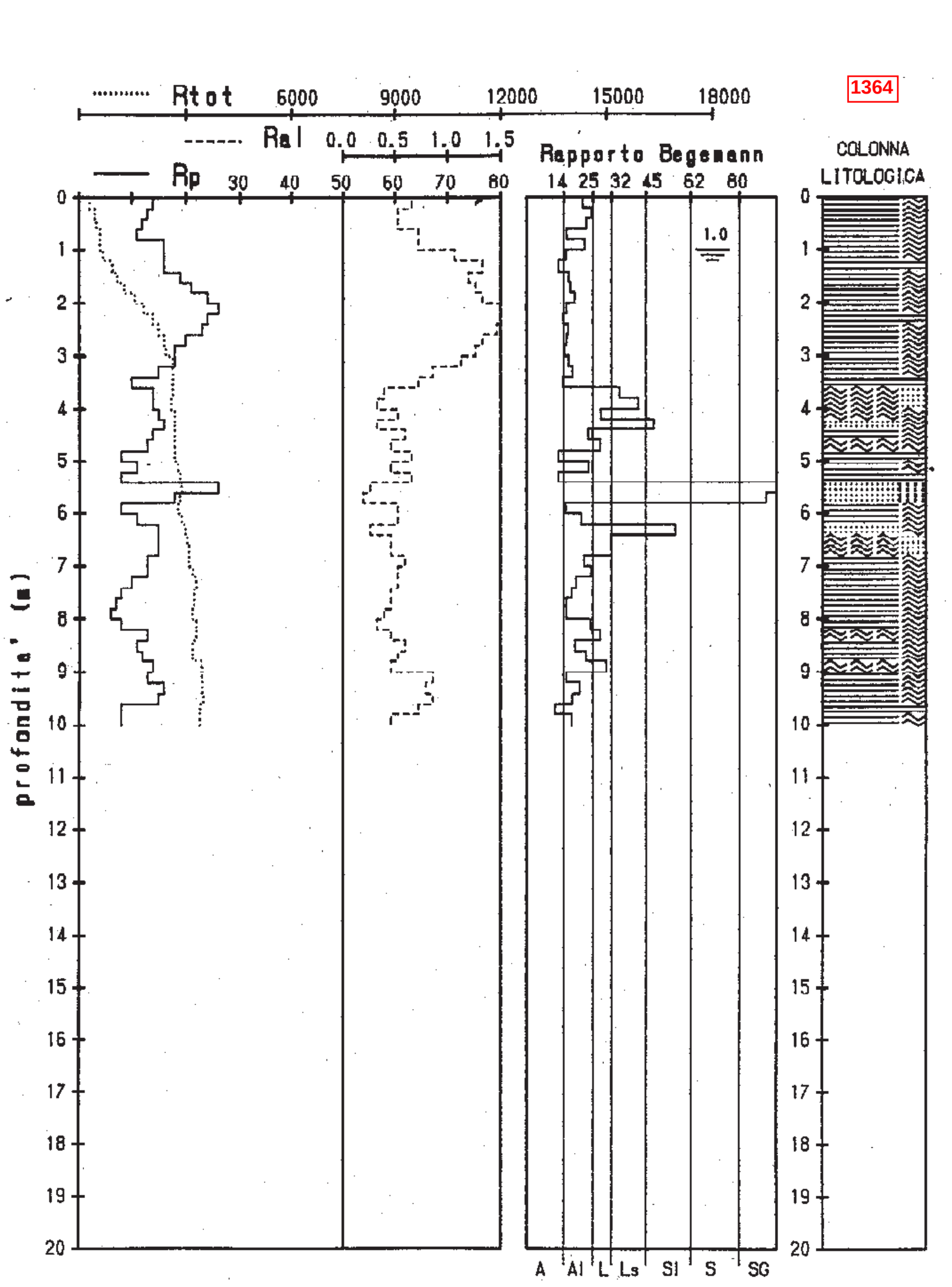

COLONNA STRATIGRAFICA
Resistenza totale - Kg -
Rapporto begemann
Res. alla punta -Kg/cm²-

Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Ft	ø	Dt	Cu	mV
0.2	100	160	200	10	0.40	25	4.00	.	.	0.50	25.0
0.4	110	220	500	11	0.73	15	6.67	.	.	0.55	18.2
0.6	100	220	500	10	0.80	12	8.00	.	.	0.50	25.0
0.8	110	210	500	11	0.67	16	6.06	.	.	0.55	18.2
1.0	130	240	600	13	0.73	18	5.64	.	.	0.65	15.4
1.2	210	330	800	21	0.80	26	3.81	.	.	1.05	11.9
1.4	200	390	950	20	1.27	16	6.33	.	.	1.00	10.0
1.6	180	400	1100	18	1.47	12	8.15	.	.	0.90	13.9
1.8	200	410	1300	20	1.40	14	7.00	.	.	1.00	10.0
2.0	230	440	1600	23	1.40	16	6.09	.	.	1.15	8.7
2.2	230	500	1800	23	1.80	13	7.83	.	.	1.15	10.9
2.4	200	450	2050	20	1.67	12	8.33	.	.	1.00	12.5
2.6	220	420	2200	22	1.33	16	6.06	.	.	1.10	9.1
2.8	190	370	2300	19	1.20	16	6.32	.	.	0.95	10.5
3.0	130	330	2500	13	1.33	10	10.26	.	.	0.65	19.2
3.2	150	310	2550	15	1.07	14	7.11	.	.	0.75	13.3
3.4	140	250	2650	14	0.73	19	5.24	.	.	0.70	14.3
3.6	150	240	2700	15	0.60	25	4.00	.	.	0.75	16.7
3.8	150	270	2750	15	0.80	19	5.33	.	.	0.75	13.3
4.0	140	230	2850	14	0.60	23	4.29	.	.	0.70	14.3
4.2	180	250	2900	18	0.47	39	2.59	23	22	.	18.5
4.4	130	200	2800	13	1.00	13	7.69	.	.	0.65	19.2
4.6	150	230	2800	15	0.53	28	3.56	.	.	0.75	16.7
4.8	160	220	2800	16	0.40	40	2.50	23	15	.	20.8
5.0	130	200	2800	13	0.47	28	3.59	.	.	0.65	19.2
5.2	90	170	2800	9	0.53	17	5.93	.	.	0.45	22.2
5.4	70	130	2850	7	0.40	17	5.71	.	.	0.35	28.6
5.6	80	110	2900	8	0.20	40	2.50	20	18	.	41.7
5.8	30	70	2900	3	0.27	11	8.89	.	.	0.15	83.3
6.0	40	60	2800	4	0.13	30	3.33	.	.	0.20	62.5
6.2	90	110	2950	9	0.13	67	1.40	23	18	.	55.6
6.4	90	140	3000	9	0.33	27	3.70	.	.	0.45	27.8
6.6	120	160	3050	12	0.27	45	2.22	22	18	.	41.7
6.8	140	220	3100	14	0.53	26	3.81	.	.	0.70	17.9
7.0	160	260	3250	16	0.67	24	4.17	.	.	0.80	12.5
7.2	170	300	3400	17	0.87	20	5.10	.	.	0.85	11.8
7.4	100	320	3500	10	0.93	19	5.19	.	.	0.90	11.1
7.6	130	270	3500	13	0.93	14	7.18	.	.	0.65	15.4
7.8	120	230	3550	12	0.73	16	6.11	.	.	0.60	16.7
8.0	130	210	3550	13	0.53	24	4.10	.	.	0.65	15.4
8.2	130	230	3700	13	0.67	19	5.13	.	.	0.65	15.4
8.4	150	250	3650	15	0.67	22	4.44	.	.	0.75	13.3
8.6	120	220	3600	12	0.67	18	5.56	.	.	0.60	16.7
8.8	110	180	3600	11	0.47	24	4.24	.	.	0.55	18.2
9.0	120	180	3600	12	0.40	30	3.33	.	.	0.60	20.8
9.2	180	280	3700	18	0.67	27	3.70	.	.	0.90	13.9
9.4	170	310	3750	17	0.93	18	5.49	.	.	0.85	11.8
9.6	110	260	3750	11	1.00	11	9.09	.	.	0.55	22.7
9.8	170	250	3800	17	0.53	32	3.14	.	.	0.85	19.6
10.0	150	290	3750	15	0.93	16	6.22	.	.	0.75	13.3


Rtot
6000
9000
12000
15000
18000
Ral
0.0
0.5
1.0
1.5
Rp
30
40
50
60
70
80
Rapporto Begemann
14
25
32
45
62
80
1.1
COLONNA
LITOLOGICA
profondita' (m)
0
1
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Ls
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1364

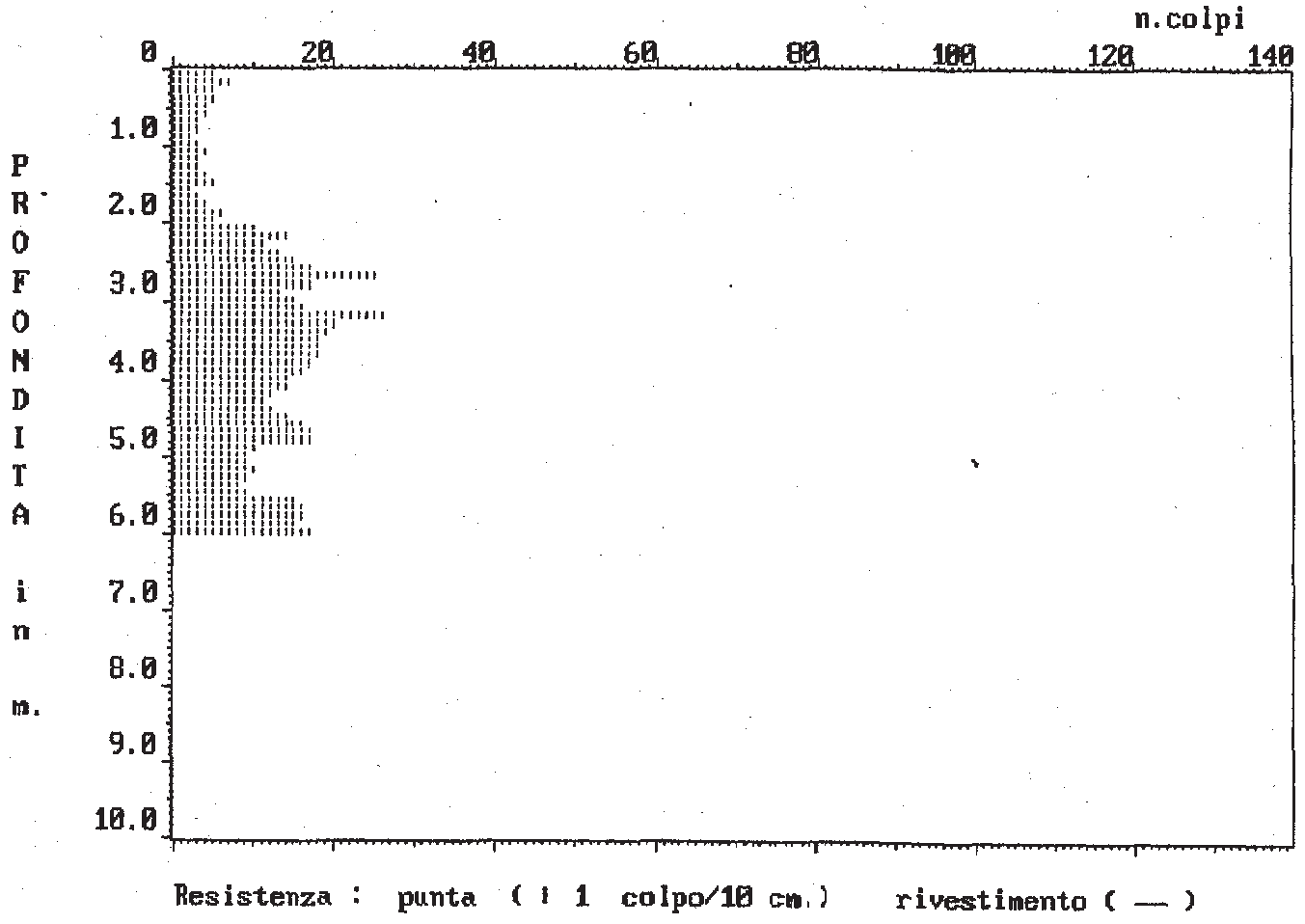
Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	140	240	300	14	0.67	21	4.76	.	.	0.70	14.3
0.4	130	210	450	13	0.53	24	4.10	.	.	0.65	15.4
0.6	120	200	500	12	0.53	22	4.44	.	.	0.60	16.7
0.8	110	220	600	11	0.73	15	6.67	.	.	0.55	18.2
1.0	160	270	600	16	0.73	22	4.58	.	.	0.80	12.5
1.2	160	320	700	16	1.07	15	6.67	.	.	0.80	12.5
1.4	160	360	950	16	1.33	12	8.33	.	.	0.80	15.6
1.6	190	370	1100	19	1.20	16	6.32	.	.	0.95	10.5
1.8	210	400	1300	21	1.27	17	6.03	.	.	1.05	9.5
2.0	240	440	1600	24	1.33	18	5.56	.	.	1.20	8.3
2.2	260	520	1850	26	1.73	15	6.67	.	.	1.30	7.7
2.4	240	500	2100	24	1.73	14	7.22	.	.	1.20	8.3
2.6	230	450	2250	23	1.47	16	6.38	.	.	1.15	8.7
2.8	200	400	2400	20	1.33	15	6.67	.	.	1.00	10.0
3.0	180	370	2450	18	1.27	14	7.04	.	.	0.90	11.1
3.2	180	350	2650	18	1.13	16	6.30	.	.	0.90	11.1
3.4	150	280	2650	15	0.87	17	5.78	.	.	0.75	13.3
3.6	100	210	2650	10	0.73	14	7.33	.	.	0.50	20.0
3.8	140	200	2650	14	0.40	35	2.86	23	15	.	23.8
4.0	140	190	2600	14	0.33	42	2.38	23	14	.	23.8
4.2	150	230	2700	15	0.53	28	3.56	.	.	0.75	16.7
4.4	160	210	2700	16	0.33	48	2.08	24	17	.	31.3
4.6	140	230	2700	14	0.60	23	4.29	.	.	0.70	14.3
4.8	130	200	2700	13	0.47	28	3.59	.	.	0.65	19.2
5.0	80	160	2700	8	0.67	12	8.33	.	.	0.40	31.3
5.2	110	180	2800	11	0.47	24	4.24	.	.	0.55	18.2
5.4	80	180	2850	8	0.67	12	8.33	.	.	0.40	31.3
5.6	260	300	2900	26	0.27	97	1.03	29	29	.	25.6
5.8	180	210	2850	18	0.20	90	1.11	27	16	.	37.0
6.0	80	160	2800	8	0.53	15	6.67	.	.	0.40	25.0
6.2	110	190	2900	11	0.53	21	4.85	.	.	0.55	18.2
6.4	150	190	3000	15	0.27	56	1.78	24	10	.	33.3
6.6	150	220	3050	15	0.47	32	3.11	.	.	0.75	22.2
6.8	150	220	3100	15	0.47	32	3.11	.	.	0.75	22.2
7.0	130	220	3100	13	0.60	22	4.62	.	.	0.65	15.4
7.2	130	210	3200	13	0.53	24	4.10	.	.	0.65	15.4
7.4	100	180	3300	10	0.53	19	5.33	.	.	0.50	20.0
7.6	80	150	3250	8	0.47	17	5.83	.	.	0.40	25.0
7.8	70	140	3250	7	0.47	15	6.67	.	.	0.35	28.6
8.0	60	120	3200	6	0.40	15	6.67	.	.	0.30	33.3
8.2	80	130	3300	8	0.33	24	4.17	.	.	0.40	25.0
8.4	130	200	3300	13	0.47	28	3.59	.	.	0.65	19.2
8.6	110	200	3200	11	0.60	18	5.45	.	.	0.55	18.2
8.8	120	200	3200	12	0.53	22	4.44	.	.	0.60	16.7
9.0	140	210	3450	14	0.47	30	3.33	.	.	0.70	17.9
9.2	130	260	3450	13	0.87	15	6.67	.	.	0.65	15.4
9.4	160	280	3450	16	0.80	20	5.00	.	.	0.80	12.5
9.6	150	280	3500	15	0.87	17	5.78	.	.	0.75	13.3
9.8	80	190	3400	8	0.73	11	9.17	.	.	0.40	31.3
10.0	80	150	3400	8	0.47	17	5.83	.	.	0.40	25.0


1364
Rtot
6000
9000
12000
15000
18000
Ral
0.0
0.5
1.0
1.5
Rp
30
40
50
60
70
80
Rapporto Begemann
14
25
32
45
62
80
1.0
COLONNA
LITOLOGICA
profondita' (m)
0
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14
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A
Al
L
Ls
Sl
S
SG

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgW/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA KgW/cm².
0.10	5	18	3.10	16	44
0.20	7	25	3.20	26	71
0.30	5	18	3.30	20	55
0.40	5	18	3.40	19	52
0.50	4	15	3.50	18	49
0.60	4	14	3.60	18	49
0.70	3	11	3.70	18	49
0.80	3	11	3.80	17	46
0.90	2	7	3.90	16	43
1.00	3	11	4.00	14	38
1.10	4	15	4.10	14	35
1.20	3	10	4.20	12	30
1.30	3	10	4.30	11	28
1.40	4	13	4.40	12	30
1.50	5	16	4.50	14	35
1.60	2	6	4.60	16	40
1.70	3	10	4.70	17	42
1.80	4	13	4.80	17	42
1.90	6	19	4.90	10	25
2.00	5	16	5.00	9	22
2.10	10	30	5.10	9	21
2.20	14	42	5.20	10	23
2.30	11	33	5.30	9	21
2.40	13	39	5.40	8	19
2.50	15	45	5.50	9	21
2.60	17	50	5.60	15	35
2.70	25	73	5.70	16	37
2.80	17	50	5.80	16	37
2.90	13	38	5.90	15	35
3.00	15	44	6.00	17	39

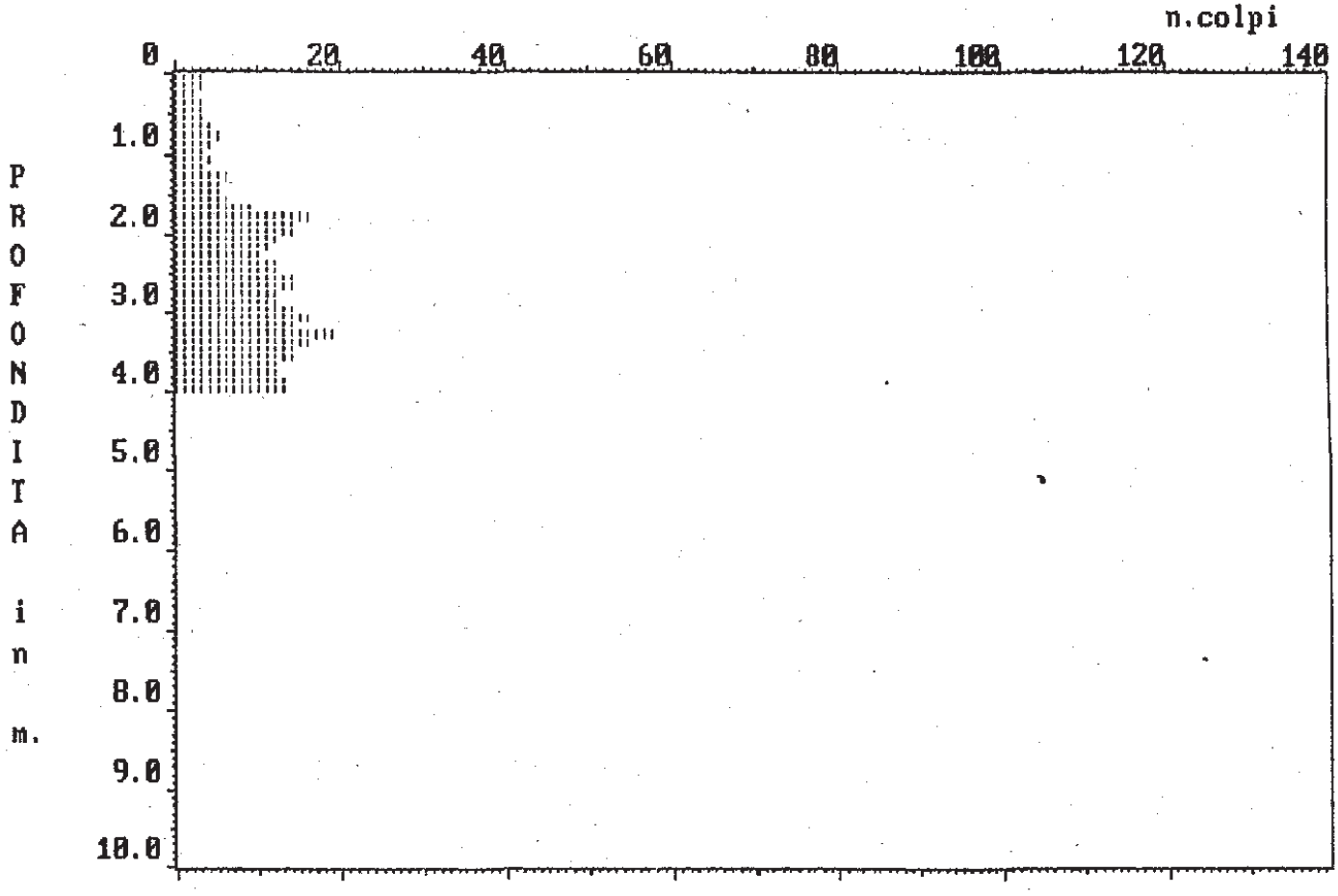
PROVA PENETROMETRICA [S.C.P.T.] N. 1



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	3	11	2.10	12	36
0.20	3	11	2.20	11	33
0.30	2	7	2.30	10	30
0.40	3	11	2.40	12	36
0.50	3	11	2.50	12	36
0.60	3	11	2.60	14	41
0.70	4	14	2.70	14	41
0.80	5	18	2.80	12	35
0.90	4	14	2.90	12	35
1.00	3	11	3.00	14	41
1.10	4	13	3.10	16	44
1.20	3	10	3.20	14	38
1.30	6	20	3.30	19	52
1.40	5	16	3.40	16	44
1.50	5	16	3.50	14	38
1.60	6	19	3.60	14	38
1.70	9	29	3.70	12	32
1.80	16	52	3.80	12	32
1.90	14	45	3.90	13	35
2.00	14	45	4.00	13	35

PROVA PENETROMETRICA I.S.C.P.T.1 N. 2



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 705-AA CANTIERE :COSTRUZIONE EDIFICIO RESIDENZIALE

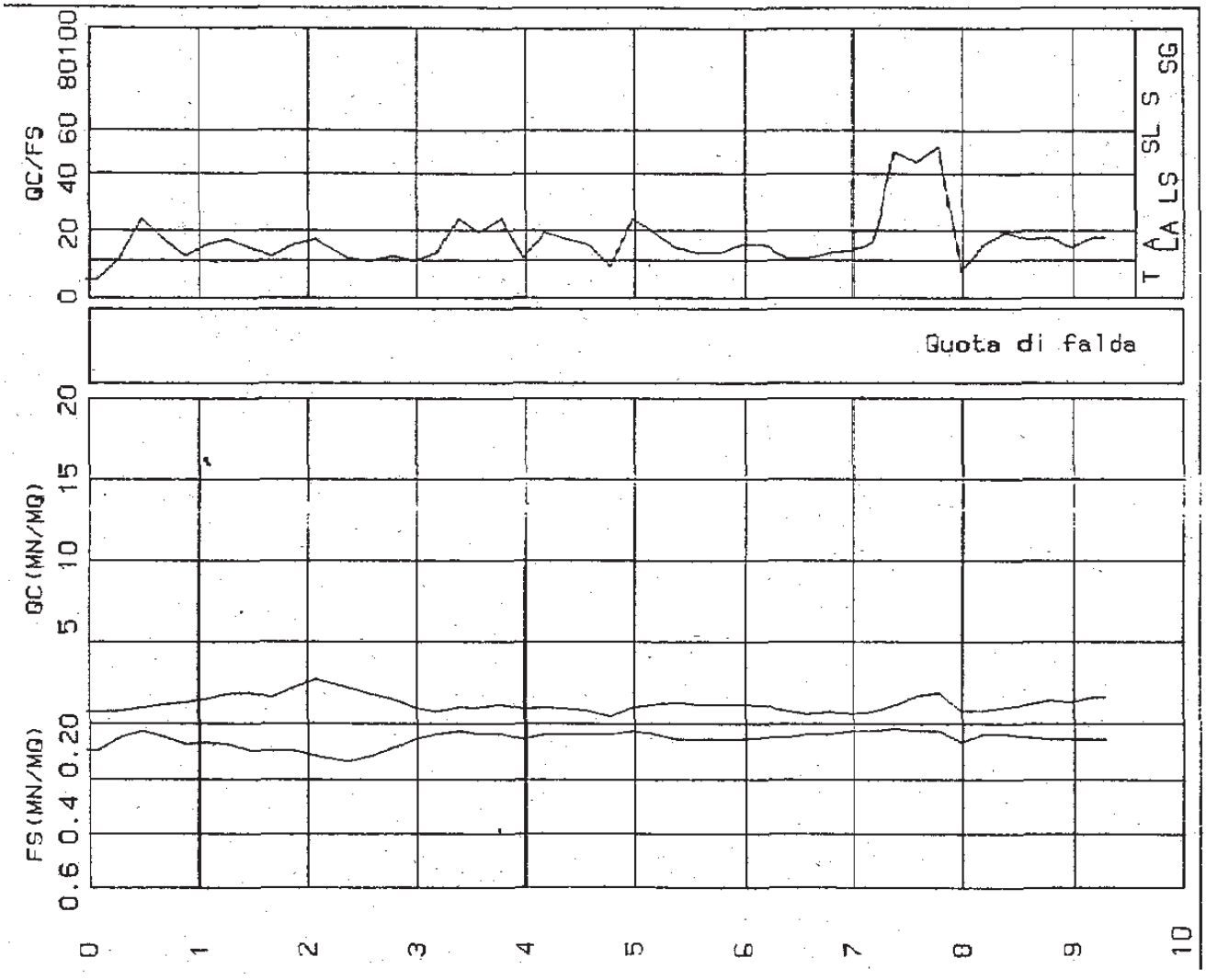
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	7	22	1.00	7.00										
0.20	7	22	1.00	7.00										
0.40	8	16	0.53	15.09										
0.60	10	15	0.33	30.30										
0.80	12	20	0.53	22.64										
1.00	13	25	0.80	16.25										
1.20	15	26	0.73	20.55										
1.40	18	30	0.80	22.50										
1.60	19	34	1.00	19.00										
1.80	16	31	1.00	16.00										
2.00	22	38	1.07	20.56										
2.20	27	45	1.20	22.50										
2.40	22	43	1.40	15.71										
2.60	18	37	1.27	14.17										
2.80	15	29	0.93	16.13										
3.00	10	20	0.67	14.93										
3.20	7	13	0.40	17.50										
3.40	10	15	0.33	30.30										
3.60	10	16	0.40	25.00										
3.80	12	18	0.40	30.00										
4.00	9	18	0.60	15.00										
4.20	10	16	0.40	25.00										
4.40	9	15	0.40	22.50										
4.60	8	14	0.40	20.00										
4.80	5	11	0.40	12.50										
5.00	10	15	0.33	30.30										
5.20	12	19	0.47	25.53										
5.40	13	23	0.67	19.40										
5.60	12	22	0.67	17.91										
5.80	12	22	0.67	17.91										
6.00	12	21	0.60	20.00										
6.20	11	19	0.53	20.75										
6.40	8	16	0.53	15.09										
6.60	6	12	0.40	15.00										
6.80	7	13	0.40	17.50										
7.00	6	11	0.33	18.18										
7.20	7	12	0.33	21.21										
7.40	11	14	0.20	55.00										
7.60	17	22	0.33	51.52										
7.80	19	24	0.33	57.58										
8.00	8	19	0.73	10.96										
8.20	8	14	0.40	20.00										
8.40	10	16	0.40	25.00										
8.60	12	20	0.53	22.64										
8.80	14	23	0.60	23.33										
9.00	13	23	0.67	19.40										
9.20	16	26	0.67	23.88										
9.40	16	26	0.67	23.88										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SC=SABBIE E GHIAIA AC=ARGILLE ANDIATE

N	do	fs	Diagramma fs					Diagramma qc								BEGEMANN 1965							SCHM. 1978
m	kg/cmq		5	4	3	2	1	0	10	20	30	40	50	60	70	H2O	AO	A	LA	L	SL	S	SG	
0.2	7	1.000																					AO
0.4	8	0.333																					AO
0.6	10	0.333																					ASL
0.8	12	0.533																					A4
1.0	13	0.800																					A4
1.2	15	0.733																					A4
1.4	18	0.800																					A4
1.6	19	1.000																					A5
1.8	16	1.000																					A5
2.0	22	1.066																					A5
2.2	27	1.200																					ASL
2.4	22	1.399																					A5
2.6	18	1.266																					A5
2.8	15	0.933																					A4
3.0	10	0.666																					AO
3.2	7	0.400																					AO
3.4	10	0.333																					ASL
3.6	10	0.400																					A4
3.8	12	0.400																					ASL
4.0	9	0.600																					AO
4.2	10	0.400																					A4
4.4	9	0.400																					A3
4.6	8	0.400																					A3
4.8	5	0.400																					AO
5.0	10	0.333																					ASL
5.2	12	0.466																					A4
5.4	13	0.666																					A4
5.6	12	0.666																					A4
5.8	12	0.666																					A4
6.0	12	0.600																					A4
6.2	11	0.533																					A4
6.4	8	0.533																					AO
6.6	6	0.400																					AO
6.8	7	0.400																					AO
7.0	6	0.533																					AO
7.2	7	0.333																					AJ
7.4	11	0.200																					SO
7.6	17	0.333																					SO
7.8	19	0.333																					SO
8.0	8	0.733																					AO
8.2	8	0.400																					AJ
8.4	10	0.400																					A4
8.6	12	0.533																					A4
8.8	14	0.600																					A4
9.0	13	0.666																					A4

H a	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 10 20 30 40 50 60 70	BEGEMANN 1965
9.2	16	0.606			A4



A PENETROMETRICA STATICA

CERTIFICATO N.RO : 706-AA CANTIERE :COSTRUZIONE DI EDIFICIO RESIDENZIALE

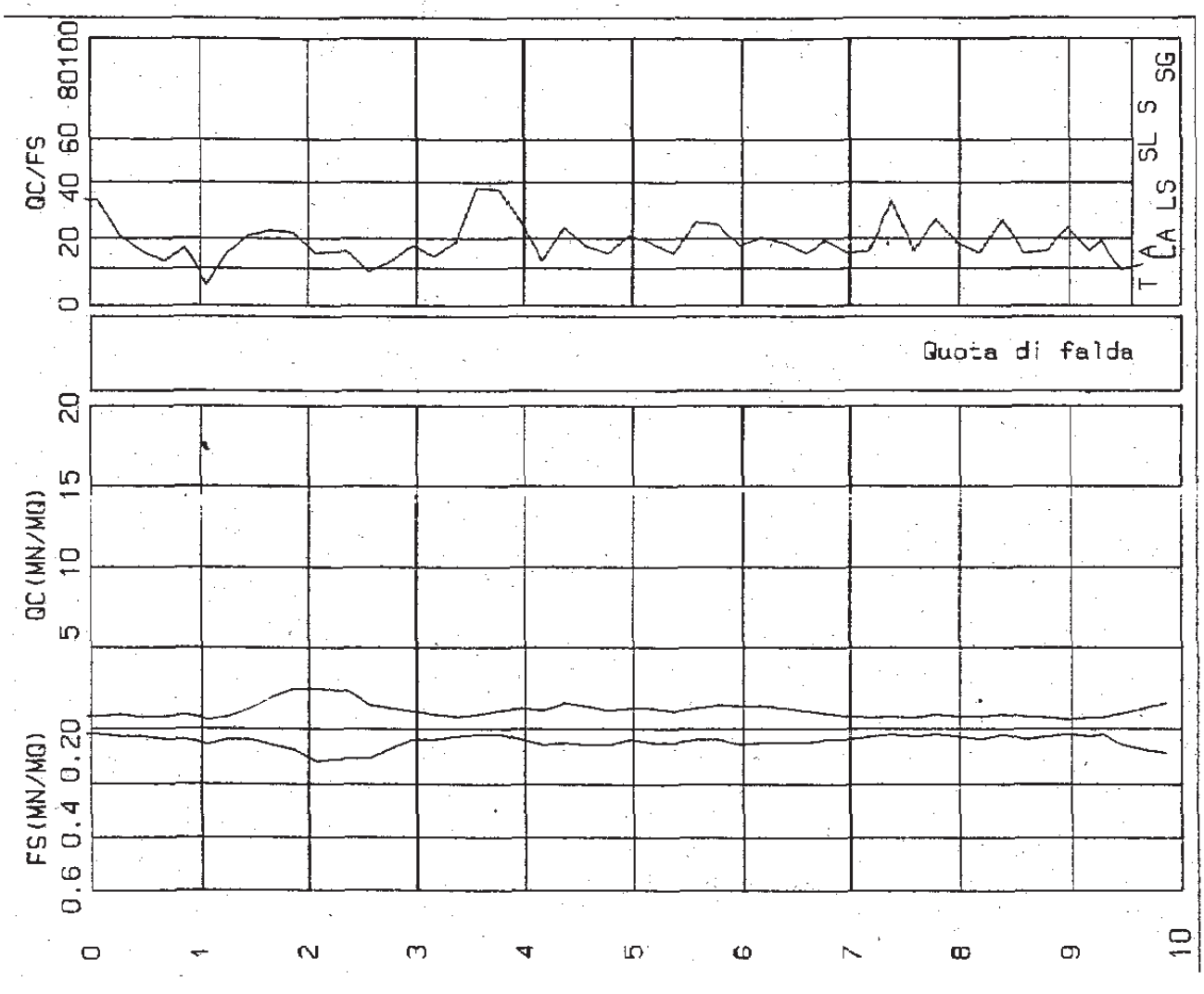
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	8	11	0.20	40.00	10.00	16	30	0.93	17.20					
0.20	8	11	0.20	40.00										
0.40	9	14	0.33	27.27										
0.60	7	12	0.33	21.21										
0.80	8	15	0.47	17.02										
1.00	9	15	0.40	22.50										
1.20	6	16	0.67	8.96										
1.40	8	14	0.40	20.00										
1.60	13	20	0.47	27.66										
1.80	20	30	0.67	29.85										
2.00	25	38	0.87	28.74										
2.20	25	43	1.20	20.83										
2.40	24	41	1.13	21.24										
2.60	15	32	1.13	13.27										
2.80	13	24	0.73	17.81										
3.00	11	18	0.47	23.40										
3.20	9	16	0.47	19.15										
3.40	8	13	0.33	24.24										
3.60	9	12	0.20	45.00										
3.80	12	16	0.27	44.44										
4.00	13	17	0.40	32.50										
4.20	12	22	0.67	17.91										
4.40	16	24	0.53	30.19										
4.60	14	23	0.60	23.33										
4.80	12	21	0.60	20.00										
5.00	13	20	0.47	27.66										
5.20	13	21	0.53	24.53										
5.40	11	19	0.53	20.75										
5.60	13	19	0.40	32.50										
5.80	15	22	0.47	31.91										
6.00	14	23	0.60	23.33										
6.20	14	22	0.53	26.42										
6.40	13	21	0.53	24.53										
6.60	11	19	0.53	20.75										
6.80	10	16	0.40	25.00										
7.00	8	14	0.40	20.00										
7.20	7	12	0.33	21.21										
7.40	8	11	0.20	40.00										
7.60	7	12	0.33	21.21										
7.80	9	13	0.27	33.33										
8.00	8	13	0.33	24.24										
8.20	8	14	0.40	20.00										
8.40	9	13	0.27	33.33										
8.60	8	14	0.40	20.00										
8.80	7	12	0.33	21.21										
9.00	4	9	0.20	30.00										
9.20	7	12	0.33	21.21										
9.40	7	11	0.27	25.93										
9.60	10	20	0.67	14.93										
9.80	13	25	0.80	16.25										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FB = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS t
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

H	σc	fs	Diagramm fs	Diagramm σc	BEGEMANN 1965	SCHM. 1978
B	kg/cm²		5 4 3 2 1 0	10 20 30 40 50 60 70	H2O AO A1 A2 A3 S1 S2	
0.2	8	0.200				SAL
0.4	9	0.333				A3
0.6	7	0.333				A3
0.8	8	0.466				A0
1.0	9	0.400				A3
1.2	6	0.666				A0
1.4	8	0.400				A3
1.6	13	0.466				ASL
1.8	20	0.666				ASL
2.0	25	0.866				ASL
2.2	25	1.200				A5
2.4	24	1.133				A5
2.6	15	1.133				A0
2.8	13	0.733				A4
3.0	11	0.466				A4
3.2	9	0.466				A3
3.4	8	0.333				A3
3.6	9	0.200				SAL
3.8	12	0.266				SAL
4.0	13	0.400				ASL
4.2	12	0.666				A4
4.4	16	0.533				ASL
4.6	14	0.600				A4
4.8	12	0.600				A4
5.0	13	0.466				ASL
5.2	13	0.333				A4
5.4	11	0.533				A4
5.6	13	0.400				ASL
5.8	13	0.466				ASL
6.0	14	0.600				A4
6.2	14	0.533				ASL
6.4	13	0.533				A4
6.6	11	0.533				A4
6.8	10	0.400				A4
7.0	8	0.400				A3
7.2	7	0.333				A3
7.4	8	0.200				SAL
7.6	7	0.333				A3
7.8	9	0.266				ASL
8.0	8	0.333				A3
8.2	8	0.400				A3
8.4	9	0.266				ASL
8.6	8	0.400				A3
8.8	7	0.333				A3
9.0	6	0.200				ASL

H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1 0	Diagramma qc 10 20 30 40 50 60 70	BEGEMANN 1965 H2O AD A/LA LS SL S SG	SCHM. 1978
9.2	7	0.333				A5
9.4	7	0.266				A5
9.6	10	0.666				A0
9.8	15	0.800				A4
10.0	16	0.933				A4



PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 707-AA CANTIERE :COSTRUZIONE DI EDIFICIO RESIDENZIALE

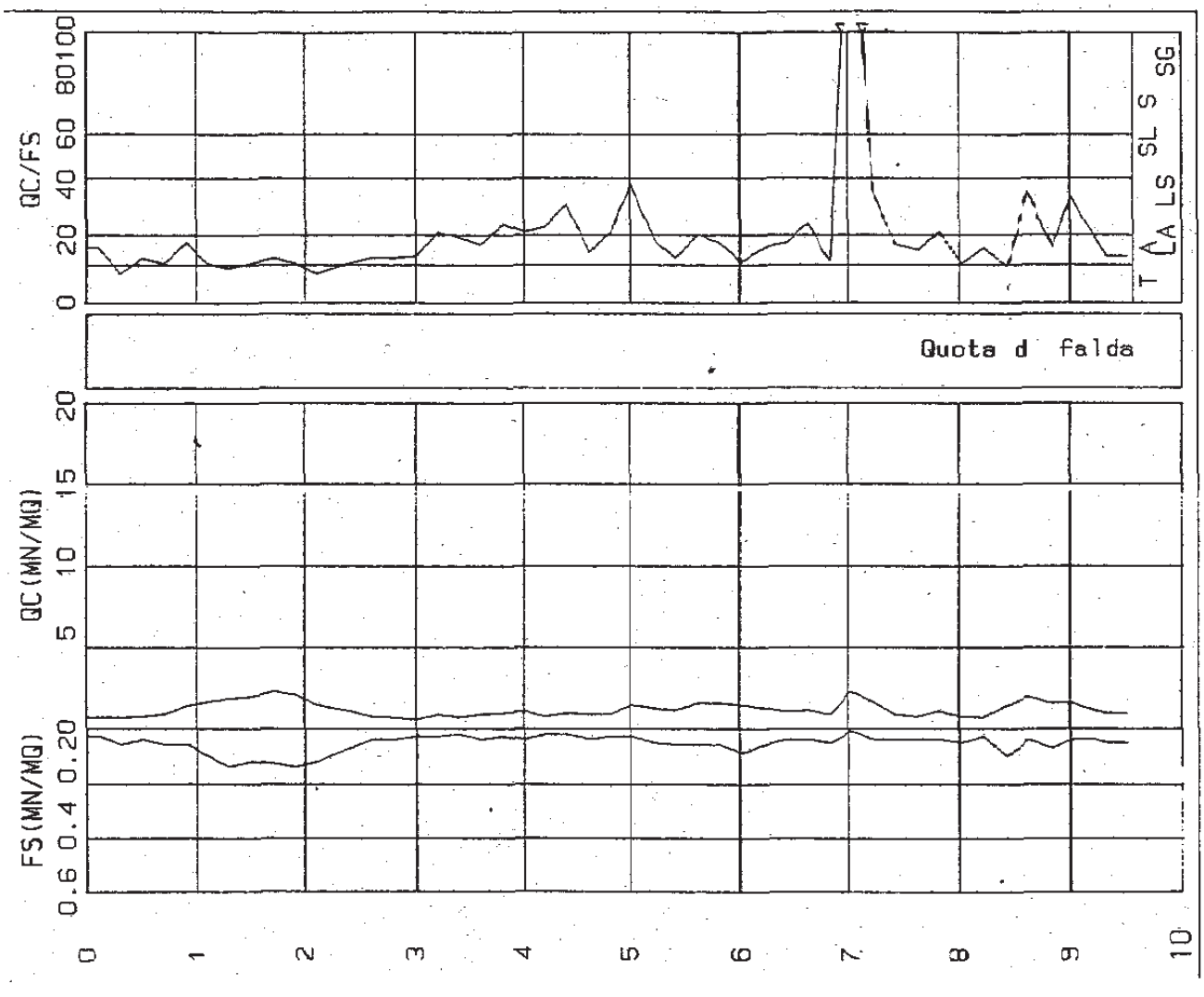
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	7	12	0.33	21.21										
0.20	7	12	0.33	21.21										
0.40	7	16	0.60	11.67										
0.60	8	15	0.47	17.02										
0.80	9	18	0.60	15.00										
1.00	14	23	0.60	23.33										
1.20	17	33	1.07	15.89										
1.40	19	40	1.40	13.57										
1.60	20	39	1.27	15.75										
1.80	23	43	1.33	17.29										
2.00	21	42	1.40	15.00										
2.20	15	34	1.27	11.81										
2.40	11	22	0.73	15.07										
2.60	8	15	0.47	17.02										
2.80	7	13	0.40	17.50										
3.00	6	11	0.33	18.18										
3.20	9	14	0.33	27.27										
3.40	7	11	0.27	25.93										
3.60	9	15	0.40	22.50										
3.80	10	15	0.33	30.30										
4.00	11	17	0.40	27.50										
4.20	8	12	0.27	29.63										
4.40	10	14	0.27	37.04										
4.60	9	16	0.47	19.15										
4.80	9	14	0.33	27.27										
5.00	15	20	0.33	45.45										
5.20	13	21	0.53	24.53										
5.40	12	22	0.67	17.91										
5.60	16	25	0.60	26.67										
5.80	16	26	0.67	23.88										
6.00	15	29	0.93	16.13										
6.20	13	22	0.60	21.67										
6.40	11	18	0.47	23.40										
6.60	12	18	0.40	30.00										
6.80	9	17	0.53	16.98										
7.00	23	25	0.13	176.92										
7.20	17	23	0.40	42.50										
7.40	9	15	0.40	22.50										
7.60	8	14	0.40	20.00										
7.80	11	17	0.40	27.50										
8.00	8	16	0.53	15.09										
8.20	7	12	0.33	21.21										
8.40	14	29	1.00	14.00										
8.60	20	27	0.47	42.55										
8.80	16	27	0.73	21.92										
9.00	16	22	0.40	40.00										
9.20	12	19	0.47	25.53										
9.40	10	18	0.53	18.87										
9.60	10	18	0.53	18.87										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE m. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC : RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL : RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

H a	ac kg/cmq	fs	Diagramma fs	Diagramma ac	BEGEMANN 1965	SCHN. 1978
			5 4 3 2 1 0 10 20 30 40 50 60 70	H2O AO A1 LA1 LS1 SL1 S1 S0	
0.2	7	0.333			A3
0.4	7	0.600			A0
0.6	8	0.466			A0
0.8	9	0.600			A0
1.0	14	0.600			A4
1.2	17	1.066			A5
1.4	19	1.599			A5
1.6	20	1.266			A5
1.8	23	1.333			A5
2.0	21	1.399			A5
2.2	15	0.066			S0
2.4	11	0.733			A0
2.6	8	0.466			A0
2.8	7	0.400			A0
3.0	6	0.333			A0
3.2	9	0.333			A3
3.4	7	0.266			A3
3.6	9	0.400			A3
3.8	10	0.333			ASL
4.0	11	0.400			ASL
4.2	8	0.266			ASL
4.4	10	0.266			SAL
4.6	9	0.466			A3
4.8	9	0.333			A3
5.0	15	0.333			SAL
5.2	13	0.533			A4
5.4	12	0.666			A4
5.6	16	0.600			ASL
5.8	16	0.666			A4
6.0	13	0.933			A4
6.2	13	0.600			A4
6.4	11	0.466			A4
6.6	12	0.400			ASL
6.8	9	0.533			A0
7.0	23	0.133			S0
7.2	17	0.400			SAL
7.4	9	0.400			A3
7.6	8	0.400			A3
7.8	11	0.400			ASL
8.0	8	0.533			A0
8.2	7	0.333			A3
8.4	14	1.000			A0
8.6	20	0.466			SAL
8.8	16	0.733			A4
9.0	16	0.400			SAL

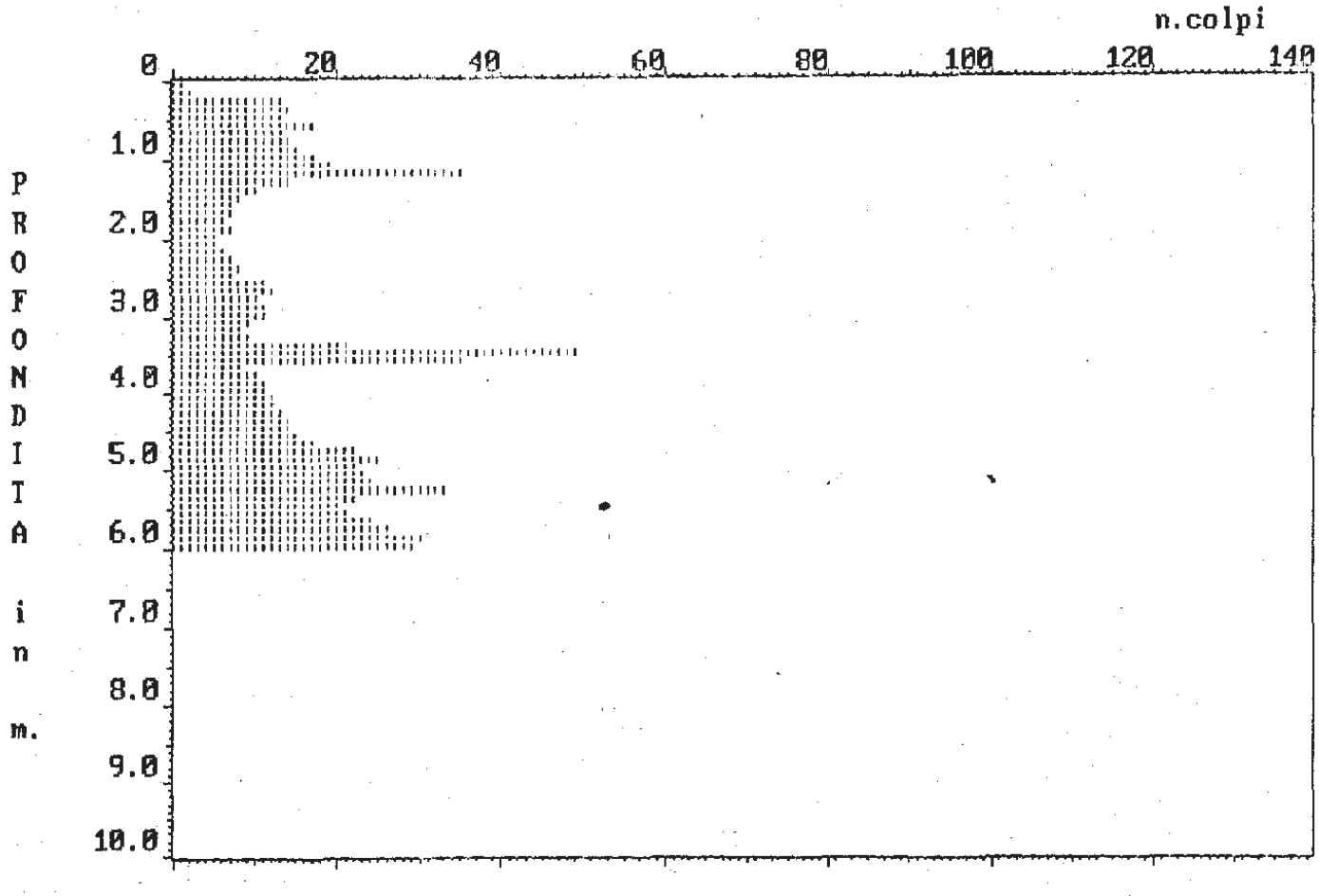
H	qc	fs	Diagramma fs	Diagramma qc	BEGEMANN 1965	SCHM. 1978
m	kg/cmq		5 4 3 2 1 0	10 20 30 40 50 60 70	H2O A0 A1 LA LS SL S SG	
9.2	121	0.466				A6
9.4	101	0.533				A4



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	3.10	9	25
0.20	2	7	3.20	8	22
0.30	13	47	3.30	9	25
0.40	14	51	3.40	21	57
0.50	13	47	3.50	49	134
0.60	17	61	3.60	35	95
0.70	13	46	3.70	8	22
0.80	14	50	3.80	10	27
0.90	15	53	3.90	11	30
1.00	17	61	4.00	11	30
1.10	19	62	4.10	12	30
1.20	35	114	4.20	12	30
1.30	14	46	4.30	13	33
1.40	10	33	4.40	14	35
1.50	8	26	4.50	14	35
1.60	7	23	4.60	15	37
1.70	7	23	4.70	17	42
1.80	6	19	4.80	22	55
1.90	7	23	4.90	25	62
2.00	5	16	5.00	22	55
2.10	5	15	5.10	23	54
2.20	6	18	5.20	24	56
2.30	7	21	5.30	33	77
2.40	8	24	5.40	22	52
2.50	7	21	5.50	20	47
2.60	11	32	5.60	21	49
2.70	12	35	5.70	24	56
2.80	10	29	5.80	26	60
2.90	11	32	5.90	30	70
3.00	11	32	6.00	29	67

PROVA PENETROMETRICA [S.C.P.T.] N. 1



PROVA PENETROMETRICA STATICA

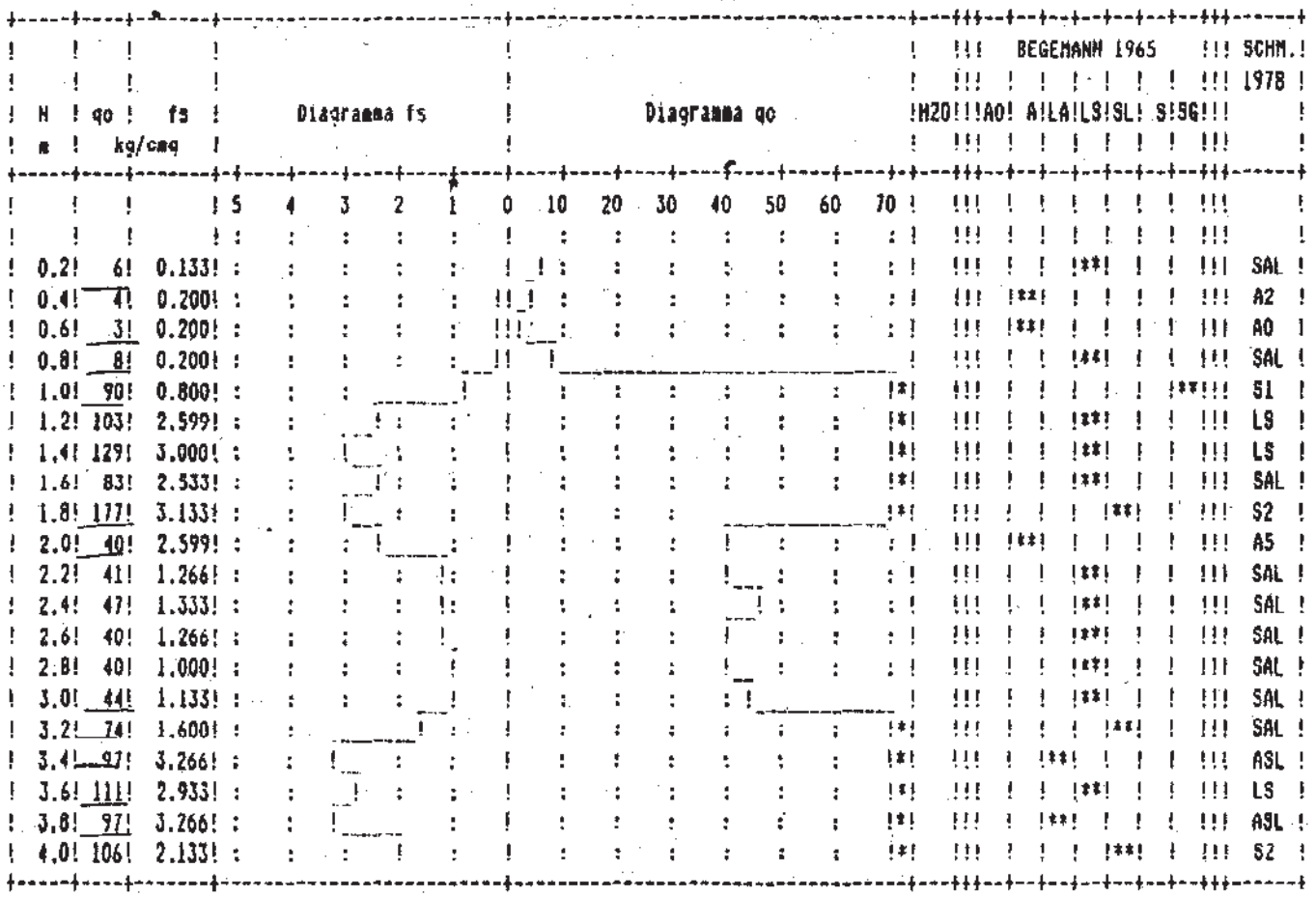
1387

CERTIFICATO N.RO : 46-AA IMPIANTO :RESTAURO FABBRICATO E RIPRISTINO CAVA

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	6	8	0.13	46.15										
0.40	4	7	0.20	20.00										
0.60	3	6	0.20	15.00										
0.80	8	11	0.20	40.00										
1.00	90	102	0.80	112.50										
1.20	103	142	2.60	39.62										
1.40	129	174	3.00	43.00										
1.60	83	121	2.53	32.81										
1.80	177	224	3.13	56.55										
2.00	40	79	2.60	15.38										
2.20	41	60	1.27	32.28										
2.40	47	67	1.33	35.34										
2.60	40	59	1.27	31.50										
2.80	40	55	1.00	40.00										
3.00	44	61	1.13	38.94										
3.20	74	98	1.60	46.25										
3.40	97	146	3.27	29.66										
3.60	111	155	2.93	37.88										
3.80	97	146	3.27	29.66										
4.00	106	138	2.13	49.77										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE



CPT (CONE PENETROMETER TEST)

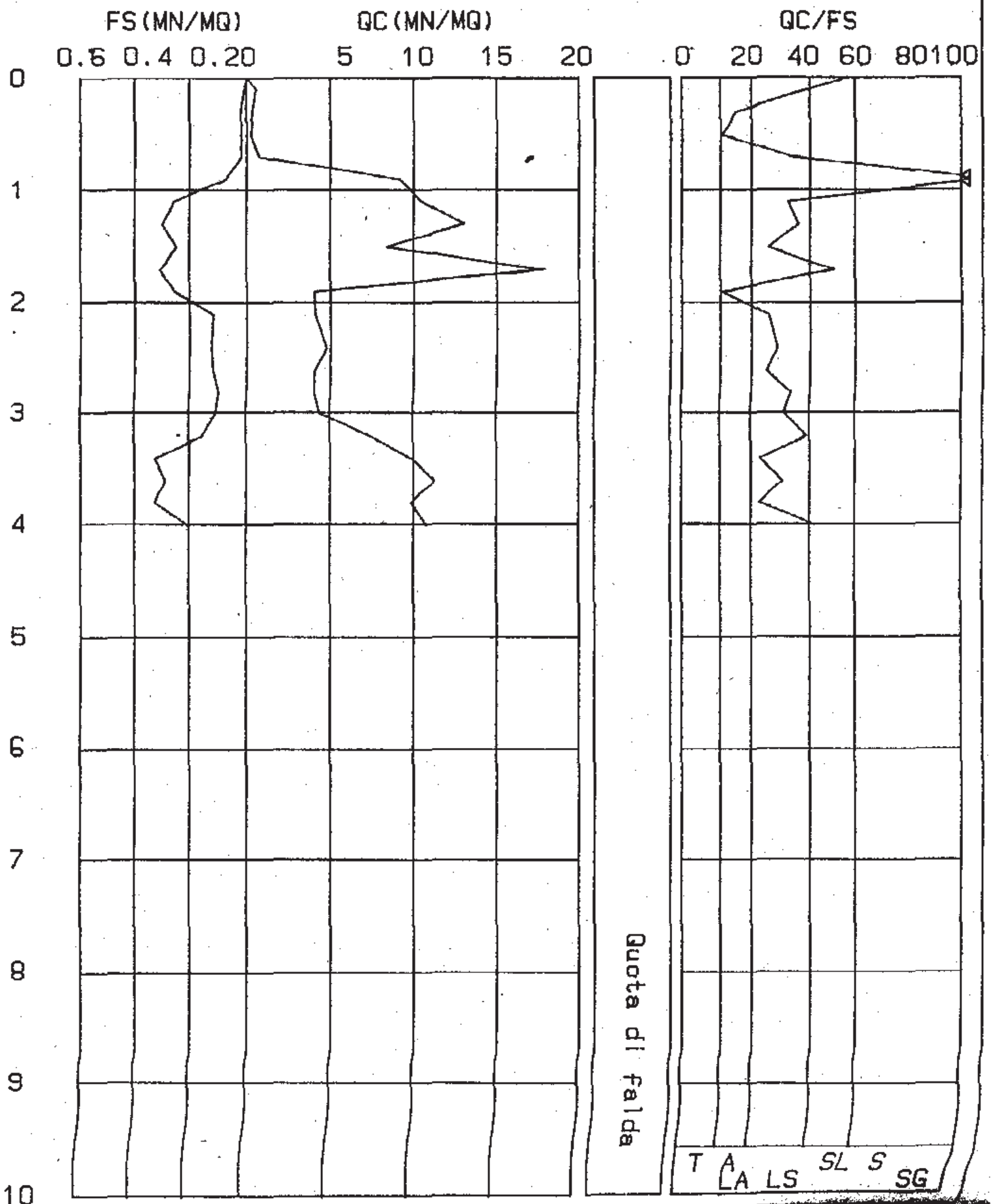
Certif.n. 48-AA
del 02/11/1993

Picchetto n. P/2

Cantiere
RESTAURO FABBRICATO E RIPRISTINO CAVA

Committente

1387



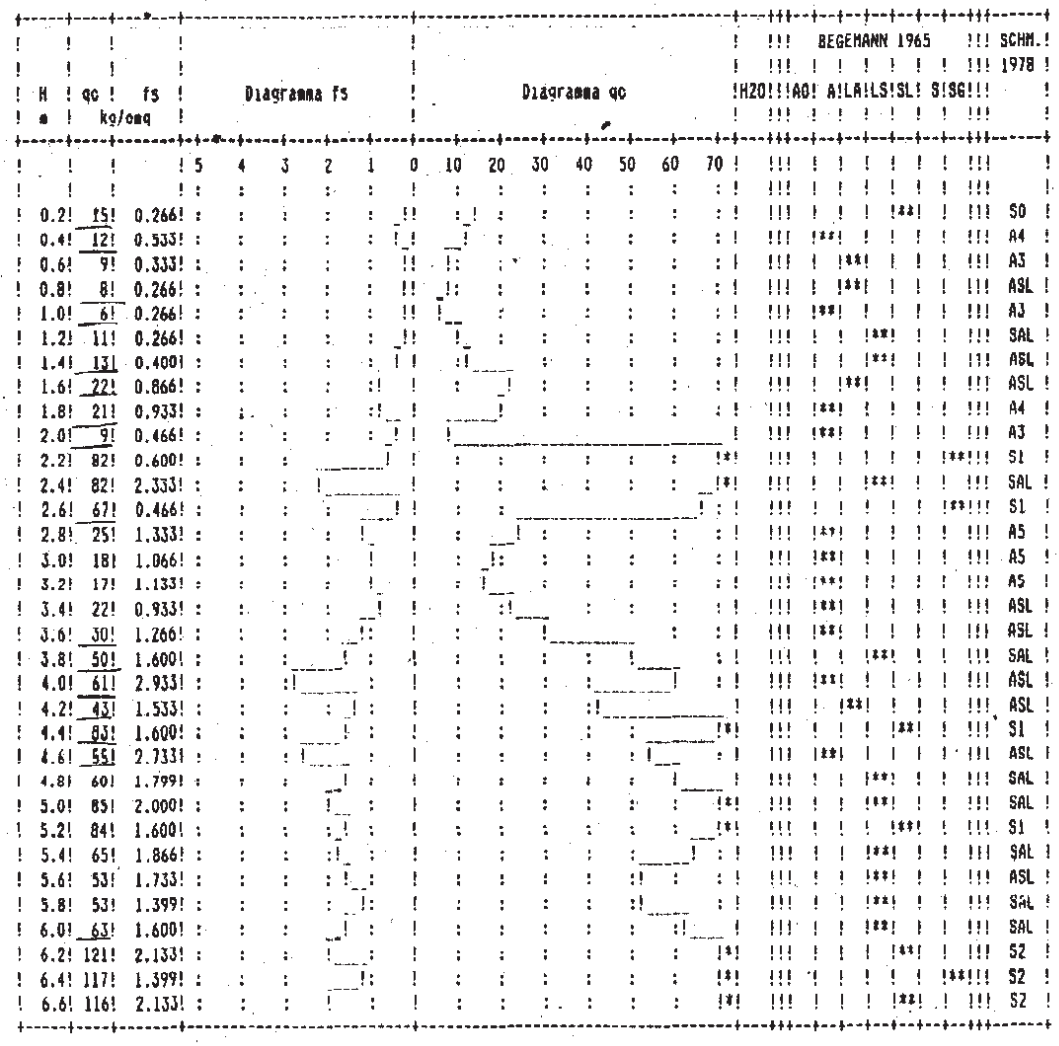
PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 49-AA IMPIANTO : RESTAURO FABBRICATO E RIPRISTINO CAVA

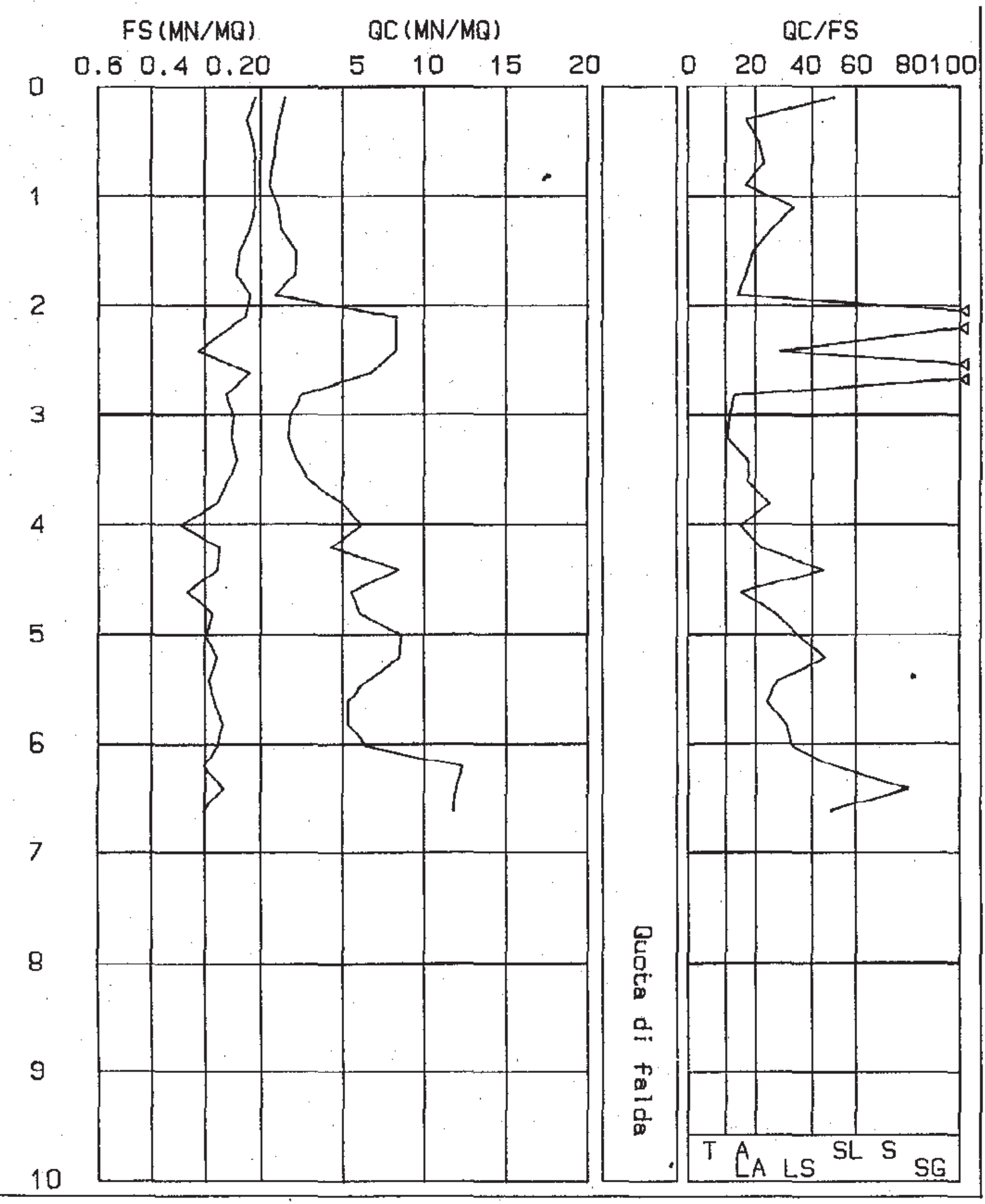
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	15	19	0.27	55.56										
0.40	12	20	0.53	22.64										
0.60	9	14	0.33	27.27										
0.80	8	12	0.27	29.63										
1.00	6	10	0.27	22.22										
1.20	11	15	0.27	40.74										
1.40	13	19	0.40	32.50										
1.60	22	35	0.87	25.29										
1.80	21	35	0.93	22.58										
2.00	9	16	0.47	19.15										
2.20	82	91	0.60	136.67										
2.40	82	117	2.33	35.19										
2.60	67	74	0.47	142.55										
2.80	25	45	1.33	18.80										
3.00	18	34	1.07	16.82										
3.20	17	34	1.13	15.04										
3.40	22	36	0.93	23.66										
3.60	30	49	1.27	23.62										
3.80	50	74	1.60	31.25										
4.00	61	105	2.93	20.82										
4.20	43	66	1.53	28.10										
4.40	83	107	1.60	51.88										
4.60	55	96	2.73	20.15										
4.80	60	87	1.80	33.33										
5.00	85	115	2.00	42.50										
5.20	84	108	1.60	52.50										
5.40	65	93	1.87	34.76										
5.60	53	79	1.73	30.64										
5.80	53	74	1.40	37.86										
6.00	63	87	1.60	39.38										
6.20	121	153	2.13	56.81										
6.40	117	138	1.40	83.57										
6.60	116	148	2.13	54.46										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE



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FS (MN/MQ)
0.6 0.4 0.20
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80 100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

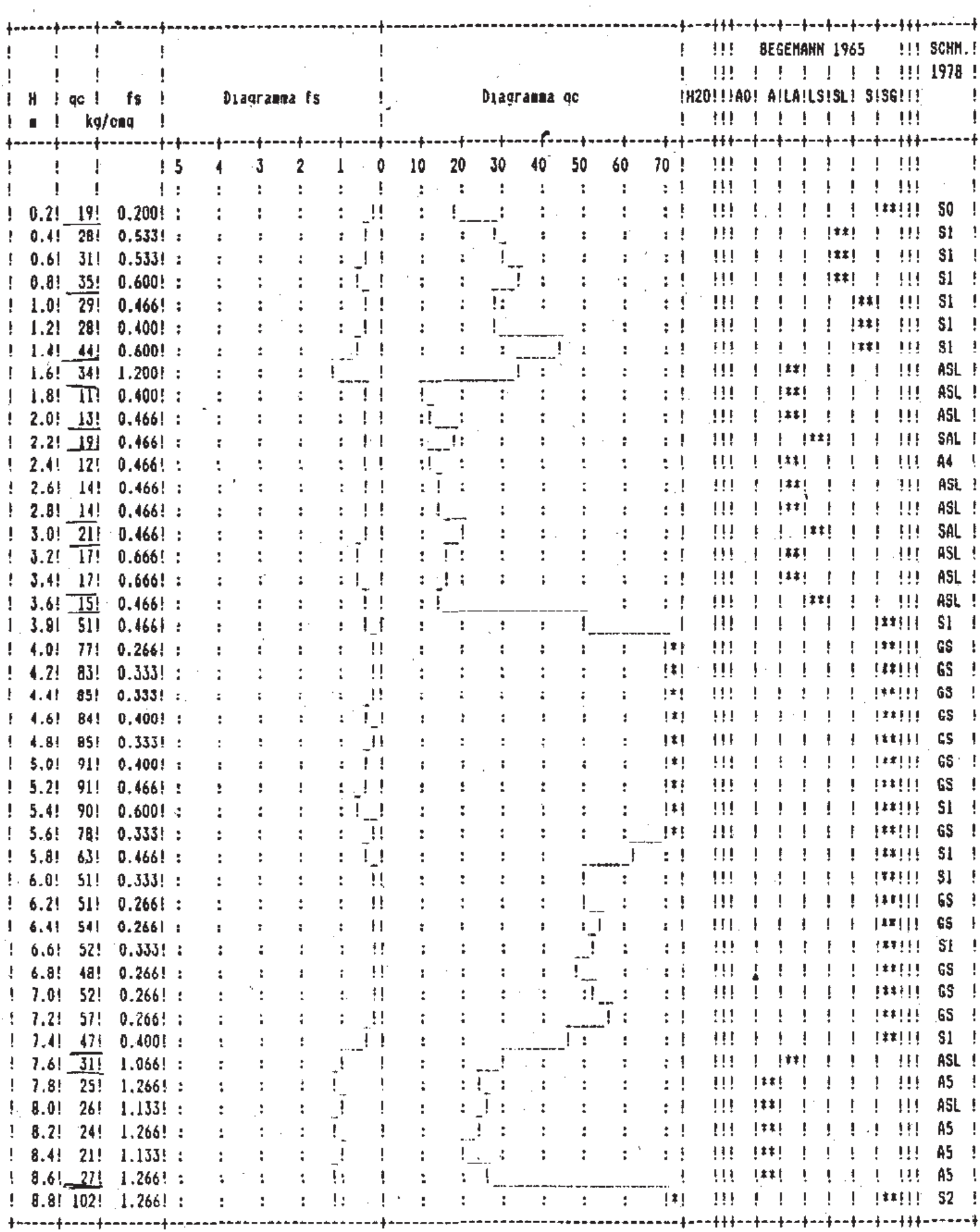
A PENETROMETRICA STATICA

CERTIFICATO N.RO : 50-AA IMPIANTO :RESTAURO FABBRICATO E RIPRISTINO CAVA

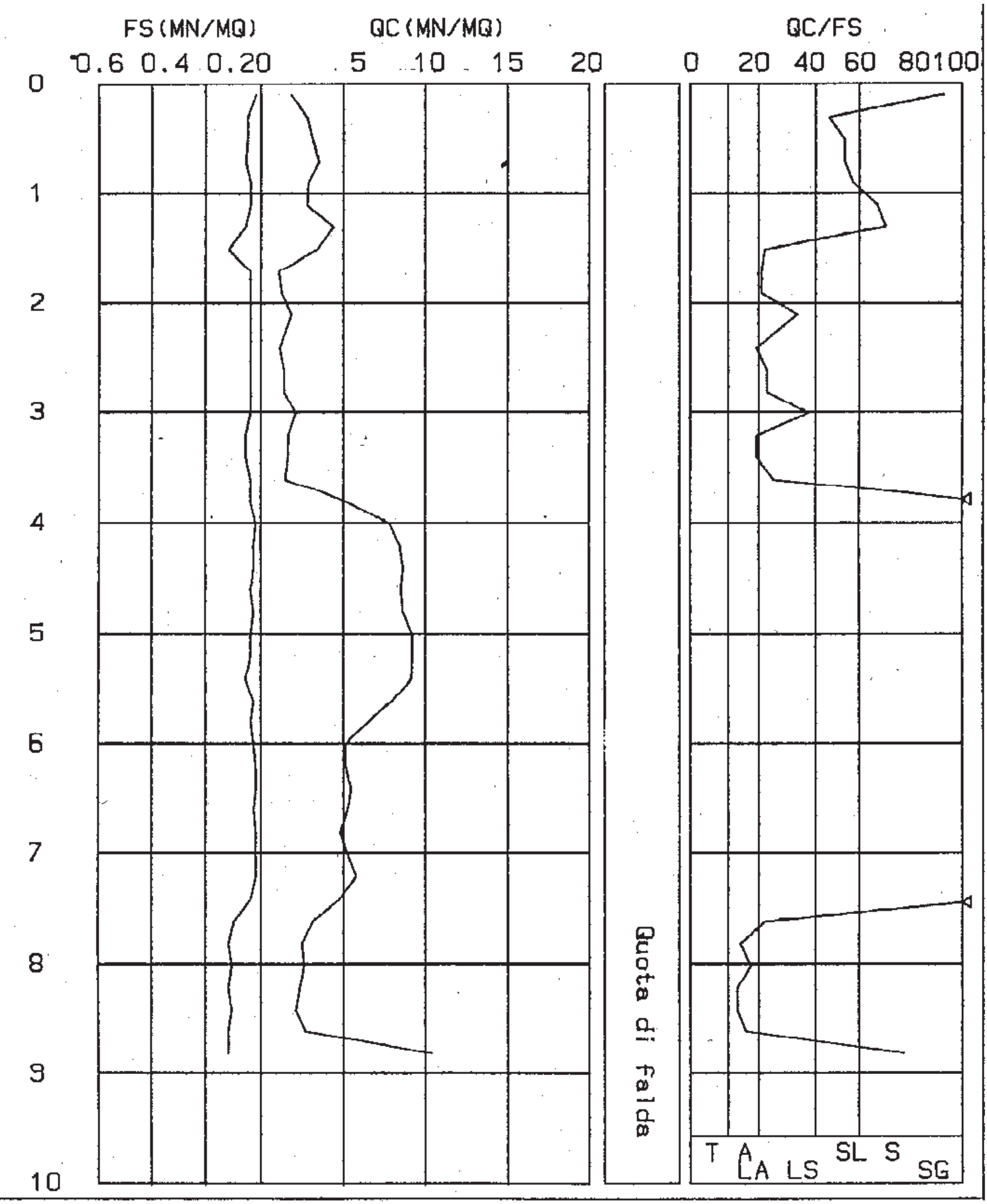
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	19	22	0.20	95.00										
0.40	28	36	0.53	52.83										
0.60	31	39	0.53	58.49										
0.80	35	44	0.60	58.33										
1.00	29	36	0.47	61.70										
1.20	28	34	0.40	70.00										
1.40	44	53	0.60	73.33										
1.60	34	52	1.20	28.33										
1.80	11	17	0.40	27.50										
2.00	13	20	0.47	27.66										
2.20	19	26	0.47	40.43										
2.40	12	19	0.47	25.53										
2.60	14	21	0.47	29.79										
2.80	14	21	0.47	29.79										
3.00	21	28	0.47	44.68										
3.20	17	27	0.67	25.37										
3.40	17	27	0.67	25.37										
3.60	15	22	0.47	31.91										
3.80	51	58	0.47	108.51										
4.00	77	81	0.27	285.19										
4.20	83	88	0.33	251.52										
4.40	85	90	0.33	257.58										
4.60	84	90	0.40	210.00										
4.80	85	90	0.33	257.58										
5.00	91	97	0.40	227.50										
5.20	91	98	0.47	193.62										
5.40	90	99	0.60	150.00										
5.60	78	83	0.33	236.36										
5.80	63	70	0.47	134.04										
6.00	51	56	0.33	154.55										
6.20	51	55	0.27	188.89										
6.40	54	58	0.27	200.00										
6.60	52	57	0.33	157.58										
6.80	48	52	0.27	177.78										
7.00	52	56	0.27	192.59										
7.20	57	61	0.27	211.11										
7.40	47	53	0.40	117.50										
7.60	31	47	1.07	28.97										
7.80	25	44	1.27	19.69										
8.00	26	43	1.13	23.01										
8.20	24	43	1.27	18.90										
8.40	21	38	1.13	18.58										
8.60	27	46	1.27	21.26										
8.80	102	121	1.27	80.31										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE


H m
qc kg/cmq
fs
Diagramma fs
5 4 3 2 1 0
Diagramma qc
10 20 30 40 50 60 70
BEGEMANN 1965
SCHM. 1978
H2O A0 A LA LS SL S SG
0.2 19 0.200 SO
0.4 28 0.533 SI
0.6 31 0.533 SI
0.8 35 0.600 SI
1.0 29 0.466 SI
1.2 28 0.400 SI
1.4 44 0.600 SI
1.6 34 1.200 ASL
1.8 11 0.400 ASL
2.0 13 0.466 ASL
2.2 19 0.466 SAL
2.4 12 0.466 A4
2.6 14 0.466 ASL
2.8 14 0.466 ASL
3.0 21 0.466 SAL
3.2 17 0.666 ASL
3.4 17 0.666 ASL
3.6 15 0.466 ASL
3.8 51 0.466 SI
4.0 77 0.266 GS
4.2 83 0.333 GS
4.4 85 0.333 GS
4.6 84 0.400 GS
4.8 85 0.333 GS
5.0 91 0.400 GS
5.2 91 0.466 GS
5.4 90 0.600 SI
5.6 78 0.333 GS
5.8 63 0.466 SI
6.0 51 0.333 SI
6.2 51 0.266 GS
6.4 54 0.266 GS
6.6 52 0.333 SI
6.8 48 0.266 GS
7.0 52 0.266 GS
7.2 57 0.266 GS
7.4 47 0.400 SI
7.6 31 1.066 ASL
7.8 25 1.266 A5
8.0 26 1.133 ASL
8.2 24 1.266 A5
8.4 21 1.133 A5
8.6 27 1.266 A5
8.8 102 1.266 S2

1389


FS(MN/MQ)
0.6 0.4 0.20
QC(MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

PROVA PENETROMETRICA STATICA

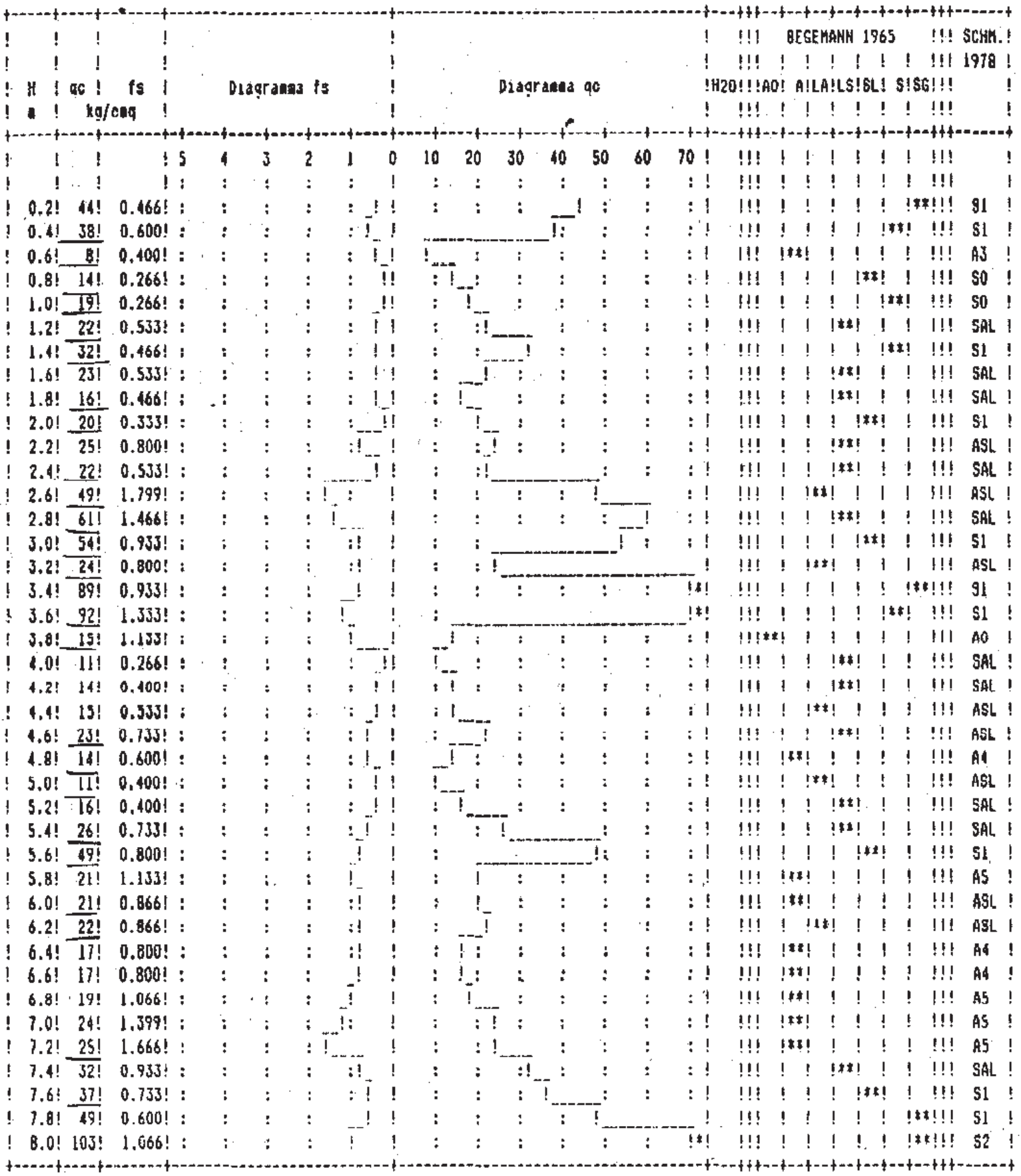
CERTIFICATO N.RO : S1-AA IMPIANTO :RESTAURO FABBRICATO E RIPRISTINO CAVA

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	44	51	0.47	93.62										
0.40	38	47	0.60	63.33										
0.60	8	14	0.40	20.00										
0.80	14	18	0.27	51.85										
1.00	19	23	0.27	70.37										
1.20	22	30	0.53	41.51										
1.40	32	39	0.47	68.09										
1.60	23	31	0.53	43.40										
1.80	16	25	0.47	34.04										
2.00	20	25	0.33	60.61										
2.20	25	37	0.80	31.25										
2.40	22	30	0.53	41.51										
2.60	49	76	1.80	27.22										
2.80	61	83	1.47	41.50										
3.00	54	68	0.93	58.06										
3.20	24	36	0.80	30.00										
3.40	89	103	0.93	95.70										
3.60	92	112	1.33	69.17										
3.80	15	32	1.13	13.27										
4.00	11	15	0.27	40.74										
4.20	14	20	0,40	35.00										
4.40	15	23	0.53	28.30										
4.60	23	34	0.73	31.51										
4.80	14	23	0.60	23.33										
5.00	11	17	0.40	27.50										
5.20	16	22	0.40	40.00										
5.40	26	37	0.73	35.62										
5.60	49	61	0.80	61.25										
5.80	21	38	1.13	18.58										
6.00	21	34	0.87	24.14										
6.20	22	35	0.87	25.29										
6.40	17	29	0.80	21.25										
6.60	17	29	0.80	21.25										
6.80	19	35	1.07	17.76										
7.00	24	45	1.40	17.14										
7.20	25	50	1.67	14.97										
7.40	32	46	0.93	34.41										
7.60	37	48	0.73	50.68										
7.80	49	58	0.60	81.67										
8.00	103	119	1.07	96.26										

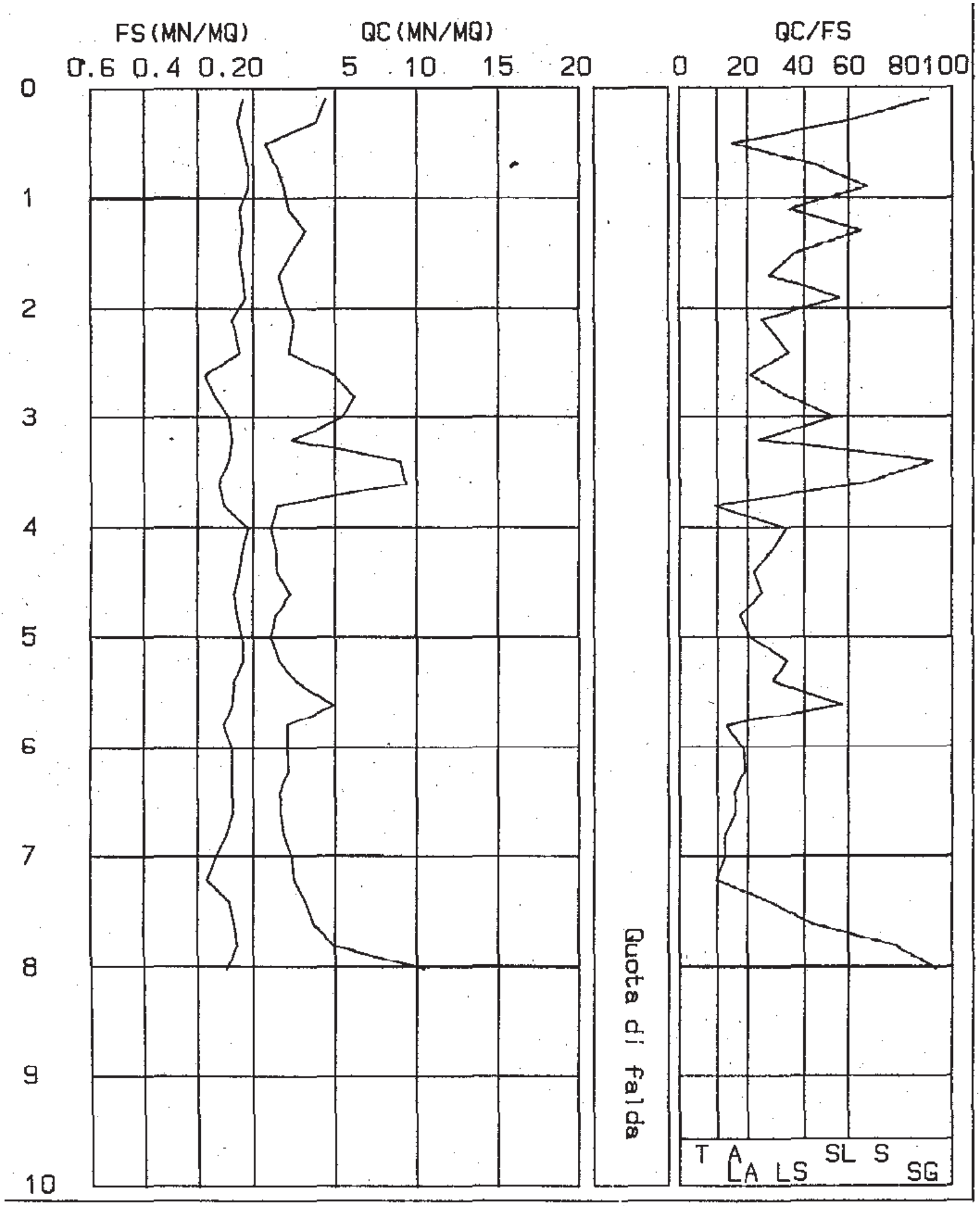
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

1390


BEGEMANN 1965
SCHM. 1978
H a
qc kg/cmq
fs
Diagramma fs
Diagramma qc
H2O
AO
A
LA
LS
SL
S
SG
5 4 3 2 1 0
10 20 30 40 50 60 70
0.2 44 0.466 SI
0.4 38 0.600 S1
0.6 8 0.400 A3
0.8 14 0.266 S0
1.0 19 0.266 S0
1.2 22 0.533 SAL
1.4 32 0.466 S1
1.6 23 0.533 SAL
1.8 16 0.466 SAL
2.0 20 0.333 S1
2.2 25 0.800 ASL
2.4 22 0.533 SAL
2.6 49 1.799 ASL
2.8 61 1.466 SAL
3.0 54 0.933 S1
3.2 24 0.800 ASL
3.4 89 0.933 SI
3.6 92 1.333 S1
3.8 15 1.133 AO
4.0 11 0.266 SAL
4.2 14 0.400 SAL
4.4 13 0.333 ASL
4.6 23 0.733 ASL
4.8 14 0.600 A4
5.0 11 0.400 ASL
5.2 16 0.400 SAL
5.4 26 0.733 SAL
5.6 49 0.800 S1
5.8 21 1.133 A5
6.0 21 0.866 ASL
6.2 22 0.866 ASL
6.4 17 0.800 A4
6.6 17 0.800 A4
6.8 19 1.066 A5
7.0 24 1.399 A5
7.2 25 1.666 A5
7.4 32 0.933 SAL
7.6 37 0.733 S1
7.8 49 0.600 S1
8.0 103 1.066 S2

1390


FS (MN/MQ)
0.6 0.4 0.2 0
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80 100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

A PENETROMETRICA STATICA

CERTIFICATO N.RO : S2-AA IMPIANTO :RESTAURO FABBRICATO E RIPRISTINO CAVA

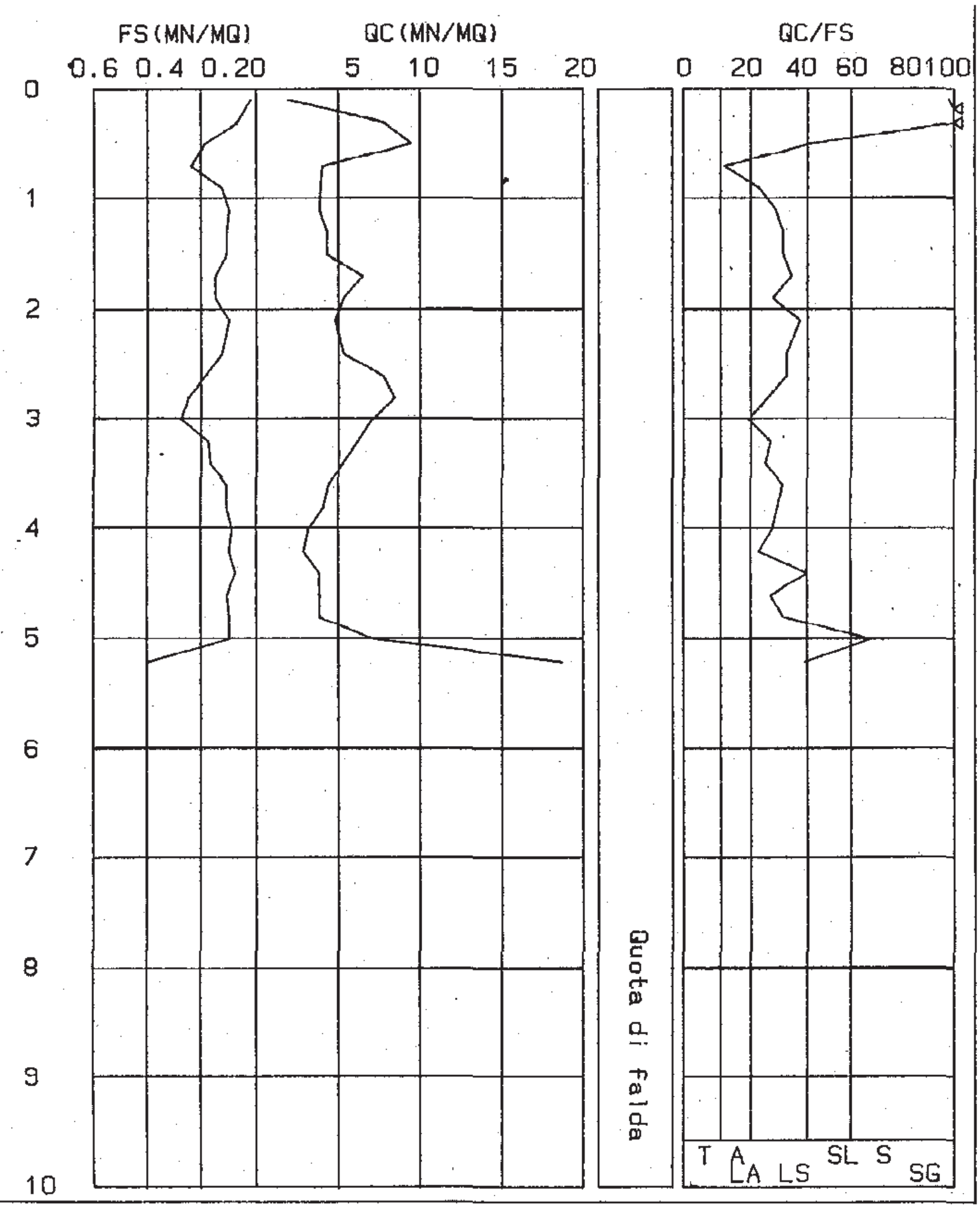
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	20	23	0.20	100.00										
0.40	77	98	0.73	105.48										
0.60	93	122	1.93	48.19										
0.80	40	76	2.40	16.67										
1.00	39	59	1.33	29.32										
1.20	38	54	1.07	35.51										
1.40	43	60	1.13	38.05										
1.60	43	60	1.13	38.05										
1.80	64	87	1.53	41.83										
2.00	53	76	1.53	34.64										
2.20	48	64	1.07	44.86										
2.40	53	73	1.33	39.85										
2.60	76	105	1.93	39.38										
2.80	83	121	2.53	32.81										
3.00	70	112	2.80	25.00										
3.20	61	88	1.80	33.89										
3.40	52	77	1.67	31.14										
3.60	44	61	1.13	38.94										
3.80	41	58	1.13	36.28										
4.00	32	46	0,93	34.41										
4.20	29	44	1.00	29.00										
4.40	38	50	0.80	47.50										
4.60	38	55	1.13	33.63										
4.80	38	53	1.00	38.00										
5.00	71	86	1.00	71.00										
5.20	184	243	3.93	46.82										

LEGENDA ': PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 10 20 30 40 50 60 70	BEGEMANN 1965 H2O	AO	A	LA	LS	SL	S	SG	SCHM. 1978
0.2	20	0.200											SL
0.4	77	0.733											SL
0.6	93	1.933											SL
0.8	40	2.400											AS
1.0	39	1.333											ASL
1.2	38	1.066											SAL
1.4	43	1.133											SAL
1.6	43	1.133											SAL
1.8	64	1.533											SAL
2.0	53	1.533											SAL
2.2	48	1.066											SAL
2.4	53	1.333											SAL
2.6	76	1.933											SAL
2.8	83	2.533											SAL
3.0	70	2.799											ASL
3.2	61	1.799											SAL
3.4	52	1.666											SAL
3.6	44	1.133											SAL
3.8	41	1.133											SAL
4.0	32	0.933											SAL
4.2	29	1.000											ASL
4.4	36	0.800											SAL
4.6	38	1.133											SAL
4.8	38	1.000											SAL
5.0	71	1.000											SL
5.2	184	3.933											LS

1391

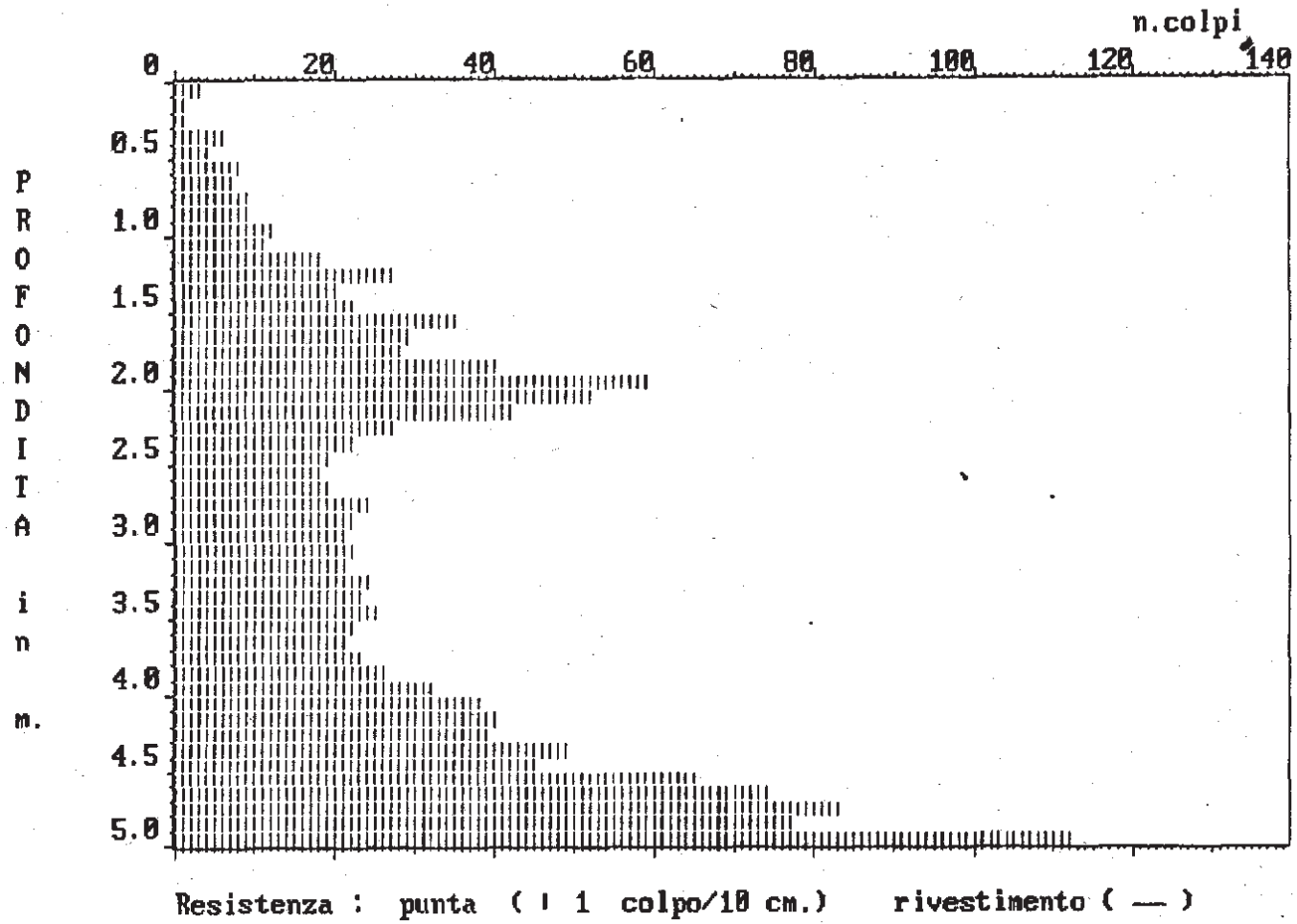

FS (MN/MQ)
0.6 0.4 0.20
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	3	11	2.60	18	53
0.20	1	4	2.70	19	56
0.30	1	4	2.80	24	70
0.40	6	22	2.90	22	65
0.50	4	15	3.00	21	62
0.60	8	29	3.10	22	60
0.70	7	25	3.20	21	57
0.80	9	32	3.30	24	65
0.90	9	32	3.40	23	63
1.00	12	43	3.50	25	68
1.10	11	36	3.60	22	59
1.20	16	59	3.70	21	57
1.30	27	86	3.80	23	62
1.40	20	65	3.90	26	70
1.50	22	72	4.00	32	86
1.60	35	113	4.10	38	96
1.70	29	93	4.20	40	101
1.80	28	90	4.30	39	98
1.90	40	129	4.40	49	123
2.00	59	190	4.50	45	113
2.10	52	155	4.60	65	162
2.20	42	125	4.70	74	185
2.30	27	80	4.80	83	207
2.40	22	65	4.90	77	192
2.50	19	57	5.00	112	280

telef. (051) 42.440 - 42.5
c.f. e p. I.V.A. 00455137 05

PROVA PENETROMETRICA [S.C.P.T.] N. 1



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

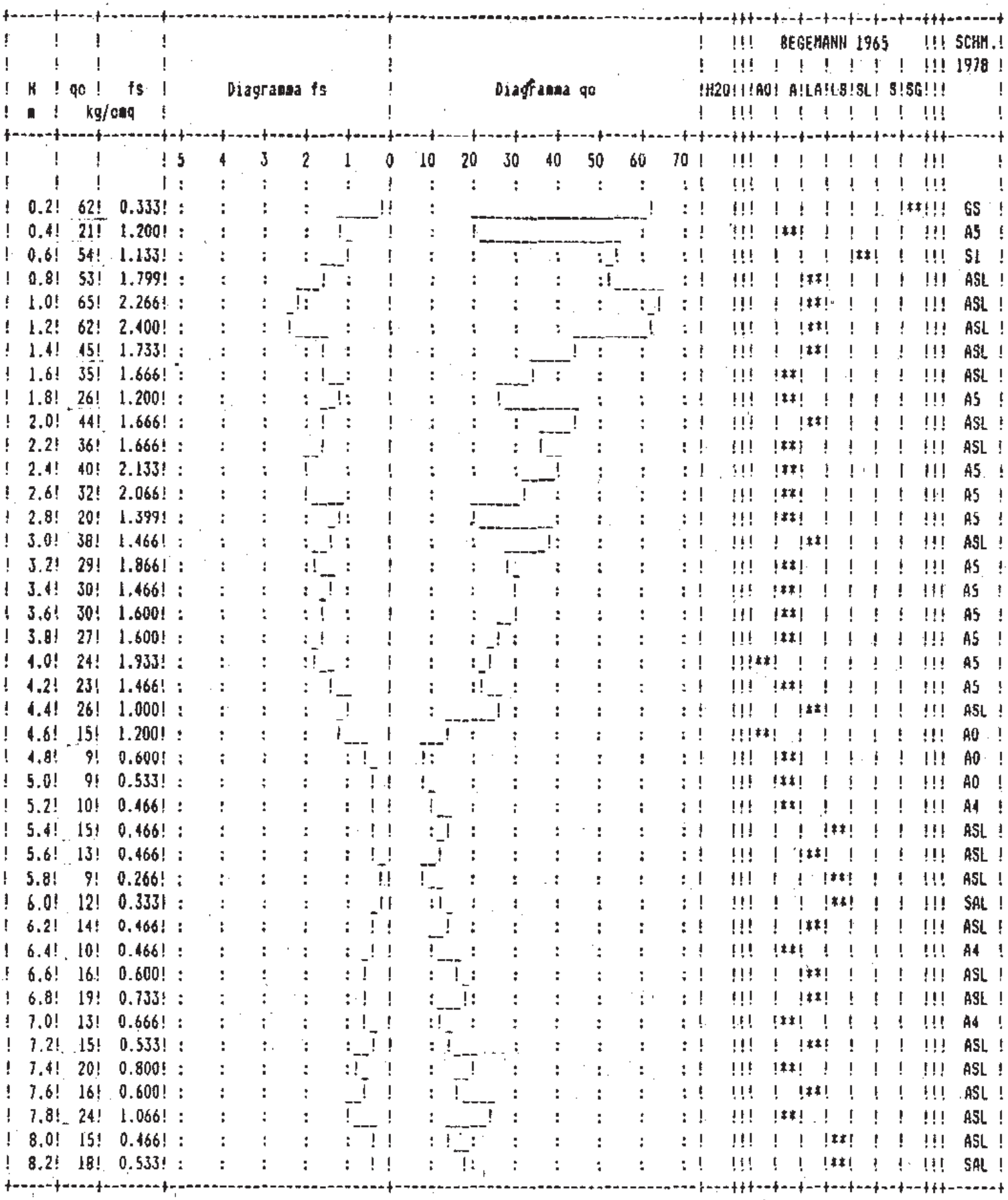
PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 105-AA CANTIERE :DAMOLIZIONE E RICOSTRUZIONE FABBRICATO

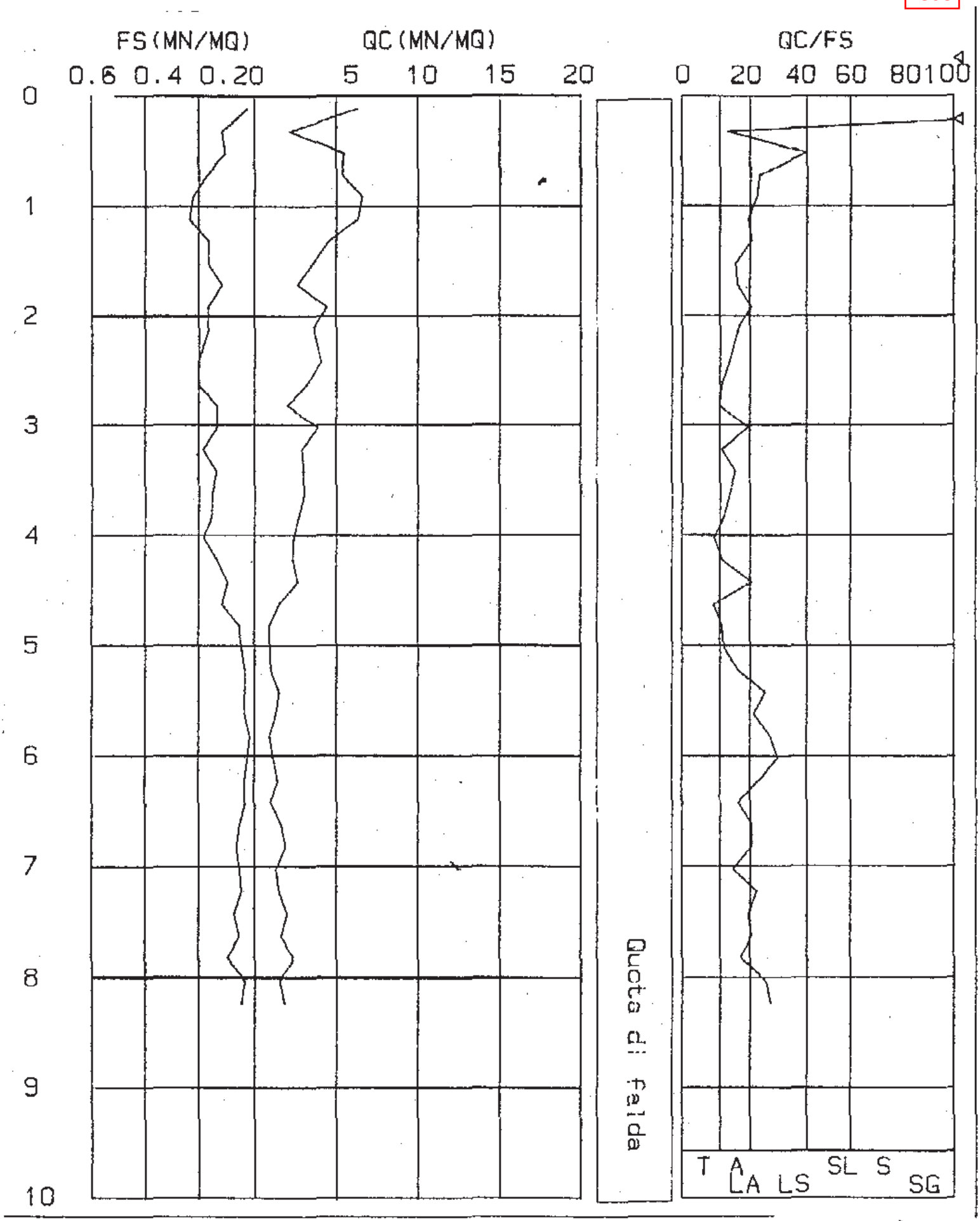
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	62	67	0.33	187.88										
0.40	21	39	1.20	17.50										
0.60	54	71	1.13	47.79										
0.80	53	80	1.80	29.44										
1.00	65	99	2.27	28.63										
1.20	62	98	2.40	25.83										
1.40	45	71	1.73	26.01										
1.60	35	60	1.67	20.96										
1.80	26	44	1.20	21.67										
2.00	44	69	1.67	26.35										
2.20	36	61	1.67	21.56										
2.40	40	72	2.13	18.78										
2.60	32	63	2.07	15.46										
2.80	20	41	1.40	14.29										
3.00	38	60	1.47	25.85										
3.20	29	57	1.87	15.51										
3.40	30	52	1.47	20.41										
3.60	30	54	1.60	18.75										
3.80	27	51	1.60	16.88										
4.00	24	53	1.93	12.44										
4.20	23	45	1.47	15.65										
4.40	26	41	1.00	26.00										
4.60	15	33	1.20	12.50										
4.80	9	18	0.60	15.00										
5.00	9	17	0.53	16.98										
5.20	10	17	0.47	21.28										
5.40	15	22	0.47	31.91										
5.60	13	20	0.47	27.66										
5.80	9	13	0.27	33.33										
6.00	12	17	0.33	36.36										
6.20	14	21	0.47	29.79										
6.40	10	17	0.47	21.28										
6.60	16	25	0.60	26.67										
6.80	19	30	0.73	26.03										
7.00	13	23	0.67	19.40										
7.20	15	23	0.53	28.30										
7.40	20	32	0.80	25.00										
7.60	16	25	0.60	26.67										
7.80	24	40	1.07	22.43										
8.00	15	22	0.47	31.91										
8.20	18	26	0.53	33.96										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO


BEGEMANN 1965
SCHM. 1978
Diagramma fs
Diagramma qo
N
m
qc
kg/cmq
fs
H2O
A0
A
LA
LB
SL
SG
5 4 3 2 1 0 10 20 30 40 50 60 70
0.2 62 0.333 GS
0.4 21 1.200 A5
0.6 54 1.133 SI
0.8 53 1.799 ASL
1.0 65 2.266 ASL
1.2 62 2.400 ASL
1.4 45 1.733 ASL
1.6 35 1.666 ASL
1.8 26 1.200 A5
2.0 44 1.666 ASL
2.2 36 1.666 ASL
2.4 40 2.133 A5
2.6 32 2.066 A5
2.8 20 1.399 A5
3.0 38 1.466 ASL
3.2 29 1.866 A5
3.4 30 1.466 A5
3.6 30 1.600 A5
3.8 27 1.600 A5
4.0 24 1.933 A5
4.2 23 1.466 A5
4.4 26 1.000 ASL
4.6 15 1.200 A0
4.8 9 0.600 A0
5.0 9 0.533 A0
5.2 10 0.466 A4
5.4 15 0.466 ASL
5.6 13 0.466 ASL
5.8 9 0.266 ASL
6.0 12 0.333 SAL
6.2 14 0.466 ASL
6.4 10 0.466 A4
6.6 16 0.600 ASL
6.8 19 0.733 ASL
7.0 13 0.666 A4
7.2 15 0.533 ASL
7.4 20 0.800 ASL
7.6 16 0.600 ASL
7.8 24 1.066 ASL
8.0 15 0.466 ASL
8.2 18 0.533 SAL

1393


FS(MN/MQ)
0.6 0.4 0.2
QC(MN/MQ)
0 5 10 15 20
QC/FS
0 20 40 60 80 100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

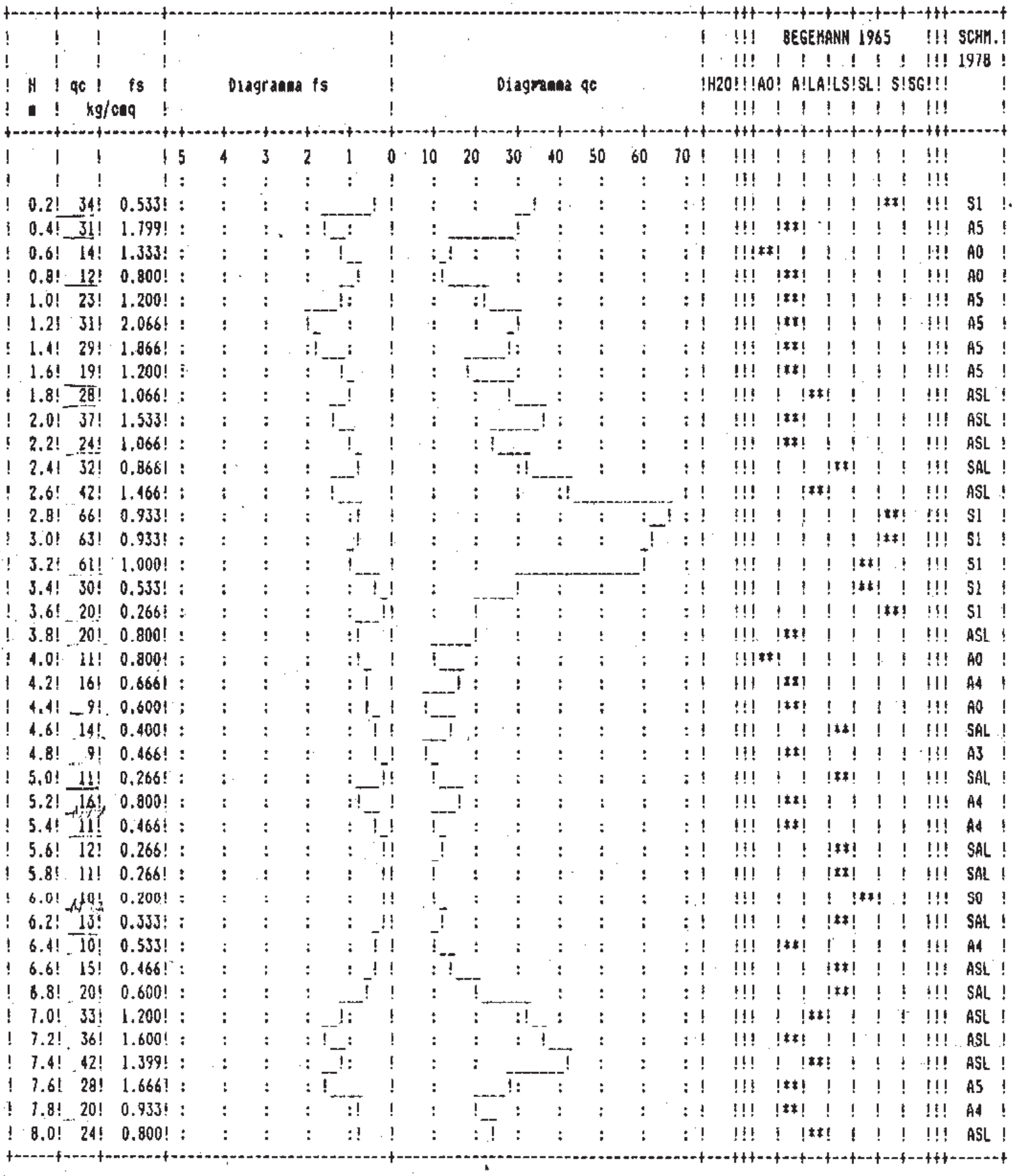
PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 106-AA CANTIERE :DEMOLIZIONE E RICOSTRUZIONE FABBRICATO

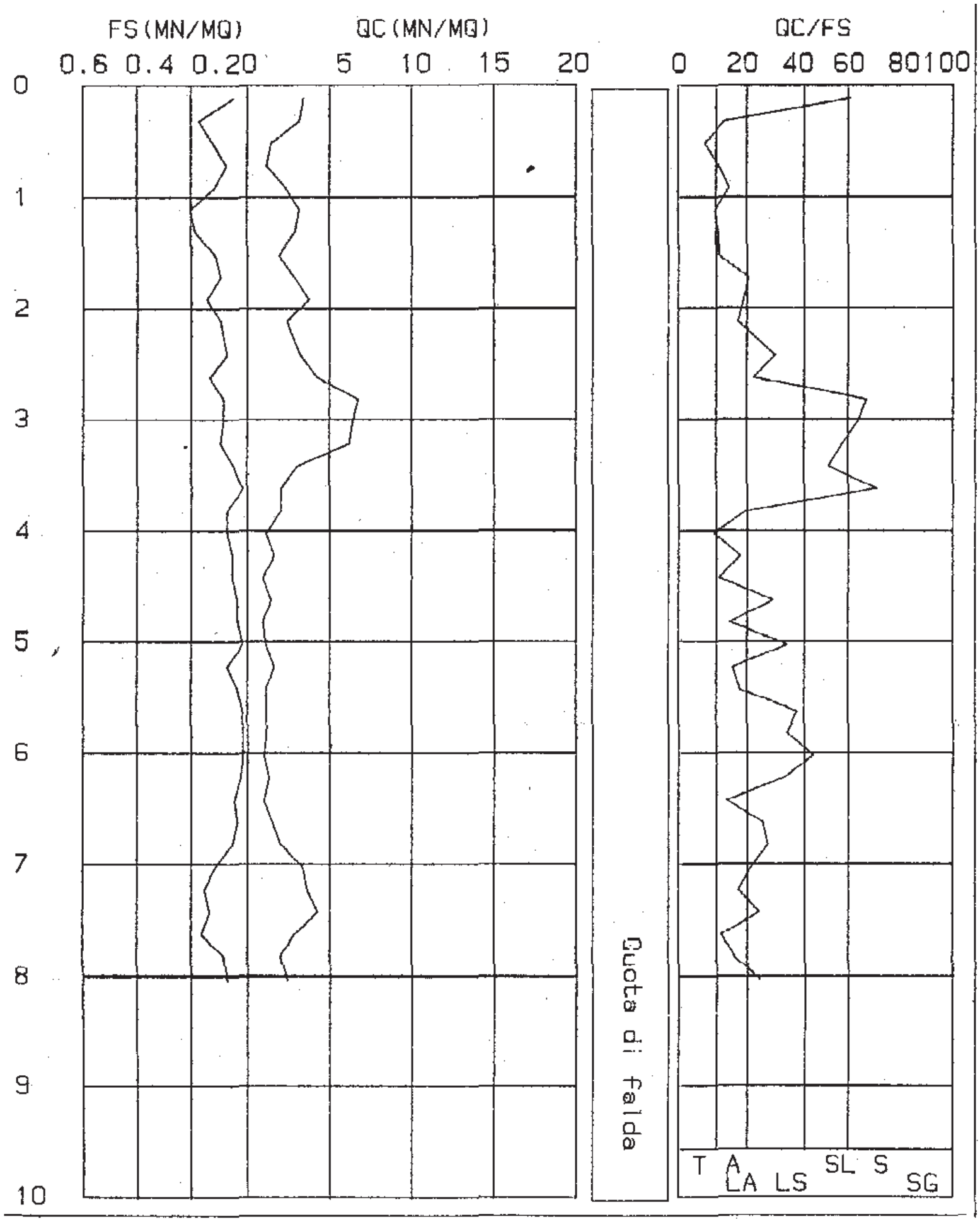
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	34	42	0.53	64.15										
0.40	31	58	1.80	17.22										
0.60	14	34	1.33	10.53										
0.80	12	24	0.80	15.00										
1.00	23	41	1.20	19.17										
1.20	31	62	2.07	14.98										
1.40	29	57	1.87	15.51										
1.60	19	37	1.20	15.83										
1.80	28	44	1.07	26.17										
2.00	37	60	1.53	24.18										
2.20	24	40	1.07	22.43										
2.40	32	45	0.87	36.78										
2.60	42	64	1.47	28.57										
2.80	66	80	0.93	70.97										
3.00	63	77	0.93	67.74										
3.20	61	76	1.00	61.00										
3.40	30	38	0.53	56.60										
3.60	20	24	0.27	74.07										
3.80	20	32	0.80	25.00										
4.00	11	23	0.80	13.75										
4.20	16	26	0.67	23.88										
4.40	9	18	0.60	15.00										
4.60	14	20	0.40	35.00										
4.80	9	16	0.47	19.15										
5.00	11	15	0.27	40.74										
5.20	16	28	0.80	20.00										
5.40	11	18	0.47	23.40										
5.60	12	16	0.27	44.44										
5.80	11	15	0.27	40.74										
6.00	10	13	0.20	50.00										
6.20	13	18	0.33	39.39										
6.40	10	18	0.53	18.87										
6.60	15	22	0.47	31.91										
6.80	20	29	0.60	33.33										
7.00	33	51	1.20	27.50										
7.20	36	60	1.60	22.50										
7.40	42	63	1.40	30.00										
7.60	28	53	1.67	16.77										
7.80	20	34	0.93	21.51										
8.00	24	36	0.80	30.00										

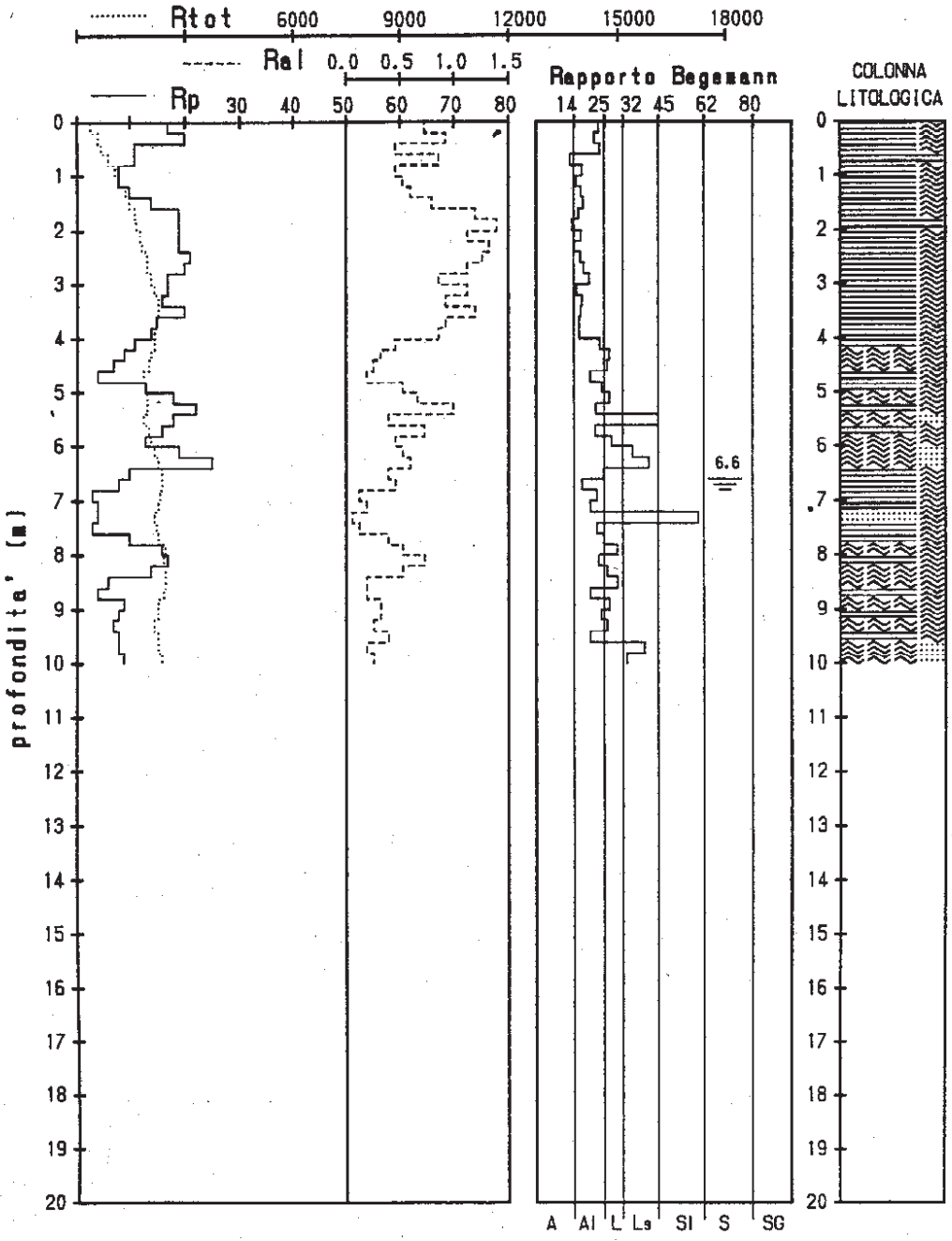
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO


BEGEMANN 1965
SCHM. 1978
H m
qc kg/cmq
fs
Diagramma fs
Diagramma qc
5 4 3 2 1 0 10 20 30 40 50 60 70
H2O
A0
A
LA
LS
SL
S
SG

1394

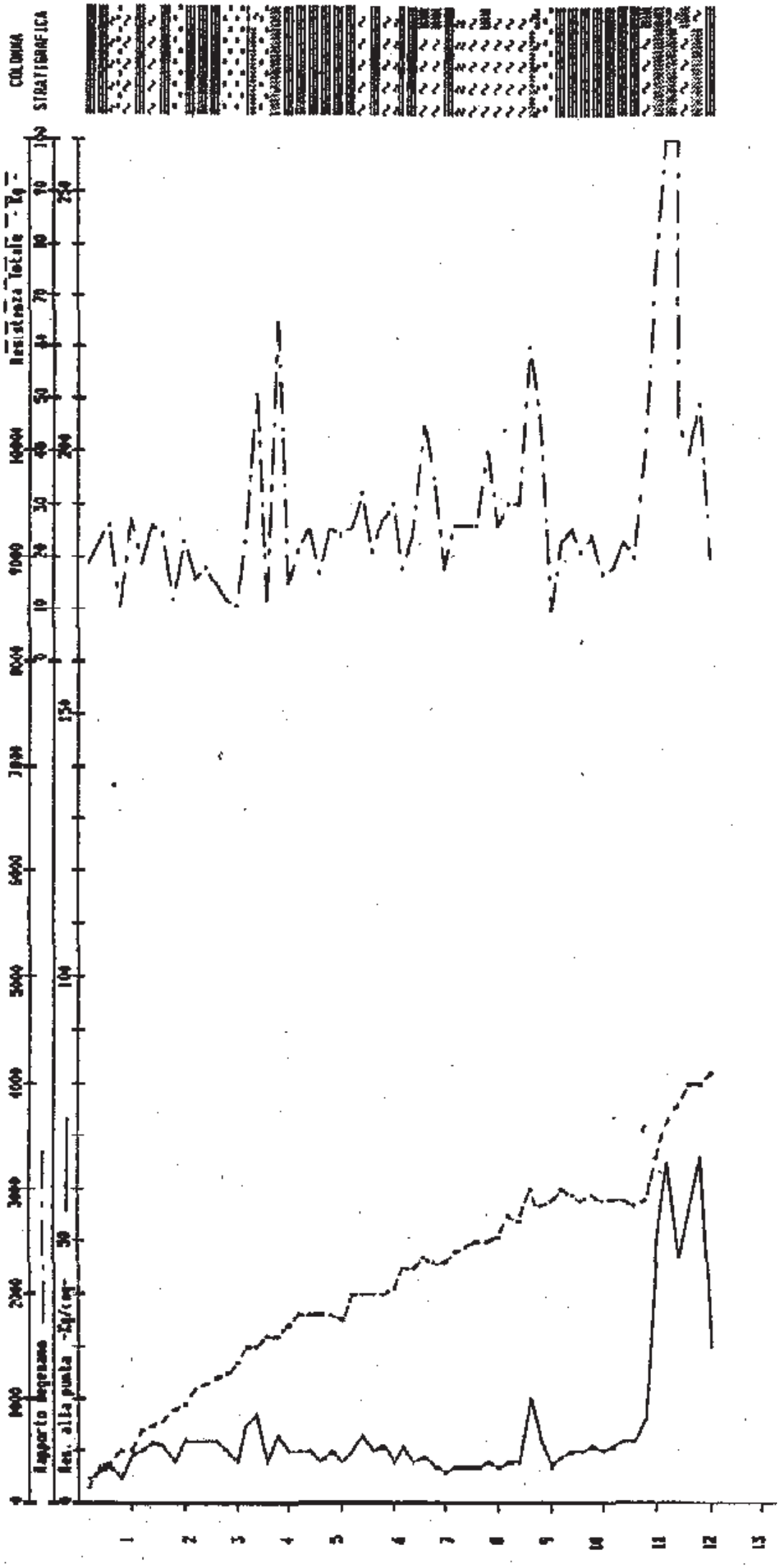

FS (MN/MQ)
0.6 0.4 0.20
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG



Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	170	280	400	17	0.73	23	4.31	.	.	0.85	11.8
0.4	200	340	600	20	0.93	21	4.67	.	.	1.00	10.0
0.6	110	180	700	11	0.47	24	4.24	.	.	0.55	18.2
0.8	110	240	900	11	0.87	13	7.88	.	.	0.55	22.7
1.0	80	150	1100	8	0.47	17	5.83	.	.	0.40	25.0
1.2	80	160	1200	8	0.53	15	6.67	.	.	0.40	25.0
1.4	100	190	1400	10	0.60	17	6.00	.	.	0.50	20.0
1.6	140	260	1500	14	0.80	17	5.71	.	.	0.70	14.3
1.8	190	370	1650	19	1.20	16	6.32	.	.	0.95	10.5
2.0	190	400	1700	19	1.40	14	7.37	.	.	0.95	10.5
2.2	190	360	1800	19	1.13	17	5.96	.	.	0.95	10.5
2.4	190	390	1850	19	1.33	14	7.02	.	.	0.95	10.5
2.6	210	400	2000	21	1.27	17	6.03	.	.	1.05	9.5
2.8	200	370	2000	20	1.13	18	5.67	.	.	1.00	10.0
3.0	170	300	2100	17	0.87	20	5.10	.	.	0.85	11.8
3.2	170	340	2200	17	1.13	15	6.67	.	.	0.85	11.8
3.4	160	300	2300	16	0.93	17	5.83	.	.	0.80	12.5
3.6	200	380	2300	20	1.20	17	6.00	.	.	1.00	10.0
3.8	150	290	2250	15	0.93	16	6.22	.	.	0.75	13.3
4.0	140	270	2200	14	0.87	16	6.19	.	.	0.70	14.3
4.2	110	180	2200	11	0.47	24	4.24	.	.	0.55	18.2
4.4	90	140	2100	9	0.33	27	3.70	.	.	0.45	27.8
4.6	70	110	2050	7	0.27	26	3.81	.	.	0.35	35.7
4.8	40	70	1900	4	0.20	20	5.00	.	.	0.20	50.0
5.0	130	210	1950	13	0.53	24	4.10	.	.	0.65	15.4
5.2	180	280	2000	18	0.67	27	3.70	.	.	0.90	13.9
5.4	220	370	2000	22	1.00	22	4.55	.	.	1.10	9.1
5.6	180	240	1900	18	0.40	45	2.22	23	10	.	27.8
5.8	160	270	2050	16	0.73	22	4.58	.	.	0.80	12.5
6.0	130	200	2100	13	0.47	28	3.59	.	.	0.65	19.2
6.2	190	270	2200	19	0.53	36	2.81	24	10	.	17.5
6.4	250	340	2300	25	0.60	42	2.40	24	17	.	13.3
6.6	100	160	2400	10	0.40	25	4.00	.	.	0.50	25.0
6.8	80	150	2400	8	0.47	17	5.83	.	.	0.40	25.0
7.0	30	50	2350	3	0.13	22	4.44	.	.	0.15	66.7
7.2	40	70	2300	4	0.20	20	5.00	.	.	0.20	50.0
7.4	40	50	2200	4	0.07	60	1.67	19	10	.	125.0
7.6	30	50	2250	3	0.13	22	4.44	.	.	0.15	66.7
7.8	100	160	2300	10	0.40	25	4.00	.	.	0.50	25.0
8.0	160	240	2500	16	0.53	30	3.33	.	.	0.80	15.6
8.2	170	280	2450	17	0.73	23	4.31	.	.	0.85	11.8
8.4	140	220	2500	14	0.53	26	3.81	.	.	0.70	17.9
8.6	60	90	2500	6	0.20	30	3.33	.	.	0.30	41.7
8.8	40	70	2450	4	0.20	20	5.00	.	.	0.20	50.0
9.0	90	140	2300	9	0.33	27	3.70	.	.	0.45	27.8
9.2	80	130	2300	8	0.33	24	4.17	.	.	0.40	25.0
9.4	70	110	2200	7	0.27	26	3.81	.	.	0.35	35.7
9.6	80	140	2300	8	0.40	20	5.00	.	.	0.40	25.0
9.8	80	110	2300	8	0.20	40	2.50	20	10	.	41.7
10.0	90	130	2400	9	0.27	34	2.96	20	10	.	37.0

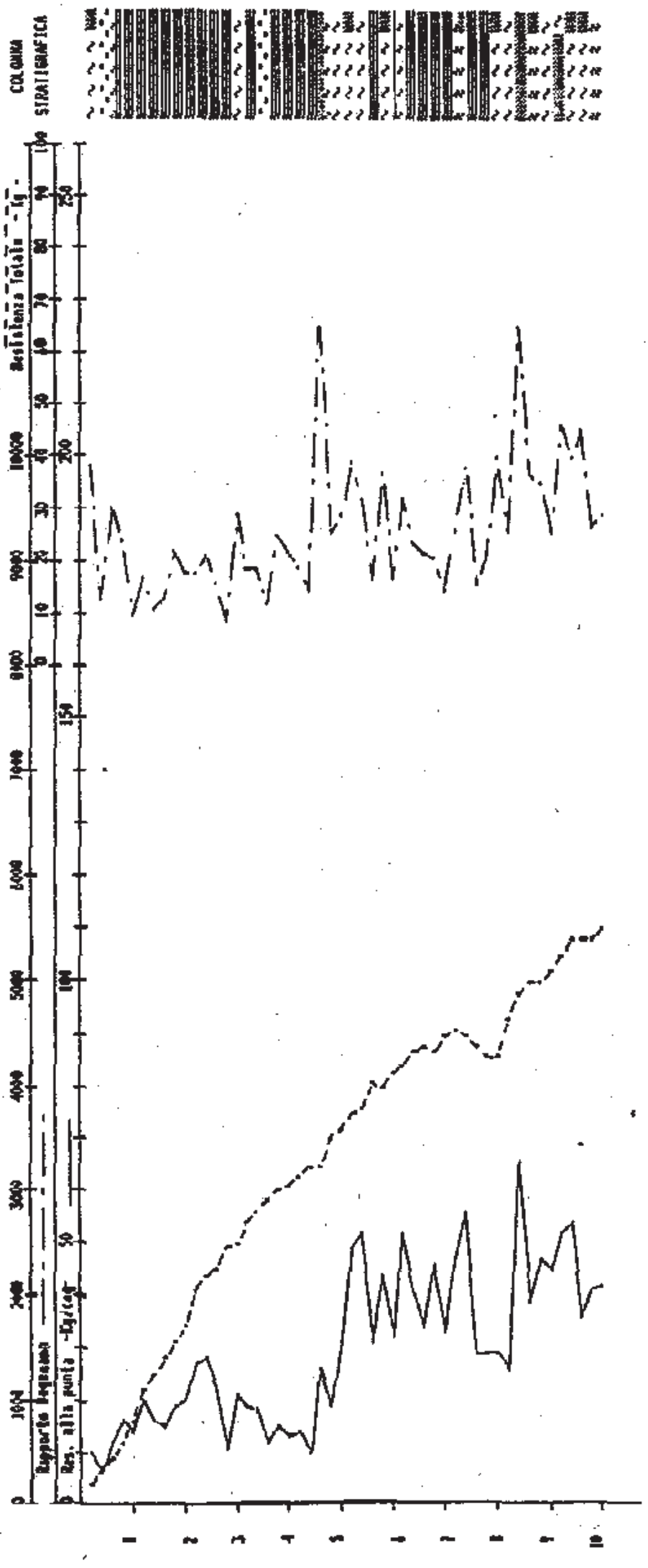
PROFONDITA' [metri]	letture di campagna: Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati: Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Ir [%]	Cu [Kg/cmq]	av [cmq/t]
.2	50	90	150	40	.26	19	100			.2	29
.4	40	100	250	60	.26	23	210			.28	25.93
.6	70	110	400	40	.26	26	330			.28	23.81
.8	50	120	500	70	.46	18	450			.2	29
1	90	140	500	50	.33	27	410			.36	21.16
1.2	100	180	700	80	.53	19	600			.4	20.3
1.4	120	190	750	70	.46	26	630			.48	19.13
1.6	110	180	800	70	.46	24	690			.44	19.64
1.8	80	180	900	100	.66	12	820			.32	22.29
2	120	200	950	80	.53	23	830			.48	19.13
2.2	120	230	1100	110	.73	16	980			.48	19.13
2.4	120	220	1150	100	.66	18	1030			.48	19.13
2.6	120	240	1200	120	.8	15	1080			.48	19.13
2.8	100	220	1250	120	.8	12	1150			.4	20.3
3	80	190	1350	110	.73	11	1270			.32	22.29
3.2	150	250	1500	100	.66	23	1350			.6	18.14
3.4	170	220	1500	50	.33	51	1330	25	15		17.75
3.6	80	180	1600	100	.66	12	1520			.32	22.29
3.8	130	160	1600	30	.2	65	1470	27	12		18.72
4	100	200	1700	100	.66	15	1600			.4	20.3
4.2	100	170	1800	70	.46	21	1700			.4	20.3
4.4	100	160	1800	60	.4	25	1700			.4	20.3
4.6	80	150	1800	70	.46	17	1720			.32	22.29
4.8	100	160	1800	60	.4	25	1700			.4	20.3
5	80	130	1750	50	.33	24	1670			.32	22.29
5.2	100	160	2000	60	.4	25	1900			.4	20.3
5.4	130	190	2000	60	.4	32	1870			.52	18.72
5.6	100	170	2000	70	.46	21	1900			.4	20.3
5.8	110	170	2000	60	.4	27	1890			.44	19.64
6	80	120	2050	40	.26	30	1970			.32	22.29
6.2	110	200	2250	90	.6	18	2140			.44	19.64
6.4	80	130	2250	50	.33	24	2170			.32	22.29
6.6	90	120	2350	30	.2	45	2260			.36	21.16
6.8	70	100	2300	30	.2	35	2230			.28	23.81
7	60	110	2300	50	.33	18	2240			.26	25.93
7.2	70	110	2400	40	.26	26	2330			.28	23.81
7.4	70	110	2450	40	.26	26	2380			.28	23.81
7.6	70	100	2500	30	.2	35	2430			.28	23.81
7.8	80	110	2500	30	.2	40	2420			.32	22.29
8	70	110	2550	40	.26	26	2480			.28	23.81

PROFONDITA' [metri]	letture di campagna: Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati: Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Ir [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	80	120	2750	40	.26	30	2670			.32	22.29
8.4	80	120	2700	40	.26	30	2620			.32	22.29
8.6	200	250	3000	50	.33	60	2800	27	18		17.36
8.8	120	160	2850	40	.26	45	2730			.48	19.13
9	70	170	2900	100	.66	18	2830			.28	23.81
9.2	90	150	3000	60	.4	23	2910			.36	21.16
9.4	100	160	2950	60	.4	25	2850			.4	20.3
9.6	100	170	2900	70	.46	21	2800			.4	20.3
9.8	110	180	2950	70	.46	24	2840			.44	19.64
10	100	190	2900	90	.6	17	2800			.4	20.3
10.2	110	200	2900	90	.6	18	2790			.44	19.64
10.4	120	200	2900	80	.53	23	2780			.48	19.13
10.6	120	210	2850	90	.6	20	2730			.48	19.13
10.8	160	220	2900	60	.4	40	2740			.44	17.93
11	500	600	3300	100	.66	35	2800	30	38		12.57
11.2	650	720	3650	70	.46	139	3000	34	46		10.1
11.4	470	620	3800	150	1	47	3330	30	37		13.14
11.6	560	770	4000	210	1.4	40	3440			2.8	11.5
11.8	660	860	4000	200	1.33	49	3340	32	47		9.96
12	300	520	4100	220	1.46	20	3800			1.2	16.21


COLONNA STRATIGRAFICA
Resistenza Totale - Kg -
Rapporto Begemann
Res. alla punta - Kg/cm²

PROFONDITA' (metri)	letture di campagna Rpt (Kg)	Ral (Kg)	Rt (Kg)	valori derivati Rat-Rpt (Kg)	Ral (Kg/cmq)	Rp/Ral	Rt-Rpt (Kg)	FL (gradi)	Br (%)	Cu (Kg/cmq)	av (cmq/t)
.2	100	160	200	60	.26	38	100			.4	20,3
.4	60	130	350	90	.46	13	290			.24	25.93
.6	120	180	450	80	.4	30	330			.48	19.13
.8	160	260	600	100	.46	24	440			.64	17.93
1	140	350	800	210	1.4	10	660			.56	18.4
1.2	200	300	1100	100	1.2	17	900			.8	17.36
1.4	160	370	1250	210	1.4	11	1090			.64	17.93
1.6	150	320	1400	170	1.13	13	1250			.6	18.14
1.8	190	320	1550	130	.86	22	1360			.76	17.47
2	200	370	1700	170	1.13	18	1500			.8	17.36
2.2	270	500	2050	230	1.53	10	1780			1.08	16.6
2.4	280	480	2200	200	1.33	21	1920			1.12	16.48
2.6	220	420	2350	200	1.33	16	2030			.88	17.15
2.8	110	300	2450	190	1.26	9	2340			.44	19.64
3	210	320	2500	110	.73	29	2290			.84	17.25
3.2	190	340	2700	150	1	19	2510			.76	17.47
3.4	180	320	2800	140	.93	19	2620			.72	17.6
3.6	120	270	2900	150	1	12	2780			.48	19.13
3.8	150	260	3000	90	.6	25	2850			.4	18.14
4	130	220	3050	90	.6	22	2920			.52	18.72
4.2	140	250	3150	110	.73	19	3010			.56	18.4
4.4	100	200	3250	100	.66	15	3150			.4	20.3
4.6	260	320	3250	60	.4	65	2990	21	23		16.72
4.8	190	300	3500	110	.73	26	3310			.76	17.47
5	310	470	3600	160	1.06	29	3290			1.24	16.06
5.2	490	680	3750	190	1.26	39	3260			2.45	12.76
5.4	520	760	3800	240	1.6	32	3280			2.6	12.2
5.6	310	580	4050	270	1.8	17	3740			1.24	16.06
5.8	410	620	4000	180	1.2	37	3560			1.64	13.72
6	320	610	4150	290	1.93	17	3850			1.28	15.91
6.2	520	760	4200	240	1.6	32	3680			2.6	12.2
6.4	410	670	4350	260	1.73	24	3940			1.64	14.3
6.6	340	570	4400	230	1.53	22	4060			1.36	15.59
6.8	460	790	4350	330	2.2	21	3890			2.3	13.33
7	350	660	4500	330	2.2	15	4150			1.32	15.75
7.2	470	740	4550	270	1.8	26	4080			2.35	13.14
7.4	510	700	4500	220	1.46	30	3990			2.8	12.5
7.6	290	560	4400	270	1.8	16	4110			1.16	16.35
7.8	290	500	4300	210	1.4	21	4010			1.16	16.35
8	290	600	4300	310	.73	99	4010			1.16	16.35

PROFONDITA' (metri)	letture di campagna Rpt (Kg)	Ral (Kg)	Rt (Kg)	valori derivati Rat-Rpt (Kg)	Ral (Kg/cmq)	Rp/Ral	Rt-Rpt (Kg)	FL (gradi)	Br (%)	Cu (Kg/cmq)	av (cmq/t)
8.2	260	410	4650	150	1	26	4390			1.04	16.72
8.4	250	400	4700	150	1	63	4250	32	46		18,1
8.6	390	550	5000	160	1.06	37	4610			1.56	14.69
8.8	470	670	5000	200	1.33	35	4530			2.35	13.14
9	450	710	5100	260	1.73	26	4650			1.8	13.53
9.2	320	490	5250	170	1.13	46	4730	34	39		12.2
9.4	540	740	5400	200	1.33	40	4860			2.7	11.85
9.6	360	480	5450	120	.8	45	5090			1.44	15.24
9.8	410	640	5500	230	1.53	27	4990			1.64	14.3
10	420	660	5500	220	1.46	29	5080			1.68	14.11


COLONNA
STRATIGRAFICA

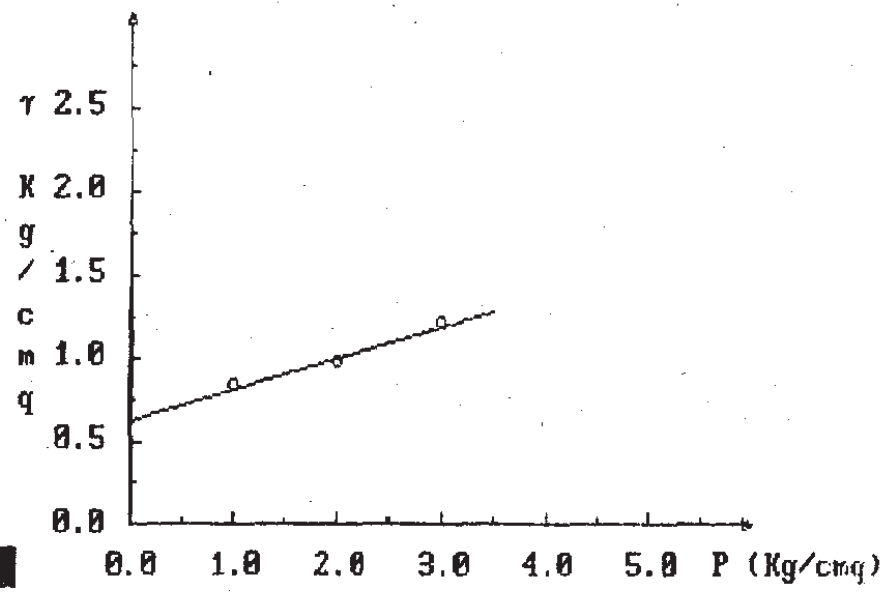
0.0 – 1.50 mt	Terreno vegetale e suolo pedologico agricolo
1.50 – 3.50 mt	Argilla gialla limosa asciutta e compatta
3.50 – 6.0 mt	Limo sabbioso giallo addensato
6.0 – 8.0 mt	Sabbia gradata con ciottoli centimetrici arrotondati, frequenti nell'intervallo 7 – 8 mt
8.0 – 10.50 mt	Limo giallo compatto a tratti sabbioso

c.f. e p. I.V.A. 0045137 050 8

TAGLIO RAPIDO NON DRENATO

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.830
2.000	0.980
3.000	1.210



φ = 11° c = 0.61 Kg/cmq

Sondaggio n° 1

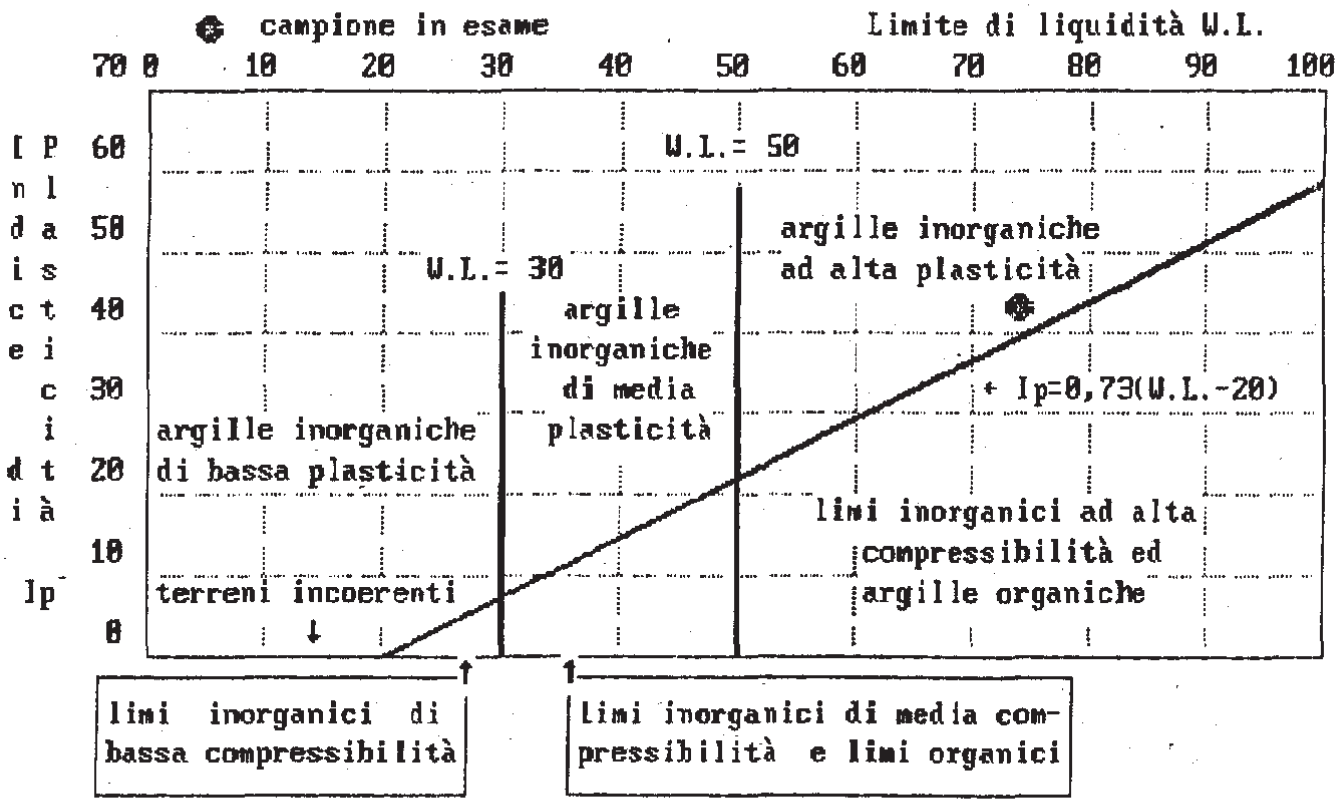
Committente :

Cantiere : S.M.MONTE V.S.Sebastiano

Campione n° 1 da mt. 3.00 a mt. 3.50

Umidità naturale = 28.35 % Peso di volume = 1.940 kg/dmc

DIAGRAMMA DI PLASTICITA' di Casagrande



LIMITI : liquidità (W.L.) = 74.0 ; plasticità (W.P.) = 31.0 ; ritiro (W.I.) = 0.0
INDICI : plasticità (Ip) = 43.0 ; consistenza (Cr) = 1.06

Campione n° 1 prelevato da mt. 3.00 a mt. 3.50

Peso campione umido = 74.350 gr.

Peso campione secco = 61.960 gr. Umidità finale = 20.00 %

FASE DI CARICO

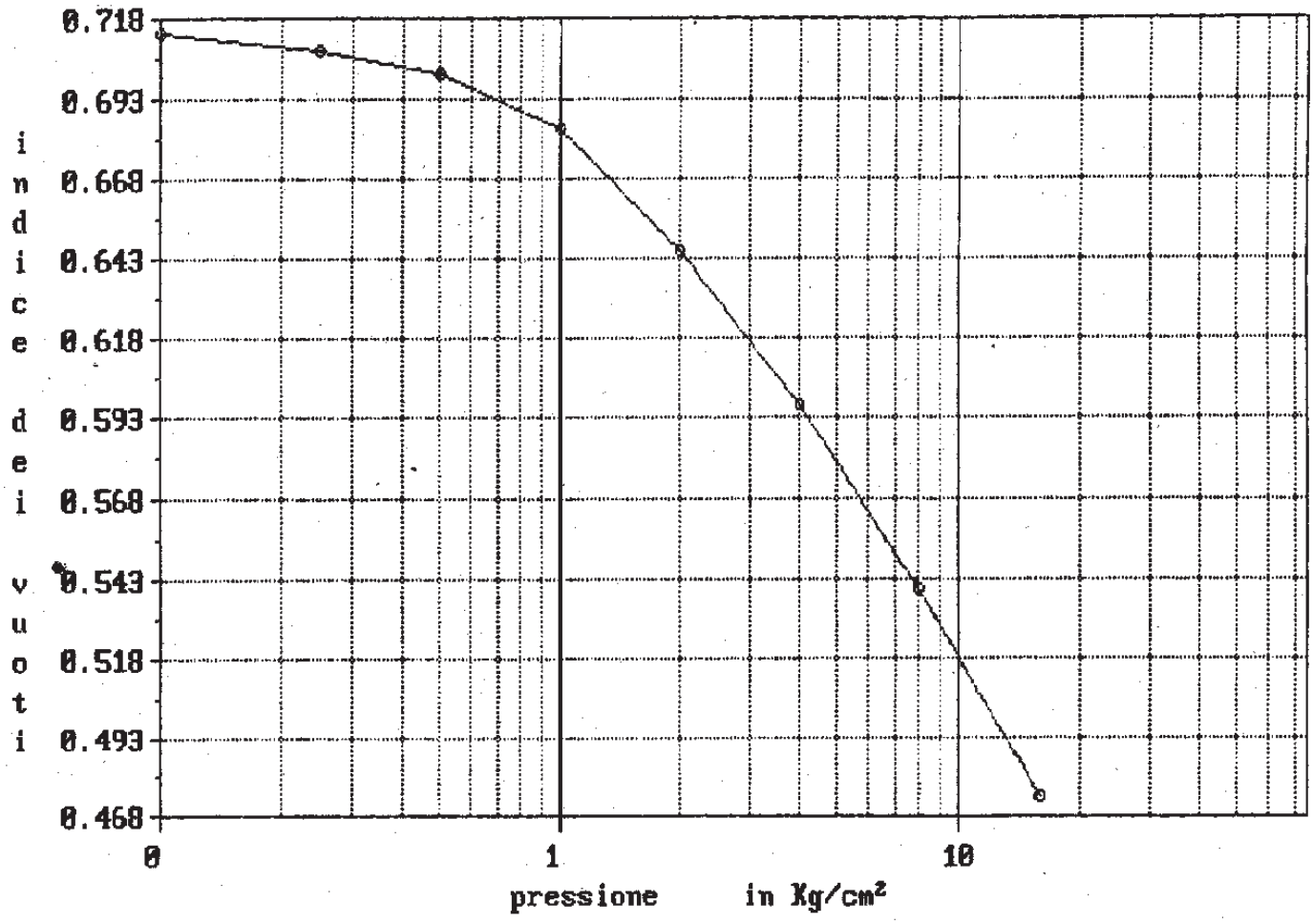
Pressione kg/cm²	ΔH mm.	H mm.	H-Ho mm.	e	e%	av cm²/kg	mv cm²/kg
0.000	0.000	20.000	8.313	0.711	0.000	0.0000	0.0000
0.250	0.060	19.940	8.253	0.706	0.513	0.0480	0.0120
0.500	0.080	19.860	8.173	0.699	1.198	0.0274	0.0160
1.000	0.200	19.660	7.973	0.682	2.909	0.0342	0.0200
2.000	0.450	19.210	7.523	0.644	6.759	0.0265	0.0225
4.000	0.570	18.640	6.953	0.595	11.636	0.0244	0.0142
8.000	0.660	17.980	6.293	0.538	17.284	0.0141	0.0083
16.000	0.770	17.210	5.523	0.473	23.872	0.0082	0.0048

FASE DI SCARICO

Pressione kg/cm²	ΔH mm.	H mm.	H-Ho mm.	e	e%	av cm²/kg	mv cm²/kg

INDICE DI COMPRESSIBILITA' Cc = 0.1650

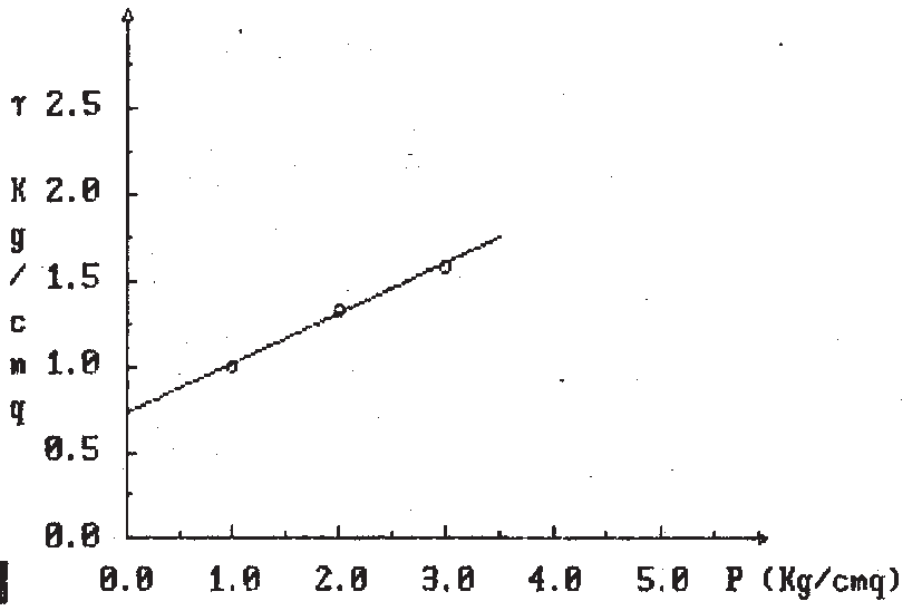
PROVA EDOMETRICA



TAGLIO RAPIDO NON DRENATO

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.990
2.000	1.320
3.000	1.570



ϕ = 16° c = 0.73 Kg/cmq

Sondaggio n° 1

Committente :

Cantiere : S.M.MONTE V.S.Sebastiano

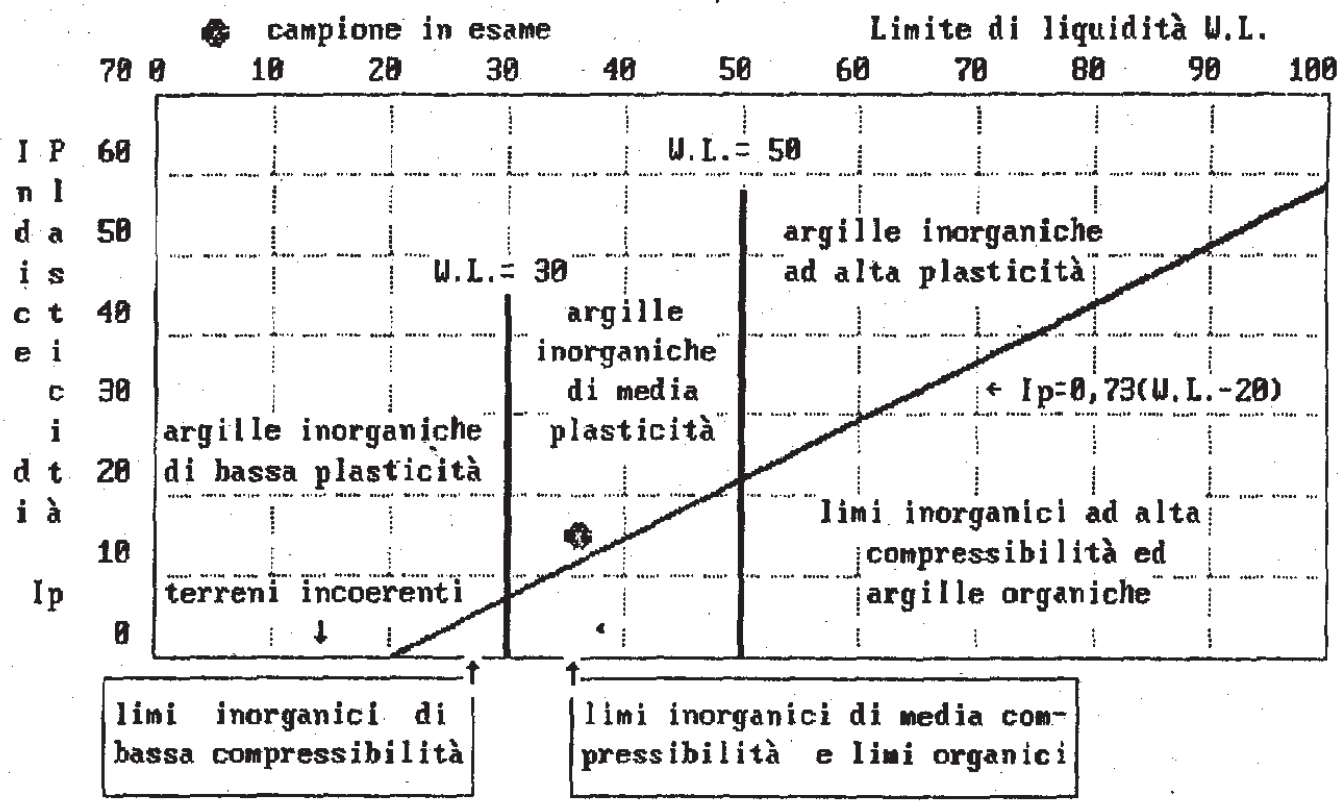
Campione n° 2 da mt. 9.00 a mt. 9.50

Umidità naturale = 17.13 %

Peso di volume = 2.040 kg/dmc

1411

DIAGRAMMA DI PLASTICITA' di Casagrande



LIMITI :liquidità (W.L.) = 36.0 ;plasticità (W.P.) = 21.0 ;ritiro (W.I.) = 0.0
INDICI : plasticità (Ip) = 15.0 ; consistenza (Cr) = 1.26

Campione n° 2 prelevato da mt. 9.00 a mt. 9.50

Peso campione umido = 83.360 gr.

Peso campione secco = 73.220 gr. Umidità finale = 13,83 %

FASE DI CARICO

Pressione Kg/cm²	ΔH mm.	H mm.	H-Ho mm.	e	ε%	av cm²/kg	mv cm²/kg
0.000	0.000	20.000	5.928	0.421	0.000	0.0000	0.0000
0.250	0.070	19.930	5.858	0.416	0.497	0.0199	0.0140
0.500	0.080	19.850	5.778	0.411	1.096	0.0227	0.0160
1.000	0.180	19.670	5.598	0.398	2.345	0.0256	0.0180
2.000	0.230	19.440	5.368	0.381	3.980	0.0163	0.0115
4.000	0.270	19.170	5.098	0.362	5.898	0.0096	0.0067
8.000	0.370	18.800	4.728	0.336	8.528	0.0066	0.0046
16.000	0.410	18.390	4.318	0.307	11.441	0.0036	0.0026

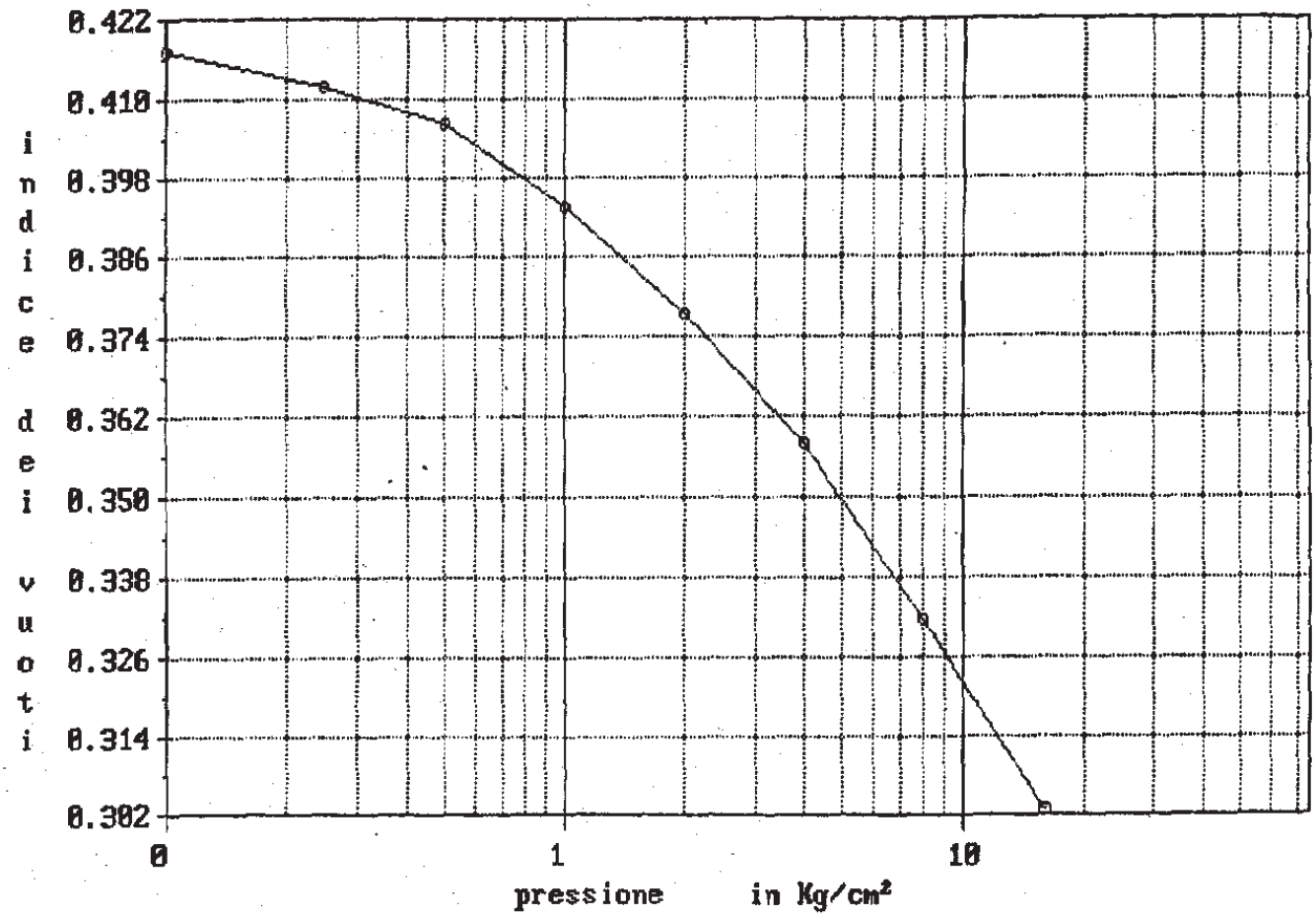
FASE DI SCARICO

Pressione Kg/cm²	ΔH mm.	H mm.	H-Ho mm.	e	ε%	av cm²/kg	mv cm²/kg

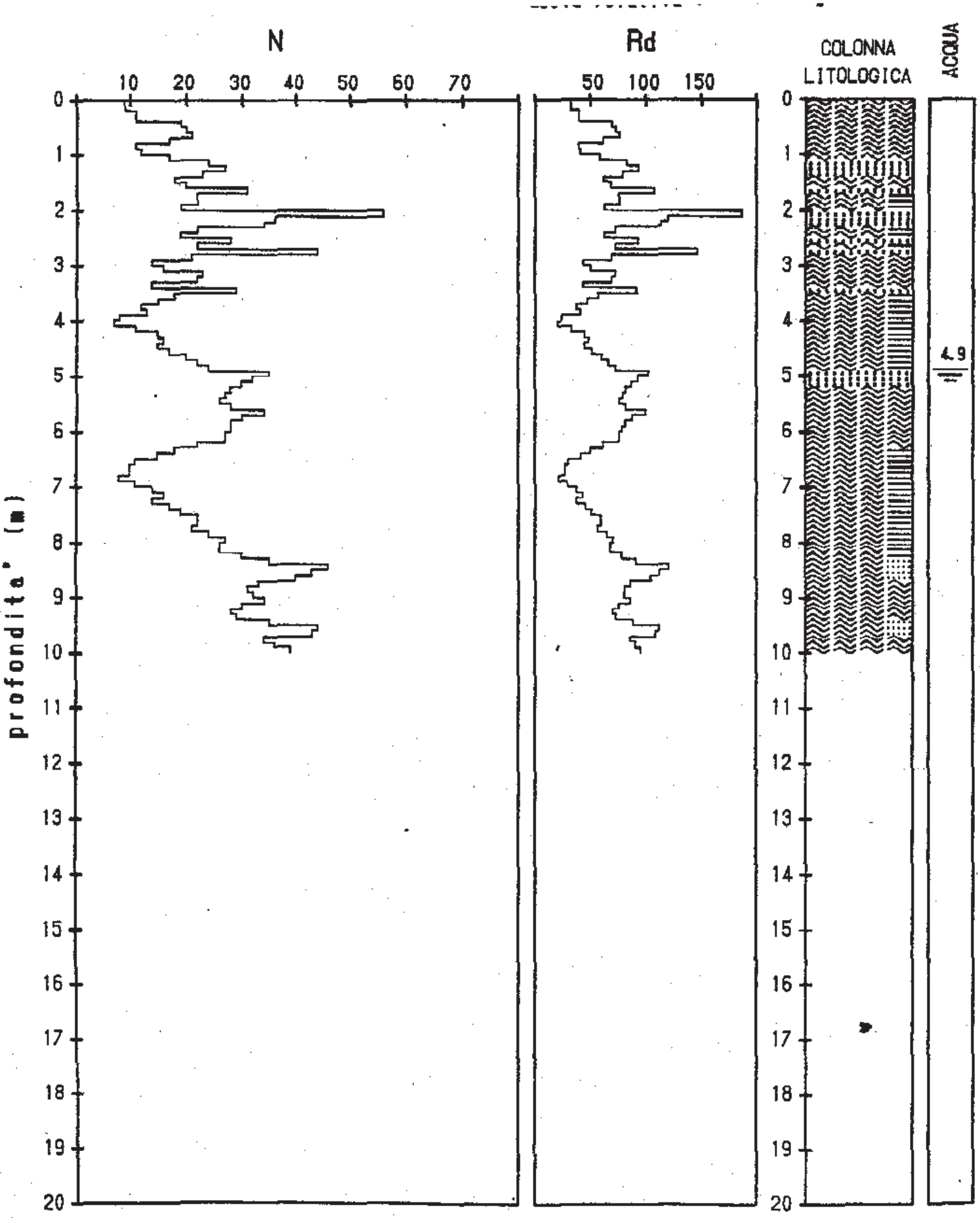
INDICE DI COMPRESSIBILITA' Cc = 0.0712

PROVA EDOMETRICA

1411



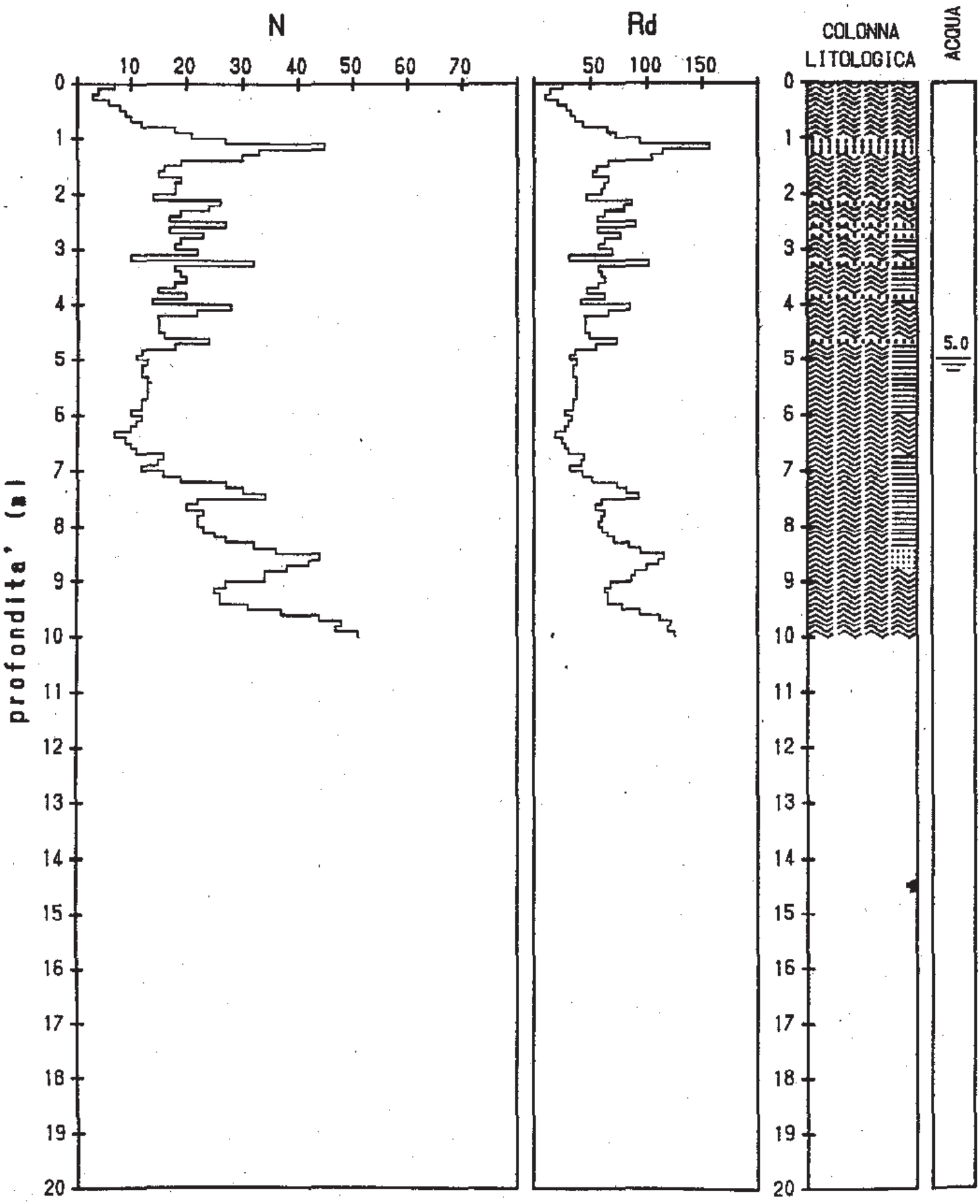
Prof	N	Rd	ø	Dr	Cu	mv
0.1	9	33.0	.	.	0.6	4.0
0.2	9	33.0	.	.	0.6	4.0
0.3	11	40.3	.	.	0.7	3.3
0.4	11	40.3	.	.	0.7	3.3
0.5	19	69.7	.	.	1.3	1.9
0.6	20	73.3	.	.	1.3	1.8
0.7	21	77.0	.	.	1.4	1.7
0.8	17	62.3	.	.	1.1	2.1
0.9	11	40.3	.	.	0.7	3.3
1.0	12	41.9	.	.	0.8	3.0
1.1	17	59.4	.	.	1.1	2.1
1.2	24	83.9	34	99	.	1.5
1.3	27	94.4	35	99	.	1.3
1.4	23	80.4	34	99	.	1.6
1.5	18	62.9	.	.	1.2	2.0
1.6	20	69.9	.	.	1.3	1.8
1.7	31	108.3	37	99	.	1.2
1.8	22	76.9	.	.	1.5	1.6
1.9	22	76.9	.	.	1.5	1.6
2.0	19	63.5	.	.	1.3	1.9
2.1	56	187.0	44	99	.	0.6
2.2	36	120.2	38	99	.	1.0
2.3	34	113.5	38	99	.	1.1
2.4	22	73.5	.	.	1.5	1.6
2.5	19	63.5	.	.	1.3	1.9
2.6	28	93.5	35	99	.	1.3
2.7	22	73.5	.	.	1.5	1.6
2.8	44	146.9	41	99	.	0.8
2.9	21	70.1	.	.	1.4	1.7
3.0	14	44.8	.	.	0.9	2.6
3.1	16	51.2	.	.	1.1	2.3
3.2	23	73.5	.	.	1.5	1.6
3.3	22	70.3	.	.	1.5	1.6
3.4	14	44.8	.	.	0.9	2.6
3.5	29	92.7	36	98	.	1.2
3.6	18	57.5	.	.	1.2	2.0
3.7	15	48.0	.	.	1.0	2.4
3.8	12	38.4	.	.	0.8	3.0
3.9	13	41.6	.	.	0.9	2.8
4.0	8	24.5	.	.	0.5	4.5
4.1	7	21.5	.	.	0.5	5.1
4.2	11	33.7	.	.	0.7	3.3
4.3	15	46.0	.	.	1.0	2.4
4.4	16	49.1	.	.	1.1	2.3
4.5	15	46.0	.	.	1.0	2.4
4.6	17	52.1	.	.	1.1	2.1
4.7	20	61.3	.	.	1.3	1.8
4.8	22	67.5	.	.	1.5	1.6
4.9	24	73.6	.	.	1.6	1.5
5.0	35	103.1	38	98	.	1.0
5.1	32	98.7	37	95	.	1.1
5.2	30	81.9	36	93	.	1.2
5.3	28	73.8	.	.	1.9	1.3
5.4	27	68.7	.	.	1.8	1.3
5.5	26	64.0	.	.	1.7	1.4
5.6	28	66.8	.	.	1.9	1.3
5.7	34	78.6	.	.	2.3	1.1
5.8	30	67.2	.	.	2.0	1.2
5.9	28	60.9	.	.	1.9	1.3
6.0	28	59.2	.	.	1.9	1.3
6.1	27	55.5	.	.	1.8	1.3
6.2	27	54.1	.	.	1.8	1.3
6.3	22	42.9	.	.	1.5	1.6
6.4	18	34.2	.	.	1.2	2.0
6.5	15	27.8	.	.	1.0	2.4
6.6	11	19.9	.	.	0.7	3.3
6.7	10	17.7	.	.	0.7	3.6
6.8	10	17.3	.	.	0.7	3.6
6.9	8	13.5	.	.	0.5	4.5
7.0	11	18.1	.	.	0.7	3.3
7.1	14	22.6	.	.	0.9	2.6
7.2	16	25.3	.	.	1.1	2.3
7.3	14	21.7	.	.	0.9	2.6
7.4	17	25.8	.	.	1.1	2.1
7.5	19	28.2	.	.	1.3	1.9
7.6	22	32.1	.	.	1.5	1.6
7.7	22	31.5	.	.	1.5	1.6
7.8	21	29.5	.	.	1.4	1.7
7.9	24	33.1	.	.	1.6	1.5
8.0	27	36.5	.	.	1.8	1.3
8.1	26	34.5	.	.	1.7	1.4
8.2	26	33.9	.	.	1.7	1.4
8.3	30	38.5	.	.	2.0	1.2
8.4	35	44.1	38	92	.	1.0
8.5	46	57.1	41	99	.	0.8
8.6	43	52.5	40	98	.	0.8
8.7	40	48.0	39	95	.	0.9
8.8	33	39.8	.	.	2.2	1.1
8.9	31	36.1	.	.	2.1	1.2
9.0	32	36.7	.	.	2.1	1.1
9.1	34	38.4	.	.	2.3	1.1
9.2	30	33.4	.	.	2.0	1.2
9.3	28	30.7	.	.	1.9	1.3
9.4	29	31.3	.	.	1.9	1.2
9.5	35	37.3	38	90	.	1.0
9.6	44	46.2	41	97	.	0.8
9.7	43	44.5	40	96	.	0.8
9.8	34	34.7	.	.	2.3	1.1
9.9	36	36.3	.	.	2.4	1.0
10.0	39	38.8	.	.	2.6	0.9


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
4.9
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1414

Prof	N	Rd	ø	Dr	Cu	mv
0.1	7	25.7	.	.	0.5	5.1
0.2	4	14.7	.	.	0.3	9.0
0.3	3	11.0	.	.	0.2	12.0
0.4	6	22.0	.	.	0.4	6.0
0.5	8	29.3	.	.	0.5	4.5
0.6	9	33.0	.	.	0.6	4.0
0.7	10	36.7	.	.	0.7	3.6
0.8	12	44.0	.	.	0.8	3.0
0.9	18	66.0	.	.	1.2	2.0
1.0	21	73.4	.	.	1.4	1.7
1.1	27	94.4	35	99	.	1.3
1.2	45	157.3	41	99	.	0.8
1.3	33	115.3	37	99	.	1.1
1.4	30	104.9	.	.	2.0	1.2
1.5	19	66.4	.	.	1.3	1.9
1.6	16	55.9	.	.	1.1	2.3
1.7	15	52.4	.	.	1.0	2.4
1.8	19	66.4	.	.	1.3	1.9
1.9	18	62.9	.	.	1.2	2.0
2.0	18	60.1	.	.	1.2	2.0
2.1	14	46.8	.	.	0.9	2.6
2.2	26	86.8	35	99	.	1.4
2.3	24	80.1	.	.	1.6	1.5
2.4	19	63.5	.	.	1.3	1.9
2.5	17	56.8	.	.	1.1	2.1
2.6	27	90.2	35	99	.	1.3
2.7	17	56.0	.	.	1.1	2.1
2.8	23	76.8	34	95	.	1.6
2.9	19	63.5	.	.	1.3	1.9
3.0	18	57.5	.	.	1.2	2.0
3.1	22	70.3	.	.	1.5	1.6
3.2	10	32.0	.	.	0.7	3.6
3.3	32	102.3	37	99	.	1.1
3.4	18	57.5	.	.	1.2	2.0
3.5	19	60.7	.	.	1.3	1.9
3.6	20	63.9	.	.	1.3	1.8
3.7	18	57.5	.	.	1.2	2.0
3.8	15	48.0	.	.	1.0	2.4
3.9	20	63.9	32	85	.	1.8
4.0	14	42.9	.	.	0.9	2.6
4.1	28	85.9	.	.	1.9	1.3
4.2	22	67.5	.	.	1.5	1.6
4.3	15	46.0	.	.	1.0	2.4
4.4	15	46.0	.	.	1.0	2.4
4.5	15	46.0	.	.	1.0	2.4
4.6	16	49.1	.	.	1.1	2.3
4.7	24	73.6	34	88	.	1.5
4.8	10	55.2	.	.	1.2	2.0
4.9	12	36.8	.	.	0.8	3.0
5.0	11	32.4	.	.	0.7	3.3
5.1	13	36.9	.	.	0.9	2.8
5.2	12	32.8	.	.	0.8	3.0
5.3	12	31.6	.	.	0.8	3.0
5.4	13	33.1	.	.	0.9	2.8
5.5	13	32.0	.	.	0.9	2.8
5.6	13	31.0	.	.	0.9	2.8
5.7	13	30.0	.	.	0.9	2.8
5.8	12	26.9	.	.	0.8	3.0
5.9	12	26.1	.	.	0.8	3.0
6.0	10	21.2	.	.	0.7	3.6
6.1	12	24.7	.	.	0.8	3.0
6.2	11	22.0	.	.	0.7	3.3
6.3	10	19.5	.	.	0.7	3.6
6.4	7	13.3	.	.	0.5	5.1
6.5	9	16.7	.	.	0.6	4.0
6.6	10	18.1	.	.	0.7	3.6
6.7	11	19.4	.	.	0.7	3.3
6.8	16	27.6	.	.	1.1	2.3
6.9	15	25.3	.	.	1.0	2.4
7.0	12	19.8	.	.	0.8	3.0
7.1	16	25.8	.	.	1.1	2.3
7.2	19	30.0	.	.	1.3	1.9
7.3	27	41.8	.	.	1.8	1.3
7.4	30	45.5	.	.	2.0	1.2
7.5	34	50.5	.	.	2.3	1.1
7.6	22	32.1	.	.	1.5	1.6
7.7	20	28.6	.	.	1.3	1.8
7.8	23	32.3	.	.	1.5	1.6
7.9	22	30.3	.	.	1.5	1.6
8.0	22	29.8	.	.	1.5	1.6
8.1	23	30.6	.	.	1.5	1.6
8.2	25	32.6	.	.	1.7	1.4
8.3	27	34.6	.	.	1.8	1.3
8.4	32	40.4	.	.	2.1	1.1
8.5	36	44.7	38	92	.	1.0
8.6	44	53.7	41	98	.	0.8
8.7	42	50.4	40	97	.	0.9
8.8	38	44.9	39	94	.	0.9
8.9	34	39.6	.	.	2.3	1.1
9.0	34	39.0	.	.	2.3	1.1
9.1	27	30.5	.	.	1.8	1.3
9.2	25	27.8	.	.	1.7	1.4
9.3	26	28.5	.	.	1.7	1.4
9.4	26	28.1	.	.	1.7	1.4
9.5	31	33.0	.	.	2.1	1.2
9.6	37	38.8	.	.	2.5	1.0
9.7	44	45.5	.	.	2.9	0.8
9.8	48	49.0	.	.	3.2	0.8
9.9	47	47.3	.	.	3.1	0.8
10.0	51	50.7	.	.	3.4	0.7

1414


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
5.0
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

letture di campagna

valori derivati

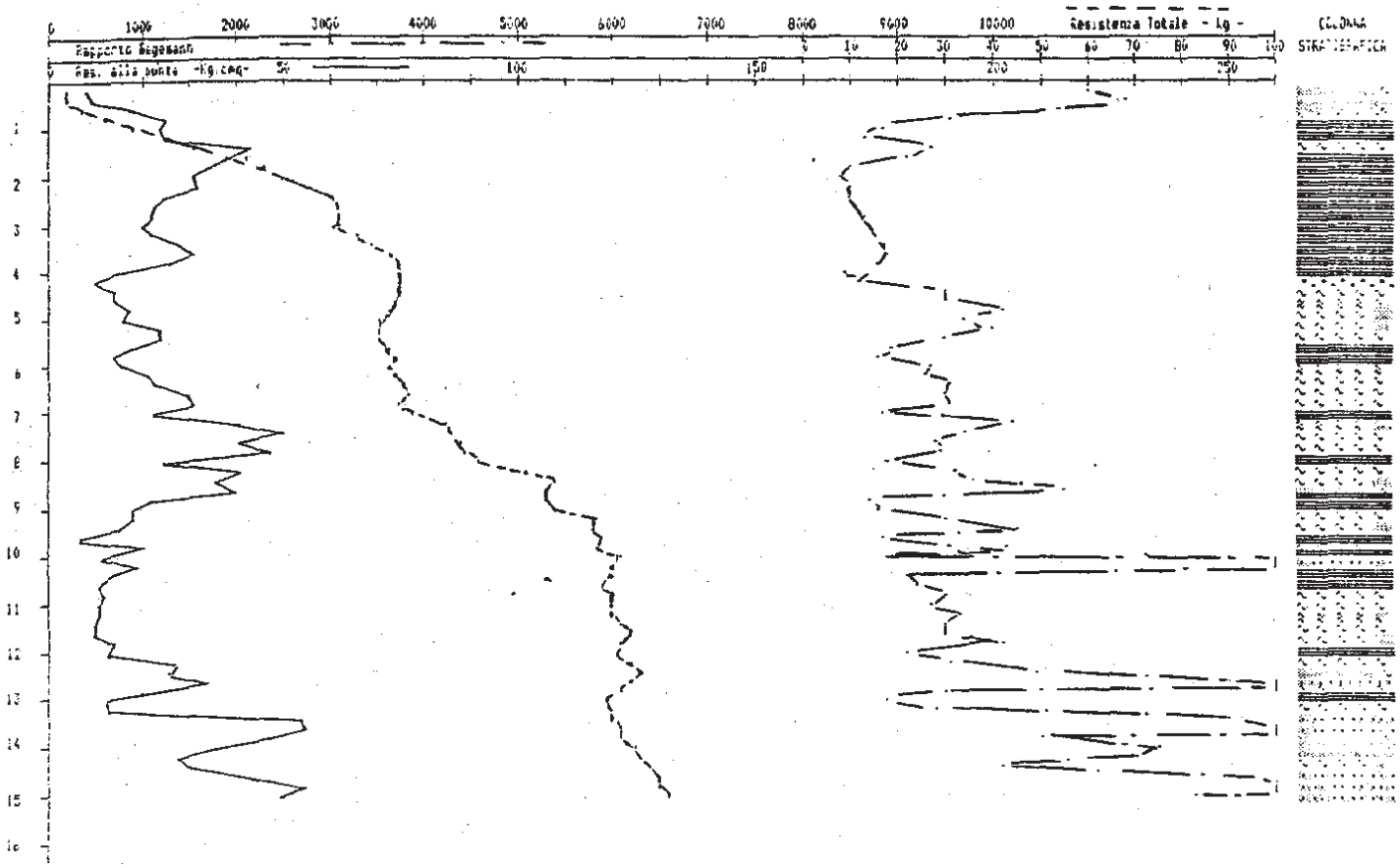
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	80	100	200	20	.13	60	120	25	8		22.29
.4	90	110	200	20	.13	68	110	27	9		21.16
.6	180	230	350	50	.33	54	170	27	16		17.6
.8	250	370	600	120	.8	31	350			1	16.83
1	240	450	900	210	1.4	17	660			.96	16.94
1.2	250	540	1200	290	1.93	13	1050			1	16.83
1.4	450	670	1550	240	1.6	27	1120			1.72	13.92
1.6	390	660	2100	270	1.8	22	1710			1.56	14.69
1.8	340	830	2300	490	3.26	10	1960			1.36	15.59
2	310	880	2500	570	3.8	8	2190			1.24	16.06
2.2	320	820	2800	500	3.33	10	2480			1.28	15.91
2.4	250	640	3050	390	2.6	10	2800			1	16.83
2.6	230	530	3100	300	2	11	2870			.92	17.04
2.8	220	470	3100	250	1.66	13	2880			.88	17.15
3	200	420	3050	220	1.46	14	2850			.8	17.36
3.2	220	440	3260	220	1.46	15	3080			.88	17.15
3.4	264	520	3150	240	1.6	17	3170			1.12	16.48
3.6	310	570	3650	260	1.73	18	3340			1.24	16.06
3.8	260	500	3759	240	1.6	16	3470			1.04	16.72
4	150	400	3750	250	1.66	9	3600			.6	18.14
4.2	100	220	3750	120	.8	12	3650			.4	20.3
4.4	140	210	3750	70	.46	30	3610			.56	18.4
4.6	140	210	3790	70	.46	30	3560			.56	18.4
4.8	170	230	3650	60	.4	42	3480			.48	17.75
5	160	230	3550	70	.46	34	3390			.64	17.93
5.2	240	330	3550	90	.6	40	3310			.96	16.94
5.4	240	360	3550	120	.8	30	3310			.96	16.94
5.6	180	320	3650	140	.93	19	3470			.72	17.6
5.8	140	270	3700	130	.86	16	3560			.56	18.4
6	160	250	3650	90	.6	27	3490			.64	17.93
6.2	210	330	3700	120	.8	26	3490			.84	17.25
6.4	230	340	3800	110	.73	31	3570			.92	17.04
6.6	300	450	3850	150	1	30	3550			1.2	16.21
6.8	310	460	3750	150	1	31	3440			1.24	16.06
7	230	430	3900	200	1.33	17	3670			.92	17.04
7.2	410	550	4250	140	.93	44	3840			1.64	14.3
7.4	500	720	4330	220	1.46	34	3830			2.5	12.57
7.6	410	630	4400	220	1.46	28	3990			1.64	14.3
7.8	470	710	4450	240	1.6	29	3980			2.35	13.14
8	250	460	4600	210	1.4	18	4350			1	16.83

letture di campagna

valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	410	600	5100	190	1.26	32	4690			1.64	14.3
8.4	360	510	5400	150	1	36	5040			1.44	15.24
8.6	400	510	5200	110	.73	55	4900	30	32		14.5
8.8	220	450	5300	230	1.53	14	5080			.88	17.15
9	180	350	5400	170	1.13	16	5220			.72	17.6
9.2	180	270	5600	90	.6	30	5420			.72	17.6
9.4	150	200	5800	50	.33	45	5650			.6	18.14
9.6	70	130	5900	60	.4	17	5830			.28	23.81
9.8	200	270	5850	70	.46	43	5650			.8	17.36
10	120	220	6100	100	.66	18	5980			.48	19.13
10.2	190	210	6000	20	.13	143	5810	32	17		17.47
10.4	130	220	6000	90	.6	22	5870			.52	18.72
10.6	110	180	5900	70	.46	24	5790			.44	19.64
10.8	120	180	6000	60	.4	30	5880			.48	19.13
11	110	170	6000	60	.4	27	5890			.44	19.64
11.2	110	160	6000	50	.33	33	5890			.44	19.64
11.4	100	150	6100	50	.33	30	6000			.4	20.3
11.6	100	150	6200	50	.33	30	6100			.4	20.3
11.8	140	190	6100	50	.33	42	5960			.56	18.4
12	130	220	6050	90	.6	22	5920			.52	18.72
12.2	270	400	6200	130	.86	31	5930			1.08	16.6
12.4	260	340	6300	80	.53	49	6040	29	23		16.72
12.6	340	390	6200	50	.33	102	5860	34	28		15.59
12.8	200	300	6100	100	.66	30	5900			.8	17.36
13	130	240	5950	110	.73	18	5820			.52	18.72
13.2	130	200	6000	70	.46	28	5870			.52	18.72
13.4	540	630	6000	90	.6	90	5460	35	41		11.85
13.6	550	620	6100	70	.46	118	5550	36	41		11.67
13.8	470	610	6100	140	.93	50	5630	36	37		13.14
14	350	420	6250	70	.46	75	5900	30	29		15.42
14.2	260	340	6300	60	.4	70	6020	29	24		16.46
14.4	310	420	6400	110	.73	42	6090			1.24	16.66
14.6	440	516	6500	70	.46	94	6060	34	25		13.72
14.8	550	620	6550	70	.46	118	5950	36	41		11.67
15	590	590	6600	90	.6	83	6100	35	38		12.57

1415

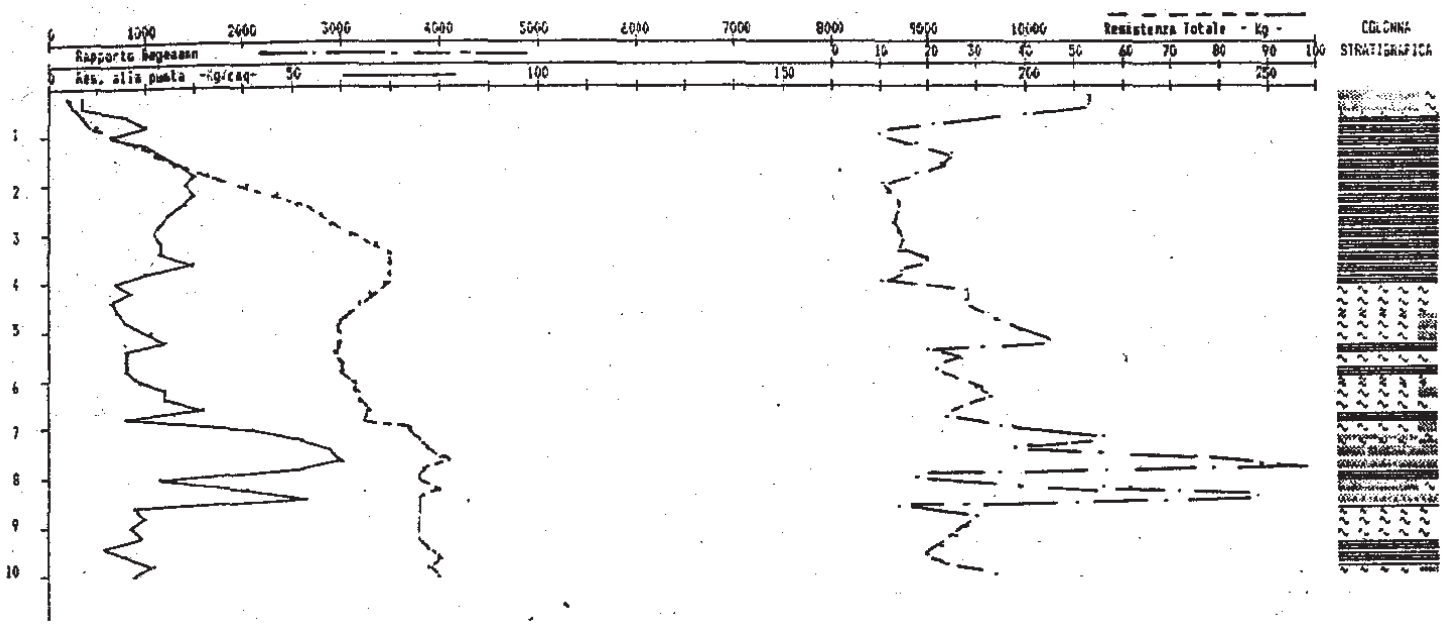

Resistenza Totale - kg -
Rapporto Begemann
Res. alla punta -kg/cmq-

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
.2	70	90	200	20	.13	53	130	25	7		23.81
.4	70	90	250	20	.13	53	180	25	7		23.81
.6	160	220	350	60	.4	40	190			.64	17.93
.8	200	340	500	140	.93	21	300			.8	17.36
1	130	320	650	190	1.26	10	520			.52	18.72
1.2	200	370	900	170	1.13	18	700			.8	17.36
1.4	220	350	1100	130	.86	25	880			.88	17.15
1.6	270	450	1300	180	1.2	23	1030			1.08	16.6
1.8	300	550	1650	250	1.66	18	1350			1.2	16.21
2	280	660	2050	380	2.53	11	1770			1.12	16.48
2.2	300	660	2350	360	2.4	12	2050			1.2	16.21
2.4	280	570	2550	290	1.93	14	2270			1.12	16.46
2.6	250	510	2800	260	1.73	14	2550			1	16.83
2.8	230	500	2900	270	1.8	13	2670			.92	17.04
3	220	460	3100	240	1.6	14	2880			.88	17.15
3.2	230	460	3350	230	1.53	15	3120			.92	17.04
3.4	230	480	3500	250	1.66	14	3270			.92	17.04
3.6	300	520	3500	220	1.46	20	3200			1.2	16.21
3.8	200	400	3500	200	1.33	15	3300			.8	17.36
4	140	330	3450	190	1.26	11	3310			.56	16.4
4.2	170	260	3300	90	.6	28	3130			.68	17.75
4.4	130	200	3200	70	.46	28	3070			.52	16.72
4.6	140	210	3100	70	.46	30	2960			.56	18.4
4.8	160	230	3000	70	.46	34	2840			.64	17.93
5	210	290	3000	80	.53	39	2790			.84	17.25
5.2	240	320	3000	80	.53	45	2760			.96	16.94
5.4	160	280	2950	120	.8	20	2790			.64	17.93
5.6	160	250	3000	90	.6	27	2840			.64	17.93
5.8	160	270	3000	110	.73	22	2840			.64	17.93
6	190	300	3150	110	.73	26	2960			.76	17.47
6.2	240	360	3150	120	.8	30	2910			.96	16.94
6.4	240	350	3300	110	.73	33	2960			.96	16.94
6.6	320	500	3300	180	1.2	27	2980			1.28	15.91
6.8	160	260	3250	100	.66	24	3090			.64	17.93
7	420	600	3750	180	1.2	35	3250			1.66	14.11
7.2	520	660	3800	140	.93	56	3280	30	39		12.2
7.4	550	810	3900	230	1.53	38	3320			2.9	11.3
7.6	600	720	4100	120	.8	75	3500	31	44		10.64
7.8	520	660	3850	80	.53	98	3330	35	39		12.2
8	370	420	3800	50	1.33	15	3430			.92	17.04

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	410	520	4000	110	.73	56	3590	30	33		14.3
8.4	530	620	3800	90	.6	88	3270	35	40		12.02
8.6	160	370	3800	190	1.26	14	3620			.72	17.6
8.8	200	300	3800	100	.66	30	3600			.8	17.36
9	170	260	3800	90	.6	28	3630			.68	17.75
9.2	190	300	3800	110	.73	26	3610			.76	17.47
9.4	120	200	3900	80	.53	23	3780			.48	19.13
9.6	160	280	4000	120	.8	20	3840			.64	17.93
9.8	220	360	3900	140	.93	24	3680			.88	17.15
10	180	260	4000	80	.53	34	3820			.72	17.6

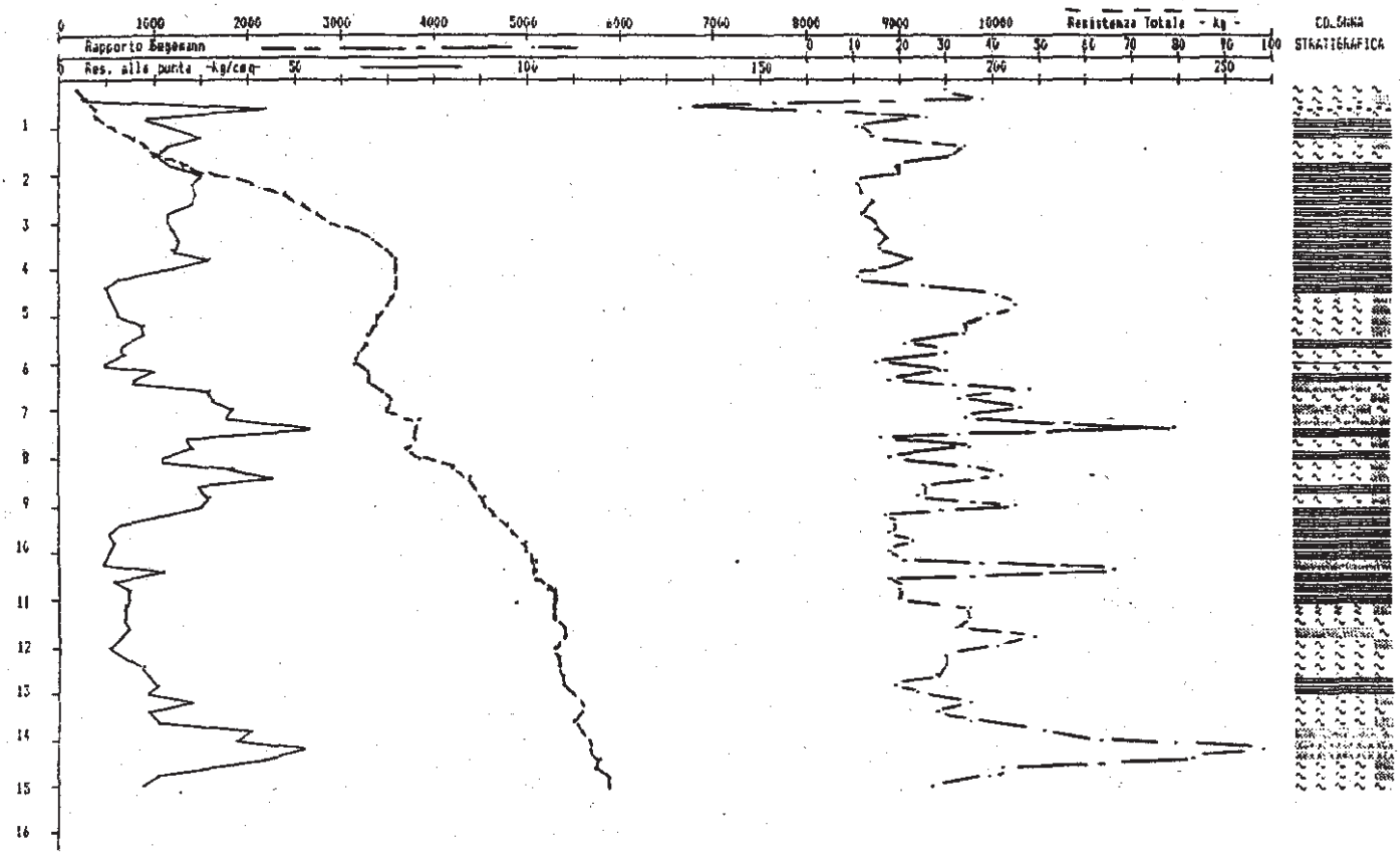

Resistenza Totale - kg -
Rapporto Begemann
Res. alla punta -kg/cmq-
COLONNA STRATIGRAFICA

letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
.2	40	60	200	20	.13	30	160			.16	33.74
.4	50	70	300	20	.13	38	250			.2	29
.6	440	200	400	-240	-1.6	-27	-40			1.76	13.72
.8	190	300	400	110	.73	26	210			.76	17.47
1	120	290	600	170	1.13	11	480			.48	19.13
1.2	360	620	800	320	2.13	14	500			1.2	16.21
1.4	230	330	900	100	.66	34	670			.92	17.04
1.6	210	310	1000	100	.66	31	790			.84	17.25
1.8	230	400	1300	170	1.13	26	1070			.92	17.04
2	300	520	1650	220	1.46	20	1350			1.2	16.21
2.2	280	660	2050	380	2.53	11	1770			1.12	16.48
2.4	240	650	2400	360	2.4	12	2110			1.16	16.35
2.6	280	580	2680	300	2	14	2320			1.12	16.48
2.8	230	510	2750	280	1.86	12	2520			.92	17.04
3	230	450	2980	230	1.53	15	2670			.92	17.04
3.2	240	480	3200	240	1.6	15	2960			.96	16.94
3.4	250	470	3250	220	1.46	17	3100			1	16.83
3.6	240	460	3500	220	1.46	16	3260			.96	16.94
3.8	320	530	3600	210	1.4	23	3280			1.28	15.91
4	240	450	3600	210	1.4	17	3360			.96	16.94
4.2	130	300	3600	170	1.13	11	3470			.52	18.72
4.4	100	160	3600	60	.4	25	3500			.4	20.3
4.6	110	150	3250	40	.26	41	3440			.44	19.64
4.8	120	160	3500	40	.26	45	3380			.48	19.13
5	130	180	3490	50	.33	39	3270			.52	18.72
5.2	180	260	3400	80	.53	34	3220			.72	17.6
5.4	180	260	3200	80	.53	34	3120			.72	17.6
5.6	140	240	3300	100	.66	21	3160			.56	18.4
5.8	140	210	3200	70	.46	30	3060			.56	18.4
6	100	200	3150	100	.66	15	3050			.4	20.3
6.2	200	300	3200	100	.66	30	3100			.8	17.36
6.4	160	290	3300	130	.86	18	3140			.64	17.93
6.6	320	420	3450	100	.66	48	3130	21	27		15.91
6.8	530	680	3550	150	1	53	3220			1.32	15.75
7	370	490	3500	120	.8	46	3130	34	30		15.06
7.2	360	520	3850	160	1.06	34	3490			1.44	15.24
7.4	530	630	3800	100	.66	79	3270	34	40		12.02
7.6	270	530	3800	260	1.73	16	3530			1.08	16.6
7.8	280	400	3700	120	.8	35	3420			1.12	16.48
8	220	400	3850	180	1.2	18	3630			.88	17.15

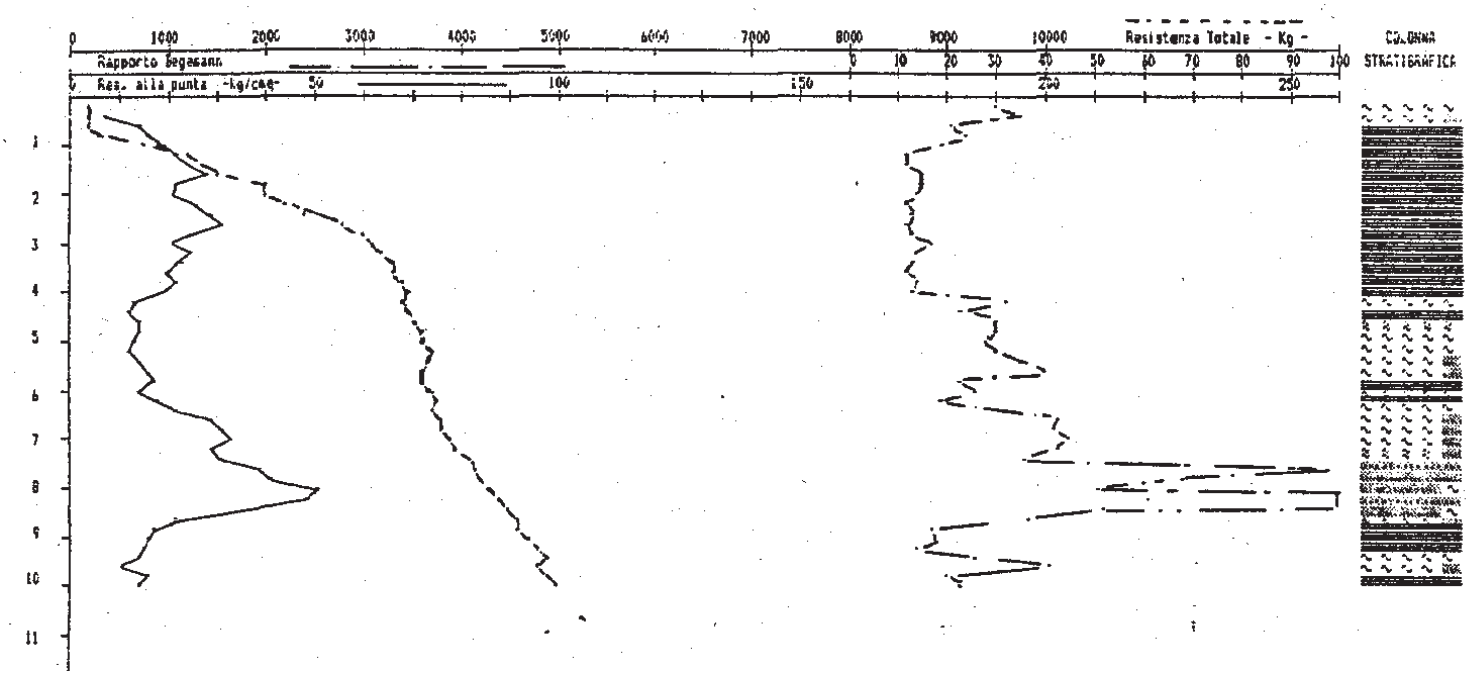
letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	370	530	4200	160	1.06	35	3830			1.48	15.06
8.4	450	610	4400	160	1.06	42	3950			1.8	13.53
8.6	306	480	4450	180	1.2	25	4150			1.2	16.21
8.8	320	520	4550	200	1.33	24	4230			1.28	15.91
9	300	400	4550	100	.66	45	4250			1.2	16.21
9.2	210	400	4650	190	1.26	17	4440			.84	17.25
9.4	130	230	4800	100	.66	19	4670			.52	18.72
9.6	110	200	4850	90	.6	18	4740			.44	19.64
9.8	120	200	5000	80	.53	23	4880			.48	19.13
10	110	200	5000	90	.6	18	4890			.44	19.64
10.2	100	170	5100	70	.46	21	5000			.4	20.3
10.4	220	270	5100	50	.33	66	4880	28	20		17.15
10.6	120	220	5100	100	.66	18	4980			.48	19.13
10.8	150	260	5300	110	.73	20	5150			.6	18.14
11	150	260	5300	110	.73	20	5150			.6	18.14
11.2	140	200	5300	60	.4	35	5160			.56	18.4
11.4	140	200	5300	60	.4	35	5160			.56	18.4
11.6	150	220	5400	70	.46	32	5250			.6	18.14
11.8	130	170	5400	40	.26	49	5270	25	12		18.72
12	130	150	5300	40	.26	41	5190			.44	19.64
12.2	140	210	5350	70	.46	30	5210			.56	18.4
12.4	180	270	5350	90	.6	30	5170			.72	17.6
12.6	190	290	5400	100	.66	28	5210			.76	17.47
12.8	210	380	5400	170	1.13	19	5190			.84	17.25
13	190	310	5500	120	.8	24	5310			.76	17.47
13.2	280	400	5600	120	.8	35	5320			1.12	16.48
13.4	190	290	5600	100	.66	28	5410			.76	17.47
13.6	210	300	5500	90	.6	35	5290			.84	17.25
13.8	410	530	5600	120	.8	51	5190	30	33		14.3
14	380	470	5700	90	.6	63	5320	30	31		14.67
14.2	520	600	5750	80	.53	98	5180	35	39		12.2
14.4	440	520	5800	80	.53	83	5360	34	35		13.72
14.6	310	420	5750	110	.73	42	5440			1.24	16.06
14.8	210	290	5900	80	.53	39	5690			.84	17.25
15	180	280	5900	100	.66	27	5720			.72	17.6


0
1000
2000
3000
4000
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6000
7000
8000
9000
10000
Resistenza Totale - kg -
Rapporto Begemann
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10
20
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40
50
60
70
80
90
100
Res. alla punta -kg/cmq-
0
50
100
150
200
250
COLONNA STRATIGRAFICA
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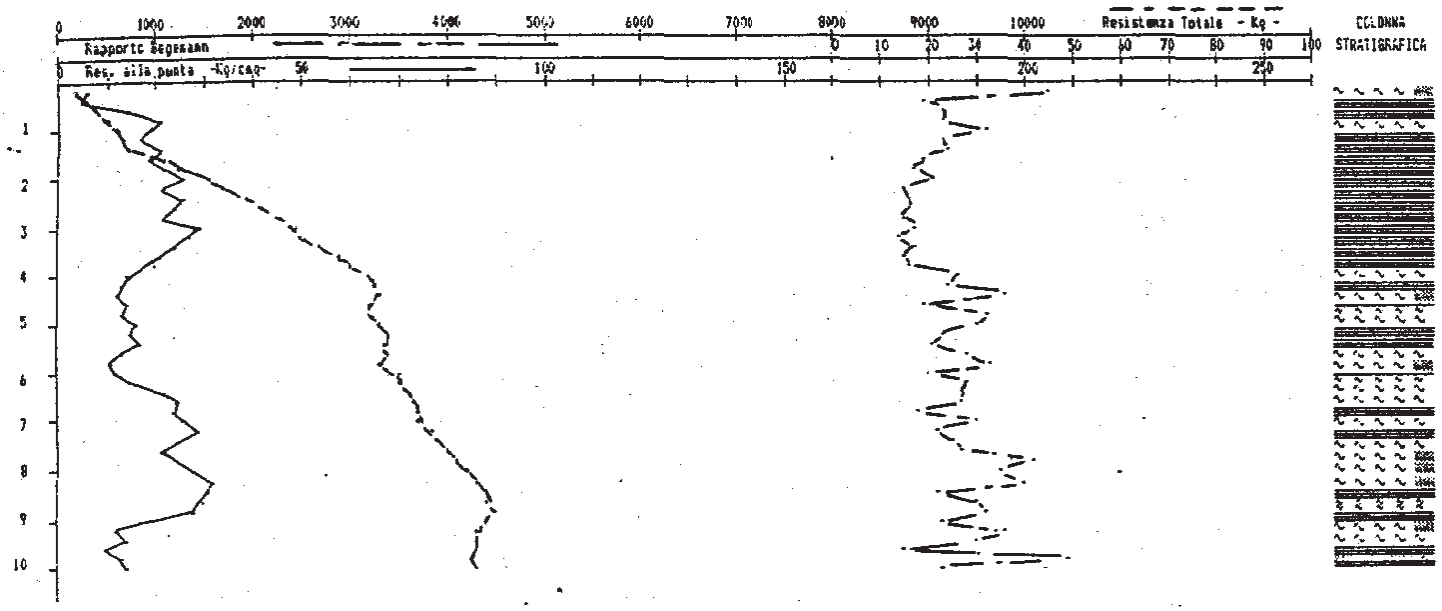
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	40	60	200	20	.13	30	160			.16	33.74
.4	70	100	200	30	.2	35	130			.26	22.81
.6	140	240	200	100	.66	21	60			.56	18.4
.8	160	260	300	100	.66	24	140			.64	17.93
1	190	340	860	150	1	19	710			.76	17.47
1.2	220	500	1200	280	1.86	12	980			.88	17.15
1.4	240	530	1350	290	1.93	12	1110			.96	16.94
1.6	280	560	1500	280	1.86	15	1220			1.12	16.48
1.8	220	440	2000	220	1.46	15	1780			.88	17.15
2	210	440	2000	230	1.53	14	1790			.84	17.25
2.2	260	590	2200	330	2.2	12	1940			1.04	16.72
2.4	290	630	2400	340	2.26	13	2110			1.16	16.35
2.6	310	710	2600	400	2.66	12	2490			1.24	16.06
2.8	250	530	3000	280	1.86	13	2750			1	16.83
3	210	400	3100	190	1.26	17	2890			.84	17.25
3.2	250	510	3200	260	1.73	14	2950			1	16.83
3.4	230	490	3300	260	1.73	13	3070			.92	17.04
3.6	200	440	3300	240	1.6	12	3100			.8	17.36
3.8	220	450	3400	230	1.53	14	3180			.88	17.15
4	190	410	3450	220	1.46	13	3260			.76	17.47
4.2	130	190	3400	60	.4	32	3270			.52	18.72
4.4	120	200	3450	80	.53	23	3330			.48	19.13
4.6	140	210	3500	70	.46	30	3360			.56	18.4
4.8	140	210	3600	70	.46	30	3460			.56	18.4
5	130	200	3600	70	.46	28	3470			.52	18.72
5.2	120	180	3700	60	.4	30	3580			.48	19.13
5.4	140	200	3650	60	.4	35	3510			.56	18.4
5.6	160	220	3600	60	.4	40	3440			.64	17.93
5.8	170	280	3600	110	.73	23	3430			.68	17.75
6	140	220	3700	80	.53	26	3560			.56	18.4
6.2	180	320	3750	140	.93	19	3570			.72	17.6
6.4	220	330	3700	110	.73	30	3480			.88	17.15
6.6	299	390	3800	100	.66	43	3510			1.16	16.35
6.8	310	420	3800	110	.73	42	3490			1.24	16.06
7	330	440	3900	110	.73	45	3570			1.32	15.75
7.2	290	390	3950	100	.66	43	3660			1.16	16.35
7.4	316	446	4100	130	.86	36	3790			1.24	16.06
7.6	390	450	4150	60	.4	98	3760	34	32		14.69
7.8	410	500	4200	90	.6	68	3790	30	33		14.3
8	510	660	4300	150	1	51	3790	30	39		12.39

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	490	550	4400	60	.4	122	3910	35	38		12.76
8.4	380	490	4500	110	.73	52	4120	30	31		14.87
8.6	220	310	4600	90	.6	37	4380			.88	17.15
8.8	170	320	4600	150	1	17	4430			.68	17.75
9	160	290	4700	130	.86	18	4540			.64	17.93
9.2	150	310	4800	160	1.06	14	4650			.6	18.14
9.4	140	220	4900	80	.53	26	4760			.56	18.4
9.6	110	150	4800	40	.26	41	4690			.44	19.64
9.8	160	280	4900	120	.8	20	4740			.64	17.93
10	140	230	5000	90	.6	23	4860			.56	18.4


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10000
Resistenza Totale - Kg -
Rapporto Begemann
0
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40
50
60
70
80
90
100
Res. alla punta -kg/cm²-
50
100
150
200
250
COLONNA STRATIGRAFICA
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PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	60	80	200	20	.13	45	140			.24	25.93
.4	50	90	300	40	.26	19	250			.2	29
.6	140	230	400	90	.6	23	260			.56	18.4
.8	210	350	500	140	.93	23	290			.84	17.25
1	190	280	600	90	.6	32	410			.76	17.47
1.2	170	280	650	110	.73	23	480			.68	17.75
1.4	210	340	700	130	.86	24	490			.84	17.25
1.6	190	340	1100	150	1	19	910			.76	17.47
1.8	220	410	1250	190	1.26	17	1030			.88	17.15
2	240	450	1550	190	1.26	21	1290			1.04	16.72
2.2	220	440	1700	220	1.46	15	1480			.88	17.15
2.4	260	510	1950	250	1.66	16	1690			1.04	16.72
2.6	240	460	2100	220	1.46	16	1860			.96	16.94
2.8	220	440	2300	220	1.46	15	2080			.88	17.15
3	280	530	2450	250	1.66	17	2170			1.12	16.48
3.2	270	560	2500	290	1.93	14	2230			1.08	16.6
3.4	240	450	2700	210	1.4	17	2460			.96	16.94
3.6	210	420	2900	210	1.4	15	2690			.84	17.25
3.8	200	390	3000	190	1.26	16	2800			.8	17.36
4	140	220	3200	80	.53	26	3060			.56	18.4
4.2	130	210	3250	80	.53	24	3120			.52	18.72
4.4	120	170	3320	50	.33	36	3180			.48	19.13
4.6	160	250	3200	110	.73	19	3060			.56	18.4
4.8	130	190	3200	60	.4	32	3070			.52	18.72
5	160	240	3300	80	.53	30	3140			.64	17.93
5.2	150	250	3400	100	.66	23	3250			.6	18.14
5.4	170	290	3350	120	.8	21	3180			.68	17.75
5.6	130	200	3400	70	.46	28	3270			.52	18.72
5.8	110	160	3300	50	.33	33	3190			.44	19.64
6	120	210	3500	90	.6	20	3380			.48	19.13
6.2	150	230	3500	80	.53	28	3350			.6	18.14
6.4	220	340	3600	120	.8	27	3380			.88	17.15
6.6	250	390	3650	140	.93	27	3400			1	16.83
6.8	240	440	3700	200	1.33	18	3460			.96	16.94
7	260	390	3750	130	.86	30	3490			1.04	16.72
7.2	290	490	3850	200	1.33	22	3560			1.16	16.35
7.4	250	400	3900	150	1	25	3650			1	16.83
7.6	220	340	4000	120	.8	27	3780			.88	17.15

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	320	440	4300	120	.8	40	3980			1.28	15.91
8.4	310	520	4400	210	1.4	22	4090			1.24	16.06
8.6	300	450	4400	150	1	30	4100			1.2	16.21
8.8	280	410	4500	130	.86	32	4220			1.12	16.48
9	170	280	4400	110	.73	23	4230			.68	17.75
9.2	120	170	4300	50	.33	36	4180			.48	19.13
9.4	140	210	4300	70	.46	30	4160			.56	18.4
9.6	100	200	4300	100	.66	15	4200			.4	20.3
9.8	130	170	4250	40	.26	49	4120	25	12		18.72
10	140	230	4300	90	.6	23	4160			.56	18.4


0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza Totale - Kg -
Rapporto Begemann
0
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
50
100
150
200
250
COLONNA STRATIGRAFICA
1
2
3
4
5
6
7
8
9
10

PROVA PENETROMETRICA STATICA

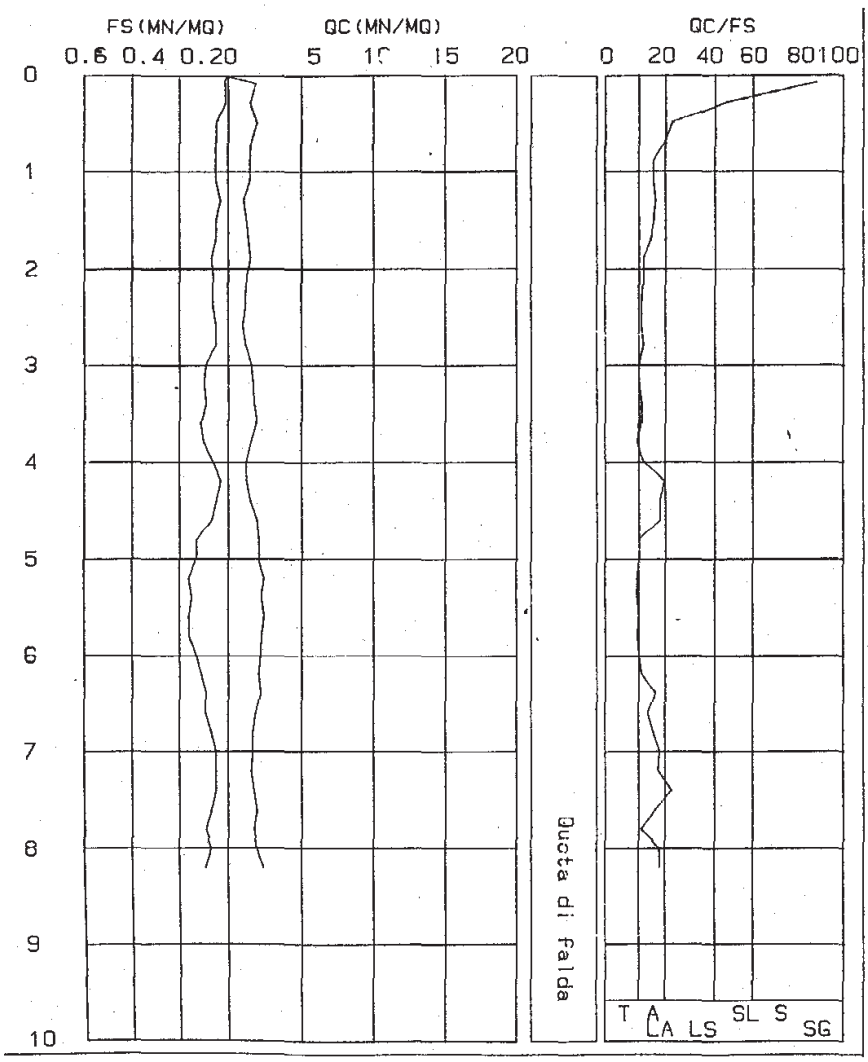
CERTIFICATO N.RO : 90-AA IMPIANTO :COSTRUZIONE FABBRICATO CIVILE ABITAZIONE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	18	21	0.20	90.00										
0.40	14	18	0.27	51.85										
0.60	19	29	0.67	28.36										
0.80	15	24	0.60	25.00										
1.00	14	24	0.67	20.90										
1.20	14	24	0.67	20.90										
1.40	10	17	0.47	21.28										
1.60	12	21	0.60	20.00										
1.80	13	23	0.67	19.40										
2.00	14	27	0.87	16.09										
2.20	12	23	0.73	16.44										
2.40	11	22	0.73	15.07										
2.60	9	18	0.60	15.00										
2.80	11	21	0.67	16.42										
3.00	15	31	1.07	14.02										
3.20	16	33	1.13	14.16										
3.40	17	33	1.07	15.89										
3.60	19	37	1.20	15.83										
3.80	15	32	1.13	13.27										
4.00	12	23	0.73	16.44										
4.20	12	19	0.47	25.53										
4.40	14	23	0.60	23.33										
4.60	19	31	0.80	23.75										
4.80	20	41	1.40	14.29										
5.00	20	41	1.40	14.29										
5.20	24	50	1.73	13.87										
5.40	22	46	1.60	13.75										
5.60	24	49	1.67	14.37										
5.80	22	47	1.67	13.17										
6.00	21	43	1.47	14.29										
6.20	20	39	1.27	15.75										
6.40	21	36	1.00	21.00										
6.60	18	33	1.00	18.00										
6.80	16	28	0.80	20.00										
7.00	16	26	0.67	23.88										
7.20	15	25	0.67	22.39										
7.40	17	26	0.60	28.33										
7.60	19	32	0.87	21.84										
7.80	17	33	1.07	15.89										
8.00	19	31	0.80	23.75										
8.20	23	38	1.00	23.00										

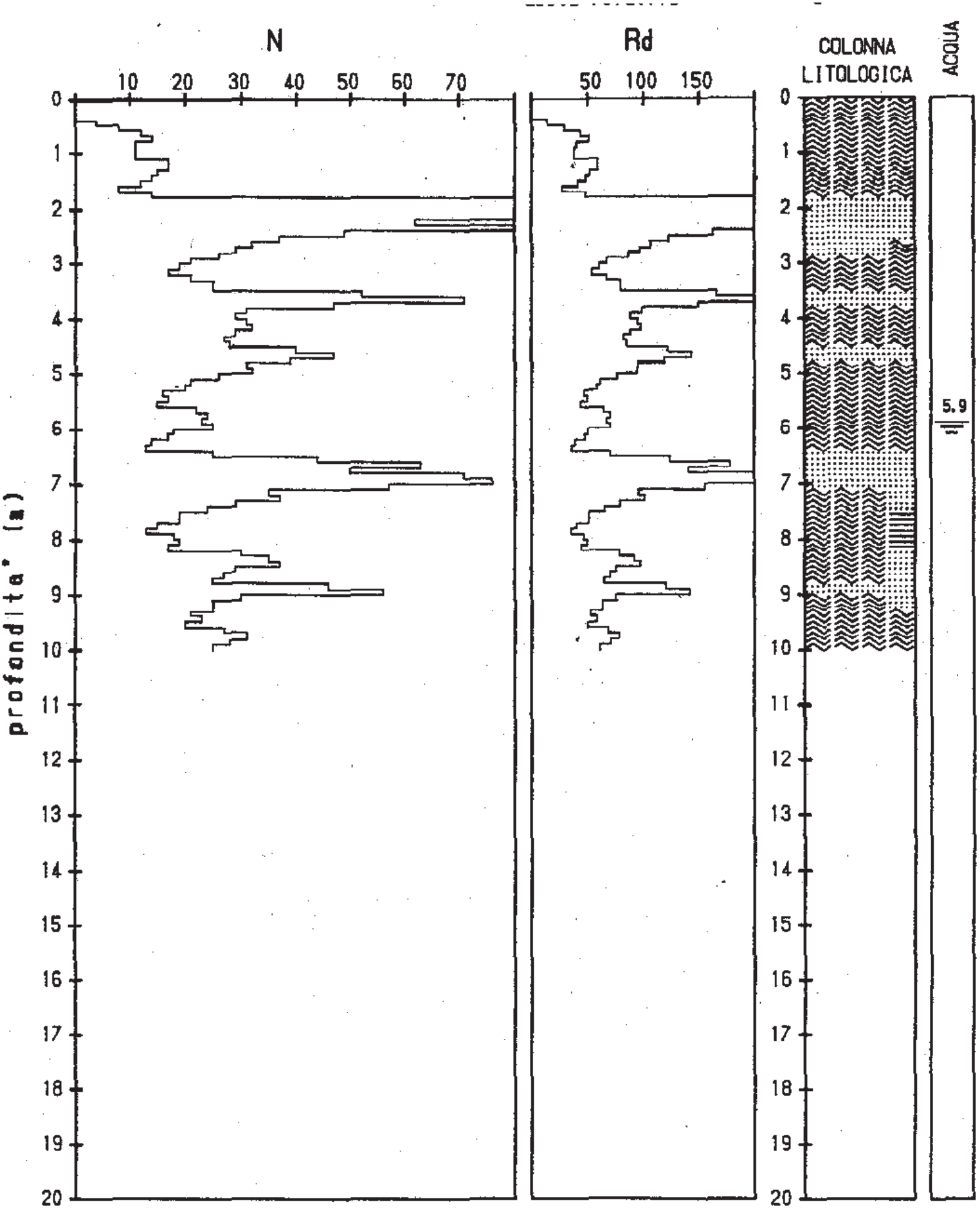
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

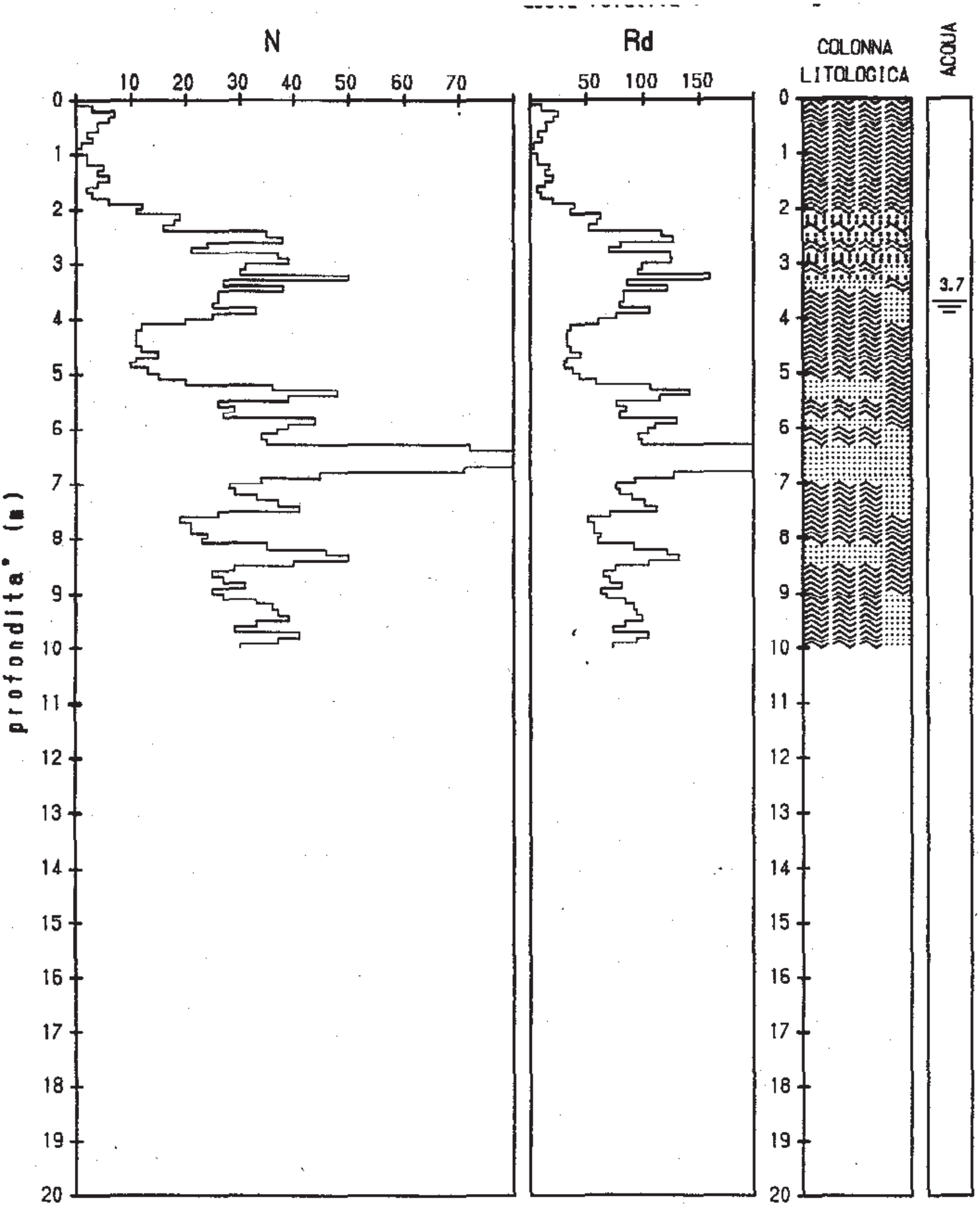
H m	qo kg/cmq	fs	Diagramma fs 5 4 3 2 1 0	Diagramma qo 10 20 30 40 50 60 70	BEGEMANN 1965 H2O AO A LA LS SL S SG	SCHM. 1978
0.2	18	0.200				SO
0.4	14	0.266				SO
0.6	19	0.666				ASL
0.8	15	0.600				A4
1.0	14	0.666				A4
1.2	14	0.666				A4
1.4	10	0.466				A4
1.6	12	0.600				A4
1.8	13	0.666				A4
2.0	14	0.866				A4
2.2	12	0.733				A4
2.4	11	0.733				A0
2.6	9	0.600				A0
2.8	11	0.666				A0
3.0	15	1.066				A0
3.2	16	1.133				A0
3.4	17	1.066				A5
3.6	19	1.200				A5
3.8	15	1.133				A0
4.0	12	0.733				A4
4.2	12	0.466				A4
4.4	14	0.600				A4
4.6	19	0.800				ASL
4.8	20	1.399				A5
5.0	20	1.399				A5
5.2	24	1.733				A5
5.4	22	1.600				A5
5.6	24	1.666				A5
5.8	22	1.666				A5
6.0	21	1.466				A5
6.2	20	1.266				A5
6.4	21	1.000				A5
6.6	18	1.000				A5
6.8	16	0.800				A4
7.0	16	0.666				A4
7.2	15	0.666				A4
7.4	17	0.600				ASL
7.6	19	0.866				A4
7.8	17	1.066				A5
8.0	19	0.800				ASL
8.2	23	1.000				ASL


FS (MN/MQ)
0.6 0.4 0.20
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
falda di Bucta
T A
LA LS
SL S
SG

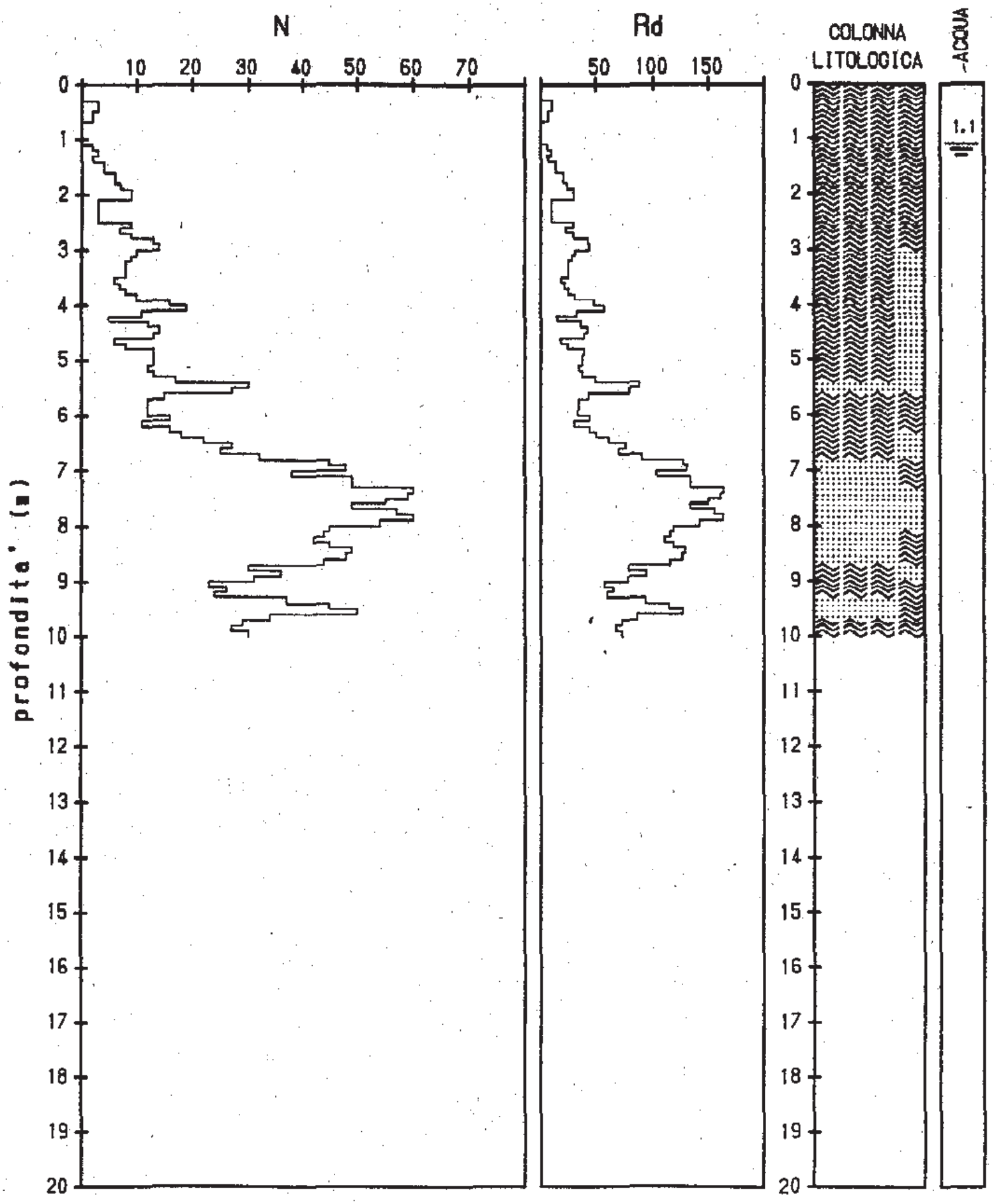
Prof	N	Rd	ø	Dr	Cu	mv
0.1	0	0.0	.	.	.	.
0.2	0	0.0	.	.	.	.
0.3	0	0.0	.	.	.	.
0.4	0	0.0	.	.	.	.
0.5	4	14.7	.	.	0.3	9.0
0.6	0	29.3	.	.	0.5	4.5
0.7	12	44.0	.	.	0.8	3.0
0.8	14	51.3	.	.	0.9	2.6
0.9	11	40.3	.	.	0.7	3.3
1.0	11	38.4	.	.	0.7	3.3
1.1	11	38.4	.	.	0.7	3.3
1.2	17	59.4	.	.	1.1	2.1
1.3	17	59.4	.	.	1.1	2.1
1.4	15	52.4	.	.	1.0	2.4
1.5	14	48.9	.	.	0.9	2.6
1.6	12	41.9	.	.	0.8	3.0
1.7	8	28.0	.	.	0.5	4.5
1.8	14	48.9	.	.	0.9	2.6
1.9	107	374.0	55	99	.	0.3
2.0	129	430.8	59	99	.	0.3
2.1	108	360.7	55	99	.	0.3
2.2	87	290.5	51	99	.	0.4
2.3	62	207.1	45	99	.	0.6
2.4	91	303.9	52	99	.	0.4
2.5	49	163.6	42	99	.	0.7
2.6	37	123.6	39	99	.	1.0
2.7	32	106.9	37	99	.	1.1
2.8	29	96.8	36	99	.	1.2
2.9	26	86.8	35	98	.	1.4
3.0	21	67.1	.	.	1.4	1.7
3.1	19	60.7	.	.	1.3	1.9
3.2	17	54.4	.	.	1.1	2.1
3.3	21	67.1	.	.	1.4	1.7
3.4	25	79.9	.	.	1.7	1.4
3.5	25	79.9	.	.	1.7	1.4
3.6	52	166.3	43	99	.	0.7
3.7	71	227.0	48	99	.	0.5
3.8	47	150.3	42	99	.	0.8
3.9	31	99.1	.	.	2.1	1.2
4.0	29	88.9	.	.	1.9	1.2
4.1	31	95.1	.	.	2.1	1.2
4.2	32	98.1	.	.	2.1	1.1
4.3	29	88.9	.	.	1.9	1.2
4.4	27	82.8	.	.	1.8	1.3
4.5	28	85.9	.	.	1.9	1.3
4.6	40	122.7	39	99	.	0.9
4.7	47	144.1	42	99	.	0.8
4.8	39	119.6	39	99	.	0.9
4.9	31	95.1	.	.	2.1	1.2
5.0	32	94.3	.	.	2.1	1.1
5.1	26	73.7	.	.	1.7	1.4
5.2	21	57.4	.	.	1.4	1.7
5.3	20	52.7	.	.	1.3	1.8
5.4	16	40.7	.	.	1.1	2.3
5.5	17	41.9	.	.	1.1	2.1
5.6	15	35.8	.	.	1.0	2.4
5.7	22	56.8	.	.	1.5	1.6
5.8	24	53.8	.	.	1.6	1.5
5.9	23	50.1	.	.	1.5	1.6
6.0	25	52.9	.	.	1.7	1.4
6.1	18	37.0	.	.	1.2	2.0
6.2	17	34.0	.	.	1.1	2.1
6.3	14	27.3	.	.	0.9	2.6
6.4	13	24.7	.	.	0.9	2.8
6.5	25	46.3	34	84	.	1.4
6.6	44	79.6	41	99	.	0.8
6.7	63	111.3	46	99	.	0.6
6.8	50	86.3	42	99	.	0.7
6.9	71	119.8	48	99	.	0.5
7.0	76	125.4	49	99	.	0.5
7.1	57	92.0	44	99	.	0.6
7.2	35	55.3	38	93	.	1.0
7.3	37	57.3	39	94	.	1.0
7.4	29	44.0	36	87	.	1.2
7.5	24	35.7	34	81	.	1.5
7.6	19	27.7	.	.	1.3	1.9
7.7	19	27.2	.	.	1.3	1.9
7.8	15	21.0	.	.	1.0	2.4
7.9	13	17.9	.	.	0.9	2.8
8.0	18	24.3	.	.	1.2	2.0
8.1	19	25.2	.	.	1.3	1.9
8.2	17	22.2	.	.	1.1	2.1
8.3	30	38.5	36	86	.	1.2
8.4	35	44.1	38	91	.	1.0
8.5	37	45.9	39	92	.	1.0
8.6	29	35.4	36	85	.	1.2
8.7	27	32.4	35	83	.	1.3
8.8	25	29.5	34	80	.	1.4
8.9	46	53.5	41	98	.	0.8
9.0	56	64.2	44	99	.	0.6
9.1	30	33.9	36	85	.	1.2
9.2	25	27.8	34	80	.	1.4
9.3	25	27.4	34	80	.	1.4
9.4	21	22.7	.	.	1.4	1.7
9.5	23	24.5	.	.	1.5	1.6
9.6	20	21.0	.	.	1.3	1.8
9.7	27	27.9	.	.	1.8	1.3
9.8	31	31.7	.	.	2.1	1.2
9.9	28	28.2	.	.	1.9	1.3
10.0	25	24.8	.	.	1.7	1.4


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA
LITOLOGICA
ACQUA
5.9
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

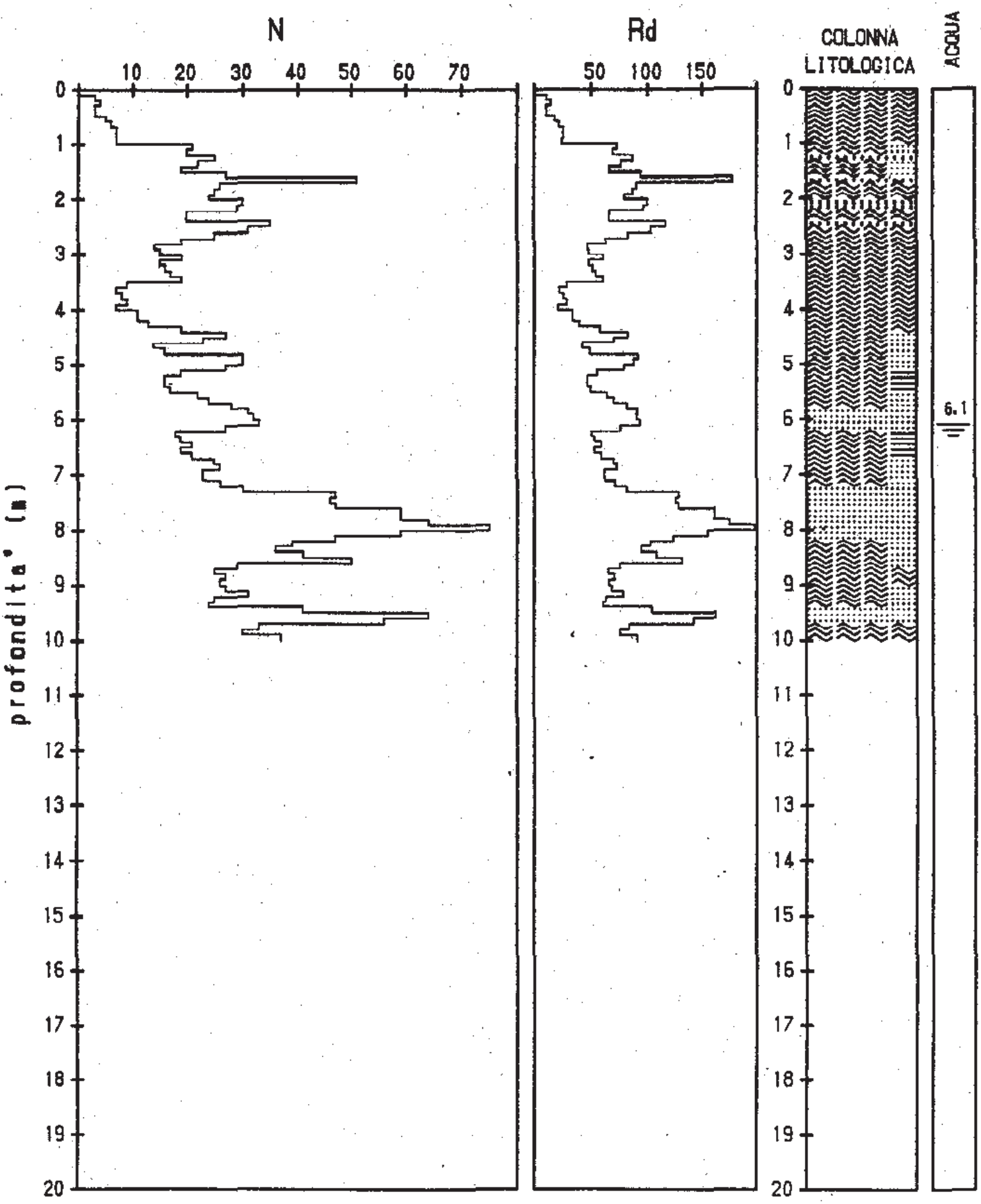
Prof	N	Rd	ø	Dr	Cu	mv
0.1	0	0.0	.	.	.	.
0.2	3	11.0	.	.	0.2	12.0
0.3	7	25.7	.	.	0.5	5.1
0.4	6	22.0	.	.	0.4	6.0
0.5	4	14.7	.	.	0.3	9.0
0.6	4	14.7	.	.	0.3	9.0
0.7	2	7.3	.	.	0.1	18.0
0.8	3	11.0	.	.	0.2	12.0
0.9	1	3.7	.	.	0.1	36.0
1.0	0	0.0	.	.	.	.
1.1	2	7.0	.	.	0.1	18.0
1.2	2	7.0	.	.	0.1	18.0
1.3	5	17.5	.	.	0.3	7.2
1.4	4	14.0	.	.	0.3	9.0
1.5	6	21.0	.	.	0.4	6.0
1.6	4	14.0	.	.	0.3	9.0
1.7	2	7.0	.	.	0.1	18.0
1.8	3	10.5	.	.	0.2	12.0
1.9	6	21.0	.	.	0.4	6.0
2.0	12	40.1	.	.	0.8	3.0
2.1	11	36.7	.	.	0.7	3.3
2.2	19	63.5	32	93	.	1.9
2.3	18	60.1	31	91	.	2.0
2.4	16	53.4	.	.	1.1	2.3
2.5	35	116.9	38	99	.	1.0
2.6	38	126.9	39	99	.	0.9
2.7	24	80.1	.	.	1.6	1.5
2.8	21	70.1	.	.	1.4	1.7
2.9	37	123.6	39	99	.	1.0
3.0	39	124.7	39	99	.	0.9
3.1	31	99.1	37	99	.	1.2
3.2	30	95.9	36	99	.	1.2
3.3	50	159.9	42	99	.	0.7
3.4	27	86.3	35	97	.	1.3
3.5	38	121.5	39	99	.	0.9
3.6	26	83.1	35	94	.	1.4
3.7	26	83.1	35	94	.	1.4
3.8	25	79.9	34	93	.	1.4
3.9	33	105.5	37	99	.	1.1
4.0	25	76.7	34	92	.	1.4
4.1	20	61.3	32	85	.	1.8
4.2	12	36.8	.	.	0.8	3.0
4.3	11	33.7	.	.	0.7	3.3
4.4	11	33.7	.	.	0.7	3.3
4.5	11	33.7	.	.	0.7	3.3
4.6	12	36.8	.	.	0.8	3.0
4.7	15	46.0	.	.	1.0	2.4
4.8	11	33.7	.	.	0.7	3.3
4.9	10	30.7	.	.	0.7	3.6
5.0	13	38.3	.	.	0.9	2.8
5.1	15	42.5	.	.	1.0	2.4
5.2	20	54.6	32	82	.	1.8
5.3	36	94.9	38	99	.	1.0
5.4	48	122.2	42	99	.	0.8
5.5	39	96.0	39	99	.	0.9
5.6	26	62.0	.	.	1.7	1.4
5.7	29	67.0	.	.	1.9	1.2
5.8	27	60.5	.	.	1.8	1.3
5.9	44	95.8	41	99	.	0.8
6.0	39	82.5	39	99	.	0.9
6.1	37	76.1	39	99	.	1.0
6.2	34	68.1	38	96	.	1.1
6.3	35	68.3	38	97	.	1.0
6.4	72	136.9	48	99	.	0.5
6.5	108	200.2	55	99	.	0.3
6.6	94	170.1	53	99	.	0.4
6.7	103	181.9	54	99	.	0.3
6.8	71	122.5	48	99	.	0.5
6.9	45	75.9	41	99	.	0.8
7.0	34	56.1	38	94	.	1.1
7.1	28	45.2	35	88	.	1.3
7.2	29	45.8	36	89	.	1.2
7.3	33	51.1	37	93	.	1.1
7.4	37	56.1	39	96	.	1.0
7.5	41	60.9	40	99	.	0.9
7.6	26	37.9	35	85	.	1.4
7.7	19	27.2	.	.	1.3	1.9
7.8	21	29.5	.	.	1.4	1.7
7.9	21	28.9	.	.	1.4	1.7
8.0	24	32.5	.	.	1.6	1.5
8.1	23	30.6	.	.	1.5	1.6
8.2	35	45.7	38	93	.	1.0
8.3	46	59.0	41	99	.	0.8
8.4	50	63.1	42	99	.	0.7
8.5	40	49.6	39	97	.	0.9
8.6	29	35.4	.	.	1.9	1.2
8.7	25	30.0	.	.	1.7	1.4
8.8	27	31.9	.	.	1.8	1.3
8.9	31	36.1	.	.	2.1	1.2
9.0	25	28.6	.	.	1.7	1.4
9.1	27	30.5	35	84	.	1.3
9.2	33	36.7	37	90	.	1.1
9.3	36	39.4	38	92	.	1.0
9.4	37	40.0	39	93	.	1.0
9.5	39	41.5	39	94	.	0.9
9.6	33	34.6	37	89	.	1.1
9.7	29	30.0	36	85	.	1.2
9.8	41	41.9	40	95	.	0.9
9.9	37	37.3	39	92	.	1.0
10.0	30	29.8	36	86	.	1.2


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
3.7
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Prof	N	Rd	ø	Dr	Cu	mv
0.1	0	0.0	.	.	.	.
0.2	0	0.0	.	.	.	.
0.3	0	0.0	.	.	.	.
0.4	3	11.0	.	.	0.2	12.0
0.5	3	11.0	.	.	0.2	12.0
0.6	2	7.3	.	.	0.1	18.0
0.7	2	7.3	.	.	0.1	18.0
0.8	0	0.0	.	.	.	.
0.9	0	0.0	.	.	.	.
1.0	0	0.0	.	.	.	.
1.1	0	0.0	.	.	.	.
1.2	2	7.0	.	.	0.1	18.0
1.3	3	10.5	.	.	0.2	12.0
1.4	2	7.0	.	.	0.1	18.0
1.5	4	14.0	.	.	0.3	9.0
1.6	4	14.0	.	.	0.3	9.0
1.7	6	21.0	.	.	0.4	6.0
1.8	6	21.0	.	.	0.4	6.0
1.9	7	24.5	.	.	0.5	5.1
2.0	9	30.1	.	.	0.6	4.0
2.1	9	30.1	.	.	0.6	4.0
2.2	3	10.0	.	.	0.2	12.0
2.3	3	10.0	.	.	0.2	12.0
2.4	3	10.0	.	.	0.2	12.0
2.5	3	10.0	.	.	0.2	12.0
2.6	9	30.1	.	.	0.6	4.0
2.7	7	23.4	.	.	0.5	5.1
2.8	9	30.1	.	.	0.6	4.0
2.9	13	43.4	.	.	0.9	2.8
3.0	14	44.8	.	.	0.9	2.6
3.1	10	32.0	27	72	.	3.6
3.2	9	28.8	27	69	.	4.0
3.3	8	25.6	26	65	.	4.5
3.4	8	25.6	26	64	.	4.5
3.5	8	25.6	26	64	.	4.5
3.6	6	19.2	24	55	.	6.0
3.7	7	22.4	25	59	.	5.1
3.8	8	25.6	26	63	.	4.5
3.9	10	32.0	27	69	.	3.6
4.0	16	49.1	30	83	.	2.3
4.1	19	58.3	32	88	.	1.9
4.2	11	33.7	28	71	.	3.3
4.3	5	15.3	24	47	.	7.2
4.4	12	36.8	28	73	.	3.0
4.5	14	42.9	29	77	.	2.6
4.6	13	39.9	29	75	.	2.8
4.7	6	18.4	24	51	.	6.0
4.8	8	24.5	26	59	.	4.5
4.9	13	39.9	29	74	.	2.8
5.0	13	38.3	29	73	.	2.8
5.1	13	36.9	29	73	.	2.8
5.2	12	32.8	28	70	.	3.0
5.3	13	34.3	29	72	.	2.8
5.4	17	43.3	31	80	.	2.1
5.5	30	73.9	36	97	.	1.2
5.6	27	64.4	35	94	.	1.3
5.7	15	34.7	.	.	1.0	2.4
5.8	12	26.9	.	.	0.8	3.0
5.9	12	26.1	.	.	0.8	3.0
6.0	12	25.4	.	.	0.8	3.0
6.1	16	32.9	.	.	1.1	2.3
6.2	11	22.0	.	.	0.7	3.3
6.3	16	31.2	.	.	1.1	2.3
6.4	18	34.2	31	79	.	2.0
6.5	22	40.8	33	85	.	1.6
6.6	27	48.8	35	91	.	1.3
6.7	25	44.2	34	88	.	1.4
6.8	32	55.2	37	96	.	1.1
6.9	45	75.9	41	99	.	0.8
7.0	48	79.2	42	99	.	0.8
7.1	38	61.3	39	99	.	0.9
7.2	49	77.4	42	99	.	0.7
7.3	49	75.8	42	99	.	0.7
7.4	60	91.0	45	99	.	0.6
7.5	59	87.7	45	99	.	0.6
7.6	55	80.2	44	99	.	0.7
7.7	49	70.1	42	99	.	0.7
7.8	57	80.0	44	99	.	0.6
7.9	60	82.6	45	99	.	0.6
8.0	54	73.0	43	99	.	0.7
8.1	45	59.8	41	99	.	0.8
8.2	44	57.4	41	99	.	0.8
8.3	42	53.9	40	99	.	0.9
8.4	45	56.8	41	99	.	0.8
8.5	49	60.8	42	99	.	0.7
8.6	48	58.6	42	99	.	0.8
8.7	44	52.8	41	99	.	0.8
8.8	30	35.5	36	90	.	1.2
8.9	36	41.9	38	95	.	1.0
9.0	31	35.5	37	90	.	1.2
9.1	23	26.0	.	.	1.5	1.6
9.2	26	28.9	.	.	1.7	1.4
9.3	24	26.3	.	.	1.6	1.5
9.4	37	40.0	39	95	.	1.0
9.5	45	47.9	41	99	.	0.8
9.6	50	52.5	42	99	.	0.7
9.7	34	35.2	38	92	.	1.1
9.8	29	29.6	.	.	1.9	1.2
9.9	27	27.2	.	.	1.8	1.3
10.0	30	29.8	.	.	2.0	1.2


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
-ACQUA
1.1
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Prof	N	Rd	ø	Dr	Cu	mv
0.1	0	0.0	.	.	.	.
0.2	3	11.0	.	.	0.2	12.0
0.3	4	14.7	.	.	0.3	9.0
0.4	3	11.0	.	.	0.2	12.0
0.5	3	11.0	.	.	0.2	12.0
0.6	5	18.3	.	.	0.3	7.2
0.7	6	22.0	.	.	0.4	6.0
0.8	7	25.7	.	.	0.5	5.1
0.9	7	25.7	.	.	0.5	5.1
1.0	7	24.5	.	.	0.5	5.1
1.1	21	73.4	33	99	.	1.7
1.2	20	69.9	32	99	.	1.8
1.3	25	87.4	34	99	.	1.4
1.4	22	76.9	33	99	.	1.6
1.5	19	66.4	32	99	.	1.9
1.6	27	94.4	35	99	.	1.3
1.7	51	178.3	43	99	.	0.7
1.8	26	90.9	.	.	1.7	1.4
1.9	25	87.4	.	.	1.7	1.4
2.0	24	80.1	.	.	1.6	1.5
2.1	30	100.2	36	99	.	1.2
2.2	29	96.8	36	99	.	1.2
2.3	20	66.8	.	.	1.3	1.8
2.4	20	66.8	.	.	1.3	1.8
2.5	35	116.9	38	99	.	1.0
2.6	31	103.5	.	.	2.1	1.2
2.7	25	83.5	.	.	1.7	1.4
2.8	19	63.5	.	.	1.3	1.9
2.9	14	46.8	.	.	0.9	2.6
3.0	15	48.0	.	.	1.0	2.4
3.1	19	60.7	.	.	1.3	1.9
3.2	15	48.0	.	.	1.0	2.4
3.3	16	51.2	.	.	1.1	2.3
3.4	17	54.4	.	.	1.1	2.1
3.5	19	60.7	.	.	1.3	1.9
3.6	9	28.8	.	.	0.6	4.0
3.7	7	22.4	.	.	0.5	5.1
3.8	8	25.6	.	.	0.5	4.5
3.9	9	28.8	.	.	0.6	4.0
4.0	7	21.5	.	.	0.5	5.1
4.1	11	33.7	.	.	0.7	3.3
4.2	11	33.7	.	.	0.7	3.3
4.3	13	39.9	.	.	0.9	2.8
4.4	19	58.3	.	.	1.3	1.9
4.5	27	82.8	35	92	.	1.3
4.6	23	70.5	34	87	.	1.6
4.7	14	42.9	29	71	.	2.6
4.8	16	49.1	30	75	.	2.3
4.9	30	92.0	36	94	.	1.2
5.0	30	88.4	36	93	.	1.2
5.1	27	76.5	35	90	.	1.3
5.2	19	51.9	.	.	1.3	1.9
5.3	16	42.2	.	.	1.1	2.3
5.4	16	40.7	.	.	1.1	2.3
5.5	17	41.9	.	.	1.1	2.1
5.6	22	52.5	33	82	.	1.6
5.7	24	55.5	34	84	.	1.5
5.8	28	62.8	35	89	.	1.3
5.9	31	67.5	37	91	.	1.2
6.0	32	67.7	37	92	.	1.1
6.1	33	67.9	37	93	.	1.1
6.2	27	54.1	35	87	.	1.3
6.3	18	35.1	.	.	1.2	2.0
6.4	19	36.1	.	.	1.3	1.9
6.5	21	38.9	.	.	1.4	1.7
6.6	19	34.4	.	.	1.3	1.9
6.7	21	37.1	.	.	1.4	1.7
6.8	25	43.1	34	83	.	1.4
6.9	26	43.9	35	84	.	1.4
7.0	23	37.9	34	80	.	1.6
7.1	23	37.1	34	80	.	1.6
7.2	26	41.1	35	84	.	1.4
7.3	30	46.4	36	88	.	1.2
7.4	47	71.3	42	99	.	0.8
7.5	46	68.4	41	99	.	0.8
7.6	47	68.5	42	99	.	0.8
7.7	59	84.4	45	99	.	0.6
7.8	59	82.8	45	99	.	0.6
7.9	64	88.1	46	99	.	0.6
8.0	75	101.4	49	99	.	0.5
8.1	59	78.4	45	99	.	0.6
8.2	47	61.3	42	99	.	0.8
8.3	39	50.0	39	94	.	0.9
8.4	36	45.4	38	92	.	1.0
8.5	41	50.9	40	95	.	0.9
8.6	50	61.0	42	99	.	0.7
8.7	29	34.8	36	85	.	1.2
8.8	25	29.5	.	.	1.7	1.4
8.9	27	31.4	.	.	1.8	1.3
9.0	26	29.8	.	.	1.7	1.4
9.1	27	30.5	35	82	.	1.3
9.2	31	34.5	37	86	.	1.2
9.3	25	27.4	34	79	.	1.4
9.4	24	25.9	34	78	.	1.5
9.5	41	43.6	40	94	.	0.9
9.6	64	67.2	46	99	.	0.6
9.7	56	58.0	44	99	.	0.6
9.8	33	33.7	.	.	2.2	1.1
9.9	30	30.2	.	.	2.0	1.2
10.0	37	36.8	.	.	2.5	1.0

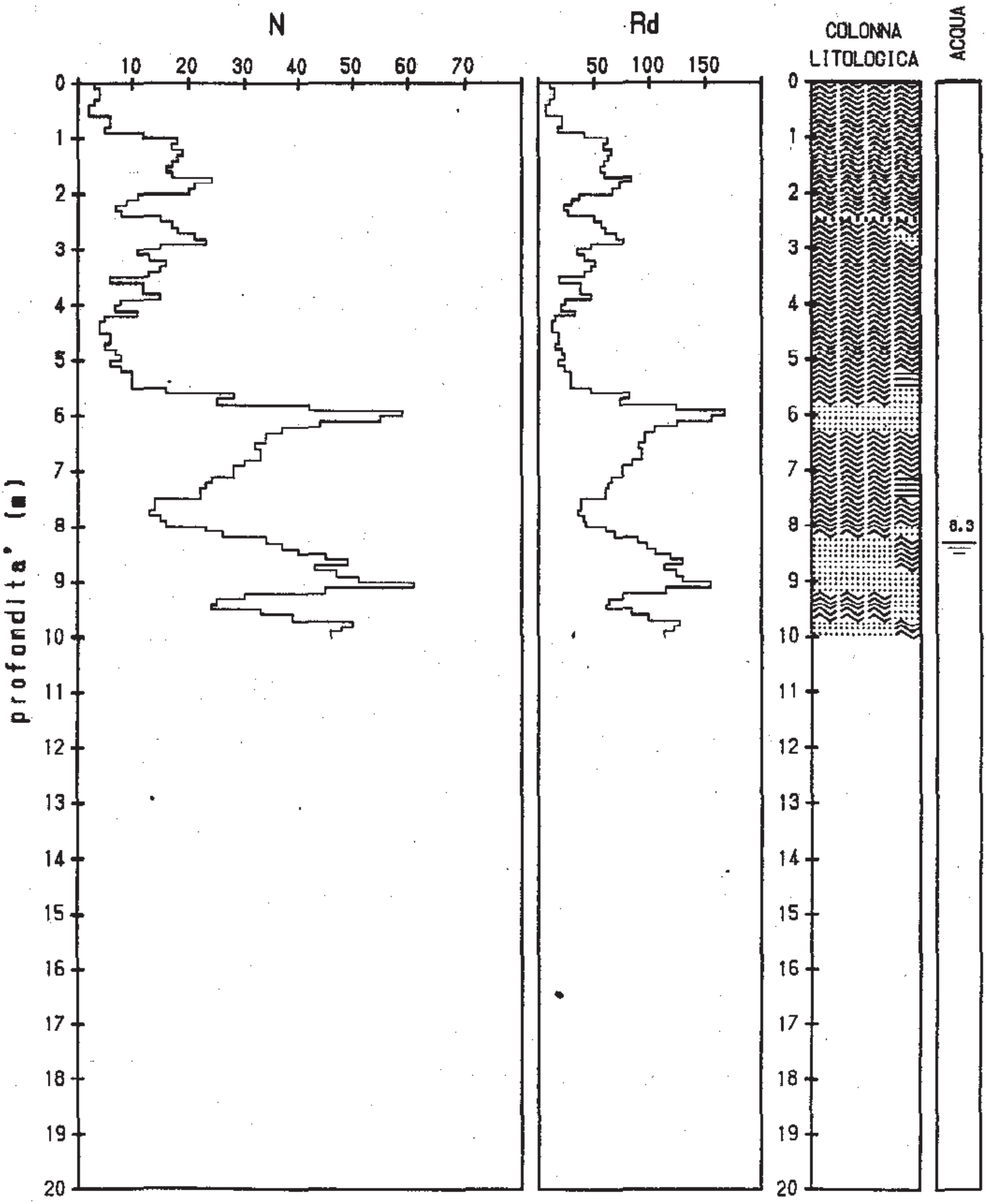

N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
6.1
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1430

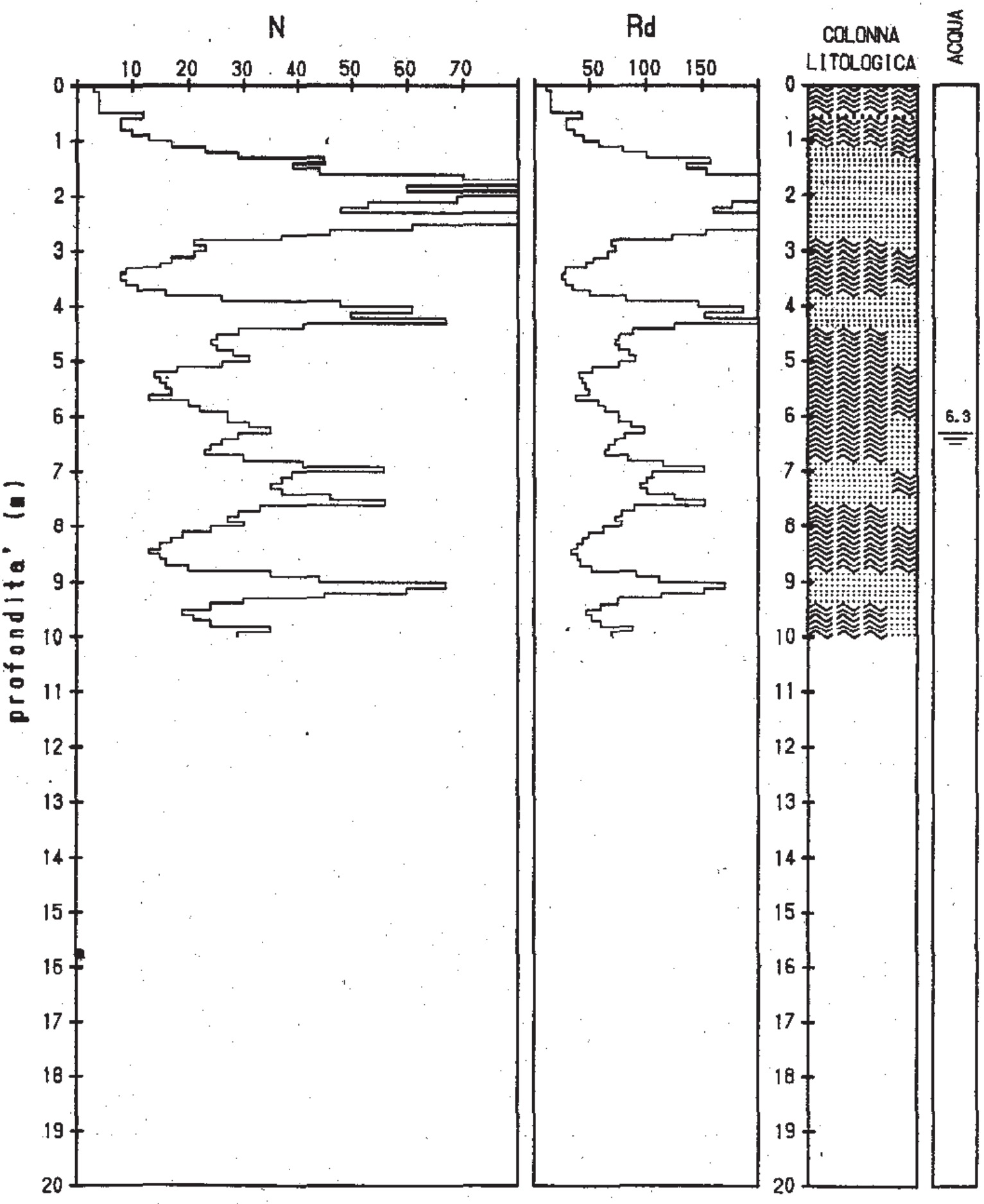
Prof	N	Rd	ø	Dr	Cu	mv
0.1	3	11.0	.	.	0.2	12.0
0.2	4	14.7	.	.	0.3	9.0
0.3	4	14.7	.	.	0.3	9.0
0.4	3	11.0	.	.	0.2	12.0
0.5	2	7.3	.	.	0.1	18.0
0.6	2	7.3	.	.	0.1	18.0
0.7	6	22.0	.	.	0.4	6.0
0.8	6	22.0	.	.	0.4	6.0
0.9	5	18.3	.	.	0.3	7.2
1.0	12	41.9	.	.	0.8	3.0
1.1	18	62.9	.	.	1.2	2.0
1.2	17	59.4	.	.	1.1	2.1
1.3	19	66.4	.	.	1.3	1.9
1.4	18	62.9	.	.	1.2	2.0
1.5	17	59.4	.	.	1.1	2.1
1.6	16	55.9	.	.	1.1	2.3
1.7	17	59.4	.	.	1.1	2.1
1.8	24	83.9	.	.	1.6	1.5
1.9	21	73.4	.	.	1.4	1.7
2.0	20	66.8	.	.	1.3	1.8
2.1	11	36.7	.	.	0.7	3.3
2.2	9	30.1	.	.	0.6	4.0
2.3	7	23.4	.	.	0.5	5.1
2.4	8	26.7	.	.	0.5	4.5
2.5	15	50.1	30	84	.	2.4
2.6	17	56.8	.	.	1.1	2.1
2.7	18	60.1	.	.	1.2	2.0
2.8	21	70.1	33	92	.	1.7
2.9	23	76.8	34	94	.	1.6
3.0	15	48.0	.	.	1.0	2.4
3.1	11	35.2	.	.	0.7	3.3
3.2	13	41.6	.	.	0.9	2.8
3.3	16	51.2	.	.	1.1	2.3
3.4	15	48.0	.	.	1.0	2.4
3.5	13	41.6	.	.	0.9	2.8
3.6	6	19.2	.	.	0.4	6.0
3.7	12	38.4	.	.	0.8	3.0
3.8	12	38.4	.	.	0.8	3.0
3.9	15	48.0	.	.	1.0	2.4
4.0	8	24.5	.	.	0.5	4.5
4.1	7	21.5	.	.	0.5	5.1
4.2	11	33.7	.	.	0.7	3.3
4.3	5	15.3	.	.	0.3	7.2
4.4	4	12.3	.	.	0.3	9.0
4.5	4	12.3	.	.	0.3	9.0
4.6	6	18.4	.	.	0.4	6.0
4.7	6	18.4	.	.	0.4	6.0
4.8	5	15.3	.	.	0.3	7.2
4.9	7	21.5	.	.	0.5	5.1
5.0	8	23.6	.	.	0.5	4.5

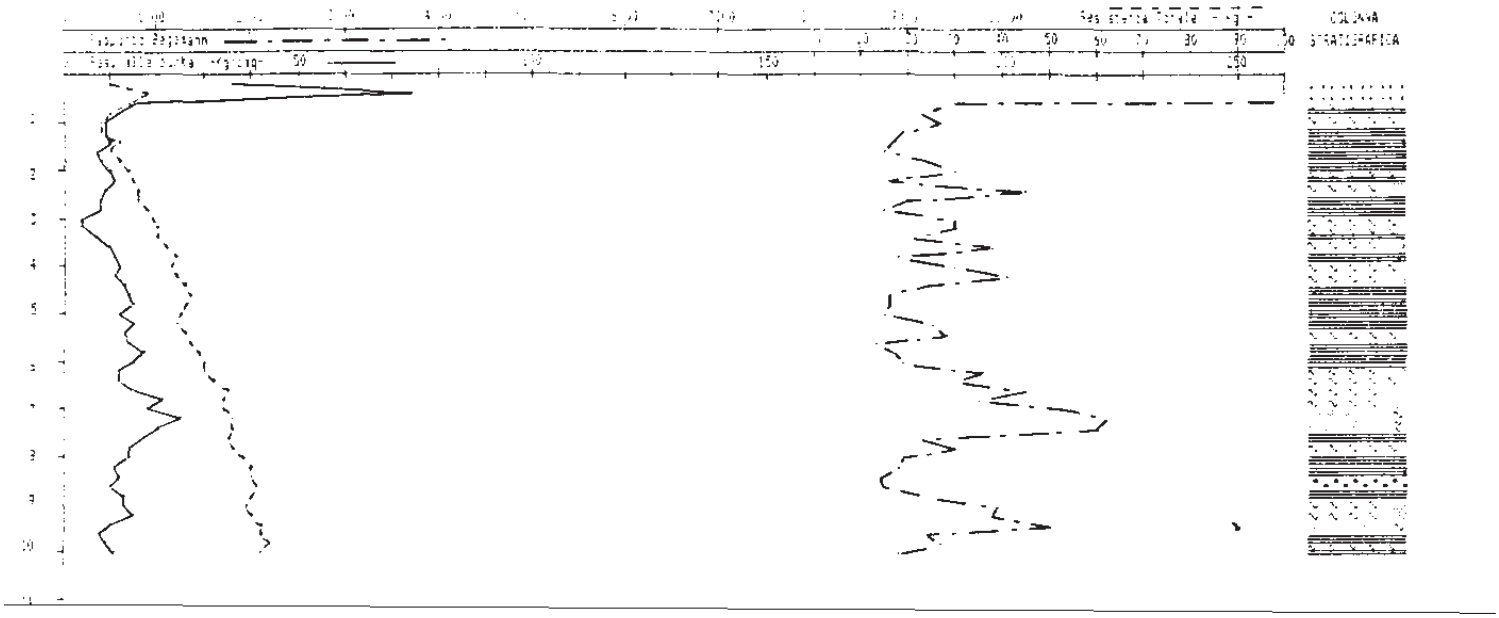
Prof	N	Rd	ø	Dr	Cu	mv
5.1	6	17.0	.	.	0.4	6.0
5.2	8	21.9	.	.	0.5	4.5
5.3	10	26.4	.	.	0.7	3.6
5.4	10	25.5	.	.	0.7	3.6
5.5	10	24.6	.	.	0.7	3.6
5.6	16	38.1	38	72	.	2.3
5.7	28	64.7	35	89	.	1.3
5.8	25	56.0	34	85	.	1.4
5.9	42	91.4	40	99	.	0.9
6.0	59	124.8	45	99	.	0.6
6.1	55	113.1	44	99	.	0.7
6.2	44	88.1	41	99	.	0.8
6.3	37	72.2	39	96	.	1.0
6.4	34	64.6	.	.	2.3	1.1
6.5	34	63.0	.	.	2.3	1.1
6.6	32	57.9	.	.	2.1	1.3
6.7	33	58.3	.	.	2.2	1.1
6.8	33	57.0	.	.	2.2	1.1
6.9	30	50.6	.	.	2.0	1.2
7.0	28	46.2	.	.	1.9	1.3
7.1	28	45.2	.	.	1.9	1.3
7.2	24	37.9	.	.	1.6	1.5
7.3	23	35.6	.	.	1.5	1.6
7.4	22	33.4	.	.	1.5	1.6
7.5	22	32.7	.	.	1.5	1.6
7.6	14	20.4	.	.	0.9	2.6
7.7	14	20.0	.	.	0.9	2.6
7.8	13	18.2	.	.	0.9	2.8
7.9	15	20.7	.	.	1.0	2.4
8.0	16	21.6	.	.	1.1	2.3
8.1	23	30.6	34	77	.	1.6
8.2	26	33.9	35	81	.	1.4
8.3	34	43.6	38	88	.	1.1
8.4	37	46.7	39	91	.	1.0
8.5	40	49.6	39	93	.	0.9
8.6	45	54.9	41	97	.	0.8
8.7	49	58.8	42	99	.	0.7
8.8	43	50.8	40	95	.	0.8
8.9	47	54.7	42	97	.	0.8
9.0	51	58.4	43	99	.	0.7
9.1	61	68.8	45	99	.	0.6
9.2	45	50.0	41	96	.	0.8
9.3	30	32.9	36	83	.	1.2
9.4	25	27.0	34	78	.	1.4
9.5	24	25.5	34	77	.	1.5
9.6	33	34.6	37	86	.	1.1
9.7	39	40.4	39	91	.	0.9
9.8	50	51.0	42	98	.	0.7
9.9	48	48.3	42	97	.	0.8
10.0	46	45.7	41	95	.	0.8

1430


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
8.3
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Prof	N	Rd	ø	Dr	Cu	mv
0.1	3	11.0	.	.	0.2	12.0
0.2	4	14.7	.	.	0.3	9.0
0.3	4	14.7	.	.	0.3	9.0
0.4	4	14.7	.	.	0.3	9.0
0.5	4	14.7	.	.	0.3	9.0
0.6	12	44.0	28	99	.	3.0
0.7	8	29.3	.	.	0.5	4.5
0.8	8	29.3	.	.	0.5	4.5
0.9	10	36.7	.	.	0.7	3.6
1.0	13	45.4	.	.	0.9	2.8
1.1	17	59.4	.	.	1.1	2.1
1.2	23	80.4	34	99	.	1.6
1.3	29	101.4	36	99	.	1.2
1.4	45	157.3	41	99	.	0.8
1.5	39	136.3	39	99	.	0.9
1.6	44	153.8	41	99	.	0.8
1.7	70	244.7	47	99	.	0.5
1.8	84	293.6	50	99	.	0.4
1.9	60	209.7	45	99	.	0.6
2.0	112	374.0	56	99	.	0.3
2.1	69	230.4	47	99	.	0.5
2.2	53	177.0	43	99	.	0.7
2.3	48	160.3	42	99	.	0.8
2.4	87	290.5	51	99	.	0.4
2.5	98	327.3	53	99	.	0.4
2.6	61	203.7	45	99	.	0.6
2.7	46	153.6	41	99	.	0.8
2.8	37	123.6	39	99	.	1.0
2.9	21	70.1	33	92	.	1.7
3.0	23	73.5	34	94	.	1.6
3.1	21	67.1	.	.	1.4	1.7
3.2	17	54.4	.	.	1.1	2.1
3.3	15	48.0	.	.	1.0	2.4
3.4	9	28.8	.	.	0.6	4.0
3.5	8	25.6	.	.	0.5	4.5
3.6	9	28.8	.	.	0.6	4.0
3.7	11	35.2	28	68	.	3.3
3.8	16	51.2	30	79	.	2.3
3.9	26	83.1	35	93	.	1.4
4.0	48	147.2	42	99	.	0.8
4.1	61	187.1	45	99	.	0.6
4.2	50	153.3	42	99	.	0.7
4.3	67	205.5	47	99	.	0.5
4.4	41	125.7	40	99	.	0.9
4.5	29	88.9	36	94	.	1.2
4.6	25	76.7	34	89	.	1.4
4.7	24	73.6	34	88	.	1.5
4.8	25	76.7	34	88	.	1.4
4.9	28	85.9	35	92	.	1.3
5.0	31	91.3	37	94	.	1.2
5.1	26	73.7	35	89	.	1.4
5.2	18	49.2	.	.	1.2	2.0
5.3	14	36.9	.	.	0.9	2.6
5.4	15	38.2	.	.	1.0	2.4
5.5	16	39.4	.	.	1.1	2.3
5.6	17	40.5	.	.	1.1	2.1
5.7	13	30.0	.	.	0.9	2.8
5.8	20	44.8	.	.	1.3	1.8
5.9	22	47.9	.	.	1.5	1.6
6.0	27	57.1	.	.	1.8	1.3
6.1	27	55.5	35	87	.	1.3
6.2	31	62.1	37	91	.	1.2
6.3	35	68.3	38	94	.	1.0
6.4	29	55.1	36	88	.	1.2
6.5	26	48.2	35	85	.	1.4
6.6	24	43.4	34	82	.	1.5
6.7	23	40.6	34	81	.	1.6
6.8	30	51.8	36	89	.	1.2
6.9	41	69.2	40	98	.	0.9
7.0	56	92.4	44	99	.	0.6
7.1	39	63.0	39	96	.	0.9
7.2	37	58.5	39	94	.	1.0
7.3	35	54.2	38	92	.	1.0
7.4	37	56.1	39	94	.	1.0
7.5	46	68.4	41	99	.	0.8
7.6	56	81.6	44	99	.	0.6
7.7	33	47.2	37	90	.	1.1
7.8	29	40.7	36	86	.	1.2
7.9	27	37.2	35	84	.	1.3
8.0	30	40.6	36	87	.	1.2
8.1	24	31.9	.	.	1.6	1.5
8.2	19	24.8	.	.	1.3	1.9
8.3	17	21.8	.	.	1.1	2.1
8.4	15	18.9	.	.	1.0	2.4
8.5	13	16.1	.	.	0.9	2.8
8.6	15	18.3	.	.	1.0	2.4
8.7	16	19.2	.	.	1.1	2.3
8.8	20	23.6	.	.	1.3	1.8
8.9	35	40.7	38	90	.	1.0
9.0	44	50.4	41	97	.	0.8
9.1	67	75.6	47	99	.	0.5
9.2	60	66.7	45	99	.	0.6
9.3	45	49.3	41	97	.	0.8
9.4	30	32.4	36	85	.	1.2
9.5	24	25.5	34	78	.	1.5
9.6	19	19.9	32	71	.	1.9
9.7	21	21.7	33	74	.	1.7
9.8	24	24.5	34	77	.	1.5
9.9	35	35.3	38	89	.	1.0
10.0	29	28.8	36	83	.	1.2


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
6.3
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



Lettura di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
.2	220	310	430
.4	470	540	700
.6	140	250	300
.8	110	206	400
1	140	250	500
1.2	70	110	500
1.4	90	130	450
1.6	100	200	700
1.8	90	140	650
2	90	120	700
2.2	60	90	800
2.4	100	130	900
2.6	90	120	850
2.8	60	90	800
3	80	140	900
3.2	90	140	1000
3.4	110	170	1250
3.6	120	200	1000
3.8	120	180	1100
4	80	130	1150
4.2	110	190	1100
4.4	130	210	1150
4.6	130	230	1200
4.8	140	210	1100
5	120	190	1200
5.2	140	210	1300
5.4	150	240	1250
5.6	120	190	1700
5.8	170	220	1410
6	120	230	1450
6.2	140	240	1500
6.4	120	180	1400
6.6	170	230	1450
6.8	200	270	1750
7	190	260	1800
7.2	210	290	1900
7.4	120	230	1900
7.6	160	270	2000
7.8	120	200	1850
8	100	140	2000

Valori derivati

Rst-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	Nr [cmq/t]
90	.53	41	330			.38	17.15
70	.46	101	230	25	37		13.14
90	.6	27	540			.56	17.93
90	.6	18	490			.44	19.64
50	.33	20	400			.4	20.3
40	.26	26	430			.28	23.81
40	.26	14	510			.36	21.16
100	.66	15	600			.4	20.3
60	.4	20	570			.32	22.29
30	.2	45	610			.26	21.16
20	.2	10	740			.24	25.93
30	.2	50	900	25	0		20.3
40	.26	20	570			.32	22.29
20	.2	20	740			.28	25.93
20	.4	20	920			.32	22.29
20	.13	27	910			.36	21.16
60	.4	27	940			.44	19.64
50	.33	23	880			.48	19.13
60	.4	25	1000			.4	20.3
50	.33	20	970			.32	22.29
70	.46	24	990			.36	21.16
60	.33	24	1020			.32	22.72
30	.33	23	980			.48	19.13
70	.46	20	1060			.56	18.4
90	.53	25	1090			.44	19.64
70	.46	30	1160			.56	18.4
90	.73	45	1270			.6	18.14
40	.26	49	1170	25	12		18.72
40	.6	22	1270			.32	18.72
130	.86	17	1250			.6	18.14
150	1	14	1750			.56	18.4
70	.46	45	1480			.48	19.13
75	.45	36	1430			.68	17.75
70	.46	43	1550			.8	17.36
70	.46	41	1510			.76	17.47
70	.45	45	1590			.88	17.25
80	.53	28	1750			.6	18.14
110	.73	22	1840			.64	17.93
90	.53	23	1830			.48	19.13
40	.26	19	1900			.4	20.3

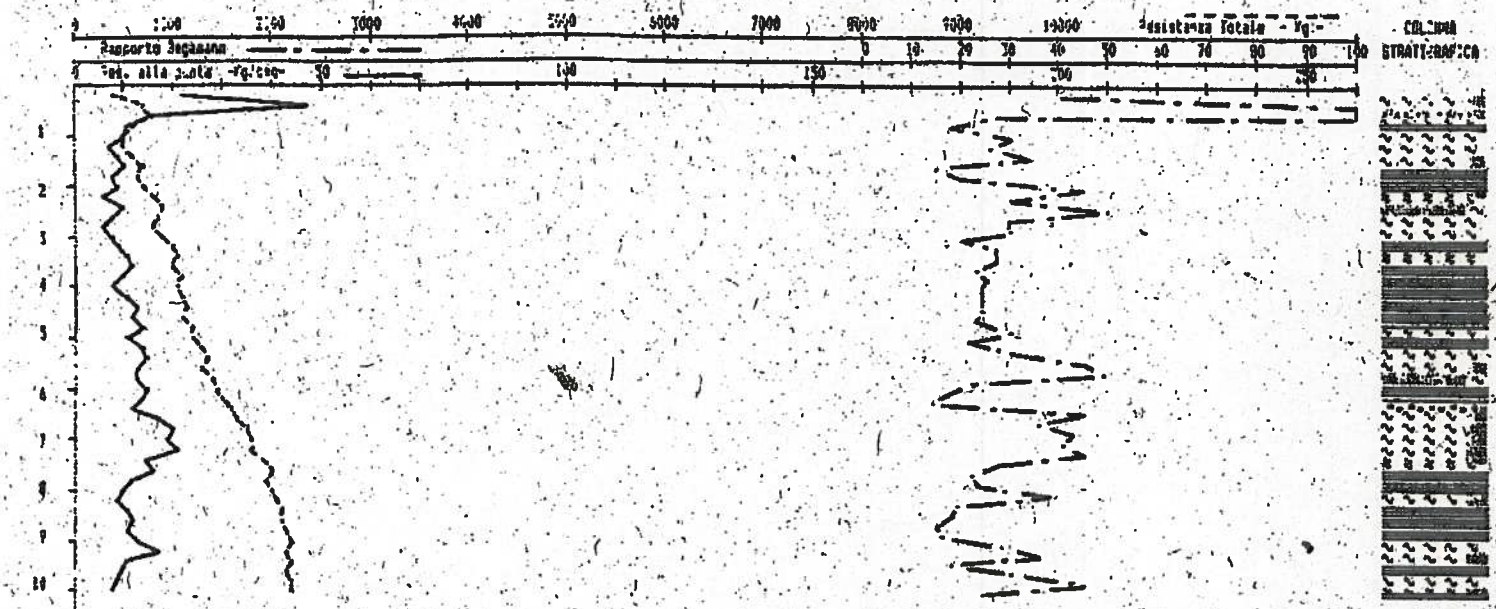
Lettura di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rst [Kg]	Rt [Kg]
6.2	90	160	2050
6.4	110	200	2110
6.6	150	240	2130
6.8	110	210	2150
7	150	230	2200
7.2	170	240	2150
7.4	110	200	2200
7.6	100	150	2250
7.8	90	120	2200
8	90	130	2210

Valori derivati

Rst-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	Nr [cmq/t]
70	.46	19	1750			.36	21.16
90	.6	18	1990			.44	19.64
120	.8	15	1930			.48	19.13
100	.66	16	2040			.44	19.64
70	.46	28	2070			.32	18.72
70	.46	36	1980			.28	17.75
90	.6	18	2090			.24	19.64
50	.33	30	2050			.4	20.3
30	.2	45	2110			.36	21.16
50	.33	24	2120			.32	22.29

1511



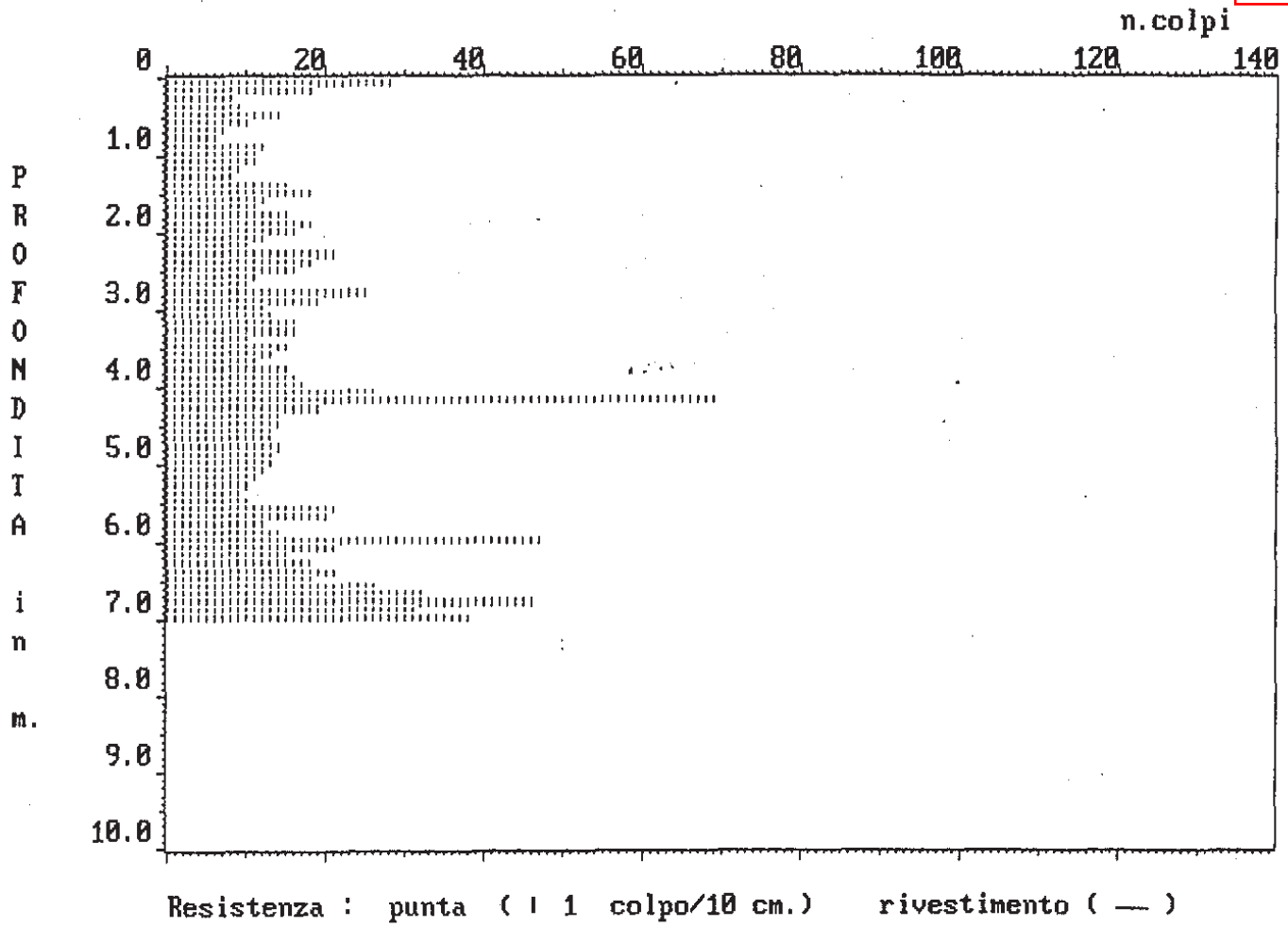
Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	28	102	3.10	13	35
0.20	18	65	3.20	16	44
0.30	8	29	3.30	16	44
0.40	9	33	3.40	10	27
0.50	14	51	3.50	15	41
0.60	10	36	3.60	13	35
0.70	7	25	3.70	11	30
0.80	6	21	3.80	15	41
0.90	12	43	3.90	16	43
1.00	11	39	4.00	17	46
1.10	11	36	4.10	26	66
1.20	9	29	4.20	69	174
1.30	8	26	4.30	19	48
1.40	15	49	4.40	14	35
1.50	18	59	4.50	14	35
1.60	12	39	4.60	13	32
1.70	11	35	4.70	13	32
1.80	15	48	4.80	14	35
1.90	18	58	4.90	13	32
2.00	16	52	5.00	13	32
2.10	12	36	5.10	12	28
2.20	10	30	5.20	11	26
2.30	21	62	5.30	10	23
2.40	18	54	5.40	9	21
2.50	16	48	5.50	10	23
2.60	11	32	5.60	21	49
2.70	10	29	5.70	20	46
2.80	25	73	5.80	12	28
2.90	19	56	5.90	14	33
3.00	12	35	6.00	47	109

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	21	46	6.60	26	57
6.20	15	33	6.70	32	70
6.30	18	39	6.80	46	100
6.40	21	46	6.90	31	67
6.50	18	39	7.00	38	83

PROVA PENETROMETRICA [S.C.P.T.] N. 1

2032



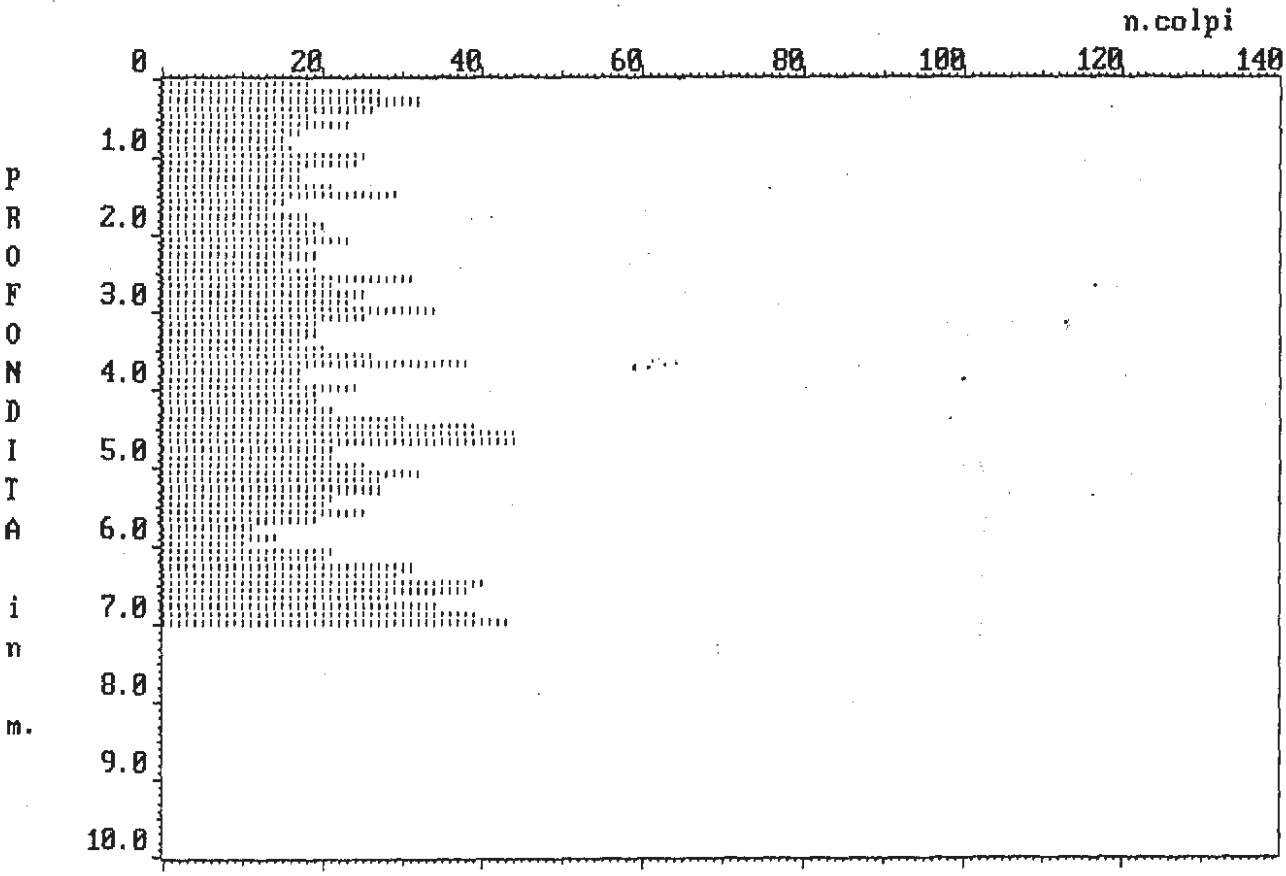
Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	18	65	3.10	25	68
0.20	27	98	3.20	19	52
0.30	32	116	3.30	19	52
0.40	26	94	3.40	17	46
0.50	18	65	3.50	20	55
0.60	23	82	3.60	26	70
0.70	17	61	3.70	38	103
0.80	15	53	3.80	17	46
0.90	16	57	3.90	17	46
1.00	25	89	4.00	24	65
1.10	24	78	4.10	19	48
1.20	17	56	4.20	19	48
1.30	17	56	4.30	21	53
1.40	21	69	4.40	30	76
1.50	29	95	4.50	39	98
1.60	15	48	4.60	44	110
1.70	13	42	4.70	44	110
1.80	18	58	4.80	21	52
1.90	20	64	4.90	21	52
2.00	19	61	5.00	25	62
2.10	23	68	5.10	32	75
2.20	17	51	5.20	27	63
2.30	19	57	5.30	27	63
2.40	15	45	5.40	21	49
2.50	19	57	5.50	20	47
2.60	31	91	5.60	25	58
2.70	21	62	5.70	19	44
2.80	25	73	5.80	11	26
2.90	23	68	5.90	14	33
3.00	34	100	6.00	10	23

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	21	46	6.60	38	83
6.20	20	44	6.70	28	61
6.30	31	68	6.80	34	74
6.40	29	63	6.90	39	85
6.50	40	88	7.00	43	93

2033

PROVA PENETROMETRICA [S.C.P.T.] N. 2



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

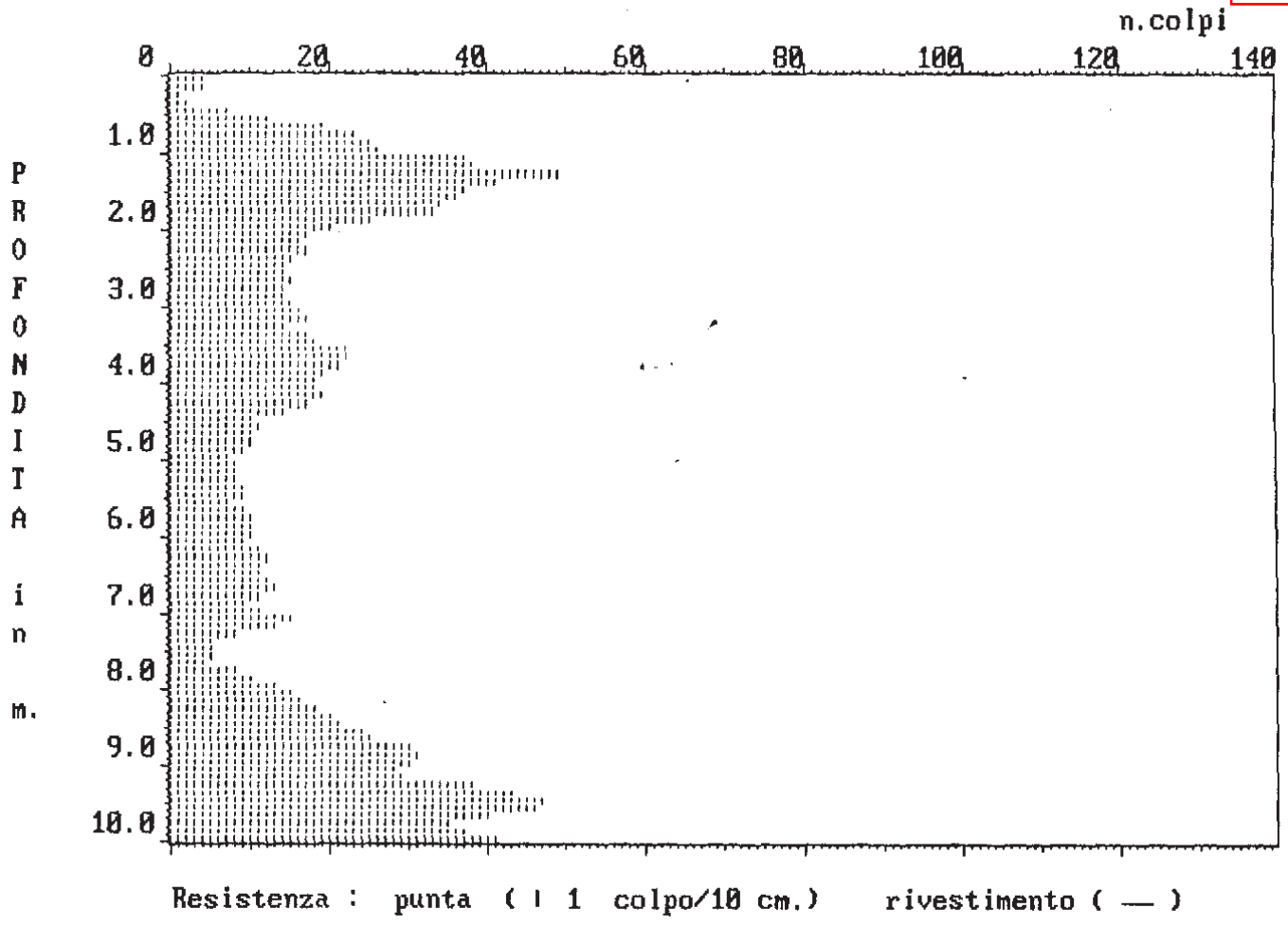
Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. RDT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. RDT. DIN. PUNTA Kg/cm².
0.10	4	15	3.10	16	44
0.20	4	15	3.20	17	46
0.30	1	4	3.30	14	38
0.40	2	7	3.40	17	46
0.50	7	25	3.50	18	49
0.60	12	43	3.60	22	59
0.70	19	66	3.70	22	59
0.80	23	82	3.80	21	57
0.90	25	89	3.90	19	51
1.00	26	93	4.00	18	49
1.10	37	121	4.10	18	45
1.20	38	124	4.20	19	48
1.30	49	160	4.30	17	43
1.40	41	134	4.40	14	35
1.50	37	121	4.50	10	25
1.60	36	116	4.60	11	27
1.70	34	110	4.70	10	25
1.80	33	106	4.80	10	25
1.90	25	81	4.90	9	22
2.00	20	64	5.00	7	17
2.10	17	51	5.10	8	19
2.20	16	48	5.20	8	19
2.30	17	51	5.30	8	19
2.40	15	45	5.40	9	21
2.50	14	42	5.50	9	21
2.60	14	41	5.60	7	16
2.70	15	44	5.70	9	21
2.80	14	41	5.80	10	23
2.90	14	41	5.90	10	23
3.00	15	44	6.00	10	23

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. RDT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. RDT. DIN. PUNTA Kg/cm².
6.10	9	20	8.10	15	29
6.20	11	24	8.20	16	31
6.30	12	26	8.30	18	35
6.40	11	24	8.40	20	39
6.50	11	24	8.50	21	41
6.60	12	26	8.60	24	46
6.70	13	28	8.70	25	48
6.80	11	24	8.80	30	58
6.90	9	20	8.90	31	60
7.00	11	24	9.00	30	58
7.10	15	31	9.10	28	51
7.20	13	27	9.20	29	53
7.30	8	16	9.30	38	69
7.40	5	10	9.40	43	79
7.50	5	10	9.50	47	86
7.60	5	10	9.60	46	84
7.70	4	8	9.70	40	73
7.80	8	16	9.80	35	64
7.90	10	20	9.90	37	67
8.00	13	26	10.00	41	74

PROVA PENETROMETRICA [S.C.P.T.] N. 1

2047



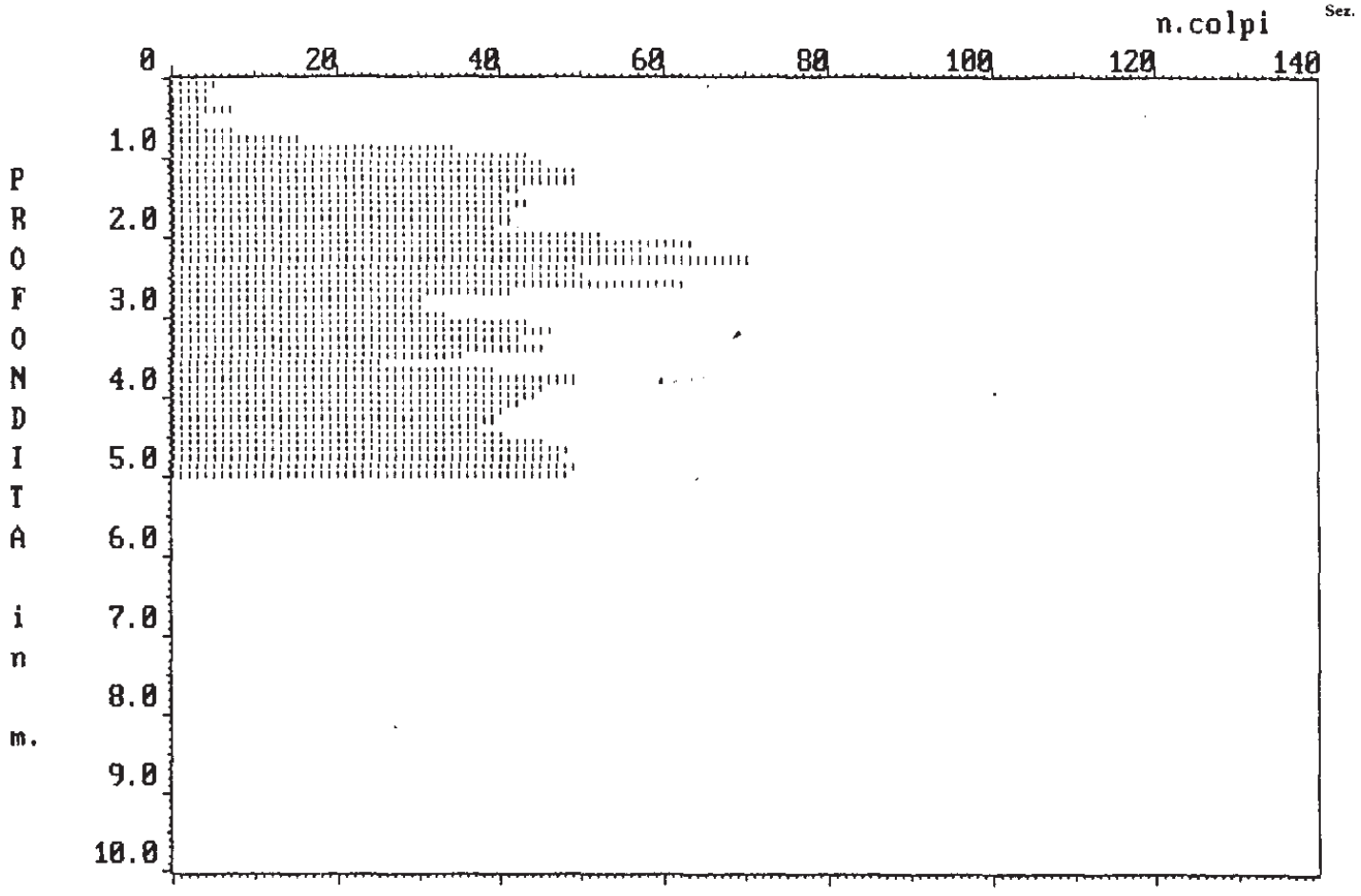
Resistenza alla punta

2048

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	5	18	2.60	62	182
0.20	4	15	2.70	41	120
0.30	4	15	2.80	30	88
0.40	7	25	2.90	30	88
0.50	3	11	3.00	33	97
0.60	3	11	3.10	43	117
0.70	7	25	3.20	46	125
0.80	15	53	3.30	42	115
0.90	34	121	3.40	45	123
1.00	43	153	3.50	35	95
1.10	45	147	3.60	25	68
1.20	49	160	3.70	39	105
1.30	49	160	3.80	49	132
1.40	42	137	3.90	45	122
1.50	40	131	4.00	44	119
1.60	43	139	4.10	42	106
1.70	41	132	4.20	40	101
1.80	41	132	4.30	39	98
1.90	39	126	4.40	37	93
2.00	52	168	4.50	40	101
2.10	63	187	4.60	45	112
2.20	57	170	4.70	48	120
2.30	70	208	4.80	47	117
2.40	49	146	4.90	49	122
2.50	50	149	5.00	48	120

PROVA PENETROMETRICA [S.C.P.T.] N. 2

Sez.



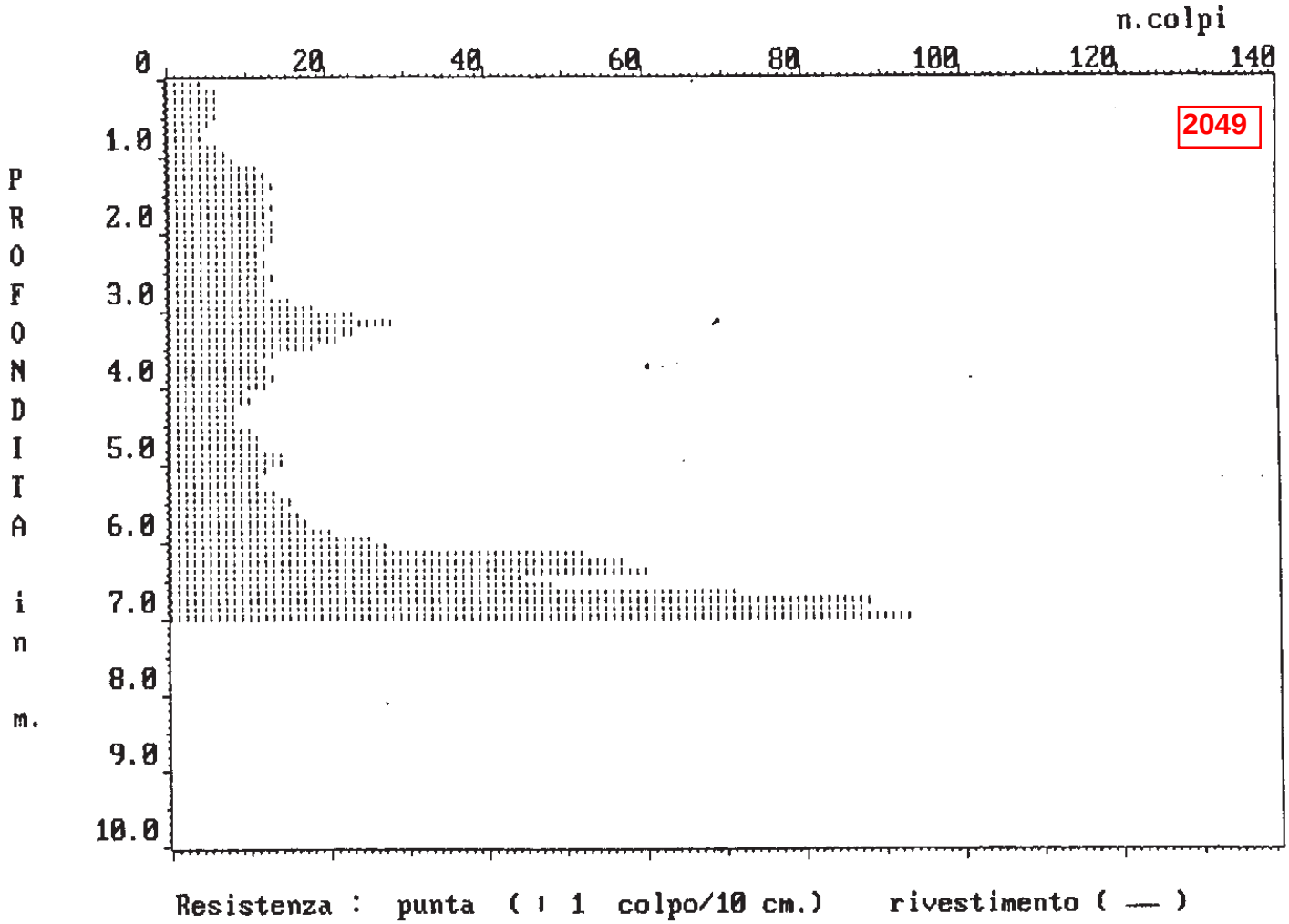
Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	4	15	3.10	23	63
0.20	6	22	3.20	28	76
0.30	6	22	3.30	23	63
0.40	6	22	3.40	21	57
0.50	6	22	3.50	18	49
0.60	5	18	3.60	13	35
0.70	4	14	3.70	11	30
0.80	4	14	3.80	12	32
0.90	6	21	3.90	13	35
1.00	7	25	4.00	12	32
1.10	8	26	4.10	9	23
1.20	11	36	4.20	10	25
1.30	12	39	4.30	8	20
1.40	13	42	4.40	8	20
1.50	12	39	4.50	8	20
1.60	12	39	4.60	10	25
1.70	13	42	4.70	11	27
1.80	12	39	4.80	11	27
1.90	13	42	4.90	14	35
2.00	13	42	5.00	14	35
2.10	13	39	5.10	12	28
2.20	12	36	5.20	11	26
2.30	11	33	5.30	11	26
2.40	12	36	5.40	13	30
2.50	11	33	5.50	15	35
2.60	13	38	5.60	14	33
2.70	12	35	5.70	16	37
2.80	12	35	5.80	17	39
2.90	15	44	5.90	20	46
3.00	18	53	6.00	25	58

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	27	59	6.60	48	104
6.20	52	114	6.70	71	154
6.30	57	125	6.80	88	191
6.40	60	131	6.90	87	189
6.50	44	96	7.00	93	202

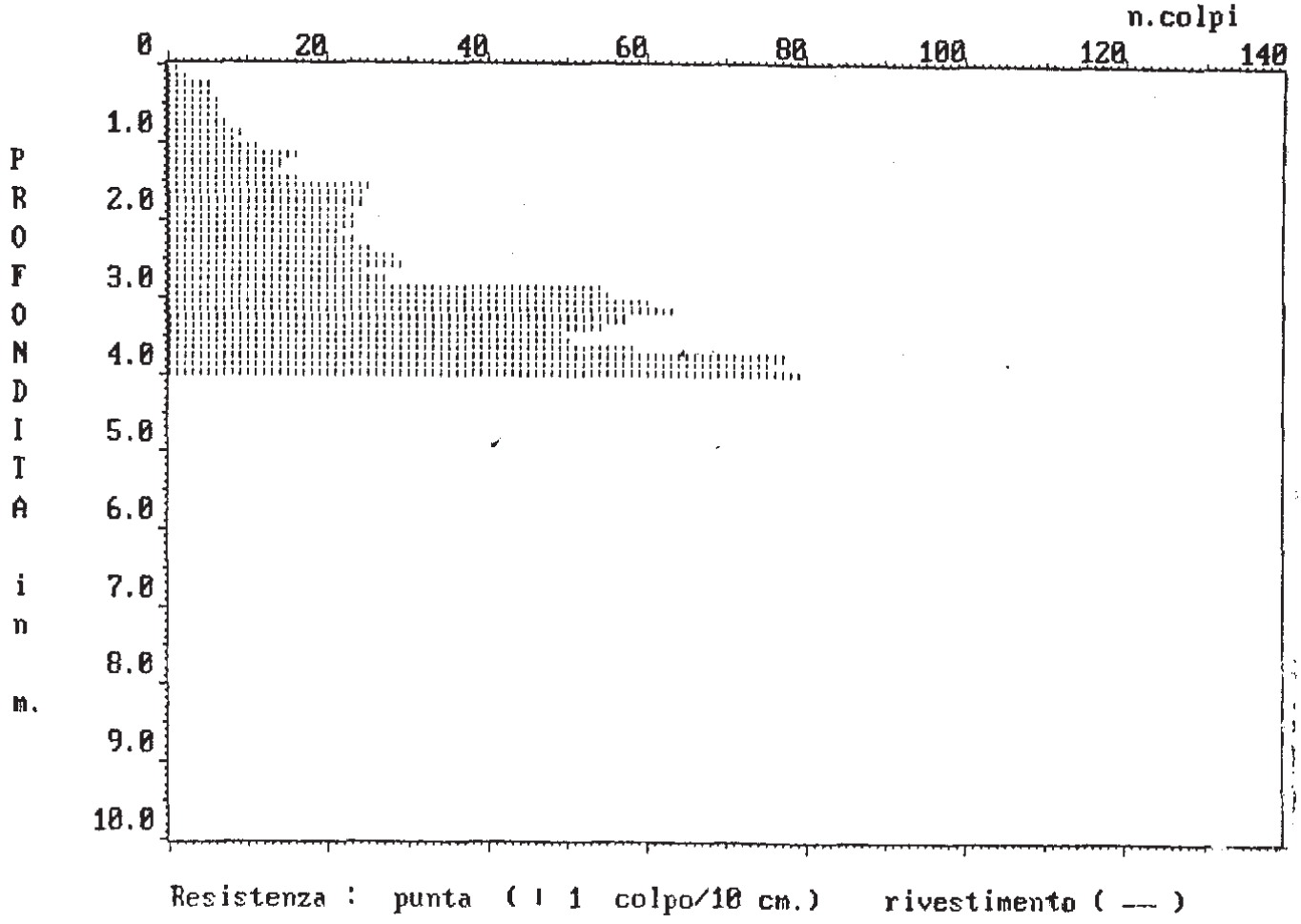
PROVA PENETROMETRICA [S.C.P.T.] N. 3



Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	2.10	23	68
0.20	2	7	2.20	21	62
0.30	5	18	2.30	23	68
0.40	5	18	2.40	25	74
0.50	6	22	2.50	28	83
0.60	6	21	2.60	29	85
0.70	6	21	2.70	24	70
0.80	7	25	2.80	27	79
0.90	9	32	2.90	54	159
1.00	8	29	3.00	55	162
1.10	11	36	3.10	60	164
1.20	16	52	3.20	63	172
1.30	14	46	3.30	57	155
1.40	13	42	3.40	54	147
1.50	16	52	3.50	49	134
1.60	25	81	3.60	50	135
1.70	24	77	3.70	58	157
1.80	24	77	3.80	77	208
1.90	22	71	3.90	75	203
2.00	23	74	4.00	79	213

PROVA PENETROMETRICA [S.C.P.T.] N. 4



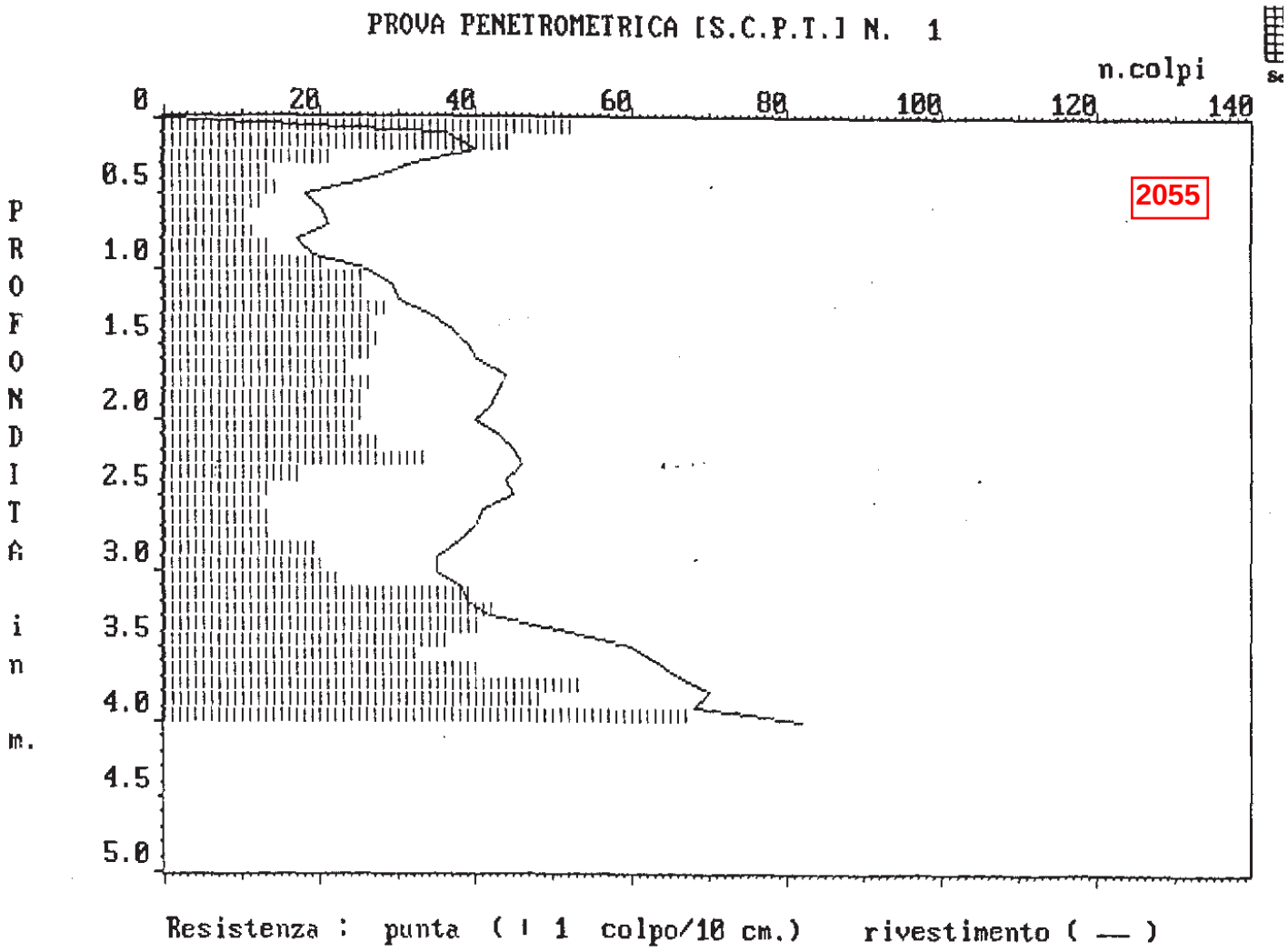
Resistenza : punta (! 1 colpo/10 cm.) rivestimento (---)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA kgIN/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA kgIN/cm².
0.10	52	189	2.10	24	71
0.20	44	160	2.20	27	80
0.30	21	76	2.30	33	98
0.40	13	47	2.40	17	51
0.50	14	51	2.50	13	39
0.60	12	43	2.60	12	35
0.70	10	36	2.70	13	38
0.80	11	39	2.80	13	38
0.90	13	46	2.90	19	56
1.00	20	71	3.00	20	59
1.10	25	82	3.10	22	60
1.20	25	82	3.20	39	106
1.30	28	92	3.30	42	115
1.40	26	85	3.40	40	109
1.50	27	88	3.50	36	98
1.60	26	84	3.60	32	86
1.70	23	74	3.70	40	108
1.80	26	84	3.80	53	143
1.90	25	81	3.90	48	130
2.00	25	81	4.00	67	181

PROFONDITA' IN m.	N. COLPI ogni 10 cm.	PROFONDITA' IN m.	N. COLPI ogni 10 cm.
0.10	36	2.10	43
0.20	40	2.20	45
0.30	32	2.30	46
0.40	26	2.40	44
0.50	18	2.50	45
0.60	20	2.60	41
0.70	21	2.70	40
0.80	17	2.80	38
0.90	19	2.90	35
1.00	26	3.00	35
1.10	29	3.10	38
1.20	30	3.20	39
1.30	34	3.30	42
1.40	37	3.40	52
1.50	39	3.50	60
1.60	40	3.60	63
1.70	44	3.70	66
1.80	43	3.80	70
1.90	42	3.90	68
2.00	40	4.00	82

PROVA PENETROMETRICA [S.C.P.T.] N. 1



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

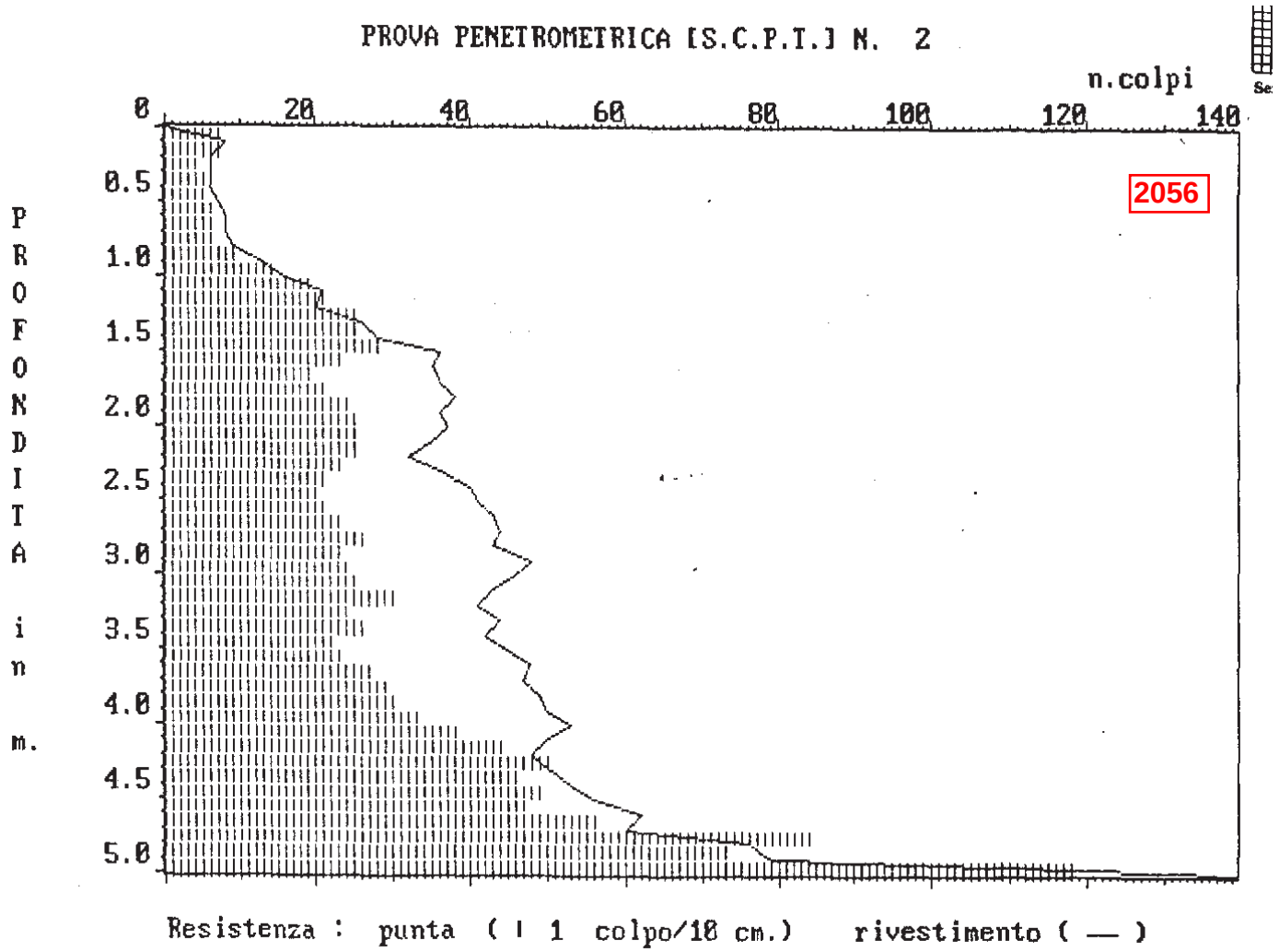
Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA kg/N/cm².
0.10	7	25	2.60	21	62
0.20	7	25	2.70	23	68
0.30	4	15	2.80	26	76
0.40	5	18	2.90	23	68
0.50	5	18	3.00	24	70
0.60	6	21	3.10	25	68
0.70	6	21	3.20	30	82
0.80	6	21	3.30	24	65
0.90	9	32	3.40	26	71
1.00	14	50	3.50	22	60
1.10	19	62	3.60	23	62
1.20	21	69	3.70	27	73
1.30	25	82	3.80	29	78
1.40	25	82	3.90	30	81
1.50	28	92	4.00	33	89
1.60	23	74	4.10	38	96
1.70	19	61	4.20	44	111
1.80	21	68	4.30	50	126
1.90	24	77	4.40	46	116
2.00	25	81	4.50	49	123
2.10	25	74	4.60	47	117
2.20	25	74	4.70	56	140
2.30	23	68	4.80	84	210
2.40	21	62	4.90	73	182
2.50	20	60	5.00	118	295

Resistenza rivestimento

PROFONDITA' IN m.	N. COLPI ogni 10 cm.	PROFONDITA' IN m.	N. COLPI ogni 10 cm.
0.10	8	2.60	43
0.20	6	2.70	44
0.30	6	2.80	43
0.40	6	2.90	48
0.50	7	3.00	46
0.60	8	3.10	43
0.70	8	3.20	41
0.80	9	3.30	44
0.90	13	3.40	42
1.00	16	3.50	45
1.10	21	3.60	48
1.20	20	3.70	47
1.30	26	3.80	49
1.40	28	3.90	50
1.50	36	4.00	53
1.60	35	4.10	50
1.70	36	4.20	48
1.80	38	4.30	50
1.90	36	4.40	53
2.00	37	4.50	56
2.10	35	4.60	62
2.20	32	4.70	60
2.30	36	4.80	76
2.40	40	4.90	79
2.50	41	5.00	140

PROVA PENETROMETRICA [S.C.P.I.] N. 2



Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

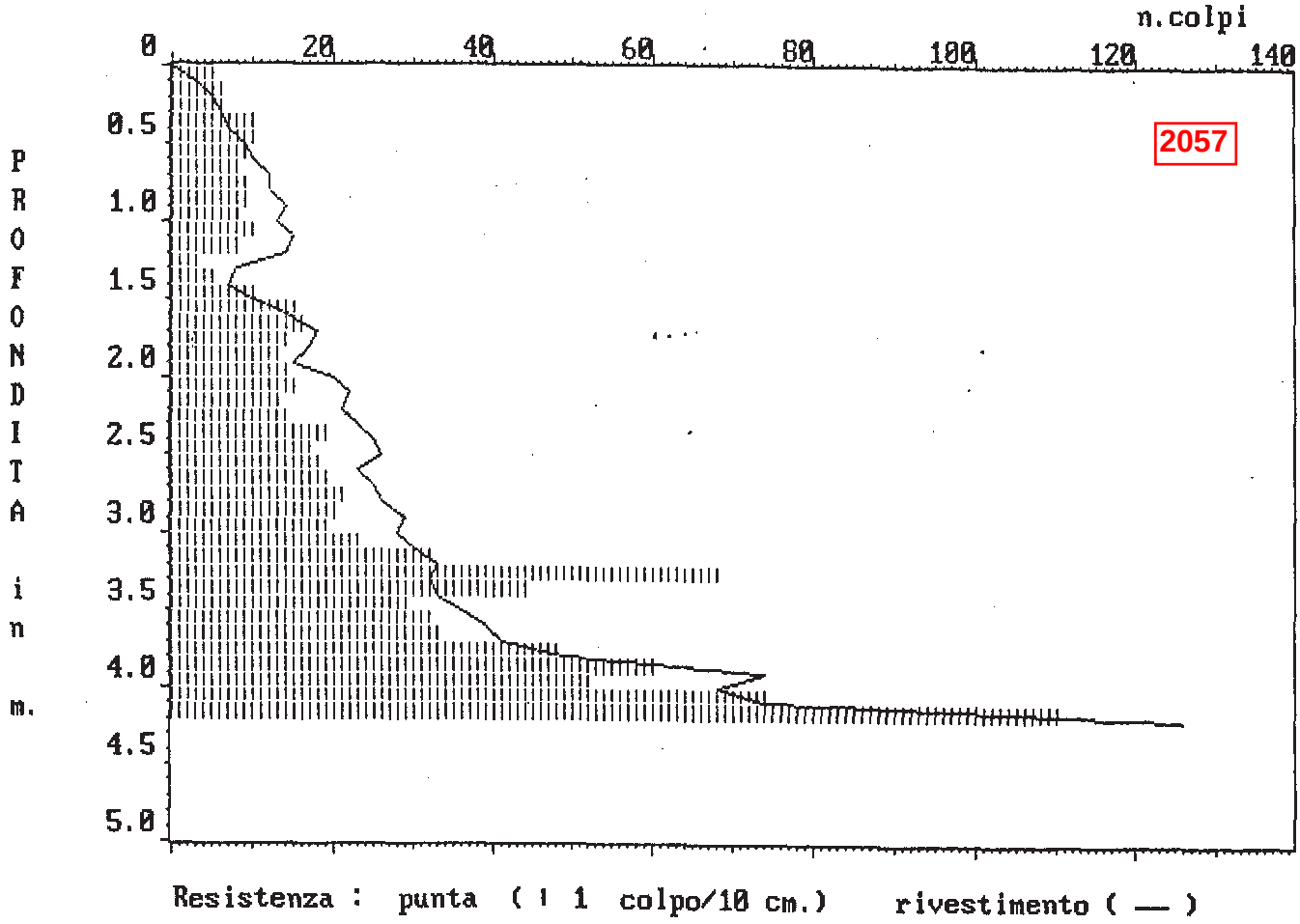
Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	5	18	2.20	13	39
0.20	6	22	2.30	14	42
0.30	6	22	2.40	19	57
0.40	10	36	2.50	17	51
0.50	10	36	2.60	18	53
0.60	9	32	2.70	19	56
0.70	8	29	2.80	21	62
0.80	9	32	2.90	20	59
0.90	9	32	3.00	19	56
1.00	8	29	3.10	23	63
1.10	10	33	3.20	32	87
1.20	8	26	3.30	68	185
1.30	3	10	3.40	44	120
1.40	5	16	3.50	29	79
1.50	10	33	3.60	32	86
1.60	15	48	3.70	33	89
1.70	16	52	3.80	48	130
1.80	14	45	3.90	60	162
1.90	13	42	4.00	52	140
2.00	14	45	4.10	74	186
2.10	15	45	4.20	110	277

Resistenza rivestimento

PROFONDITA' IN m.	N. COLPI ogni 10 cm.	PROFONDITA' IN m.	N. COLPI ogni 10 cm.
0.10	3	2.20	21
0.20	5	2.30	23
0.30	6	2.40	25
0.40	7	2.50	26
0.50	9	2.60	23
0.60	10	2.70	25
0.70	12	2.80	26
0.80	12	2.90	29
0.90	14	3.00	28
1.00	13	3.10	30
1.10	15	3.20	33
1.20	14	3.30	32
1.30	8	3.40	33
1.40	7	3.50	36
1.50	10	3.60	39
1.60	14	3.70	41
1.70	18	3.80	49
1.80	17	3.90	74
1.90	15	4.00	68
2.00	20	4.10	74
2.10	22	4.20	126

PROVA PENETROMETRICA [S.C.P.I.] N. 3



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

CERTIFICATO N.RO : 705-AA CANTIERE :COSTRUZIONE EDIFICIO RESIDENZIALE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	7	22	1.00	7.00										
0.20	7	22	1.00	7.00										
0.40	8	16	0.53	15.09										
0.60	10	15	0.33	30.30										
0.80	12	20	0.53	22.64										
1.00	13	25	0.80	16.25										
1.20	15	26	0.73	20.55										
1.40	18	30	0.80	22.50										
1.60	19	34	1.00	19.00										
1.80	16	31	1.00	16.00										
2.00	22	38	1.07	20.56										
2.20	27	45	1.20	22.50										
2.40	22	43	1.40	15.71										
2.60	18	37	1.27	14.17										
2.80	15	29	0.93	16.13										
3.00	10	20	0.67	14.93										
3.20	7	13	0.40	17.50										
3.40	10	15	0.33	30.30										
3.60	10	16	0.40	25.00										
3.80	12	18	0.40	30.00										
4.00	9	18	0.60	15.00										
4.20	10	16	0.40	25.00										
4.40	9	15	0.40	22.50										
4.60	8	14	0.40	20.00										
4.80	5	11	0.40	12.50										
5.00	10	15	0.33	30.30										
5.20	12	19	0.47	25.53										
5.40	13	23	0.67	19.40										
5.60	12	22	0.67	17.91										
5.80	12	22	0.67	17.91										
6.00	12	21	0.60	20.00										
6.20	11	19	0.53	20.75										
6.40	8	16	0.53	15.09										
6.60	6	12	0.40	15.00										
6.80	7	13	0.40	17.50										
7.00	6	11	0.33	18.18										
7.20	7	12	0.33	21.21										
7.40	11	14	0.20	55.00										
7.60	17	22	0.33	51.52										
7.80	19	24	0.33	57.58										
8.00	8	19	0.73	10.96										
8.20	8	14	0.40	20.00										
8.40	10	16	0.40	25.00										
8.60	12	20	0.53	22.64										
8.80	14	23	0.60	23.33										
9.00	13	23	0.67	19.40										
9.20	16	26	0.67	23.88										
9.40	16	26	0.67	23.88										

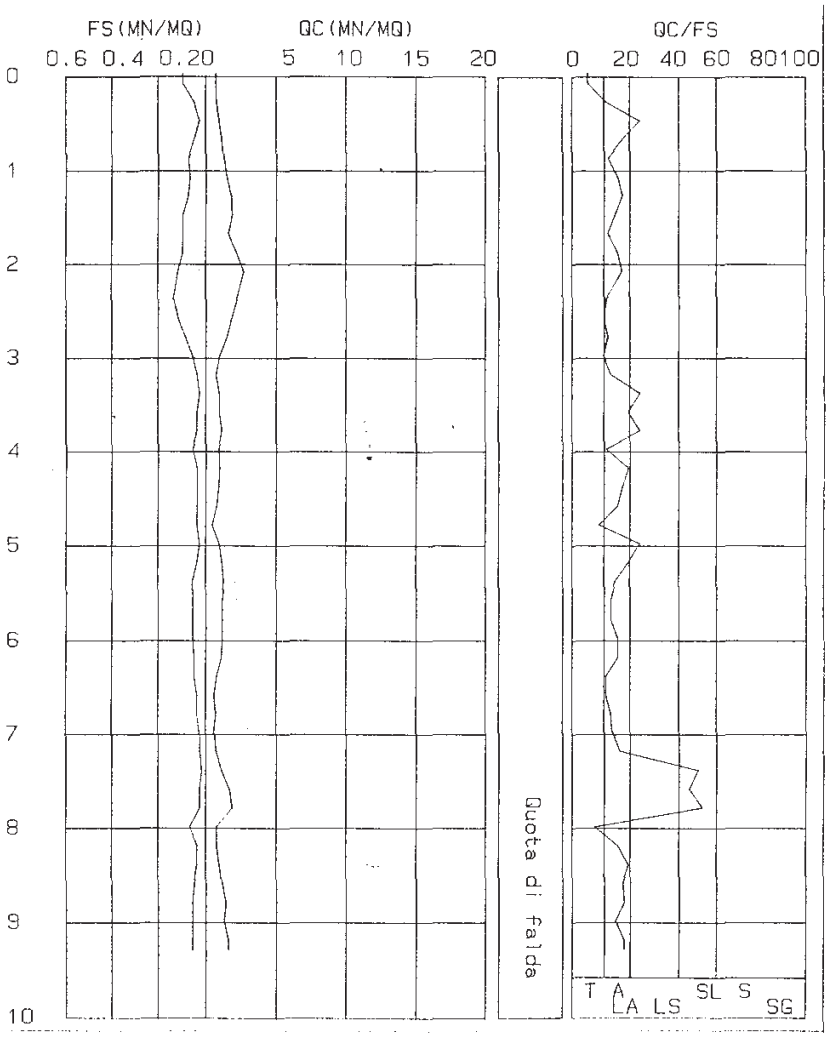
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

H m	qc KG/CMQ	fs	Diagramma fs 5	4	3	2	1	0	Diagramma qc 10	20	30	40	50	60	70	H2O	AO	A	LA	LS	SL	S	SG	BEGEMANN 1965 SCHM. 1978
0.2	7	1.000															***							A0
0.4	8	0.533																***							A0
0.6	10	0.333																	***						ASL
0.8	12	0.533																***							A4
1.0	13	0.800																***							A4
1.2	15	0.733																***							A4
1.4	18	0.800																***							A4
1.6	19	1.000																***							A5
1.8	16	1.000																***							A5
2.0	22	1.066																***							A5
2.2	27	1.200																***							ASL
2.4	22	1.399																***							A5
2.6	18	1.266																***							A5
2.8	15	0.933																***							A4
3.0	10	0.666																***							A0
3.2	7	0.400																***							A0
3.4	10	0.333																	***						ASL
3.6	10	0.400																***							A4
3.8	12	0.400																	***						ASL
4.0	9	0.600																***							A0
4.2	10	0.400																***							A4
4.4	9	0.400																***							A3
4.6	8	0.400																***							A3
4.8	5	0.400																***							A0
5.0	10	0.333																	***						ASL
5.2	12	0.466																	***						A4
5.4	13	0.666																***							A4
5.6	12	0.666																***							A4
5.8	12	0.666																***							A4
6.0	12	0.600																***							A4
6.2	11	0.533																***							A4
6.4	8	0.533																***							A0
6.6	6	0.400																***							A0
6.8	7	0.400																***							A0
7.0	6	0.333																***							A0
7.2	7	0.333																***							A3
7.4	11	0.200																			***				S0
7.6	17	0.333																			***				S0
7.8	19	0.333																			***				S0
8.0	8	0.733															***								A0
8.2	8	0.400																***							A3
8.4	10	0.400																***							A4
8.6	12	0.533																***							A4
8.8	14	0.600																***							A4
9.0	13	0.666																***							A4

2062

H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1 0	Diagramma qc 10 20 30 40 50 60 70	BEGEMANN 1965 H2O A0 A1 LA LS SL S SG	SCHM. 1978
9.2	16	0.666			(**)	A4



CERTIFICATO N.RO : 706-AA CANTIERE :COSTRUZIONE DI EDIFICIO RESIDENZIALE

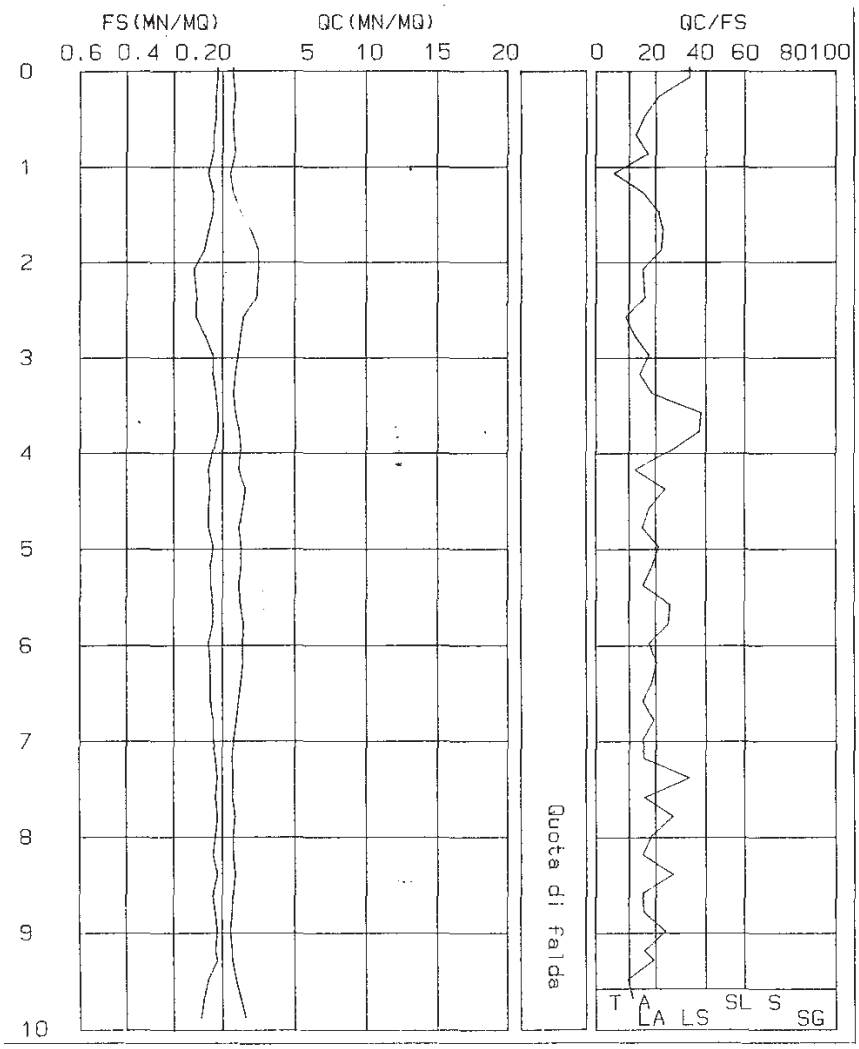
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	8	11	0.20	40.00	10.00	16	30	0.93	17.20					
0.20	8	11	0.20	40.00										
0.40	9	14	0.33	27.27										
0.60	7	12	0.33	21.21										
0.80	8	15	0.47	17.02										
1.00	9	15	0.40	22.50										
1.20	6	16	0.67	8.96										
1.40	8	14	0.40	20.00										
1.60	13	20	0.47	27.66										
1.80	20	30	0.67	29.85										
2.00	25	38	0.87	28.74										
2.20	25	43	1.20	20.83										
2.40	24	41	1.13	21.24										
2.60	15	32	1.13	13.27										
2.80	13	24	0.73	17.81										
3.00	11	18	0.47	23.40										
3.20	9	16	0.47	19.15										
3.40	8	13	0.33	24.24										
3.60	9	12	0.20	45.00										
3.80	12	16	0.27	44.44										
4.00	13	19	0.40	32.50										
4.20	12	22	0.67	17.91										
4.40	16	24	0.53	30.19										
4.60	14	23	0.60	23.33										
4.80	12	21	0.60	20.00										
5.00	13	20	0.47	27.66										
5.20	13	21	0.53	24.53										
5.40	11	19	0.53	20.75										
5.60	13	19	0.40	32.50										
5.80	15	22	0.47	31.91										
6.00	14	23	0.60	23.33										
6.20	14	22	0.53	26.42										
6.40	13	21	0.53	24.53										
6.60	11	19	0.53	20.75										
6.80	10	16	0.40	25.00										
7.00	8	14	0.40	20.00										
7.20	7	12	0.33	21.21										
7.40	8	11	0.20	40.00										
7.60	7	12	0.33	21.21										
7.80	9	13	0.27	33.33										
8.00	8	13	0.33	24.24										
8.20	8	14	0.40	20.00										
8.40	9	13	0.27	33.33										
8.60	8	14	0.40	20.00										
8.80	7	12	0.33	21.21										
9.00	6	9	0.20	30.00										
9.20	7	12	0.33	21.21										
9.40	7	11	0.27	25.93										
9.60	10	20	0.67	14.93										
9.80	13	25	0.80	16.25										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

H m	σc kg/cmq	fs	Diagramma fs 5	4	3	2	1	0	Diagramma σc 10	20	30	40	50	60	70	BEGEMANN 1965 H2O	AO	A	LA	LS	SL	S	SG	SCHM. 1978
0.2	8	0.200																						SAL
0.4	9	0.333																						A3
0.6	7	0.333																						A3
0.8	8	0.466																						A0
1.0	9	0.400																						A3
1.2	6	0.666																						A0
1.4	8	0.400																						A3
1.6	13	0.466																						ASL
1.8	20	0.666																						ASL
2.0	25	0.866																						ASL
2.2	25	1.200																						A5
2.4	24	1.133																						A5
2.6	15	1.133																						A0
2.8	13	0.733																						A4
3.0	11	0.466																						A4
3.2	9	0.466																						A3
3.4	8	0.333																						A3
3.6	9	0.200																						SAL
3.8	12	0.266																						SAL
4.0	13	0.400																						ASL
4.2	12	0.666																						A4
4.4	16	0.533																						ASL
4.6	14	0.600																						A4
4.8	12	0.600																						A4
5.0	13	0.466																						ASL
5.2	13	0.533																						A4
5.4	11	0.533																						A4
5.6	13	0.400																						ASL
5.8	15	0.466																						ASL
6.0	14	0.600																						A4
6.2	14	0.533																						ASL
6.4	13	0.533																						A4
6.6	11	0.533																						A4
6.8	10	0.400																						A4
7.0	8	0.400																						A3
7.2	7	0.333																						A3
7.4	8	0.200																						SAL
7.6	7	0.333																						A3
7.8	9	0.266																						ASL
8.0	8	0.333																						A3
8.2	8	0.400																						A3
8.4	9	0.266																						ASL
8.6	8	0.400																						A3
8.8	7	0.333																						A3
9.0	6	0.200																						ASL

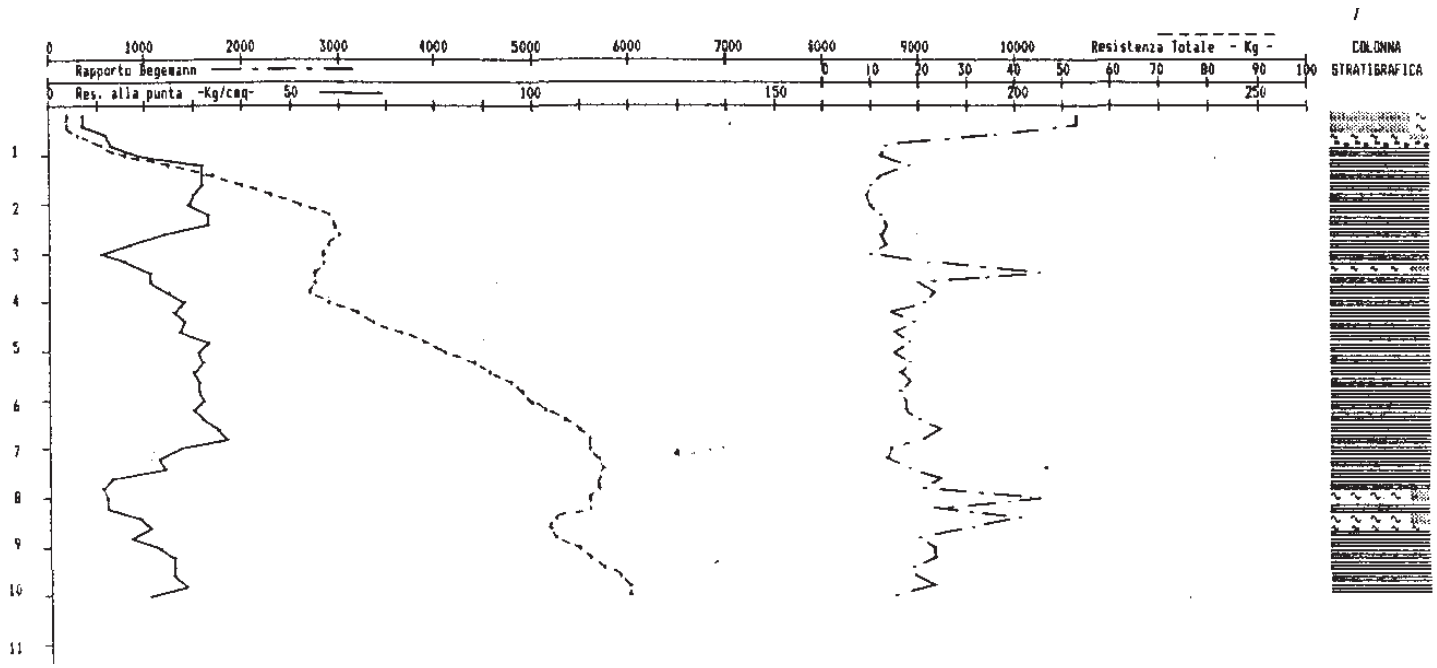
H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1 0	Diagramma qc 10 20 30 40 50 60 70	BEGEMANN 1965 H2O	A0	A	LA	LS	SL	S	SG	SCHM. 1978
9.2	7	0.333											A3
9.4	7	0.266											A3
9.6	10	0.666											A0
9.8	13	0.800											A4
10.0	16	0.933											A4



2064

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	70	90	200	20	.13	53	130	25	7		23.81
.4	70	90	200	20	.13	53	130	25	7		23.81
.6	120	170	300	50	.33	36	180			.48	19.13
.8	130	280	550	150	1	13	420			.52	18.72
1	190	420	800	230	1.53	12	610			.76	17.47
1.2	320	580	1250	260	1.73	18	930			1.28	15.91
1.4	320	710	1700	390	2.6	12	1380			1.28	15.91
1.6	320	810	2000	490	3.26	10	1680			1.28	15.91
1.8	300	800	2300	500	3.33	9	2000			1.2	16.21
2	290	730	2600	440	2.93	10	2310			1.16	16.35
2.2	330	730	2900	400	2.66	12	2570			1.32	15.75
2.4	330	710	2950	380	2.53	13	2620			1.32	15.75
2.6	240	530	3000	290	1.93	12	2760			.96	16.94
2.8	170	370	2900	200	1.33	13	2730			.68	17.75
3	110	270	2850	160	1.06	10	2740			.44	19.64
3.2	160	270	2850	110	.73	22	2690			.64	17.93
3.4	210	280	2750	70	.46	45	2540			.84	17.25
3.6	210	370	2750	160	1.06	20	2540			.84	17.25
3.8	250	410	2700	150	1.06	23	2450			1	16.83
4	280	480	2900	200	1.33	21	2620			1.12	16.48
4.2	260	540	3200	280	1.86	14	2940			1.04	16.72
4.4	280	500	3350	220	1.46	19	3070			1.12	16.48
4.6	270	540	3650	270	1.8	15	3380			1.08	16.6
4.8	330	610	3900	280	1.86	18	3570			1.32	15.75
5	310	620	4100	310	2.06	15	3790			1.24	16.06
5.2	320	580	4400	260	1.73	18	4080			1.28	15.91
5.4	300	580	4550	280	1.86	16	4250			1.2	16.21
5.6	310	570	4800	260	1.73	18	4490			1.24	16.06
5.8	310	600	4900	290	1.93	16	4590			1.24	16.06
6	320	600	5000	280	1.86	17	4680			1.28	15.91
6.2	300	570	5150	270	1.8	17	4850			1.2	16.21
6.4	320	560	5350	240	1.6	20	5030			1.28	15.91
6.6	350	570	5500	220	1.46	24	5150			1.4	15.42
6.8	370	630	5600	260	1.73	21	5230			1.48	15.06
7	270	560	5600	290	1.93	14	5330			1.08	16.6
7.2	230	500	5700	270	1.8	13	5470			.92	17.04
7.4	240	440	5750	200	1.33	18	5510			.96.	16.94
7.6	130	210	5700	80	.53	24	5570			.52	18.72
7.8	110	190	5700	80	.53	21	5590			.44	19.64
8	120	160	5600	40	.26	45	5480			.48	19.13

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	120	200	5600	80	.53	23	5480			.48	19.13
8.4	190	260	5250	70	.46	41	5060			.76	17.47
8.6	210	310	5200	100	.66	31	4990			.84	17.25
8.8	170	300	5250	130	.86	20	5080			.68	17.75
9	230	380	5500	150	1	23	5270			.92	17.04
9.2	260	430	5600	170	1.13	23	5340			1.04	16.72
9.4	260	470	5750	210	1.4	19	5490			1.04	16.72
9.6	260	460	5900	200	1.33	19	5640			1.04	16.72
9.8	280	460	6000	180	1.2	23	5720			1.12	16.48
10	210	420	6000	210	1.4	15	5790			.84	17.25


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq-
0 50 100 150 200 250
COLONNA STRATIGRAFICA
1
2
3
4
5
6
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8
9
10
11

letture di campagna

valori derivati

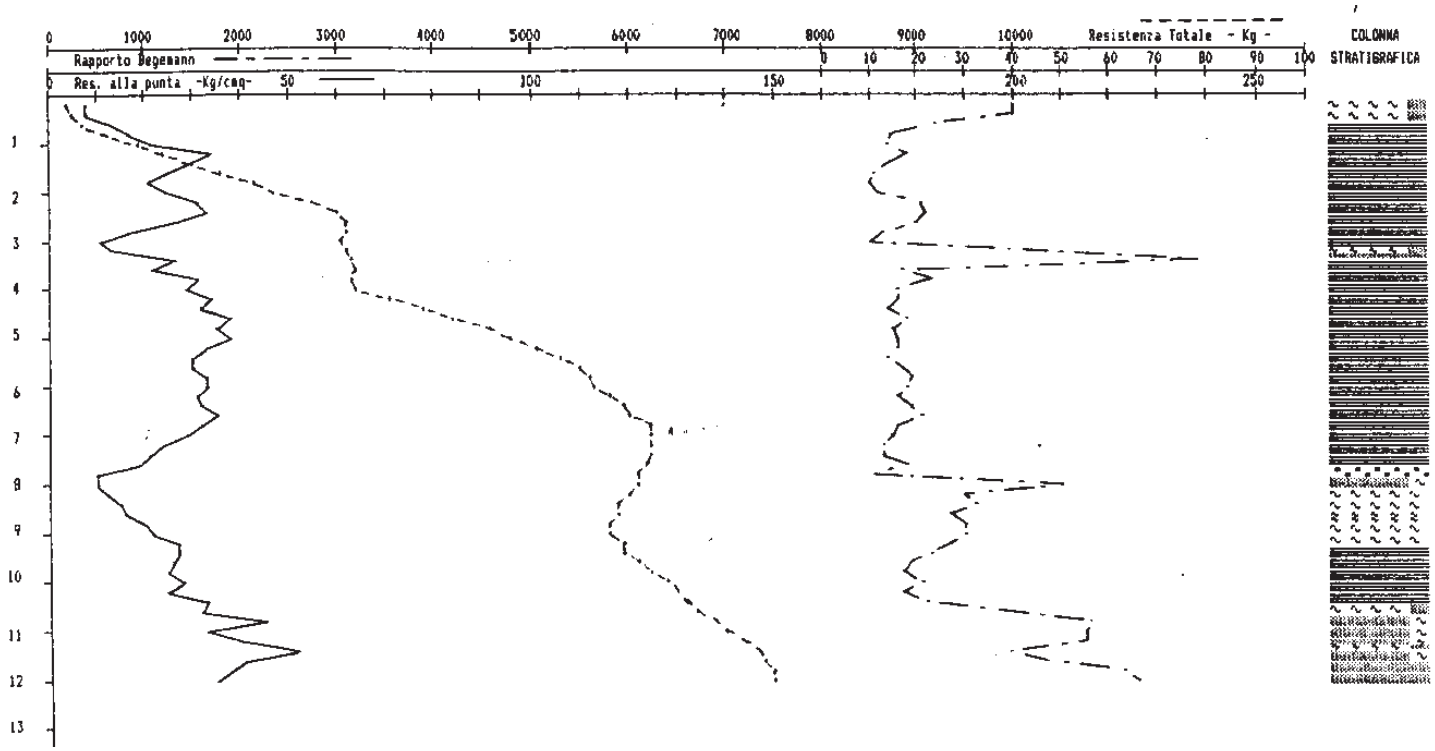
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	80	110	200	30	.2	40	120			.32	22.29
.4	80	110	250	30	.2	40	170			.32	22.29
.6	130	210	350	80	.53	24	220			.52	18.72
.8	170	340	600	170	1.13	15	430			.68	17.75
1	220	460	950	240	1.6	14	730			.88	17.15
1.2	340	620	1200	280	1.86	18	860			1.36	15.59
1.4	300	620	1500	320	2.13	14	1200			1.2	16.21
1.6	250	660	1800	350	2.33	11	1550			1	16.83
1.8	210	540	2150	330	2.2	10	1940			.84	17.25
2	250	550	2350	300	2	12	2100			1	16.83
2.2	310	530	2750	220	1.46	21	2440			1.24	16.06
2.4	330	560	3000	230	1.53	22	2670			1.32	15.75
2.6	270	470	3100	200	4.33	20	2830			1.08	16.6
2.8	170	370	3100	200	1.33	13	2930			.68	17.75
3	110	270	3050	160	1.06	10	2940			.44	19.64
3.2	130	180	3100	50	.33	39	2970			.52	18.72
3.4	260	310	3150	50	.33	78	2890	29	23		16.72
3.6	220	410	3200	190	1.26	17	2980			.88	17.15
3.8	310	510	3150	200	1.33	23	2840			1.24	16.06
4	290	570	3200	280	1.86	16	2910			1.16	16.35
4.2	340	660	3350	320	2.13	16	3210			1.36	15.59
4.4	320	670	3900	350	2.33	14	3580			1.28	15.91
4.6	380	690	4200	310	2.06	18	3820			1.52	14.87
4.8	350	700	4600	350	2.33	15	4250			1.4	15.42
5	380	730	4800	350	2.33	16	4420			1.52	14.87
5.2	330	640	5050	310	2.06	16	4720			1.32	15.75
5.4	300	620	5300	320	2.13	14	5000			1.2	16.21
5.6	300	570	5500	270	1.8	17	5200			1.2	16.21
5.8	330	590	5600	260	1.73	19	5270			1.32	15.75
6	330	610	5650	280	1.86	18	5330			1.32	15.75
6.2	310	600	5800	290	1.93	16	5490			1.24	16.06
6.4	320	570	5950	250	1.66	19	5630			1.28	15.91
6.6	350	600	6000	250	1.66	21	5650			1.4	15.42
6.8	320	620	6250	300	2	16	5930			1.28	15.91
7	290	580	6250	290	1.93	15	5960			1.16	16.35
7.2	240	510	6250	270	1.8	13	6010			.96	16.94
7.4	210	450	6250	240	1.6	13	6040			.84	17.25
7.6	190	350	6200	160	1.06	18	6010			.76	17.47
7.8	100	240	6100	140	.93	11	6000			.4	20.3
8	100	130	6100	30	.2	50	6000	25	9		20.3

letture di campagna

valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	120	180	6000	60	.4	30	5880			.48	19.13
8.4	150	220	5900	70	.46	32	5750			.4	18.14
8.6	160	250	5900	90	.6	27	5740			.64	17.93
8.8	200	300	5800	100	.66	30	5600			.8	17.36
9	220	330	5800	110	.73	30	5580			.88	17.15
9.2	270	420	5950	150	1	27	5680			1.08	16.6
9.4	270	450	5950	180	1.2	23	5680			1.08	16.6
9.6	260	470	6100	210	1.4	19	5840			1.04	16.72
9.8	250	470	6250	220	1.46	17	6000			1	16.83
10	280	480	6400	200	1.33	21	6120			1.12	16.48
10.2	250	470	6500	220	1.46	17	6250			1	16.83
10.4	330	560	6600	230	1.53	22	6270			1.32	15.75
10.6	320	440	6700	120	.8	40	6380			1.28	15.91
10.8	450	570	6900	120	.8	56	6450	30	35		13.53
11	330	420	7000	90	.6	55	6670	29	28		15.75
11.2	400	510	7200	110	.73	55	6800	30	32		14.5
11.4	520	720	7350	200	1.33	39	6830			2.6	12.2
11.6	410	540	7400	130	.86	47	6990	30	33		14.3
11.8	380	470	7500	90	.6	63	7120	30	31		14.87
12	350	430	7500	80	.53	66	7150	30	29		15.42

2065


0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza Totale - Kg -
Rapporto Begemann
0
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
0
50
100
150
200
250
COLONNA
STRATIGRAFICA
1
2
3
4
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10
11
12
13

letture di campagna

valori derivati

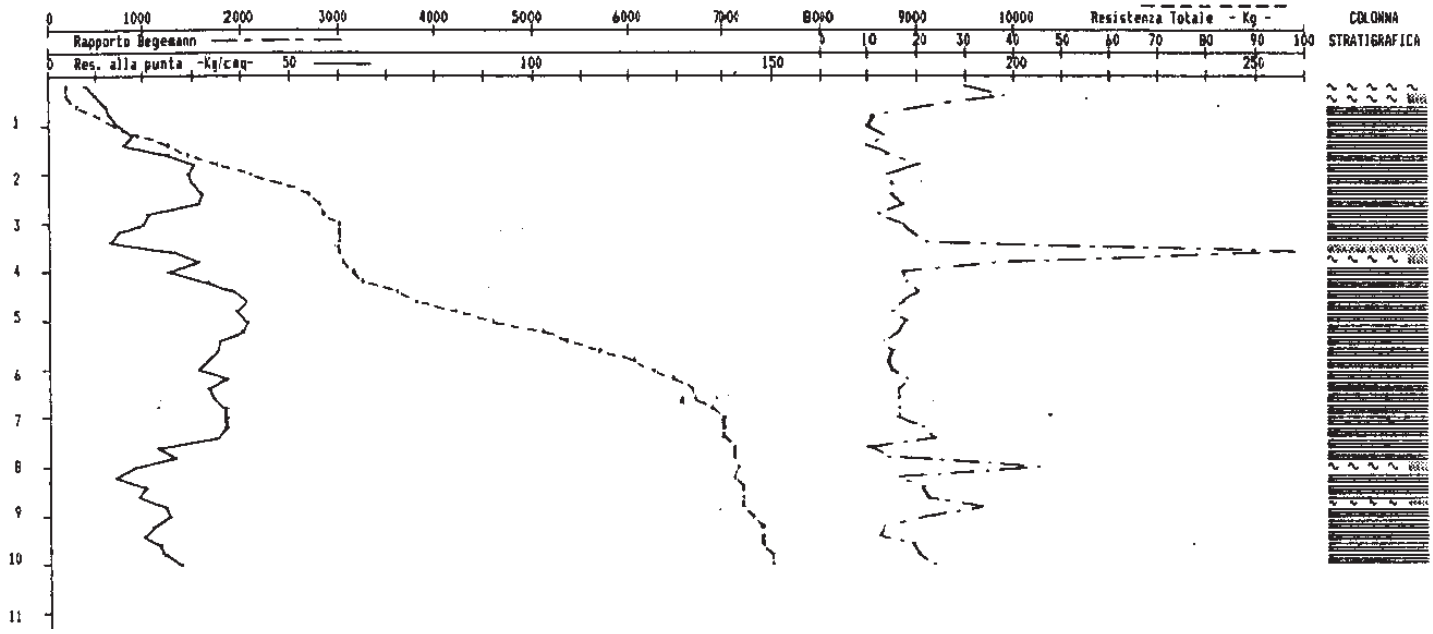
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
.2	80	120	200	40	.26	30	120			.32	22.29
.4	100	140	200	40	.26	38	100			.4	20.3
.6	120	200	300	80	.53	23	180			.48	19.13
.8	130	300	500	170	1.13	11	370			.52	18.72
1	150	380	700	230	1.53	10	550			.6	18.14
1.2	180	380	950	200	1.33	13	770			.72	17.6
1.4	160	410	1250	250	1.66	10	1090			.64	17.92
1.6	250	510	1450	260	1.73	14	1200			1	16.83
1.8	300	520	1750	220	1.46	20	1450			1.2	16.21
2	290	610	2100	320	2.13	14	1810			1.16	16.35
2.2	300	600	2400	300	2	15	2100			1.2	16.21
2.4	320	630	2700	310	2.06	15	2380			1.28	15.91
2.6	310	590	2800	280	1.86	17	2490			1.24	16.06
2.8	210	470	2850	260	1.73	12	2640			.84	17.25
3	200	380	3000	180	1.2	17	2800			.8	17.36
3.2	150	270	3000	120	.8	19	2850			.6	18.14
3.4	130	220	3000	90	.6	22	2870			.52	18.72
3.6	260	300	3000	40	.26	98	2740	34	23		16.72
3.8	310	430	3050	120	.8	39	2740			1.24	16.06
4	250	470	3150	220	1.46	17	2900			1	16.83
4.2	330	610	3250	280	1.86	18	2920			1.32	15.75
4.4	380	660	3600	280	1.86	20	3220			1.52	14.87
4.6	410	770	3800	360	2.4	17	3390			1.64	14.3
4.8	390	770	4200	380	2.53	15	3810			1.56	14.69
5	410	760	4600	350	2.33	18	4190			1.64	14.3
5.2	400	770	5100	370	2.46	16	4700			1.6	14.5
5.4	360	760	5350	400	2.66	13	4990			1.44	15.24
5.6	350	710	5700	360	2.4	15	5350			1.4	15.42
5.8	330	680	6050	350	2.33	14	5720			1.32	15.75
6	310	620	6250	310	2.06	15	5940			1.24	16.06
6.2	370	670	6450	300	2	18	6080			1.48	15.06
6.4	330	640	6650	310	2.06	16	6320			1.32	15.75
6.6	340	660	6700	320	2.13	16	6360			1.36	15.59
6.8	370	710	6850	340	2.26	16	6480			1.48	15.06
7	370	720	7000	350	2.33	16	6630			1.48	15.06
7.2	370	630	7000	260	1.73	21	6630			1.48	15.06
7.4	350	580	7000	230	1.53	23	6650			1.4	15.42
7.6	230	560	7100	330	2.2	10	6870			.92	17.04
7.8	260	530	7100	270	1.8	14	6840			1.04	16.72
8	180	240	7150	60	.4	45	6970			.72	17.6

letture di campagna

valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Br [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	140	270	7100	130	.86	16	6960			.56	18.4
8.4	200	340	7200	140	.93	21	7000			.8	17.36
8.6	190	320	7200	130	.86	22	7010			.76	17.47
8.8	240	350	7200	110	.73	33	6960			.96	16.94
9	250	420	7300	170	1.13	22	7050			1	16.83
9.2	220	480	7400	260	1.73	13	7180			.88	17.15
9.4	200	440	7400	240	1.6	12	7200			.8	17.36
9.6	230	410	7400	180	1.2	19	7170			.92	17.04
9.8	240	420	7500	180	1.2	20	7260			.96	16.94
10	270	450	7500	180	1.2	23	7230			1.08	16.6

2066


0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza Totale - Kg -
COLONNA
STRATIGRAFICA
Rapporto Begemann
5
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
50
100
150
200
250
1
2
3
4
5
6
7
8
9
10
11

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	29	105	3.10	14	38
0.20	13	47	3.20	13	35
0.30	6	22	3.30	19	52
0.40	6	22	3.40	24	65
0.50	6	22	3.50	21	57
0.60	5	18	3.60	19	51
0.70	9	32	3.70	15	41
0.80	5	18	3.80	12	32
0.90	4	14	3.90	10	27
1.00	4	14	4.00	16	43
1.10	3	10	4.10	13	33
1.20	6	20	4.20	19	48
1.30	6	20	4.30	25	63
1.40	7	23	4.40	22	55
1.50	8	26	4.50	21	53
1.60	14	45	4.60	27	67
1.70	14	45	4.70	32	80
1.80	9	29	4.80	24	60
1.90	8	26	4.90	23	57
2.00	8	26	5.00	25	62
2.10	8	24	5.10	26	61
2.20	8	24	5.20	21	49
2.30	11	33	5.30	18	42
2.40	16	48	5.40	17	40
2.50	12	36	5.50	23	54
2.60	14	41	5.60	28	65
2.70	16	47	5.70	36	84
2.80	17	50	5.80	30	70
2.90	21	62	5.90	29	67
3.00	19	56	6.00	38	89

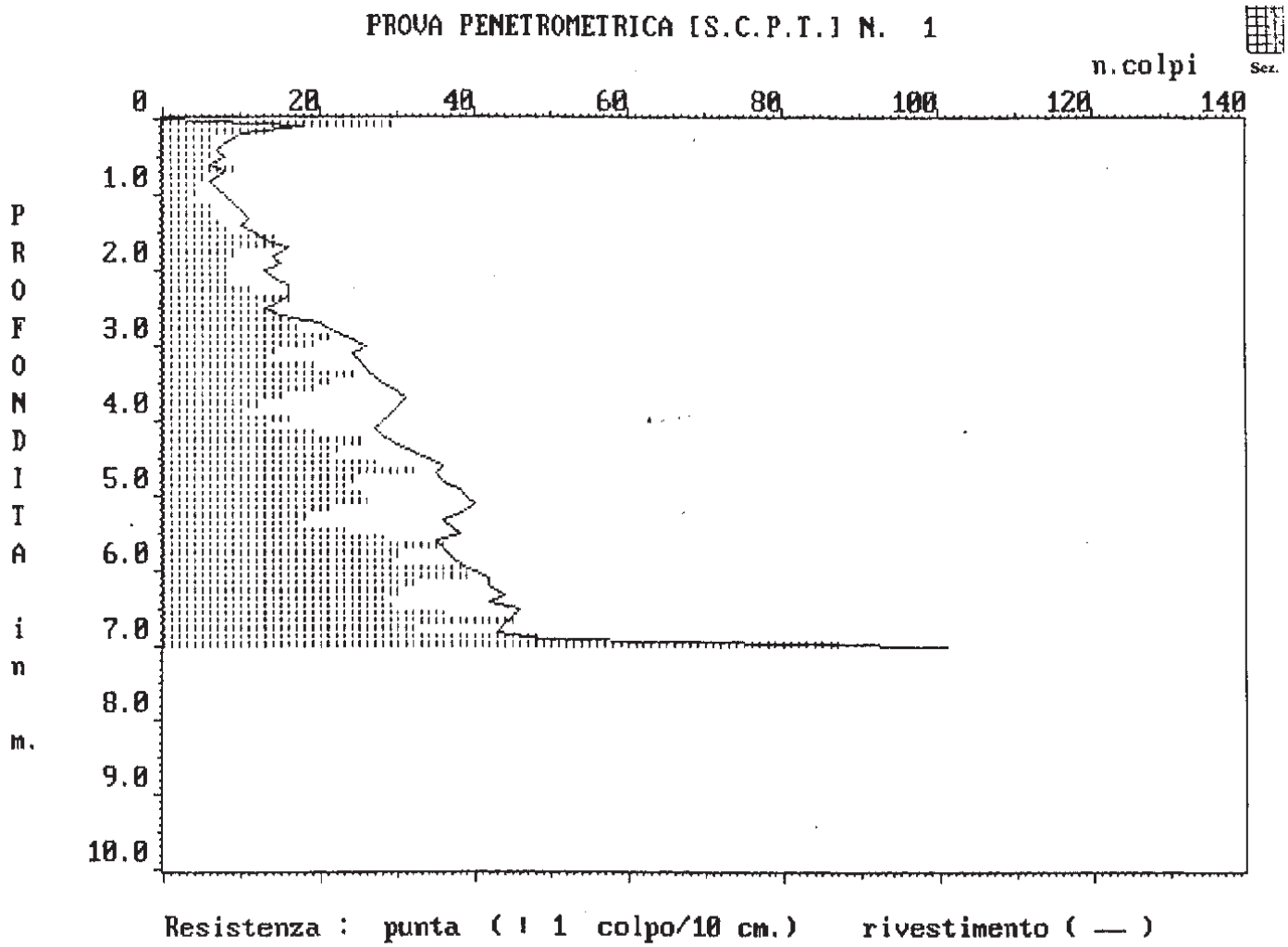
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	39	85	6.60	36	78
6.20	32	70	6.70	45	98
6.30	30	66	6.80	32	70
6.40	28	61	6.90	48	104
6.50	29	63	7.00	87	189

2067

Resistenza rivestimento

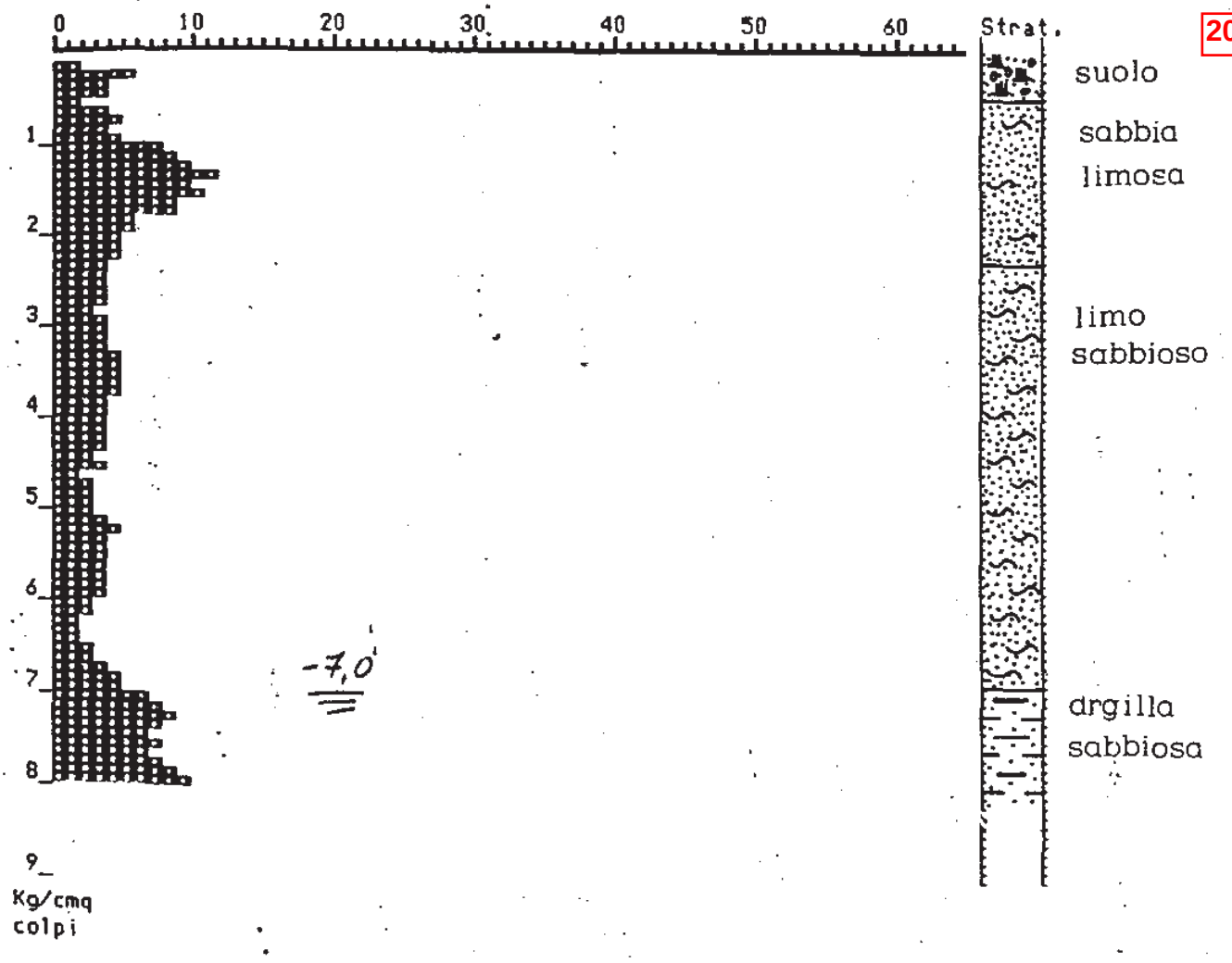
PROFONDITA' IN m.	N. COLPI ogni 10 cm.	PROFONDITA' IN m.	N. COLPI ogni 10 cm.
0.10	18	3.60	30
0.20	10	3.70	31
0.30	8	3.80	30
0.40	7	3.90	29
0.50	8	4.00	28
0.60	6	4.10	27
0.70	8	4.20	28
0.80	6	4.30	30
0.90	7	4.40	32
1.00	8	4.50	34
1.10	9	4.60	36
1.20	10	4.70	35
1.30	11	4.80	36
1.40	10	4.90	38
1.50	12	5.00	39
1.60	13	5.10	40
1.70	16	5.20	39
1.80	14	5.30	36
1.90	15	5.40	37
2.00	13	5.50	38
2.10	14	5.60	35
2.20	16	5.70	36
2.30	16	5.80	37
2.40	15	5.90	38
2.50	13	6.00	40
2.60	15	6.10	42
2.70	20	6.20	42
2.80	22	6.30	44
2.90	24	6.40	42
3.00	26	6.50	46
3.10	24	6.60	45
3.20	25	6.70	44
3.30	26	6.80	43
3.40	27	6.90	49
3.50	28	7.00	101

PROVA PENETROMETRICA [S.C.P.T.] N. 1

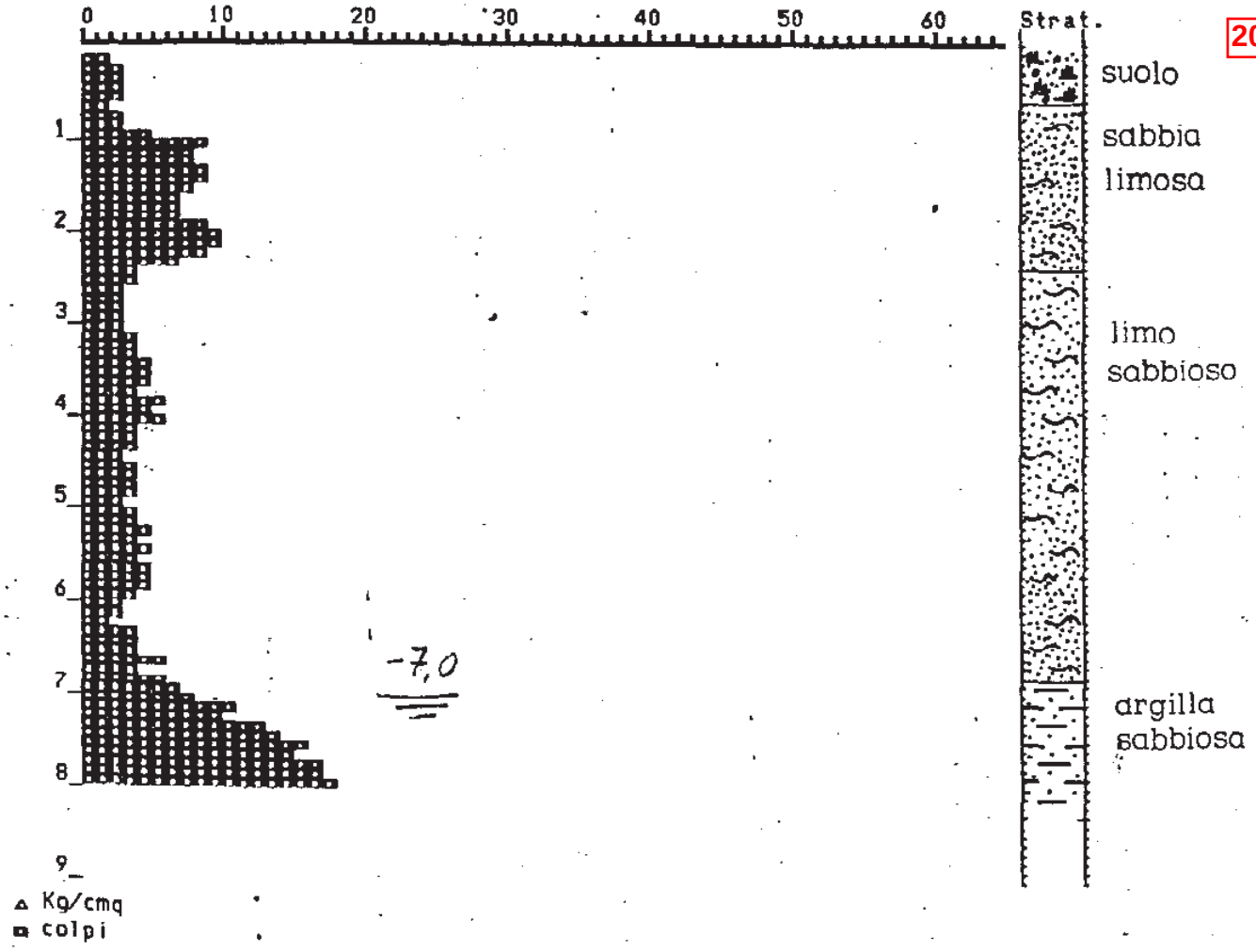


Resistenza : punta (! 1 colpo/10 cm.) rivestimento (—)

2068


0
10
20
30
40
50
60
Strat.
1
2
3
4
5
6
7
8
9
Kg/cmq
colpi
-7,0
suolo
sabbia
limosa
limo
sabbioso
argilla
sabbiosa

2069

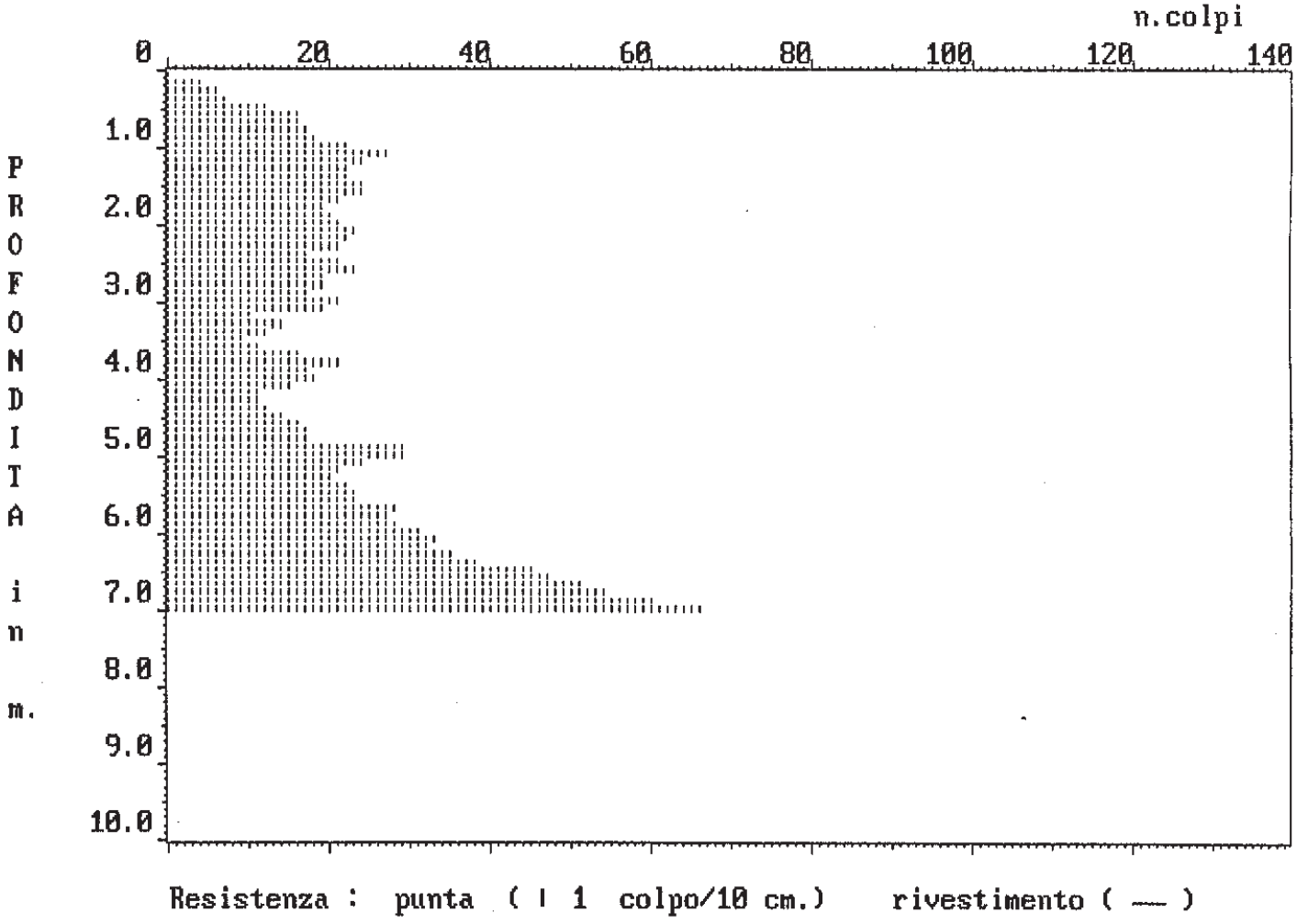

0
10
20
30
40
50
60
Strat.
1
2
3
4
5
6
7
8
9
-7,0
suolo
sabbia
limosa
limo
sabbioso
argilla
sabbiosa
Kg/cmq
colpi

Resistenza alla punta

2130

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg#N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg#N/cm².
0.10	0	0	3.10	19	52
0.20	4	15	3.20	10	27
0.30	6	22	3.30	14	38
0.40	7	25	3.40	12	33
0.50	12	44	3.50	9	25
0.60	16	57	3.60	11	30
0.70	16	57	3.70	16	43
0.80	17	61	3.80	21	57
0.90	18	64	3.90	17	46
1.00	22	78	4.00	18	49
1.10	27	88	4.10	15	38
1.20	24	78	4.20	11	28
1.30	22	72	4.30	11	28
1.40	22	72	4.40	12	30
1.50	24	78	4.50	14	35
1.60	24	77	4.60	16	40
1.70	21	68	4.70	17	42
1.80	19	61	4.80	17	42
1.90	20	64	4.90	29	72
2.00	21	68	5.00	29	72
2.10	23	68	5.10	24	56
2.20	22	65	5.20	21	49
2.30	21	62	5.30	20	47
2.40	17	51	5.40	22	52
2.50	21	62	5.50	23	54
2.60	23	68	5.60	23	53
2.70	19	56	5.70	28	65
2.80	19	56	5.80	27	63
2.90	17	50	5.90	28	65
3.00	21	62	6.00	31	72

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg#N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg#N/cm².
6.10	33	72	6.60	47	102
6.20	32	70	6.70	51	111
6.30	35	77	6.80	54	117
6.40	38	83	6.90	60	130
6.50	45	98	7.00	66	143



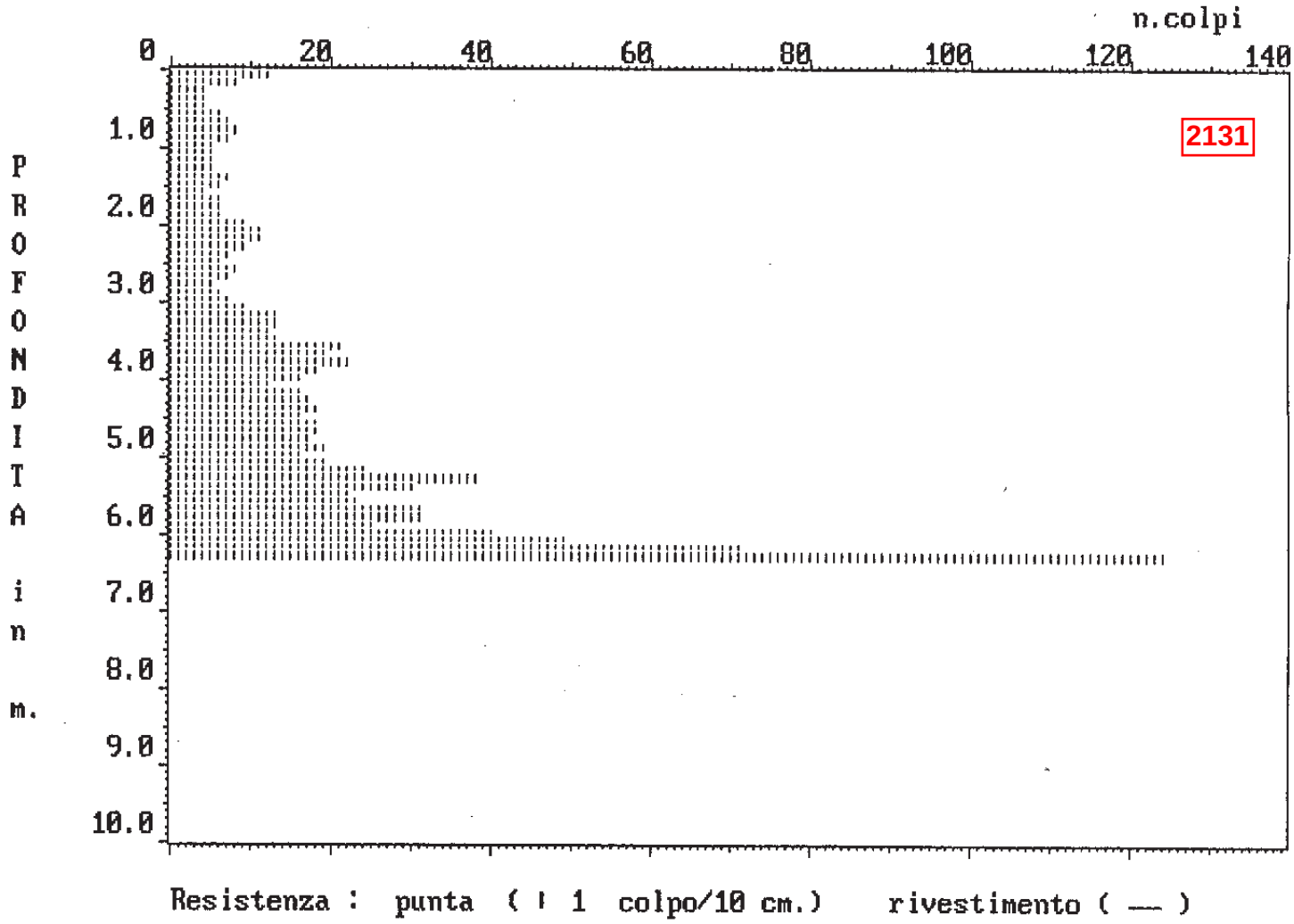
Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

2131

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	12	44	3.10	9	25
0.20	8	29	3.20	13	35
0.30	4	15	3.30	13	35
0.40	4	15	3.40	12	33
0.50	4	15	3.50	13	35
0.60	6	21	3.60	21	57
0.70	7	25	3.70	19	51
0.80	8	29	3.80	22	59
0.90	7	25	3.90	18	49
1.00	5	18	4.00	16	43
1.10	5	16	4.10	12	30
1.20	5	16	4.20	16	40
1.30	5	16	4.30	17	43
1.40	7	23	4.40	18	45
1.50	6	20	4.50	16	40
1.60	4	13	4.60	18	45
1.70	6	19	4.70	18	45
1.80	6	19	4.80	17	42
1.90	6	19	4.90	19	47
2.00	9	29	5.00	16	40
2.10	11	33	5.10	19	45
2.20	11	33	5.20	24	56
2.30	9	27	5.30	38	89
2.40	7	21	5.40	30	70
2.50	6	18	5.50	22	52
2.60	8	23	5.60	23	53
2.70	7	21	5.70	31	72
2.80	5	15	5.80	31	72
2.90	6	18	5.90	25	58
3.00	7	21	6.00	40	93

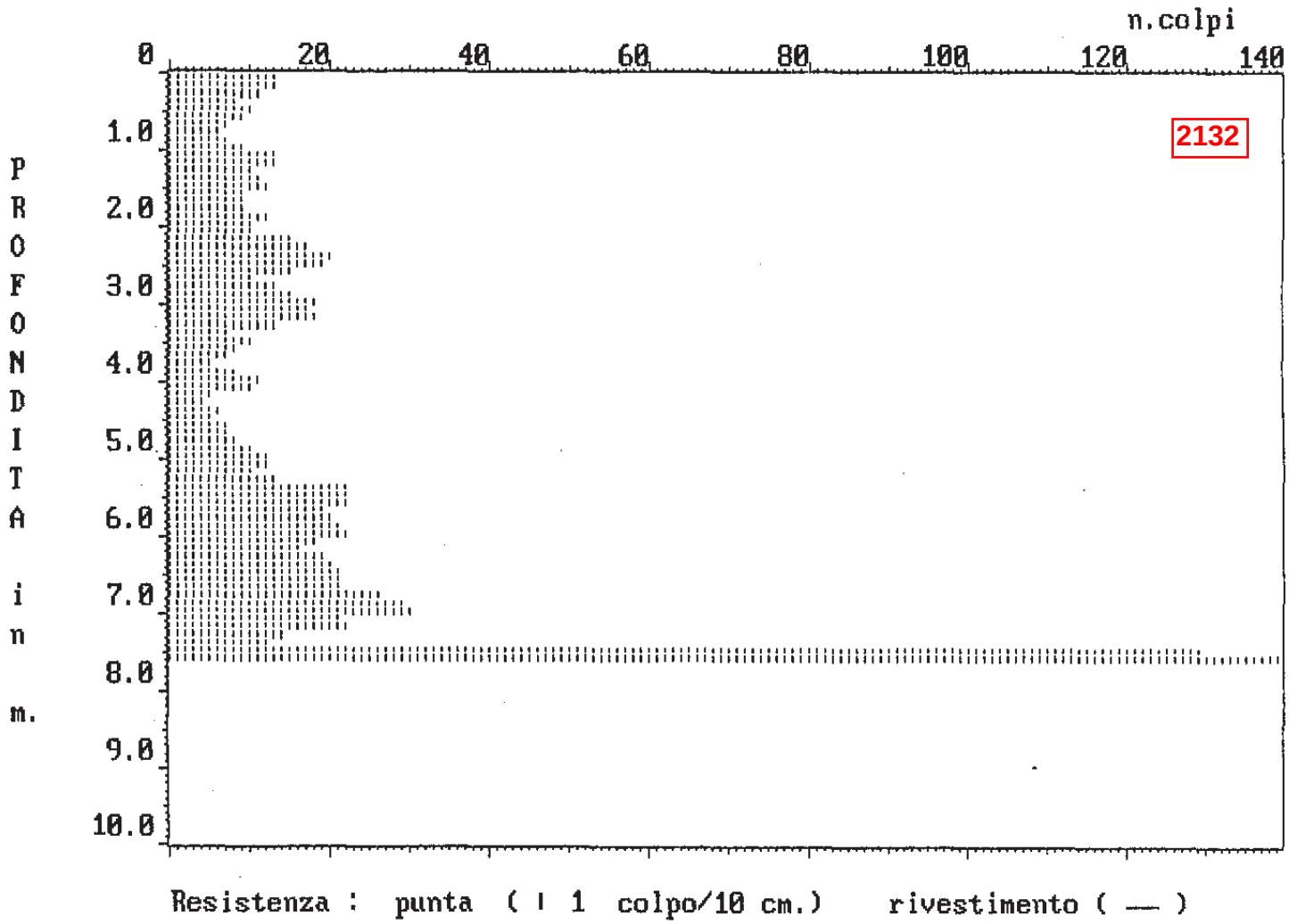
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	49	107	6.30	124	271
6.20	71	155			


n.colpi
0
20
40
60
80
100
120
140
2131
PROFONDITA in m.
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
Resistenza : punta (! 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	13	47	3.10	17	46
0.20	13	47	3.20	18	49
0.30	11	40	3.30	13	35
0.40	8	29	3.40	7	19
0.50	10	36	3.50	10	27
0.60	9	32	3.60	8	22
0.70	7	25	3.70	7	19
0.80	6	21	3.80	5	14
0.90	7	25	3.90	8	22
1.00	9	32	4.00	11	30
1.10	13	42	4.10	10	25
1.20	13	42	4.20	5	13
1.30	10	33	4.30	4	10
1.40	11	36	4.40	6	15
1.50	12	39	4.50	5	13
1.60	9	29	4.60	7	17
1.70	9	29	4.70	7	17
1.80	9	29	4.80	8	20
1.90	12	39	4.90	10	25
2.00	10	32	5.00	12	30
2.10	10	30	5.10	12	28
2.20	15	45	5.20	10	23
2.30	17	51	5.30	13	30
2.40	20	60	5.40	22	52
2.50	19	57	5.50	22	52
2.60	15	44	5.60	22	51
2.70	10	29	5.70	19	44
2.80	13	38	5.80	20	46
2.90	15	44	5.90	21	49
3.00	18	53	6.00	22	51

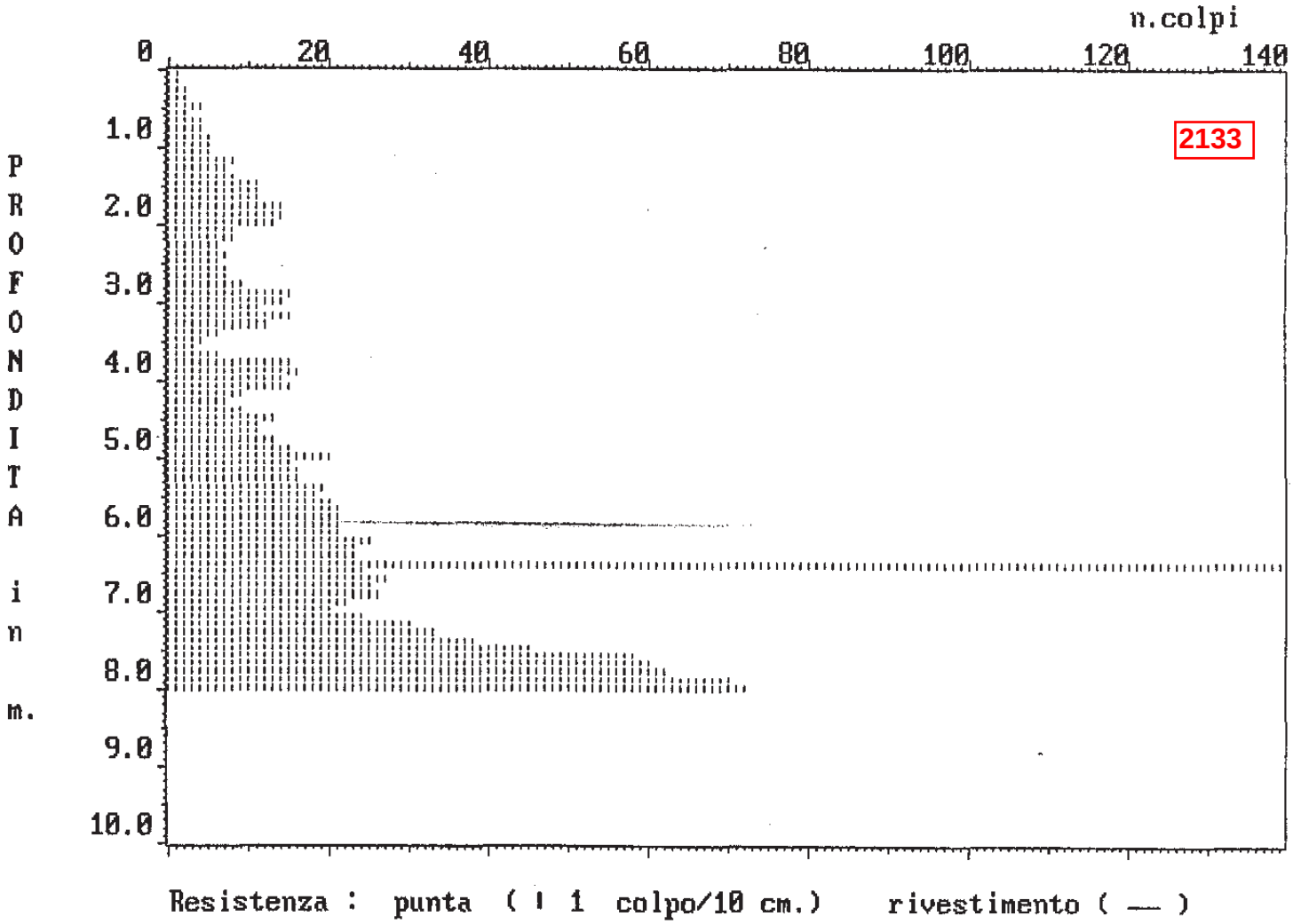
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
6.10	18	39	6.90	29	63
6.20	16	35	7.00	30	65
6.30	19	42	7.10	21	43
6.40	20	44	7.20	22	45
6.50	21	46	7.30	14	29
6.60	21	46	7.40	12	25
6.70	21	46	7.50	129	265
6.80	26	57	7.60	Rif.	Rif.


n.colpi
0
20
40
60
80
100
120
140
2132
PROFONDITA in m.
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	3.10	11	30
0.20	1	4	3.20	15	41
0.30	2	7	3.30	12	33
0.40	2	7	3.40	6	16
0.50	4	15	3.50	4	11
0.60	2	7	3.60	3	8
0.70	4	14	3.70	6	16
0.80	4	14	3.80	15	41
0.90	5	18	3.90	16	43
1.00	5	18	4.00	14	38
1.10	5	16	4.10	15	38
1.20	8	26	4.20	9	23
1.30	7	23	4.30	7	18
1.40	8	26	4.40	9	23
1.50	11	36	4.50	13	33
1.60	11	35	4.60	11	27
1.70	11	35	4.70	11	27
1.80	14	45	4.80	13	32
1.90	14	45	4.90	15	37
2.00	13	42	5.00	20	50
2.10	8	24	5.10	15	35
2.20	8	24	5.20	16	37
2.30	6	18	5.30	16	37
2.40	7	21	5.40	19	45
2.50	6	18	5.50	18	42
2.60	7	21	5.60	20	46
2.70	7	21	5.70	21	49
2.80	9	26	5.80	21	49
2.90	15	44	5.90	21	49
3.00	14	41	6.00	21	49

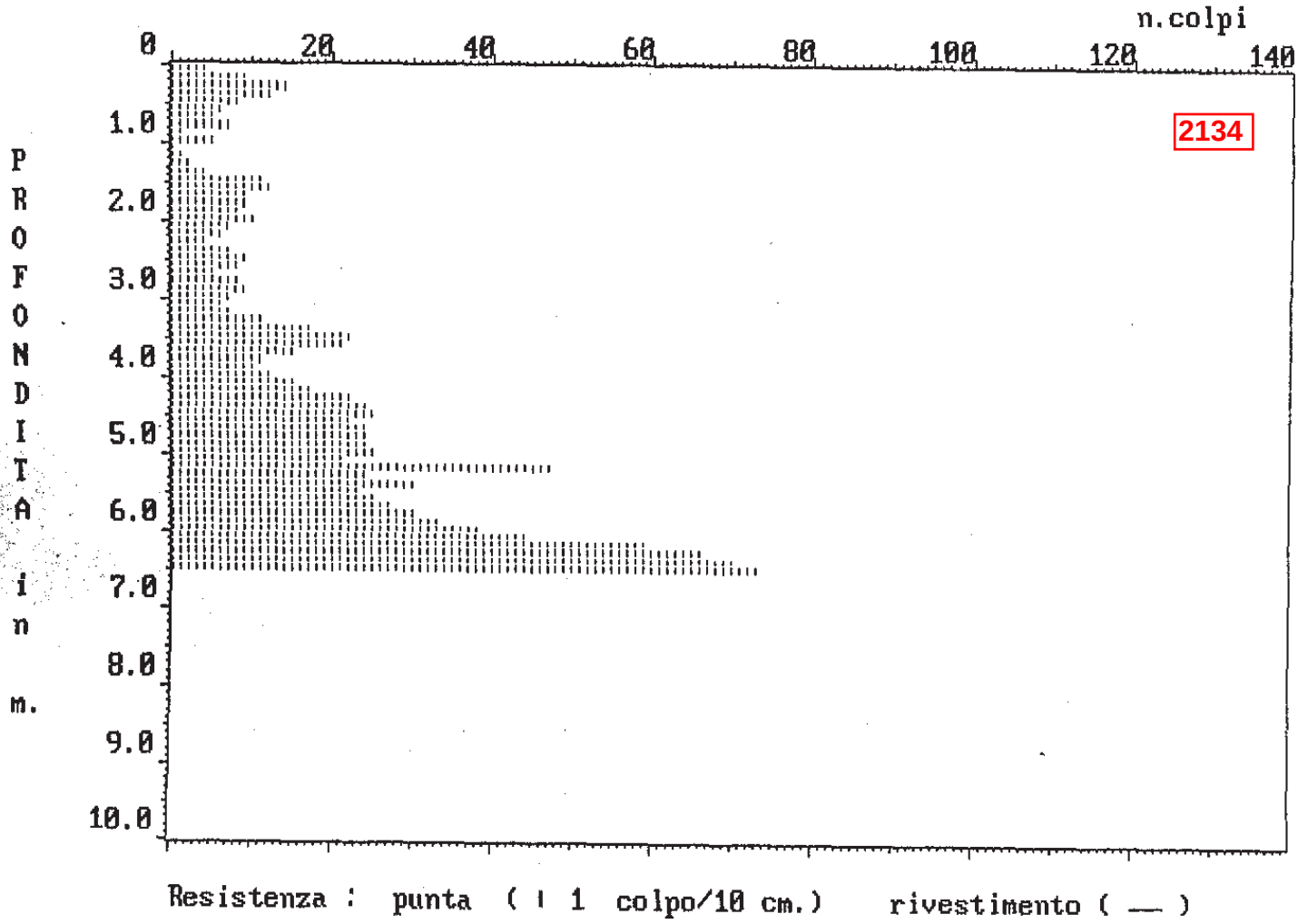
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
6.10	25	55	7.10	24	49
6.20	23	50	7.20	30	62
6.30	23	50	7.30	33	68
6.40	Rif.	Rif.	7.40	38	78
6.50	24	53	7.50	45	92
6.60	27	59	7.60	58	118
6.70	25	54	7.70	60	122
6.80	26	57	7.80	62	126
6.90	22	48	7.90	70	143
7.00	20	43	8.00	72	147


n.colpi
0
20
40
60
80
100
120
140
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
PROFONDITA in m.
2133
Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
0.10	4	15	3.10	6	16
0.20	9	33	3.20	7	19
0.30	14	51	3.30	11	30
0.40	12	44	3.40	17	46
0.50	8	29	3.50	22	60
0.60	6	21	3.60	21	57
0.70	5	18	3.70	15	41
0.80	7	25	3.80	11	30
0.90	1	4	3.90	10	27
1.00	5	18	4.00	12	32
1.10	0	0	4.10	15	38
1.20	1	3	4.20	17	43
1.30	2	7	4.30	22	55
1.40	4	13	4.40	24	60
1.50	11	36	4.50	25	63
1.60	12	39	4.60	22	55
1.70	9	29	4.70	24	60
1.80	9	29	4.80	24	60
1.90	8	26	4.90	24	60
2.00	10	32	5.00	25	62
2.10	7	21	5.10	21	49
2.20	6	18	5.20	47	110
2.30	4	12	5.30	24	56
2.40	7	21	5.40	30	70
2.50	9	27	5.50	23	54
2.60	8	23	5.60	25	58
2.70	5	15	5.70	27	63
2.80	8	23	5.80	30	70
2.90	9	26	5.90	33	77
3.00	7	21	6.00	38	88

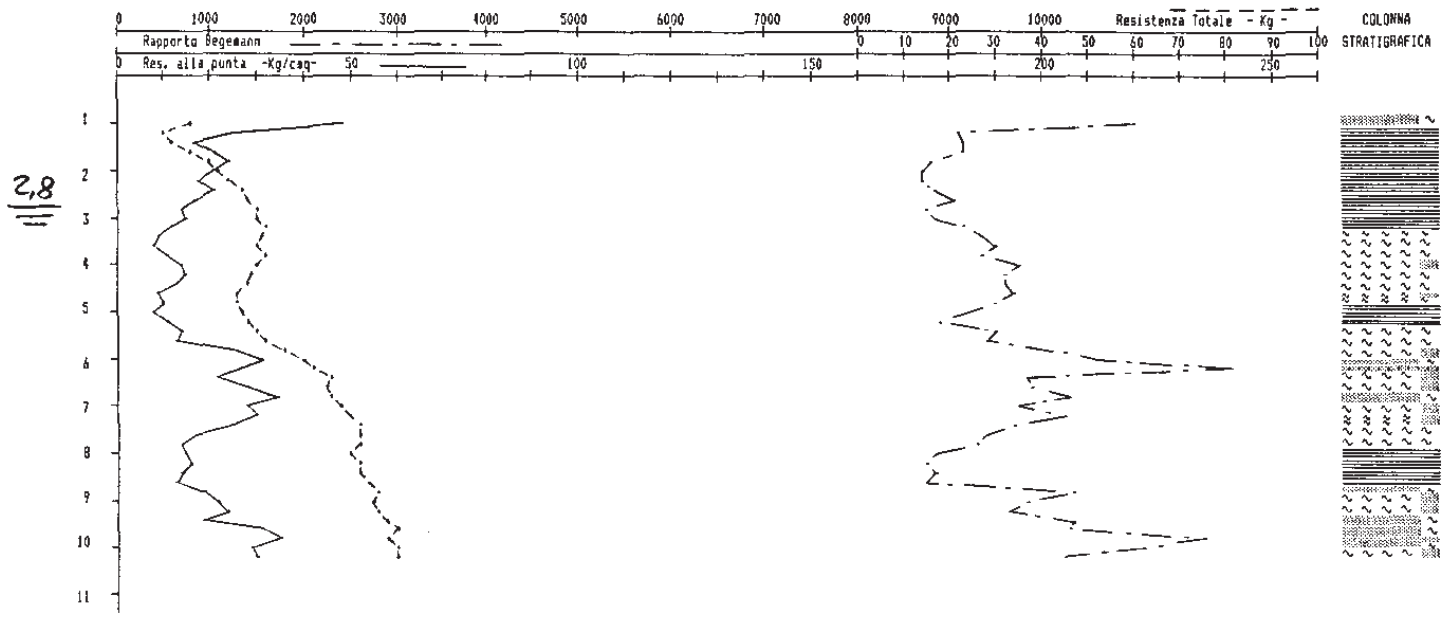
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/N/cm².
6.10	44	96	6.40	70	153
6.20	59	129	6.50	73	160
6.30	66	144			


n.colpi
0
20
40
60
80
100
120
140
2134
PROFONDITA in m.
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

PROFONDITA' [metri]	letture di campagna: Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati: Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2											
.4											
.6											
.8	480	600	900	120	.8	60	320	30	37		12.95
1	250	420	500	170	1.13	22	250			1	16.83
1.2	170	280	600	110	.73	23	430			.68	17.75
1.4	210	350	900	140	.93	23	590			.84	17.25
1.6	240	460	1000	220	1.46	16	760			.96	16.94
1.8	210	430	1100	220	1.46	14	890			.84	17.25
2	180	370	1200	190	1.26	14	1020			.72	17.6
2.2	210	390	1350	180	1.2	17	1140			.84	17.25
2.4	170	290	1400	120	.8	21	1230			.68	17.75
2.6	140	280	1500	140	.93	15	1360			.56	18.4
2.8	150	280	1500	130	.86	17	1350			.6	18.14
3	120	200	1600	80	.53	23	1480			.48	19.13
3.2	90	140	1550	50	.33	27	1460			.36	21.16
3.4	80	120	1500	40	.26	30	1420			.32	22.29
3.6	110	170	1600	60	.4	27	1490			.44	19.64
3.8	140	200	1500	60	.4	35	1360			.56	18.4
4	150	220	1450	70	.46	32	1300			.6	18.14
4.2	130	190	1400	60	.4	32	1270			.52	18.72
4.4	90	130	1300	40	.26	34	1210			.36	21.16
4.6	100	150	1300	50	.33	30	1200			.4	20.3
4.8	80	130	1350	50	.33	24	1270			.32	22.29
5	110	200	1400	90	.6	18	1290			.44	19.64
5.2	140	210	1500	70	.46	30	1360			.56	18.4
5.4	130	200	1600	70	.46	28	1470			.52	18.72
5.6	250	340	1800	90	.6	42	1550			1	16.83
5.8	310	400	2000	90	.6	52	1690	29	26		16.06
6	270	320	2100	50	.33	81	1830	34	23		16.6
6.2	220	310	2300	90	.6	37	2080			.88	17.15
6.4	280	390	2250	110	.73	38	1970			1.12	16.48
6.6	340	450	2300	110	.73	46	1960	29	28		15.59
6.8	280	400	2400	120	.8	35	2120			1.12	16.48
7	300	400	2500	100	.66	45	2200			1.2	16.21
7.2	250	360	2600	110	.73	34	2350			1	16.83
7.4	170	260	2600	90	.6	28	2430			.68	17.75
7.6	140	220	2600	80	.53	26	2460			.56	18.4
7.8	150	280	2500	130	.86	17	2350			.6	18.14
8	160	320	2600	160	1.06	15	2440			.64	17.93

PROFONDITA' [metri]	letture di campagna: Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati: Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	140	260	2600	120	.8	17	2460			.56	18.4
8.4	130	260	2700	130	.86	15	2570			.52	18.72
8.6	190	250	2800	60	.4	47	2610	27	17		17.47
8.8	220	310	2750	90	.6	37	2530			.88	17.15
9	240	350	2800	110	.73	33	2560			.96	16.94
9.2	190	250	2900	60	.4	47	2710	27	17		17.47
9.4	310	410	3000	100	.66	46	2690	29	26		16.06
9.6	350	420	2900	70	.46	75	2550	30	29		15.42
9.8	290	360	3000	70	.46	62	2710	29	25		16.33
10	300	400	3000	100	.66	45	2700			1.2	16.21

2135

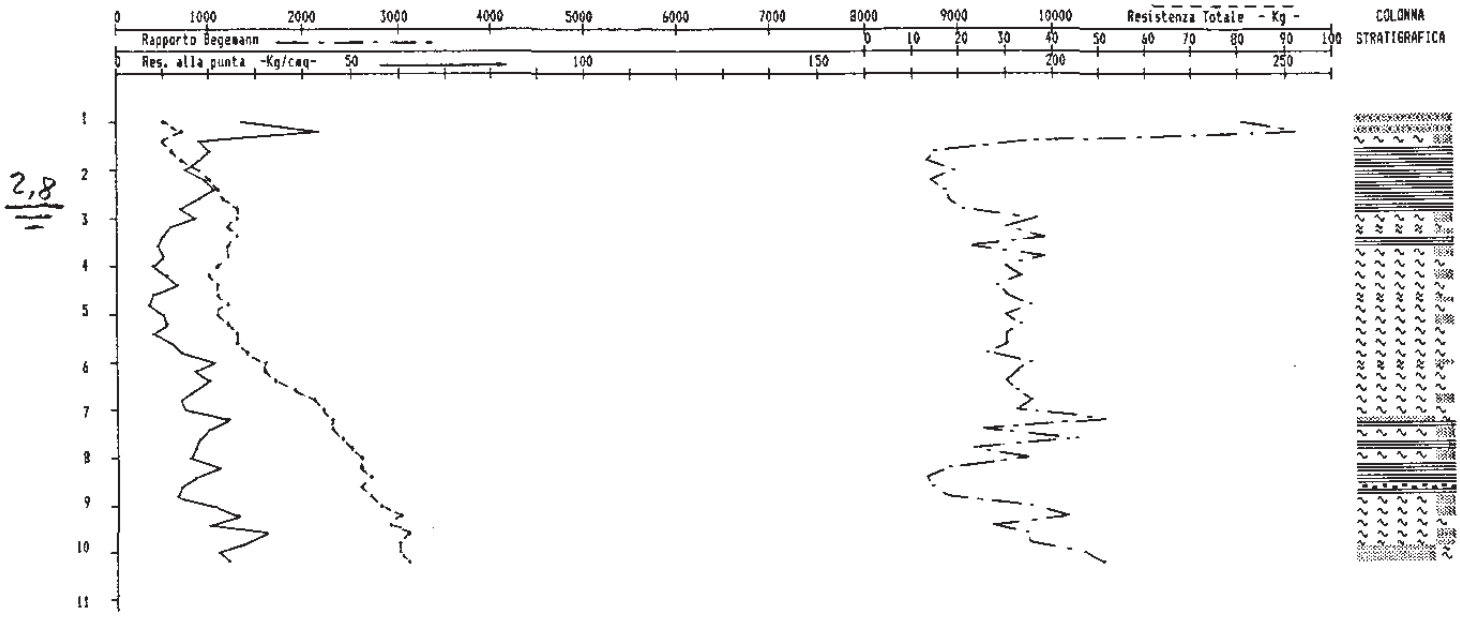

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
0 Res. alla punta -Kg/cmq- 50 100 150 200 250
COLONNA STRATIGRAFICA
1 2 3 4 5 6 7 8 9 10 11

2,8

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Rat	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
.2											
.4											
.6											
.8	270	320	500	50	.33	81	230	34	23		16.6
1	430	500	700	70	.46	92	270	34	34		13.92
1.2	180	260	500	80	.53	34	320			.72	17.6
1.4	200	400	600	200	1.33	15	400			.8	17.36
1.6	180	390	700	210	1.4	13	520			.72	17.6
1.8	150	270	900	120	.8	19	750			.6	18.14
2	190	390	1000	200	1.33	14	810			.76	17.47
2.2	210	400	1100	190	1.26	17	890			.84	17.25
2.4	180	330	1150	150	1	18	970			.72	17.6
2.6	140	240	1300	100	.66	21	1160			.56	18.4
2.8	170	240	1300	70	.46	36	1130			.68	17.75
3	120	180	1200	60	.4	30	1080			.48	19.13
3.2	100	140	1300	40	.26	38	1200			.4	20.3
3.4	90	150	1200	60	.4	23	1110			.36	21.16
3.6	100	140	1200	40	.26	38	1100			.4	20.3
3.8	80	120	1100	40	.26	30	1020			.32	22.29
4	110	160	1000	50	.33	33	890			.44	19.64
4.2	130	200	1100	70	.46	28	970			.52	18.72
4.4	80	120	1100	40	.26	30	1020			.32	22.29
4.6	70	100	1200	30	.2	35	1130			.28	23.81
4.8	100	150	1100	50	.33	30	1000			.4	20.3
5	110	160	1200	50	.33	33	1090			.44	19.64
5.2	80	120	1300	40	.26	30	1220			.32	22.29
5.4	120	180	1300	60	.4	30	1180			.48	19.13
5.6	140	220	1400	80	.53	26	1260			.56	18.4
5.8	210	300	1600	90	.6	35	1390			.84	17.25
6	170	250	1600	80	.53	32	1430			.68	17.75
6.2	200	300	1700	100	.66	30	1500			.8	17.36
6.4	170	250	1900	80	.53	32	1730			.68	17.75
6.6	140	200	2100	60	.4	35	1960			.56	18.4
6.8	150	220	2200	70	.46	32	2050			.6	18.14
7	240	310	2300	70	.46	51	2060	27	21		16.94
7.2	200	320	2300	120	.8	25	2100			.8	17.36
7.4	180	240	2400	60	.4	45	2220			.72	17.6
7.6	170	280	2500	110	.73	23	2330			.68	17.75
7.8	160	230	2600	70	.46	34	2440			.64	17.93
8	220	400	2600	180	1.2	18	2380			.88	17.15

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Rat	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
8.2	170	360	2700	190	1.26	13	2530			.68	17.75
8.4	140	290	2600	150	1	14	2460			.56	18.4
8.6	130	240	2700	110	.73	18	2570			.52	18.72
8.8	210	300	2800	90	.6	35	2590			.84	17.25
9	260	350	3000	90	.6	43	2740			1.04	16.72
9.2	200	310	2900	110	.73	27	2700			.8	17.36
9.4	320	460	3100	140	.93	34	2780			1.28	15.91
9.6	280	400	3000	120	.8	35	2720			1.12	16.48
9.8	220	290	3000	70	.46	47	2780	27	20		17.15
10	240	310	3100	70	.46	51	2860	27	21		16.94

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0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq-
50 100 150 200 250
COLONNA STRATIGRAFICA
1 2 3 4 5 6 7 8 9 10 11

2,8

2.95	17.13	0.066	3.60
3.00	17.09	0.062	3.40
3.05	17.16	0.068	3.72
3.10	17.24	0.075	4.12
3.15	17.18	0.070	3.82
3.20	17.24	0.075	4.12
3.25	17.24	0.075	4.11
3.30	17.16	0.068	3.72
3.35	17.07	0.060	3.29
3.40	17.04	0.058	3.20
3.45	17.04	0.058	3.20
3.50	17.02	0.056	3.10
3.55	17.07	0.060	3.29
3.60	17.07	0.060	3.29
3.65	16.98	0.054	2.97
3.70	17.20	0.071	3.90
3.75	17.24	0.074	4.10
3.80	17.27	0.077	4.23
3.85	17.24	0.074	4.09
3.90	17.24	0.074	4.09
3.95	17.20	0.071	3.90
4.00	17.20	0.071	3.89
4.05	17.18	0.069	3.80
4.10	17.07	0.059	3.28
4.15	16.93	0.050	2.78
4.20	16.87	0.046	2.59
4.25	16.84	0.045	2.50
4.30	16.98	0.053	2.96
4.35	16.96	0.052	2.87
4.40	16.90	0.048	2.68
4.45	16.98	0.053	2.96
4.50	17.13	0.064	3.56
4.55	17.16	0.067	3.69
4.60	17.11	0.062	3.47
4.65	17.13	0.064	3.56
4.70	17.13	0.064	3.56
4.75	17.29	0.078	4.30
4.80	17.34	0.083	4.60
4.85	17.46	0.096	5.33
4.90	17.50	0.100	5.56
4.95	17.45	0.094	5.22
5.00	17.40	0.088	4.92
5.05	17.34	0.082	4.59
5.10	17.22	0.071	3.97
5.15	17.13	0.064	3.55
5.20	17.02	0.055	3.08
5.25	16.93	0.049	2.77
5.30	16.90	0.047	2.68
5.35	16.90	0.047	2.68
5.40	16.96	0.050	2.86
5.45	17.02	0.055	3.08
5.50	17.16	0.066	3.68
5.55	17.24	0.073	4.06
5.60	17.24	0.073	4.06
5.65	17.22	0.071	3.96
5.70	17.27	0.075	4.19
5.75	17.27	0.075	4.19
5.80	17.24	0.072	4.06
5.85	17.24	0.072	4.05
5.90	17.22	0.070	3.96
5.95	17.18	0.067	3.77
6.00	17.18	0.067	3.77
6.05	17.20	0.069	3.86
6.10	17.20	0.069	3.86
6.15	17.16	0.065	3.67
6.20	17.16	0.065	3.67
6.25	17.16	0.065	3.67
6.30	17.11	0.061	3.45
6.35	17.02	0.054	3.07
6.40	16.90	0.046	2.67
6.45	16.84	0.042	2.49
6.50	16.80	0.040	2.37
6.55	16.77	0.038	2.28
6.60	16.77	0.038	2.28
6.65	16.80	0.040	2.37
6.70	16.77	0.038	2.28
6.75	16.77	0.038	2.29
6.80	16.77	0.038	2.29
6.85	16.80	0.040	2.37
6.90	16.80	0.040	2.37
6.95	16.80	0.040	2.37
7.00	16.77	0.038	2.29

Committente:
Località :
Dir. Lavori:
Data :

CPTE: 1

Cu (MN/mq)	Coesione non drenata			Falda (m)	2.000
Ga (KN/mc)	Peso specifico		DR (%)		Densità relativa
Fi (°)	Angolo di attrito		Ed (MN/mq)		Modulo edometrico
	1 MN/mq = 10.2 Kg/cmq				

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: CASTELLA.1

D	Ga	Cu	Dr	Fi	Ed
0.05	16.44	0.030			1.70
0.10	16.00	0.013			0.67
0.15	16.00	0.011			0.57
0.20	16.00	0.013			0.66
0.25	16.00	0.007			0.39
0.30	16.00	0.006			0.30
0.35	16.93	0.054			2.99
0.40	17.11	0.067			3.77
0.45	16.87	0.050			2.74
0.50	16.53	0.033			1.75
0.55	16.20	0.022			1.14
0.60	16.32	0.025			1.33
0.65	16.20	0.022			1.14
0.70	16.32	0.025			1.33
0.75	16.32	0.025			1.33
0.80	16.32	0.025			1.33
0.85	16.77	0.044			2.35
0.90	16.61	0.036			1.92
0.95	16.53	0.033			1.73
1.00	16.57	0.034			1.82
1.05	16.53	0.033			1.73
1.10	16.48	0.031			1.63
1.15	16.53	0.032			1.72
1.20	16.44	0.029			1.54
1.25	16.48	0.031			1.63
1.30	17.70	0.111			7.63
1.35	17.57	0.113			6.44
1.40	17.34	0.086			4.79
1.45	16.66	0.038			2.03
1.50	16.80	0.045			2.41
1.55	16.73	0.041			2.22
1.60	16.66	0.038			2.03
1.65	16.77	0.043			2.31
1.70	16.80	0.045			2.40
1.75	16.73	0.041			2.21
1.80	16.73	0.041			2.21
1.85	16.77	0.043			2.31
1.90	16.77	0.043			2.30
1.95	16.73	0.041			2.21
2.00	16.70	0.039			2.11
2.05	16.66	0.037			2.02
2.10	16.77	0.043			2.30
2.15	16.80	0.044			2.39
2.20	16.77	0.043			2.30
2.25	16.80	0.044			2.39
2.30	16.80	0.044			2.39
2.35	16.77	0.042			2.30
2.40	16.84	0.046			2.52
2.45	16.87	0.048			2.61
2.50	16.84	0.046			2.51
2.55	16.90	0.050			2.70
2.60	16.96		22	30	10.38
2.65	17.04	0.059			3.21
2.70	17.07	0.061			3.31
2.75	17.11	0.064			3.50
2.80	17.02	0.057			3.11
2.85	17.07	0.061			3.31
2.90	17.09	0.062			3.40

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7.05	16.73	0.036			2.20
7.10	16.77	0.038			2.29
7.15	16.77	0.038			2.29
7.20	16.80	0.039			2.37
7.25	16.84	0.042			2.49
7.30	16.87	0.043			2.58
7.35	16.90	0.045			2.67
7.40	16.90	0.045			2.67
7.45	16.84	0.041			2.49
7.50	16.80	0.039			2.38
7.55	16.70	0.034			2.11
7.60	16.66	0.032			2.02
7.65	16.70	0.034			2.11
7.70	16.61		10	30	1.90
7.75	16.61		10	30	1.90
7.80	16.61		10	30	1.90
7.85	16.61		10	30	1.90
7.90	16.57		10	30	9.50
7.95	16.61		10	30	9.57
8.00	17.09		11	31	3.34
8.05	17.13		13	31	3.53
8.10	17.20		16	31	3.84
8.15	17.07	0.055			3.25
8.20	17.43		25	31	5.05
8.25	18.29		67	33	14.91
8.30	18.40		71	34	17.05
8.35	18.41		72	34	17.28
8.40	18.42		72	34	17.52
8.45	18.40		71	34	17.15
8.50	18.28		66	33	14.76
8.55	17.93		44	32	15.23
8.60	17.54		29	31	12.68
8.65	17.16	0.062			3.65
8.70	16.96		4	30	10.38
8.75	16.96		4	30	10.38
8.80	16.77		10	30	9.90
8.85	16.77	0.036			2.29
8.90	16.77	0.036			2.29
8.95	16.73	0.034			2.20
9.00	16.73	0.034			2.20
9.05	16.73	0.034			2.20
9.10	16.70	0.032			2.11
9.15	16.70		10	30	9.75
9.20	16.66		10	30	9.68
9.25	16.66		10	30	9.68
9.30	16.66		10	30	9.68
9.35	16.70		10	30	2.11
9.40	16.70		10	30	9.75
9.45	16.73		10	30	9.82
9.50	16.73		10	30	9.82
9.55	16.77	0.035			2.29
9.60	16.84	0.039			2.50
9.65	16.84	0.039			2.50
9.70	16.87	0.041			2.59
9.75	16.93	0.044			2.76
9.80	16.93	0.044			2.76
9.85	16.96	0.046			2.85
9.90	16.93	0.044			2.76
9.95	16.93	0.044			2.76
10.00	16.98	0.048			2.94
10.05	16.98	0.048			2.94
10.10	17.07	0.053			3.24
10.15	17.07	0.053			3.24
10.20	17.07	0.053			3.24
10.25	17.04	0.051			3.15
10.30	16.98	0.047			2.94
10.35	16.98	0.047			2.94
10.40	16.96	0.046			2.85
10.45	16.98	0.047			2.94
10.50	17.02	0.049			3.06
10.55	16.98	0.047			2.94
10.60	17.02	0.049			3.06
10.65	17.02	0.049			3.06
10.70	17.04	0.051			3.15
10.75	17.07	0.053			3.24
10.80	17.02	0.049			3.06
10.85	17.02	0.049			3.06
10.90	16.98	0.047			2.94
10.95	16.96	0.045			2.85
11.00	16.96	0.045			2.85
11.05	16.96	0.045			2.85
11.10	16.93	0.043			2.77

11.15	16.96	0.045			2.85
11.20	17.04	0.051			3.15
11.25	17.16	0.060			3.64
11.30	17.20	0.063			3.83
11.35	17.24	0.067			4.01
11.40	17.27	0.069			4.14
11.45	17.29	0.071			4.23
11.50	17.29	0.071			4.23
11.55	17.27	0.069			4.13
11.60	17.24	0.066			4.01
11.65	17.22	0.065			3.92
11.70	17.18	0.061			3.73
11.75	17.22	0.065			3.92
11.80	17.16	0.059			3.64
11.85	17.04	0.050			3.15
11.90	16.96	0.044			2.86
11.95	16.93	0.042			2.77
12.00	16.96	0.044			2.86
12.05	16.98	0.046			2.94
12.10	17.04	0.050			3.15
12.15	17.09	0.053			3.33
12.20	17.09	0.053			3.33
12.25	17.09	0.053			3.33
12.30	17.09	0.053			3.33
12.35	17.09	0.053			3.33
12.40	17.09	0.053			3.33
12.45	17.09	0.053			3.33
12.50	17.09	0.053			3.33
12.55	17.09	0.053			3.33
12.60	17.11	0.054			3.42
12.65	17.16	0.058			3.64
12.70	17.18	0.060			3.73
12.75	17.20	0.062			3.82
12.80	17.20	0.062			3.82
12.85	17.20	0.062			3.82
12.90	17.18	0.060			3.73
12.95	17.16	0.058			3.64
13.00	17.20	0.062			3.82
13.05	17.24	0.065			4.00
13.10	17.29	0.069			4.22
13.15	17.29	0.069			4.22
13.20	17.27	0.067			4.13
13.25	17.20	0.061			3.82
13.30	17.20	0.061			3.82
13.35	17.20	0.061			3.82
13.40	17.16	0.058			3.64
13.45	17.20	0.061			3.82
13.50	17.16	0.058			3.64
13.55	17.09	0.052			3.33
13.60	17.07	0.050			3.24
13.65	17.04	0.048			3.15
13.70	16.93	0.040			2.77
13.75	17.04		1	31	10.63
13.80	17.04	0.048			3.15
13.85	17.13	0.055			3.51
13.90	17.07	0.050			3.24
13.95	17.02	0.046			3.06
14.00	17.16	0.057			3.63
14.05	17.29	0.068			4.22
14.10	17.38	0.077			4.72
14.15	17.38	0.077			4.72
14.20	17.20	0.060			3.82
14.25	17.16	0.057			3.63
14.30	17.18	0.058			3.73
14.35	17.16	0.057			3.63
14.40	17.18	0.058			3.73
14.45	17.16	0.057			3.63
14.50	17.18	0.058			3.73
14.55	17.22	0.062			3.91
14.60	17.20	0.060			3.82
14.65	17.22	0.062			3.91
14.70	17.22	0.062			3.91
14.75	17.29	0.067			4.22
14.80	17.29	0.067			4.22
14.85	17.27	0.066			4.12
14.90	17.27	0.065			4.12
14.95	17.20	0.060			3.82
15.00	17.20	0.060			3.82
15.05	17.20	0.059			3.82
15.10	17.20	0.059			3.82
15.15	17.24	0.063			4.00
15.20	17.27	0.065			4.12

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15.25	17.27	0.065			4.12
15.30	17.31	0.069			4.31
15.35	17.32	0.070			4.40
15.40	17.36	0.074			4.59
15.45	17.38	0.076			4.71
15.50	17.36	0.074			4.58
15.55	17.31	0.068			4.31
15.60	17.22	0.061			3.91
15.65	17.22	0.061			3.91
15.70	17.20	0.059			3.81
15.75	17.16	0.055			3.63
15.80	17.16	0.055			3.63
15.85	17.18	0.057			3.72
15.90	17.13	0.053			3.51
15.95	17.16	0.055			3.63
16.00	17.24	0.062			4.00
16.05	17.29	0.066			4.21
16.10	17.31	0.068			4.30
16.15	17.36	0.073			4.58
16.20	17.34	0.071			4.49
16.25	17.29	0.066			4.21
16.30	17.27	0.064			4.12
16.35	17.24	0.062			4.00
16.40	17.22	0.060			3.91
16.45	17.22	0.060			3.91
16.50	17.18	0.056			3.72
16.55	17.18	0.056			3.72
16.60	17.18	0.056			3.72
16.65	17.20	0.058			3.81
16.70	17.27	0.064			4.12
16.75	17.29	0.065			4.21
16.80	17.22	0.059			3.90
16.85	17.27	0.063			4.12
16.90	17.24	0.061			4.00
16.95	17.24	0.061			4.00
17.00	17.20	0.058			3.81
17.05	17.18	0.056			3.72
17.10	17.18	0.056			3.72
17.15	17.20	0.057			3.81
17.20	17.20	0.057			3.81
17.25	17.22	0.059			3.90
17.30	17.20	0.057			3.81
17.35	17.22	0.059			3.90
17.40	17.20	0.057			3.81
17.45	17.22	0.059			3.90
17.50	17.22	0.059			3.90
17.55	17.18	0.055			3.72
17.60	17.16	0.053			3.63
17.65	17.11	0.049			3.42
17.70	17.13	0.051			3.51
17.75	17.11	0.049			3.42
17.80	17.16	0.053			3.63
17.85	17.22	0.058			3.90
17.90	17.20	0.057			3.81
17.95	17.20	0.057			3.81
18.00	17.16	0.053			3.63
18.05	17.16	0.053			3.63
18.10	17.16		2	31	11.03
18.15	17.11		0	31	10.85
18.20	17.09		10	31	10.78
18.25	17.07		10	31	10.70
18.30	17.09		10	31	10.78
18.35	17.16	0.053			3.63
18.40	17.18	0.054			3.72
18.45	17.13	0.050			3.51
18.50	17.07	0.045			3.25
18.55	17.02		10	31	10.55
18.60	17.04	0.043			3.16
18.65	17.24	0.059			3.99
18.70	17.50	0.085			5.38
18.75	17.78		27	32	14.10
18.80	17.74		26	32	7.20
18.85	17.74		26	32	7.20
18.90	17.66		22	32	6.49
18.95	17.32		8	31	4.39
19.00	17.09		10	31	3.34
19.05	16.93		10	30	2.77
19.10	16.98		10	30	2.95
19.15	17.04		10	31	10.63
19.20	17.13		0	31	10.93
19.25	17.20	0.055			3.81
19.30	17.20	0.055			3.81
19.35	17.24	0.059			3.99
19.40	17.31	0.064			4.30
19.45	17.27	0.061			4.11
19.50	17.22	0.057			3.90
19.55	17.22	0.057			3.90
19.60	17.20	0.055			3.81
19.65	17.20	0.055			3.81
19.70	17.18	0.053			3.72
19.75	17.18	0.053			3.72
19.80	17.18	0.053			3.72
19.85	17.20	0.055			3.81
19.90	17.24	0.058			3.99
19.95	17.24	0.058			3.99
20.00	17.24	0.058			3.99

Fine -

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SOIL TEST
AREZZO - Via CALAMANDREI 265/A - Tel. (0575)-33644 - Fax. (0575)-23230

Committente:
Località :
Dir. Lavori:
Data :

CPT = 1

Qc (MN/mq) Resistenza alla punta I (°) Inclinazione
Fs (MN/mq) Attrito laterale locale Rf (%) Rapporto di attrito

1 MN/mq = 10.2 Kg/cmq

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: CASTELLA:1

D	Qc	Fs	I	Rf	Tipo di Terreno
0.05	0.51	0.013	0.01	2.55	Limo
0.10	0.22	0.015	0.00	6.82	Argilla
0.15	0.19	0.021	0.00	11.05	Argilla
0.20	0.22	0.032	0.00	14.55	Argilla
0.25	0.13	0.021	0.00	16.15	Argilla
0.30	0.10	0.021	0.00	21.00	Argilla
0.35	0.92	0.026	0.01	2.83	Limo
0.40	1.14	0.034	0.00	2.98	Limo
0.45	0.86	0.020	0.00	2.33	Limo
0.50	0.57	0.017	0.00	2.98	Limo
0.55	0.38	0.015	0.01	3.95	Limo argilloso
0.60	0.44	0.019	0.00	4.32	Argilla
0.65	0.38	0.016	0.00	4.21	Argilla
0.70	0.44	0.017	0.00	3.86	Limo argilloso
0.75	0.44	0.031	0.00	7.05	Argilla
0.80	0.44	0.035	0.00	7.95	Argilla
0.85	0.76	0.041	0.00	5.39	Argilla
0.90	0.63	0.053	0.01	8.41	Argilla
0.95	0.57	0.054	0.00	9.47	Argilla
1.00	0.60	0.053	0.01	8.83	Argilla
1.05	0.57	0.059	0.00	10.35	Argilla
1.10	0.54	0.057	0.01	10.56	Argilla
1.15	0.57	0.045	0.01	7.89	Argilla
1.20	0.51	0.066	0.00	12.94	Argilla
1.25	0.54	0.064	0.01	11.85	Argilla
1.30	2.25	0.064	0.01	2.84	Limo
1.35	1.94	0.094	0.01	4.85	Argilla
1.40	1.49	0.939	0.01	63.02	Argilla
1.45	0.67	0.023	0.03	3.43	Limo argilloso
1.50	0.79	0.022	0.04	2.78	Limo
1.55	0.73	0.020	0.03	2.74	Limo
1.60	0.67	0.034	0.04	5.07	Argilla
1.65	0.76	0.040	0.04	5.26	Argilla
1.70	0.79	0.039	0.04	4.94	Argilla
1.75	0.73	0.036	0.03	4.93	Argilla
1.80	0.73	0.036	0.04	4.93	Argilla
1.85	0.76	0.027	0.03	3.55	Limo argilloso
1.90	0.76	0.027	0.05	3.55	Limo argilloso
1.95	0.73	0.025	0.05	3.42	Limo argilloso
2.00	0.70	0.024	0.07	3.43	Limo argilloso
2.05	0.67	0.027	0.09	4.03	Argilla
2.10	0.76	0.029	0.09	3.82	Limo argilloso
2.15	0.79	0.030	0.08	3.80	Limo argilloso
2.20	0.76	0.028	0.09	3.68	Limo argilloso
2.25	0.79	0.027	0.10	3.42	Limo argilloso
2.30	0.79	0.027	0.10	3.42	Limo argilloso
2.35	0.76	0.030	0.10	3.95	Limo argilloso
2.40	0.83	0.030	0.10	3.61	Limo argilloso
2.45	0.86	0.023	0.17	2.67	Limo
2.50	0.83	0.026	0.12	3.13	Limo argilloso
2.55	0.89	0.029	0.12	3.26	Limo argilloso
2.60	0.95	0.020	0.11	2.11	Limo sabbioso
2.65	1.05	0.036	0.11	3.43	Limo argilloso
2.70	1.08	0.039	0.12	3.61	Limo argilloso
2.75	1.14	0.043	0.12	3.77	Limo argilloso
2.80	1.02	0.040	0.14	3.92	Limo argilloso
2.85	1.08	0.044	0.14	4.07	Argilla
2.90	1.11	0.050	0.14	4.50	Argilla
2.95	1.17	0.053	0.14	4.53	Argilla
3.00	1.11	0.056	0.14	5.05	Argilla
3.05	1.21	0.058	0.22	4.79	Argilla
3.10	1.33	0.064	0.23	4.81	Argilla
3.15	1.24	0.067	0.24	5.40	Argilla
3.20	1.33	0.073	0.23	5.49	Argilla
3.25	1.33	0.065	0.23	4.89	Argilla
3.30	1.21	0.061	0.23	5.04	Argilla
3.35	1.08	0.058	0.23	5.37	Argilla
3.40	1.05	0.059	0.24	5.62	Argilla
3.45	1.05	0.062	0.23	5.90	Argilla
3.50	1.02	0.059	0.23	5.78	Argilla
3.55	1.08	0.041	0.24	3.80	Limo argilloso
3.60	1.08	0.066	0.24	6.11	Argilla
3.65	0.98	0.067	0.23	6.84	Argilla
3.70	1.27	0.068	0.24	5.35	Argilla
3.75	1.33	0.071	0.24	5.34	Argilla
3.80	1.37	0.069	0.24	5.04	Argilla
3.85	1.33	0.067	0.25	5.04	Argilla
3.90	1.33	0.068	0.24	5.11	Argilla
3.95	1.27	0.066	0.24	5.20	Argilla
4.00	1.27	0.065	0.24	5.12	Argilla
4.05	1.24	0.061	0.28	4.92	Argilla
4.10	1.08	0.052	0.32	4.81	Argilla
4.15	0.92	0.042	0.37	4.57	Argilla
4.20	0.86	0.033	0.38	3.84	Limo argilloso
4.25	0.83	0.033	0.38	3.98	Limo argilloso
4.30	0.98	0.031	0.42	3.16	Limo argilloso
4.35	0.95	0.033	0.47	3.47	Limo argilloso
4.40	0.89	0.035	0.49	3.93	Limo argilloso
4.45	0.98	0.042	0.50	4.29	Argilla
4.50	1.17	0.050	0.50	4.27	Argilla
4.55	1.21	0.057	0.50	4.71	Argilla
4.60	1.14	0.059	0.50	5.18	Argilla
4.65	1.17	0.070	0.52	5.98	Argilla
4.70	1.17	0.075	0.51	6.41	Argilla
4.75	1.40	0.081	0.53	5.79	Argilla
4.80	1.49	0.089	0.53	5.97	Argilla
4.85	1.71	0.096	0.55	5.61	Argilla
4.90	1.78	0.094	0.57	5.28	Argilla
4.95	1.68	0.094	0.61	5.60	Argilla
5.00	1.59	0.090	0.62	5.66	Argilla
5.05	1.49	0.085	0.64	5.70	Argilla
5.10	1.30	0.077	0.70	5.92	Argilla
5.15	1.17	0.068	0.70	5.81	Argilla
5.20	1.02	0.056	0.74	5.49	Argilla
5.25	0.92	0.047	0.75	5.11	Argilla
5.30	0.89	0.043	0.76	4.83	Argilla
5.35	0.89	0.043	0.76	4.83	Argilla
5.40	0.95	0.048	0.78	5.05	Argilla
5.45	1.02	0.054	0.78	5.29	Argilla
5.50	1.21	0.070	0.78	5.79	Argilla
5.55	1.33	0.079	0.79	5.94	Argilla
5.60	1.33	0.078	0.79	5.86	Argilla
5.65	1.30	0.078	0.79	6.00	Argilla
5.70	1.37	0.081	0.79	5.91	Argilla
5.75	1.37	0.081	0.79	5.91	Argilla
5.80	1.33	0.078	0.85	5.86	Argilla
5.85	1.33	0.075	0.86	5.64	Argilla
5.90	1.30	0.065	0.86	5.00	Argilla
5.95	1.24	0.064	0.86	5.16	Argilla
6.00	1.24	0.066	0.87	5.33	Argilla
6.05	1.27	0.064	0.89	5.04	Argilla
6.10	1.27	0.058	0.94	4.57	Argilla
6.15	1.21	0.053	1.00	4.38	Argilla
6.20	1.21	0.055	1.01	4.55	Argilla
6.25	1.21	0.057	1.02	4.71	Argilla
6.30	1.14	0.051	1.03	4.47	Argilla
6.35	1.02	0.046	1.08	4.41	Argilla
6.40	0.89	0.041	1.10	4.61	Argilla
6.45	0.83	0.038	1.12	4.58	Argilla
6.50	0.79	0.033	1.12	4.18	Argilla
6.55	0.76	0.031	1.11	4.08	Argilla
6.60	0.76	0.034	1.12	4.47	Argilla
6.65	0.79	0.034	1.12	4.30	Argilla
6.70	0.76	0.035	1.13	4.61	Argilla
6.75	0.76	0.034	1.13	4.47	Argilla
6.80	0.76	0.037	1.38	4.87	Argilla
6.85	0.79	0.038	1.38	4.81	Argilla
6.90	0.79	0.040	1.39	5.06	Argilla
6.95	0.79	0.037	1.41	4.68	Argilla
7.00	0.76	0.034	1.44	4.47	Argilla

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7.05	0.73	0.034	1.22	4.66	Argilla
7.10	0.76	0.034	1.19	4.47	Argilla
7.15	0.76	0.037	1.11	4.87	Argilla
7.20	0.79	0.039	1.10	4.94	Argilla
7.25	0.83	0.038	1.08	4.58	Argilla
7.30	0.86	0.037	1.08	4.30	Argilla
7.35	0.89	0.038	1.08	4.27	Argilla
7.40	0.89	0.042	1.09	4.72	Argilla
7.45	0.83	0.040	1.09	4.82	Argilla
7.50	0.79	0.036	1.07	4.56	Argilla
7.55	0.70	0.028	1.08	4.00	Argilla
7.60	0.67	0.024	1.09	3.58	Limo argilloso
7.65	0.70	0.024	1.07	3.43	Limo argilloso
7.70	0.63	0.010	1.09	1.59	Sabbia
7.75	0.63	0.010	1.09	1.59	Sabbia
7.80	0.63	0.010	1.07	1.59	Sabbia
7.85	0.63	0.010	1.08	1.59	Sabbia
7.90	0.60	0.011	1.07	1.83	Limo sabbioso
7.95	0.63	0.012	1.08	1.90	Limo sabbioso
8.00	1.11	0.018	1.08	1.62	Sabbia
8.05	1.17	0.014	1.08	1.20	Sabbia
8.10	1.27	0.013	1.08	1.02	Sabbia
8.15	1.08	0.035	1.07	3.24	Limo argilloso
8.20	1.65	0.028	1.08	1.70	Sabbia
8.25	4.32	0.039	1.07	0.90	Sabbia
8.30	4.86	0.054	1.07	1.11	Sabbia
8.35	4.92	0.058	1.07	1.18	Sabbia
8.40	4.98	0.050	1.07	1.00	Sabbia
8.45	4.89	0.058	1.06	1.19	Sabbia
8.50	4.29	0.070	1.07	1.63	Sabbia
8.55	2.89	0.064	1.06	2.21	Limo sabbioso
8.60	1.87	0.037	1.07	1.98	Limo sabbioso
8.65	1.21	0.037	1.07	3.06	Limo argilloso
8.70	0.95	0.018	1.06	1.89	Limo sabbioso
8.75	0.95	0.017	1.06	1.79	Limo sabbioso
8.80	0.76	0.017	1.07	2.24	Limo sabbioso
8.85	0.76	0.020	1.07	2.63	Limo
8.90	0.76	0.022	1.07	2.89	Limo
8.95	0.73	0.023	1.06	3.15	Limo argilloso
9.00	0.73	0.022	1.07	3.01	Limo argilloso
9.05	0.73	0.018	1.06	2.47	Limo
9.10	0.70	0.017	1.07	2.43	Limo
9.15	0.70	0.014	1.06	2.00	Limo sabbioso
9.20	0.67	0.012	1.06	1.79	Limo sabbioso
9.25	0.67	0.012	1.07	1.79	Limo sabbioso
9.30	0.67	0.012	1.07	1.79	Limo sabbioso
9.35	0.70	0.012	1.06	1.71	Sabbia
9.40	0.70	0.013	1.06	1.86	Limo sabbioso
9.45	0.73	0.013	1.06	1.78	Limo sabbioso
9.50	0.73	0.015	1.07	2.05	Limo sabbioso
9.55	0.76	0.018	1.06	2.37	Limo
9.60	0.83	0.021	1.07	2.53	Limo
9.65	0.83	0.024	1.06	2.89	Limo
9.70	0.86	0.026	1.06	3.02	Limo argilloso
9.75	0.92	0.027	1.06	2.93	Limo
9.80	0.92	0.028	1.06	3.04	Limo argilloso
9.85	0.95	0.030	1.06	3.16	Limo argilloso
9.90	0.92	0.028	1.06	3.04	Limo argilloso
9.95	0.92	0.028	1.06	3.04	Limo argilloso
10.00	0.88	0.029	1.06	2.96	Limo
10.05	0.98	0.035	1.06	3.57	Limo argilloso
10.10	1.08	0.037	1.07	3.43	Limo argilloso
10.15	1.08	0.042	1.05	3.89	Limo argilloso
10.20	1.08	0.040	1.06	3.70	Limo argilloso
10.25	1.05	0.038	1.05	3.62	Limo argilloso
10.30	0.98	0.032	1.05	3.27	Limo argilloso
10.35	0.99	0.031	1.03	3.16	Limo argilloso
10.40	0.95	0.032	1.03	3.37	Limo argilloso
10.45	0.98	0.034	1.03	3.47	Limo argilloso
10.50	1.02	0.037	1.03	3.63	Limo argilloso
10.55	0.98	0.038	1.03	3.88	Limo argilloso
10.60	1.02	0.037	1.02	3.63	Limo argilloso
10.65	1.02	0.034	1.03	3.33	Limo argilloso
10.70	1.05	0.035	1.03	3.33	Limo argilloso
10.75	1.08	0.034	1.03	3.15	Limo argilloso
10.80	1.02	0.033	1.03	3.24	Limo argilloso
10.85	1.02	0.031	1.03	3.04	Limo argilloso
10.90	0.98	0.028	1.02	2.80	Limo
10.95	0.95	0.027	1.03	2.84	Limo
11.00	0.95	0.027	1.03	2.84	Limo
11.05	0.95	0.024	1.02	2.53	Limo
11.10	0.92	0.023	1.02	2.50	Limo
11.15	0.95	0.026	1.02	2.74	Limo
11.20	1.05	0.038	1.02	3.62	Limo argilloso
11.25	1.21	0.051	1.02	4.21	Argilla
11.30	1.27	0.060	1.02	4.72	Argilla
11.35	1.33	0.063	1.02	4.74	Argilla
11.40	1.37	0.066	0.96	4.82	Argilla
11.45	1.40	0.064	0.95	4.57	Argilla
11.50	1.40	0.064	0.95	4.57	Argilla
11.55	1.37	0.063	0.95	4.60	Argilla
11.60	1.33	0.062	0.95	4.66	Argilla
11.65	1.30	0.059	0.95	4.54	Argilla
11.70	1.24	0.059	0.89	4.76	Argilla
11.75	1.30	0.058	0.90	4.46	Argilla
11.80	1.21	0.052	0.90	4.30	Argilla
11.85	1.05	0.038	0.90	3.62	Limo argilloso
11.90	0.95	0.028	0.90	2.95	Limo
11.95	0.92	0.023	0.89	2.50	Limo
12.00	0.95	0.025	0.89	2.63	Limo
12.05	0.98	0.027	0.89	2.76	Limo
12.10	1.05	0.032	0.89	3.05	Limo argilloso
12.15	1.11	0.040	0.88	3.60	Limo argilloso
12.20	1.11	0.042	0.89	3.78	Limo argilloso
12.25	1.11	0.042	0.89	3.78	Limo argilloso
12.30	1.11	0.044	0.89	3.96	Limo argilloso
12.35	1.11	0.044	0.90	3.96	Limo argilloso
12.40	1.11	0.045	0.90	4.05	Argilla
12.45	1.11	0.046	0.90	4.14	Argilla
12.50	1.11	0.048	0.92	4.32	Argilla
12.55	1.11	0.052	0.91	4.66	Argilla
12.60	1.14	0.052	0.92	4.56	Argilla
12.65	1.21	0.052	0.91	4.30	Argilla
12.70	1.24	0.056	0.91	4.52	Argilla
12.75	1.27	0.059	0.91	4.65	Argilla
12.80	1.27	0.059	0.90	4.65	Argilla
12.85	1.27	0.058	0.90	4.57	Argilla
12.90	1.24	0.055	0.88	4.44	Argilla
12.95	1.21	0.050	0.87	4.13	Argilla
13.00	1.27	0.051	0.88	4.02	Argilla
13.05	1.33	0.051	0.88	3.83	Limo argilloso
13.10	1.40	0.055	0.88	3.93	Limo argilloso
13.15	1.40	0.051	0.87	3.64	Limo argilloso
13.20	1.37	0.047	0.87	3.43	Limo argilloso
13.25	1.27	0.047	0.86	3.70	Limo argilloso
13.30	1.27	0.049	0.81	3.86	Limo argilloso
13.35	1.27	0.048	0.78	3.78	Limo argilloso
13.40	1.21	0.047	0.76	3.88	Limo argilloso
13.45	1.27	0.048	0.74	3.78	Limo argilloso
13.50	1.21	0.046	0.75	3.80	Limo argilloso
13.55	1.11	0.044	0.76	3.96	Limo argilloso
13.60	1.08	0.031	0.78	2.87	Limo
13.65	1.05	0.030	0.78	2.86	Limo
13.70	0.92	0.028	0.78	3.04	Limo argilloso
13.75	1.05	0.024	0.80	2.29	Limo sabbioso
13.80	1.05	0.027	0.79	2.57	Limo
13.85	1.17	0.030	0.79	2.56	Limo
13.90	1.08	0.031	0.79	2.87	Limo
13.95	1.02	0.034	0.79	3.33	Limo argilloso
14.00	1.21	0.037	0.79	3.06	Limo argilloso
14.05	1.40	0.055	0.79	3.93	Limo argilloso
14.10	1.56	0.062	0.80	3.97	Limo argilloso
14.15	1.56	0.058	0.80	3.72	Limo argilloso
14.20	1.27	0.057	0.79	4.49	Argilla
14.25	1.21	0.051	0.80	4.21	Argilla
14.30	1.24	0.051	0.79	4.11	Argilla
14.35	1.21	0.050	0.79	4.13	Argilla
14.40	1.24	0.048	0.83	3.87	Limo argilloso
14.45	1.21	0.049	0.84	4.05	Argilla
14.50	1.24	0.054	0.84	4.35	Argilla
14.55	1.30	0.054	0.84	4.15	Argilla
14.60	1.27	0.054	0.85	4.25	Argilla
14.65	1.30	0.049	0.85	3.77	Limo argilloso
14.70	1.30	0.049	0.86	3.77	Limo argilloso
14.75	1.40	0.053	0.90	3.79	Limo argilloso
14.80	1.40	0.056	0.90	4.00	Argilla
14.85	1.37	0.053	0.94	3.87	Limo argilloso
14.90	1.37	0.049	1.01	3.58	Limo argilloso
14.95	1.27	0.040	1.02	3.15	Limo argilloso
15.00	1.27	0.035	1.03	2.75	Limo
15.05	1.27	0.035	1.02	2.76	Limo
15.10	1.27	0.039	1.02	3.07	Limo argilloso
15.15	1.33	0.045	1.03	3.38	Limo argilloso
15.20	1.37	0.048	1.05	3.50	Limo argilloso

15.25	1.37	0.048	1.06	3.50	Limo argilloso
15.30	1.43	0.050	1.06	3.50	Limo argilloso
15.35	1.46	0.055	1.07	3.77	Limo argilloso
15.40	1.52	0.058	1.08	3.82	Limo argilloso
15.45	1.56	0.059	1.12	3.78	Limo argilloso
15.50	1.52	0.054	1.22	3.55	Limo argilloso
15.55	1.43	0.054	1.22	3.78	Limo argilloso
15.60	1.30	0.044	1.24	3.38	Limo argilloso
15.65	1.30	0.043	1.24	3.31	Limo argilloso
15.70	1.27	0.043	1.23	3.39	Limo argilloso
15.75	1.21	0.044	1.23	3.64	Limo argilloso
15.80	1.21	0.040	1.23	3.31	Limo argilloso
15.85	1.24	0.036	1.22	2.90	Limo
15.90	1.17	0.035	1.22	2.99	Limo
15.95	1.21	0.037	1.22	3.06	Limo argilloso
16.00	1.33	0.040	1.23	3.01	Limo argilloso
16.05	1.40	0.046	1.22	3.29	Limo argilloso
16.10	1.43	0.057	1.22	3.99	Limo argilloso
16.15	1.52	0.060	1.22	3.95	Limo argilloso
16.20	1.49	0.060	1.22	4.03	Argilla
16.25	1.40	0.059	1.22	4.14	Argilla
16.30	1.37	0.055	1.22	4.01	Argilla
16.35	1.33	0.053	1.22	3.98	Limo argilloso
16.40	1.30	0.050	1.22	3.85	Limo argilloso
16.45	1.30	0.046	1.21	3.54	Limo argilloso
16.50	1.24	0.043	1.22	3.47	Limo argilloso
16.55	1.24	0.046	1.22	3.71	Limo argilloso
16.60	1.24	0.048	1.30	3.87	Limo argilloso
16.65	1.27	0.045	1.33	3.54	Limo argilloso
16.70	1.37	0.043	1.35	3.14	Limo argilloso
16.75	1.40	0.040	1.34	2.86	Limo
16.80	1.30	0.046	1.35	3.54	Limo argilloso
16.85	1.37	0.048	1.36	3.50	Limo argilloso
16.90	1.33	0.045	1.36	3.38	Limo argilloso
16.95	1.33	0.040	1.30	3.01	Limo argilloso
17.00	1.27	0.036	1.36	2.83	Limo
17.05	1.24	0.037	1.36	2.98	Limo
17.10	1.24	0.039	1.37	3.15	Limo argilloso
17.15	1.27	0.043	1.38	3.39	Limo argilloso
17.20	1.27	0.044	1.38	3.46	Limo argilloso
17.25	1.30	0.043	1.37	3.31	Limo argilloso
17.30	1.27	0.041	1.42	3.23	Limo argilloso
17.35	1.30	0.040	1.45	3.08	Limo argilloso
17.40	1.27	0.038	1.50	2.99	Limo
17.45	1.30	0.036	1.50	2.77	Limo
17.50	1.30	0.035	1.50	2.69	Limo
17.55	1.24	0.034	1.51	2.74	Limo
17.60	1.21	0.031	1.52	2.56	Limo
17.65	1.14	0.028	1.53	2.46	Limo
17.70	1.17	0.029	1.54	2.48	Limo
17.75	1.14	0.031	1.54	2.72	Limo
17.80	1.21	0.036	1.53	2.98	Limo
17.85	1.30	0.040	1.53	3.08	Limo argilloso
17.90	1.27	0.038	1.52	2.99	Limo
17.95	1.27	0.035	1.52	2.76	Limo
18.00	1.21	0.033	1.52	2.73	Limo
18.05	1.21	0.030	1.52	2.48	Limo
18.10	1.21	0.027	1.52	2.23	Limo sabbioso
18.15	1.14	0.024	1.52	2.11	Limo sabbioso
18.20	1.11	0.021	1.52	1.89	Limo sabbioso
18.25	1.08	0.022	1.52	2.04	Limo sabbioso
18.30	1.11	0.024	1.52	2.16	Limo sabbioso
18.35	1.21	0.027	1.52	2.48	Limo
18.40	1.24	0.024	1.52	2.74	Limo
18.45	1.17	0.021	1.53	2.65	Limo
18.50	1.08	0.022	1.52	2.41	Limo
18.55	1.08	0.021	1.52	2.06	Limo sabbioso
18.60	1.05	0.025	1.54	2.38	Limo
18.65	1.33	0.041	1.61	3.08	Limo argilloso
18.70	1.78	0.043	1.62	2.42	Limo
18.75	3.44	0.043	1.61	1.76	Limo sabbioso
18.80	3.75	0.040	1.63	1.70	Sabbia
18.85	3.35	0.041	1.63	1.74	Sabbia
18.90	3.13	0.043	1.63	1.51	Sabbia
18.95	1.46	0.019	1.62	1.30	Sabbia
19.00	1.11	0.012	1.61	1.08	Sabbia
19.05	0.92	0.012	1.80	1.30	Sabbia
19.10	0.98	0.013	1.81	1.33	Sabbia
19.15	1.05	0.019	1.82	1.81	Limo sabbioso
19.20	1.17	0.026	1.83	2.22	Limo sabbioso
19.25	1.27	0.029	1.81	2.76	Limo
19.30	1.27	0.038	1.83	2.99	Limo
19.35	1.33	0.040	1.96	3.01	Limo argilloso
19.40	1.43	0.041	1.97	2.87	Limo
19.45	1.37	0.037	1.97	2.70	Limo
19.50	1.30	0.032	1.96	2.46	Limo
19.55	1.30	0.030	1.97	2.31	Limo
19.60	1.27	0.032	1.97	2.52	Limo
19.65	1.27	0.032	1.97	2.52	Limo
19.70	1.24	0.032	1.98	2.58	Limo
19.75	1.24	0.031	2.05	2.50	Limo
19.80	1.24	0.030	2.13	2.42	Limo
19.85	1.27	0.031	2.14	2.44	Limo
19.90	1.33	0.033	2.15	2.48	Limo
19.95	1.33	0.035	2.15	2.63	Limo
20.00	1.33	0.035	2.15	2.63	Limo

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SOIL TEST
AREZZO - Via CALAMANDREI 265/A
Tel. (0575) -33644
Fax. (0575) -23230

Committente:

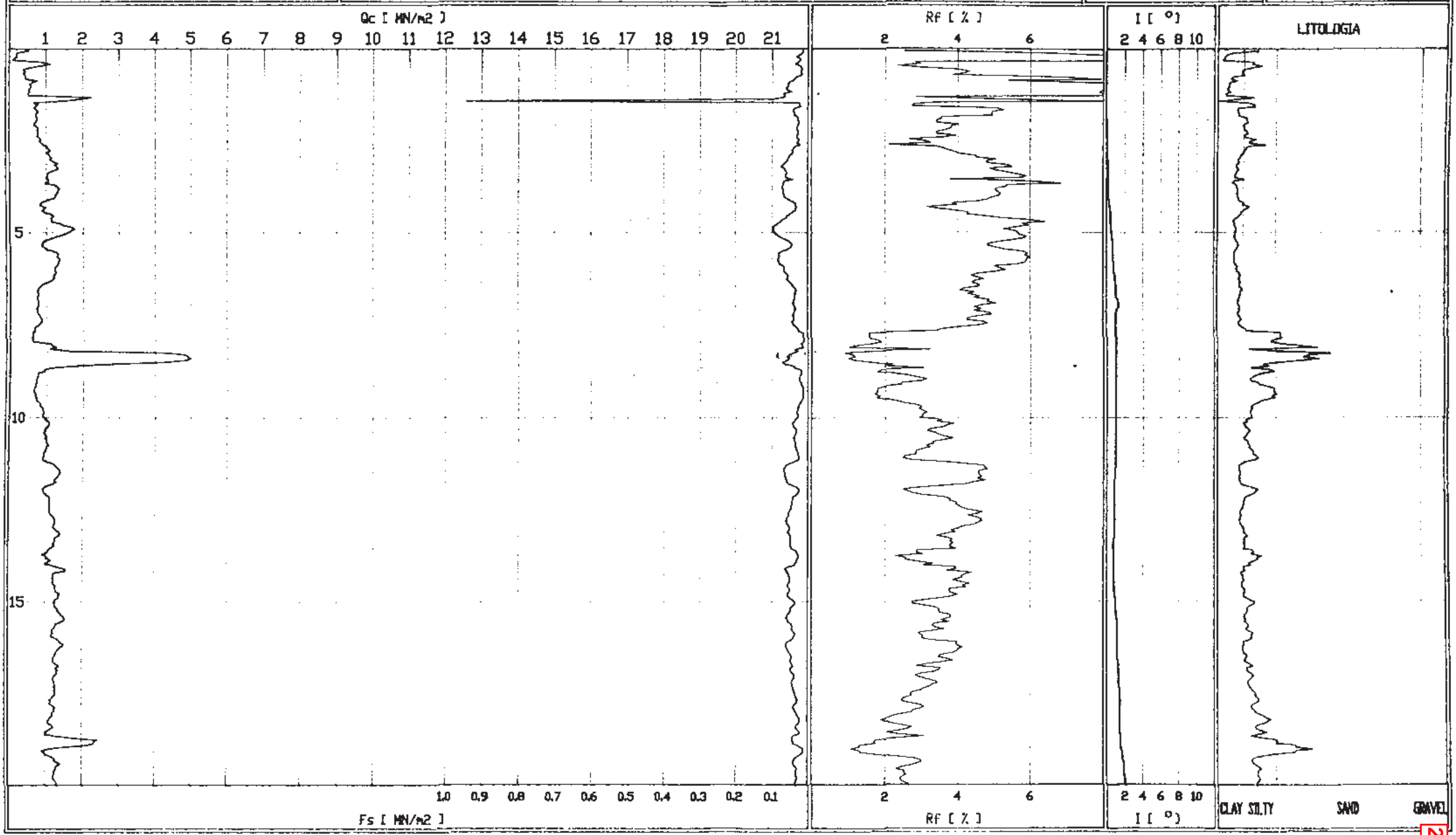
Localita' :

Dir. Lavori:

Data : 29-11-91

Prof : 20 (m)

CPT 1



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Committente:
Località :
Dir. Lavori:
Data :

CPTE: 2

Cu (MN/mq) Coesione non drenata — Falda (m) 2.000
Ga (KN/mc) Peso specifico — DR (%) Densità relativa
Fi (°) Angolo di attrito — Ed (MN/mq) Modulo edometrico
1 MN/mq = 10.2 Kg/cmq

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: CASTELLA.2

D	Ga	Cu	Dr	Fi	Ed
0.05	16.45	0.031			1.73
0.10	16.73	0.043			2.45
0.15	17.22	0.076			4.62
0.20	17.27	0.080			4.82
0.25	17.43	0.097			5.89
0.30	17.24	0.078			4.55
0.35	16.93	0.054			2.99
0.40	16.84	0.048			2.65
0.45	16.77	0.044			2.40
0.50	17.04	0.061			3.40
0.55	17.54	0.109			6.48
0.60	17.53	0.108			6.33
0.65	17.40	0.093			5.34
0.70	17.40	0.093			5.32
0.75	16.98	0.057			3.10
0.80	17.18	0.072			4.01
0.85	17.20	0.074			4.10
0.90	16.98	0.057			3.08
0.95	16.77	0.044			2.34
1.00	16.73	0.042			2.24
1.05	16.73	0.042			2.24
1.10	16.84	0.048			2.56
1.15	16.90	0.051			2.76
1.20	16.90	0.051			2.75
1.25	16.84	0.048			2.55
1.30	16.90		29	30	10.23
1.35	16.84	0.047			2.55
1.40	16.93	0.053			2.84
1.45	16.93	0.053			2.84
1.50	17.20	0.073			4.01
1.55	17.16	0.070			3.80
1.60	16.96	0.054			2.93
1.65	18.01	0.157			11.82
1.70	18.01	0.157			11.79
1.75	17.48	0.101			5.67
1.80	17.20	0.073			3.99
1.85	16.98	0.056			3.01
1.90	17.22	0.075			4.08
1.95	17.16	0.069			3.77
2.00	16.98	0.056			3.01
2.05	16.93	0.052			2.81
2.10	16.90	0.050			2.71
2.15	16.90	0.050			2.71
2.20	16.90	0.050			2.71
2.25	16.84	0.047			2.52
2.30	16.84	0.047			2.52
2.35	16.84	0.046			2.52
2.40	16.90	0.050			2.71
2.45	16.90	0.050			2.71
2.50	16.84	0.046			2.51
2.55	16.90	0.050			2.70
2.60	16.93	0.052			2.80
2.65	16.98	0.055			2.99
2.70	16.93	0.051			2.80
2.75	17.04	0.059			3.21
2.80	17.07	0.061			3.31
2.85	17.24	0.075			4.13
2.90	17.13	0.066			3.60
2.95	17.09	0.062			3.40
3.00	17.18	0.070			3.82
3.05	17.20	0.072			3.92
3.10	17.20	0.072			3.92
3.15	17.24	0.075			4.12
3.20	17.32	0.083			4.55
3.25	17.36	0.086			4.75
3.30	17.50	0.101			5.63
3.35	17.51	0.103			5.74
3.40	17.42	0.092			5.08
3.45	17.34	0.084			4.64
3.50	17.22	0.073			4.01
3.55	17.18	0.069			3.81
3.60	17.13	0.065			3.58
3.65	17.16	0.067			3.71
3.70	17.20	0.071			3.90
3.75	17.32	0.082			4.53
3.80	17.31	0.080			4.43
3.85	17.32	0.082			4.52
3.90	17.31	0.080			4.42
3.95	17.27	0.077			4.22
4.00	17.22	0.072			3.99
4.05	17.18	0.069			3.80
4.10	17.11	0.063			3.47
4.15	17.09	0.061			3.38
4.20	17.13	0.065			3.57
4.25	17.09	0.061			3.38
4.30	17.02	0.056			3.09
4.35	16.98	0.053			2.96
4.40	16.93	0.050			2.78
4.45	16.96	0.051			2.87
4.50	17.11	0.063			3.47
4.55	17.20	0.070			3.88
4.60	17.24	0.074			4.08
4.65	17.11	0.062			3.46
4.70	17.04	0.057			3.18
4.75	17.07	0.059			3.27
4.80	17.11	0.062			3.46
4.85	17.11	0.062			3.46
4.90	17.11	0.062			3.46
4.95	17.11	0.062			3.46
5.00	17.09	0.060			3.37
5.05	17.07	0.058			3.27
5.10	17.07	0.058			3.27
5.15	17.04	0.057			3.18
5.20	17.02	0.055			3.08
5.25	17.04	0.057			3.17
5.30	17.11	0.062			3.46
5.35	17.13	0.063			3.55
5.40	17.11	0.062			3.46
5.45	17.13	0.063			3.55
5.50	17.16	0.066			3.68
5.55	17.18	0.067			3.77
5.60	17.13	0.063			3.55
5.65	17.11	0.061			3.45
5.70	17.18	0.067			3.77
5.75	17.18	0.067			3.77
5.80	17.18	0.067			3.77
5.85	17.16	0.065			3.67
5.90	17.16	0.065			3.67
5.95	17.11	0.061			3.45
6.00	17.16	0.065			3.67
6.05	17.18	0.067			3.77
6.10	17.22	0.070			3.96
6.15	17.22	0.070			3.95
6.20	17.16	0.065			3.67
6.25	17.02	0.054			3.07
6.30	16.93	0.048			2.77
6.35	16.96	0.050			2.86
6.40	16.93	0.048			2.77
6.45	16.96	0.049			2.86
6.50	17.04	0.055			3.17
6.55	17.04	0.055			3.17
6.60	17.02	0.053			3.07
6.65	17.02	0.053			3.07
6.70	16.96	0.049			2.86
6.75	16.98	0.051			2.95
6.80	16.90	0.046			2.67
6.85	16.84	0.042			2.49
6.90	16.80	0.040			2.37
6.95	16.80	0.040			2.37
7.00	16.80	0.040			2.37

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7.05	16.80	0.040			2.37
7.10	16.84	0.042			2.49
7.15	16.90	0.045			2.67
7.20	16.96	0.049			2.85
7.25	16.96	0.049			2.85
7.30	16.98	0.050			2.95
7.35	16.96	0.049			2.85
7.40	16.96	0.049			2.85
7.45	16.98	0.050			2.95
7.50	16.96	0.048			2.85
7.55	16.96	0.048			2.85
7.60	16.93	0.047			2.76
7.65	16.93	0.046			2.76
7.70	16.84	0.041			2.49
7.75	16.84	0.041			2.49
7.80	16.80		10	30	9.98
7.85	16.70		10	30	2.11
7.90	16.61		10	30	1.90
7.95	16.61		10	30	1.90
8.00	16.70		10	30	2.11
8.05	16.80		10	30	2.38
8.10	17.04		9	31	3.16
8.15	16.84		0	30	10.07
8.20	17.02		8	31	3.07
8.25	16.93		4	30	2.76
8.30	16.77		10	30	2.29
8.35	16.70		10	30	2.11
8.40	16.61		10	30	1.90
8.45	16.61		10	30	1.90
8.50	16.61		10	30	1.90
8.55	17.22		16	31	3.93
8.60	17.50		27	31	5.47
8.65	17.20		15	31	3.84
8.70	16.80		10	30	2.38
8.75	16.84		10	30	2.50
8.80	16.93		3	30	2.76
8.85	16.87		0	30	2.58
8.90	16.93		3	30	10.30
8.95	16.93		3	30	10.30
9.00	16.93	0.045			2.76
9.05	16.93	0.045			2.76
9.10	16.93	0.045			2.76
9.15	16.90	0.043			2.67
9.20	16.87		10	30	10.15
9.25	16.84		10	30	2.50
9.30	16.77		10	30	2.29
9.35	16.70		10	30	2.11
9.40	16.80		10	30	2.38
9.45	16.80		10	30	9.98
9.50	16.77		10	30	2.29
9.55	16.77		10	30	2.29
9.60	16.80		10	30	2.38
9.65	16.77		10	30	2.29
9.70	16.77		10	30	2.29
9.75	16.70		10	30	9.75
9.80	16.73		10	30	9.82
9.85	16.90		0	30	10.23
9.90	16.93		1	30	10.30
9.95	16.93		1	30	10.30
10.00	16.93		1	30	10.30
10.05	16.93		1	30	10.30
10.10	16.96		2	30	10.38
10.15	16.96	0.046			2.85
10.20	16.98	0.047			2.94
10.25	17.02	0.050			3.06
10.30	17.04	0.051			3.15
10.35	17.02	0.050			3.06
10.40	17.02		4	31	10.55
10.45	16.98		3	30	10.45
10.50	16.98		3	30	10.45
10.55	16.93		0	30	10.30
10.60	16.93		0	30	10.30
10.65	16.93		0	30	10.30
10.70	16.90		10	30	2.68
10.75	16.90		10	30	10.23
10.80	16.93		0	30	2.76
10.85	16.90		10	30	2.68
10.90	16.87		10	30	10.15
10.95	16.96	0.045			2.85
11.00	17.02	0.049			3.06
11.05	17.07	0.052			3.24
11.10	17.09	0.054			3.33

11.15	17.13	0.058			3.52
11.20	17.11	0.056			3.43
11.25	17.16	0.060			3.64
11.30	17.22	0.065			3.92
11.35	17.20	0.063			3.83
11.40	17.20	0.063			3.82
11.45	17.20	0.063			3.82
11.50	17.20	0.063			3.82
11.55	17.20	0.063			3.82
11.60	17.20	0.063			3.82
11.65	17.13	0.057			3.52
11.70	17.07	0.052			3.24
11.75	17.02	0.048			3.06
11.80	17.02		2	31	10.55
11.85	16.96	0.044			2.86
11.90	17.02	0.048			3.06
11.95	17.07	0.052			3.24
12.00	17.09	0.053			3.33
12.05	17.09	0.053			3.33
12.10	17.04	0.050			3.15
12.15	17.02	0.048			3.06
12.20	17.02	0.048			3.06
12.25	17.04	0.049			3.15
12.30	17.07	0.051			3.24
12.35	17.13	0.056			3.52
12.40	17.16	0.059			3.64
12.45	17.16	0.059			3.64
12.50	17.20	0.062			3.82
12.55	17.22	0.064			3.91
12.60	17.29	0.070			4.22
12.65	17.27	0.068			4.13
12.70	17.27	0.068			4.13
12.75	17.29	0.069			4.22
12.80	17.32	0.073			4.41
12.85	17.36	0.076			4.60
12.90	17.38	0.079			4.72
12.95	17.40	0.080			4.82
13.00	17.38	0.078			4.72
13.05	17.36	0.076			4.60
13.10	17.32	0.073			4.41
13.15	17.34	0.074			4.50
13.20	17.34	0.074			4.50
13.25	17.32	0.072			4.41
13.30	17.29	0.069			4.22
13.35	17.22	0.063			3.91
13.40	17.20	0.061			3.82
13.45	17.16	0.058			3.64
13.50	17.11	0.053			3.42
13.55	17.09	0.052			3.33
13.60	17.07	0.050			3.24
13.65	17.04	0.048			3.15
13.70	17.11	0.053			3.42
13.75	17.16	0.057			3.63
13.80	17.16	0.057			3.63
13.85	17.13	0.055			3.51
13.90	17.20		8	31	11.18
13.95	17.22	0.062			3.91
14.00	17.29	0.068			4.22
14.05	17.45	0.084			5.09
14.10	17.46	0.086			5.19
14.15	17.42	0.081			4.90
14.20	17.31	0.070			4.31
14.25	17.24	0.064			4.00
14.30	17.22	0.062			3.91
14.35	17.20	0.060			3.82
14.40	17.20	0.060			3.82
14.45	17.18	0.058			3.73
14.50	17.16	0.057			3.63
14.55	17.22	0.062			3.91
14.60	17.27	0.066			4.12
14.65	17.34	0.073			4.49
14.70	17.40	0.078			4.81
14.75	17.32	0.071			4.40
14.80	17.32	0.071			4.40
14.85	17.29	0.067			4.22
14.90	17.31	0.069			4.31
14.95	17.29	0.067			4.22
15.00	17.22	0.061			3.91
15.05	17.27	0.065			4.12
15.10	17.29	0.067			4.21
15.15	17.31	0.069			4.31
15.20	17.34	0.072			4.49

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15.25	17.38	0.076			4.71
15.30	17.36	0.074			4.59
15.35	17.36	0.074			4.59
15.40	17.31	0.068			4.31
15.45	17.24	0.063			4.00
15.50	17.27	0.065			4.12
15.55	17.31	0.068			4.31
15.60	17.31	0.068			4.31
15.65	17.31	0.068			4.31
15.70	17.36	0.073			4.58
15.75	17.38	0.076			4.71
15.80	17.38	0.076			4.71
15.85	17.45	0.083			5.08
15.90	17.40	0.077			4.80
15.95	17.38	0.075			4.71
16.00	17.38	0.075			4.71
16.05	17.36	0.073			4.58
16.10	17.34	0.071			4.49
16.15	17.29	0.066			4.21
16.20	17.24	0.062			4.00
16.25	17.22	0.060			3.91
16.30	17.18	0.056			3.72
16.35	17.13	0.052			3.51
16.40	17.16	0.055			3.63
16.45	17.18	0.056			3.72
16.50	17.20	0.058			3.81
16.55	17.20	0.058			3.81
16.60	17.22	0.060			3.90
16.65	17.27	0.064			4.12
16.70	17.24	0.061			4.00
16.75	17.22	0.059			3.90
16.80	17.24	0.061			4.00
16.85	17.29	0.065			4.21
16.90	17.24	0.061			4.00
16.95	17.20	0.058			3.81
17.00	17.20	0.058			3.81
17.05	17.18	0.056			3.72
17.10	17.24	0.061			4.00
17.15	17.22	0.059			3.90
17.20	17.20	0.057			3.81
17.25	17.22	0.059			3.90
17.30	17.27	0.063			4.12
17.35	17.27	0.063			4.12
17.40	17.22	0.059			3.90
17.45	17.22	0.059			3.90
17.50	17.16	0.054			3.63
17.55	17.13	0.051			3.51
17.60	17.20		5	31	11.18
17.65	17.22	0.059			3.90
17.70	17.24	0.060			3.99
17.75	17.24	0.060			3.99
17.80	17.22	0.058			3.90
17.85	17.22		5	31	11.25
17.90	17.18		3	31	11.10
17.95	17.13		1	31	3.51
18.00	17.13		1	31	3.51
18.05	17.16		2	31	3.63
18.10	17.20		4	31	3.81
18.15	17.09		10	31	3.34
18.20	17.07		10	31	3.25
18.25	17.07		10	31	3.25
18.30	17.13		1	31	3.51
18.35	17.11		0	31	3.42
18.40	17.16		2	31	11.03
18.45	17.20		4	31	11.18
18.50	17.22	0.058			3.90
18.55	17.24	0.059			3.99
18.60	17.24	0.059			3.99
18.65	17.20	0.056			3.81
18.70	17.13		1	31	10.93
18.75	17.11		10	31	3.43
18.80	17.13		1	31	10.93
18.85	17.16		2	31	3.63
18.90	17.11		10	31	3.43
18.95	17.20		3	31	3.81
19.00	17.22		4	31	3.90
19.05	17.18		2	31	3.72
19.10	17.24		5	31	3.99
19.15	17.16		2	31	3.63
19.20	17.18		2	31	11.10
19.25	17.24	0.059			3.99
19.30	17.31	0.064			4.30
19.35	17.32	0.066			4.39
19.40	17.36	0.070			4.57
19.45	17.31	0.064			4.30
19.50	17.24	0.058			3.99
19.55	17.22	0.057			3.90
19.60	17.24	0.058			3.99
19.65	17.24	0.058			3.99
19.70	17.29	0.062			4.21
19.75	17.31	0.064			4.30
19.80	17.32	0.066			4.39
19.85	17.36	0.069			4.57
19.90	17.38	0.071			4.70
19.95	17.32	0.066			4.39
20.00	17.32	0.066			4.39

SOIL TEST
AREZZO Via CALAMANDREI 265/A - Tel. (0575)-33644 Fax. (0575)-23230

Committente:
Località :
Dir. Lavori:
Data :

CPT : 2

Qc (MN/mq) Resistenza alla punta
Fs (MN/mq) Attrito laterale locale
I (°) Inclinazione
Rf (%) Rapporto di attrito

1 MN/mq = 10.2 Kg/cmq

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: CASTELLA.2

D	Qc	Fs	I	Rf	Tipo di Terreno
0.05	0.52	0.012	0.00	2.31	Limo
0.10	0.73	0.027	0.01	3.70	Limo argilloso
0.15	1.30	0.042	0.01	3.23	Limo argilloso
0.20	1.37	0.051	0.01	3.72	Limo argilloso
0.25	1.65	0.054	0.01	3.27	Limo argilloso
0.30	1.33	0.046	0.01	3.46	Limo argilloso
0.35	0.92	0.035	0.01	3.80	Limo argilloso
0.40	0.83	0.024	0.00	2.89	Limo
0.45	0.76	0.026	0.01	3.42	Limo argilloso
0.50	1.05	0.050	0.01	4.76	Argilla
0.55	1.87	0.046	0.01	2.46	Limo
0.60	1.84	0.046	0.00	2.50	Limo
0.65	1.59	0.062	0.00	3.90	Limo argilloso
0.70	1.59	0.067	0.00	4.21	Argilla
0.75	0.98	0.063	0.00	6.43	Argilla
0.80	1.24	0.034	0.00	2.74	Limo
0.85	1.27	0.034	0.01	2.68	Limo
0.90	0.98	0.026	0.00	2.65	Limo
0.95	0.76	0.021	0.01	2.76	Limo
1.00	0.73	0.018	0.01	2.47	Limo
1.05	0.73	0.019	0.01	2.60	Limo
1.10	0.83	0.024	0.00	2.89	Limo
1.15	0.89	0.029	0.00	3.26	Limo argilloso
1.20	0.89	0.025	0.00	2.81	Limo
1.25	0.83	0.022	0.01	2.65	Limo
1.30	0.89	0.020	0.01	2.25	Limo sabbioso
1.35	0.83	0.022	0.01	2.65	Limo
1.40	0.92	0.026	0.00	2.83	Limo
1.45	0.92	0.030	0.01	3.26	Limo argilloso
1.50	1.27	0.036	0.00	2.83	Limo
1.55	1.21	0.050	0.01	4.13	Argilla
1.60	0.95	0.050	0.03	5.26	Argilla
1.65	3.17	0.096	0.02	3.03	Limo argilloso
1.70	3.17	0.116	0.02	3.66	Limo argilloso
1.75	1.75	0.075	0.00	4.29	Argilla
1.80	1.27	0.081	0.00	6.38	Argilla
1.85	0.98	0.069	0.00	7.04	Argilla
1.90	1.30	0.067	0.00	5.15	Argilla
1.95	1.21	0.060	0.01	4.96	Argilla
2.00	0.98	0.039	0.00	3.98	Limo argilloso
2.05	0.92	0.032	0.01	3.48	Limo argilloso
2.10	0.89	0.033	0.00	3.71	Limo argilloso
2.15	0.85	0.033	0.00	3.71	Limo argilloso
2.20	0.89	0.040	0.00	4.49	Argilla
2.25	0.83	0.038	0.00	4.58	Argilla
2.30	0.85	0.039	0.00	4.70	Argilla
2.35	0.83	0.033	0.00	3.98	Limo argilloso
2.40	0.89	0.040	0.00	4.49	Argilla
2.45	0.89	0.039	0.00	4.38	Argilla
2.50	0.83	0.038	0.00	4.58	Argilla
2.55	0.89	0.032	0.00	3.60	Limo argilloso
2.60	0.95	0.034	0.00	3.70	Limo argilloso
2.65	0.98	0.043	0.00	4.39	Argilla
2.70	0.92	0.037	0.01	4.02	Argilla
2.75	1.05	0.038	0.00	3.62	Limo argilloso
2.80	1.08	0.048	0.00	4.44	Argilla
2.85	1.33	0.050	0.01	3.76	Limo argilloso
2.90	1.17	0.050	0.01	4.27	Argilla
2.95	1.11	0.045	0.01	4.01	Argilla
3.00	1.24	0.050	0.01	4.03	Argilla
3.05	1.27	0.055	0.01	4.33	Argilla
3.10	1.27	0.058	0.02	4.57	Argilla
3.15	1.33	0.066	0.02	4.96	Argilla
3.20	1.46	0.073	0.02	5.00	Argilla
3.25	1.52	0.086	0.02	5.66	Argilla
3.30	1.78	0.097	0.02	5.45	Argilla
3.35	1.81	0.101	0.02	5.58	Argilla
3.40	1.62	0.095	0.03	5.86	Argilla
3.45	1.49	0.078	0.03	5.23	Argilla
3.50	1.30	0.067	0.03	5.15	Argilla
3.55	1.24	0.062	0.03	5.00	Argilla
3.60	1.17	0.055	0.03	4.70	Argilla
3.65	1.21	0.053	0.03	4.38	Argilla
3.70	1.27	0.060	0.04	4.72	Argilla
3.75	1.46	0.064	0.04	4.38	Argilla
3.80	1.43	0.061	0.05	4.27	Argilla
3.85	1.46	0.059	0.05	4.04	Argilla
3.90	1.43	0.062	0.04	4.34	Argilla
3.95	1.37	0.059	0.04	4.31	Argilla
4.00	1.30	0.057	0.05	4.38	Argilla
4.05	1.24	0.051	0.04	4.11	Argilla
4.10	1.14	0.040	0.04	3.51	Limo argilloso
4.15	1.11	0.037	0.05	3.33	Limo argilloso
4.20	1.17	0.039	0.05	3.33	Limo argilloso
4.25	1.11	0.039	0.04	3.51	Limo argilloso
4.30	1.02	0.035	0.04	3.43	Limo argilloso
4.35	0.98	0.030	0.05	3.06	Limo argilloso
4.40	0.92	0.030	0.05	3.26	Limo argilloso
4.45	0.95	0.035	0.05	3.68	Limo argilloso
4.50	1.14	0.051	0.05	4.47	Argilla
4.55	1.27	0.069	0.05	5.43	Argilla
4.60	1.33	0.076	0.05	5.71	Argilla
4.65	1.14	0.070	0.06	6.14	Argilla
4.70	1.05	0.064	0.07	6.10	Argilla
4.75	1.08	0.061	0.10	5.65	Argilla
4.80	1.14	0.063	0.10	5.53	Argilla
4.85	1.14	0.060	0.10	5.26	Argilla
4.90	1.14	0.059	0.10	5.18	Argilla
4.95	1.14	0.057	0.10	5.00	Argilla
5.00	1.11	0.055	0.10	4.95	Argilla
5.05	1.08	0.055	0.10	5.09	Argilla
5.10	1.08	0.056	0.10	5.19	Argilla
5.15	1.05	0.047	0.10	4.48	Argilla
5.20	1.02	0.042	0.16	4.12	Argilla
5.25	1.05	0.040	0.17	3.81	Limo argilloso
5.30	1.14	0.043	0.17	3.77	Limo argilloso
5.35	1.17	0.045	0.19	3.85	Limo argilloso
5.40	1.14	0.051	0.19	4.47	Argilla
5.45	1.17	0.054	0.21	4.62	Argilla
5.50	1.21	0.053	0.23	4.38	Argilla
5.55	1.24	0.053	0.23	4.27	Argilla
5.60	1.17	0.052	0.23	4.44	Argilla
5.65	1.14	0.052	0.23	4.56	Argilla
5.70	1.24	0.049	0.25	3.95	Limo argilloso
5.75	1.24	0.050	0.25	4.03	Argilla
5.80	1.24	0.046	0.28	3.71	Limo argilloso
5.85	1.21	0.046	0.29	3.80	Limo argilloso
5.90	1.21	0.043	0.28	3.55	Limo argilloso
5.95	1.14	0.041	0.29	3.60	Limo argilloso
6.00	1.21	0.041	0.29	3.39	Limo argilloso
6.05	1.24	0.043	0.30	3.47	Limo argilloso
6.10	1.30	0.047	0.30	3.62	Limo argilloso
6.15	1.30	0.048	0.33	3.69	Limo argilloso
6.20	1.21	0.048	0.34	3.97	Limo argilloso
6.25	1.02	0.042	0.36	4.12	Argilla
6.30	0.92	0.035	0.36	3.80	Limo argilloso
6.35	0.95	0.034	0.36	3.58	Limo argilloso
6.40	0.92	0.036	0.37	3.91	Limo argilloso
6.45	0.95	0.044	0.37	4.63	Argilla
6.50	1.05	0.051	0.38	4.86	Argilla
6.55	1.05	0.051	0.39	4.85	Argilla
6.60	1.02	0.048	0.43	4.71	Argilla
6.65	1.02	0.041	0.43	4.06	Argilla
6.70	0.95	0.043	0.43	4.53	Argilla
6.75	0.98	0.038	0.47	3.88	Limo argilloso
6.80	0.90	0.033	0.46	3.71	Limo argilloso
6.85	0.83	0.027	0.46	3.25	Limo argilloso
6.90	0.79	0.024	0.47	3.04	Limo argilloso
6.95	0.79	0.022	0.47	2.79	Limo
7.00	0.79	0.020	0.47	2.53	Limo

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7.10	0.83	0.037	0.48	3.55	Limo argilloso
7.15	0.89	0.033	0.48	3.71	Limo argilloso
7.20	0.95	0.036	0.49	3.79	Limo argilloso
7.25	0.95	0.039	0.56	4.11	Argilla
7.30	0.98	0.035	0.57	3.57	Limo argilloso
7.35	0.95	0.034	0.56	3.58	Limo argilloso
7.40	0.95	0.033	0.57	3.47	Limo argilloso
7.45	0.98	0.035	0.62	3.57	Limo argilloso
7.50	0.95	0.036	0.63	3.79	Limo argilloso
7.55	0.95	0.035	0.63	3.68	Limo argilloso
7.60	0.92	0.032	0.64	3.48	Limo argilloso
7.65	0.92	0.032	0.63	3.48	Limo argilloso
7.70	0.83	0.024	0.64	2.89	Limo
7.75	0.83	0.020	0.64	2.41	Limo
7.80	0.79	0.014	0.70	1.77	Limo sabbioso
7.85	0.70	0.009	0.71	1.29	Sabbia
7.90	0.63	0.007	0.70	1.11	Sabbia
7.95	0.63	0.007	0.71	1.11	Sabbia
8.00	0.70	0.011	0.71	1.57	Sabbia
8.05	0.79	0.010	0.71	1.27	Sabbia
8.10	1.05	0.012	0.72	1.14	Sabbia
8.15	0.83	0.016	0.79	1.93	Limo sabbioso
8.20	1.02	0.011	0.79	1.08	Sabbia
8.25	0.92	0.012	0.80	1.30	Sabbia
8.30	0.76	0.008	0.79	1.05	Sabbia
8.35	0.70	0.007	0.80	1.00	Sabbia
8.40	0.63	0.007	0.81	1.11	Sabbia
8.45	0.63	0.007	0.81	1.11	Sabbia
8.50	0.63	0.009	0.81	1.43	Sabbia
8.55	1.30	0.018	0.89	1.38	Sabbia
8.60	1.78	0.021	0.91	1.18	Sabbia
8.65	1.27	0.016	0.91	1.26	Sabbia
8.70	0.79	0.012	0.91	1.52	Sabbia
8.75	0.83	0.008	0.92	0.96	Sabbia
8.80	0.92	0.010	0.94	1.09	Sabbia
8.85	0.86	0.013	0.93	1.51	Sabbia
8.90	0.92	0.017	0.94	1.85	Limo sabbioso
8.95	0.92	0.021	0.94	2.28	Limo sabbioso
9.00	0.92	0.023	0.95	2.50	Limo
9.05	0.92	0.024	0.95	2.61	Limo
9.10	0.92	0.022	1.05	2.39	Limo
9.15	0.89	0.021	1.06	2.36	Limo
9.20	0.86	0.018	1.06	2.09	Limo sabbioso
9.25	0.83	0.013	1.09	1.57	Sabbia
9.30	0.76	0.010	1.16	1.32	Sabbia
9.35	0.70	0.011	1.16	1.57	Sabbia
9.40	0.79	0.013	1.16	1.65	Sabbia
9.45	0.79	0.014	1.16	1.77	Limo sabbioso
9.50	0.76	0.013	1.17	1.71	Sabbia
9.55	0.76	0.011	1.16	1.45	Sabbia
9.60	0.79	0.011	1.17	1.39	Sabbia
9.65	0.79	0.013	1.16	1.71	Sabbia
9.70	0.76	0.012	1.16	1.58	Sabbia
9.75	0.76	0.013	1.17	1.86	Limo sabbioso
9.80	0.73	0.016	1.17	2.19	Limo sabbioso
9.85	0.89	0.018	1.17	2.02	Limo sabbioso
9.90	0.92	0.021	1.17	2.28	Limo sabbioso
9.95	0.92	0.021	1.17	2.28	Limo sabbioso
10.00	0.92	0.020	1.17	2.17	Limo sabbioso
10.05	0.92	0.020	1.16	2.17	Limo sabbioso
10.10	0.95	0.020	1.18	2.11	Limo sabbioso
10.15	0.95	0.022	1.18	2.32	Limo
10.20	0.98	0.026	1.16	2.65	Limo
10.25	1.02	0.027	1.36	2.65	Limo
10.30	1.05	0.027	1.37	2.57	Limo
10.35	1.02	0.024	1.49	2.35	Limo
10.40	1.02	0.021	1.50	2.06	Limo sabbioso
10.45	0.98	0.019	1.50	1.94	Limo sabbioso
10.50	0.98	0.018	1.91	1.84	Limo sabbioso
10.55	0.92	0.016	1.50	1.96	Limo sabbioso
10.60	0.92	0.017	1.54	1.85	Limo sabbioso
10.65	0.92	0.018	1.54	1.96	Limo sabbioso
10.70	0.92	0.015	1.54	1.69	Sabbia
10.75	0.89	0.016	1.54	1.80	Limo sabbioso
10.80	0.92	0.014	1.54	1.50	Sabbia
10.85	0.89	0.013	1.55	1.46	Sabbia
10.90	0.86	0.016	1.55	1.86	Limo sabbioso
10.95	0.95	0.025	1.65	2.63	Limo
11.00	1.02	0.035	1.68	3.43	Limo argilloso
11.05	1.08	0.036	1.76	3.33	Limo argilloso
11.10	1.11	0.035	1.76	3.24	Limo argilloso
11.15	1.17	0.040	1.77	3.51	Limo argilloso
11.20	1.14	0.040	1.77	3.51	Limo argilloso
11.25	1.21	0.048	1.77	3.97	Limo argilloso
11.30	1.30	0.055	1.84	4.23	Argilla
11.35	1.27	0.058	1.83	4.57	Argilla
11.40	1.27	0.055	1.83	4.33	Argilla
11.45	1.27	0.058	1.83	4.57	Argilla
11.50	1.27	0.055	1.84	4.33	Argilla
11.55	1.27	0.055	1.84	4.33	Argilla
11.60	1.27	0.055	1.84	4.33	Argilla
11.65	1.17	0.052	1.84	4.44	Argilla
11.70	1.08	0.052	1.84	4.81	Argilla
11.75	1.02	0.029	1.85	2.84	Limo
11.80	1.02	0.023	1.85	2.25	Limo sabbioso
11.85	0.95	0.022	2.58	2.52	Limo
11.90	1.02	0.028	2.58	2.75	Limo
11.95	1.08	0.038	2.60	3.53	Limo argilloso
12.00	1.11	0.041	2.76	3.69	Limo argilloso
12.05	1.11	0.036	2.81	3.24	Limo argilloso
12.10	1.05	0.031	2.86	2.95	Limo
12.15	1.02	0.027	2.87	2.65	Limo
12.20	1.02	0.027	2.90	2.65	Limo
12.25	1.05	0.027	2.90	2.57	Limo
12.30	1.08	0.034	2.91	3.15	Limo argilloso
12.35	1.17	0.039	2.91	3.33	Limo argilloso
12.40	1.21	0.046	2.92	3.80	Limo argilloso
12.45	1.21	0.047	2.92	3.88	Limo argilloso
12.50	1.27	0.053	2.91	4.17	Argilla
12.55	1.30	0.065	2.92	5.00	Argilla
12.60	1.40	0.068	2.93	4.86	Argilla
12.65	1.37	0.068	2.92	4.99	Argilla
12.70	1.37	0.064	2.92	4.67	Argilla
12.75	1.40	0.062	2.93	4.43	Argilla
12.80	1.46	0.058	3.31	3.97	Limo argilloso
12.85	1.52	0.061	3.26	4.01	Argilla
12.90	1.56	0.064	3.26	4.10	Argilla
12.95	1.59	0.065	3.26	4.09	Argilla
13.00	1.56	0.064	3.26	4.10	Argilla
13.05	1.52	0.064	3.26	4.21	Argilla
13.10	1.46	0.064	3.35	4.38	Argilla
13.15	1.49	0.057	3.26	3.83	Limo argilloso
13.20	1.49	0.058	3.26	3.89	Limo argilloso
13.25	1.46	0.056	2.99	3.84	Limo argilloso
13.30	1.40	0.053	2.97	3.79	Limo argilloso
13.35	1.30	0.050	2.91	3.85	Limo argilloso
13.40	1.27	0.047	2.91	3.70	Limo argilloso
13.45	1.21	0.047	2.91	3.88	Limo argilloso
13.50	1.14	0.042	2.91	3.68	Limo argilloso
13.55	1.11	0.038	2.90	3.42	Limo argilloso
13.60	1.08	0.032	2.90	2.96	Limo
13.65	1.05	0.029	2.90	2.76	Limo
13.70	1.14	0.029	2.90	2.54	Limo
13.75	1.21	0.032	2.90	2.64	Limo
13.80	1.21	0.031	2.90	2.55	Limo
13.85	1.17	0.028	2.53	2.39	Limo
13.90	1.27	0.026	2.51	2.05	Limo sabbioso
13.95	1.30	0.030	2.52	2.31	Limo
14.00	1.40	0.039	2.50	2.79	Limo
14.05	1.68	0.054	2.50	3.21	Limo argilloso
14.10	1.71	0.064	2.50	3.74	Limo argilloso
14.15	1.62	0.060	2.49	3.70	Limo argilloso
14.20	1.43	0.061	2.47	4.27	Argilla
14.25	1.33	0.057	2.47	4.39	Argilla
14.30	1.30	0.055	2.46	4.23	Argilla
14.35	1.27	0.051	2.45	4.12	Argilla
14.40	1.27	0.048	2.44	3.78	Limo argilloso
14.45	1.24	0.047	2.43	3.79	Limo argilloso
14.50	1.21	0.051	2.39	4.21	Argilla
14.55	1.30	0.059	2.33	4.54	Argilla
14.60	1.37	0.063	2.31	4.60	Argilla
14.65	1.49	0.066	2.18	4.43	Argilla
14.70	1.59	0.066	2.18	4.15	Argilla
14.75	1.46	0.071	2.17	4.90	Argilla
14.80	1.46	0.060	2.17	4.11	Argilla
14.85	1.49	0.055	2.16	3.68	Limo argilloso
14.90	1.43	0.050	2.16	3.50	Limo argilloso
14.95	1.49	0.046	2.16	3.39	Limo argilloso
15.00	1.50	0.046	2.16	3.54	Limo argilloso
15.05	1.37	0.046	2.16	3.36	Limo argilloso
15.10	1.40	0.048	2.16	3.43	Limo argilloso
15.15	1.43	0.051	1.91	3.97	Limo argilloso
15.20	1.49	0.055	1.90	3.69	Limo argilloso

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15.30	1.56	0.056	1.90	3.68	Limo argilloso
15.35	1.56	0.055	1.90	3.62	Limo argilloso
15.40	1.43	0.049	1.84	3.43	Limo argilloso
15.45	1.33	0.045	1.83	3.38	Limo argilloso
15.50	1.37	0.043	1.82	3.14	Limo argilloso
15.55	1.43	0.045	1.79	3.15	Limo argilloso
15.60	1.43	0.044	1.67	3.08	Limo argilloso
15.65	1.43	0.044	1.65	3.08	Limo argilloso
15.70	1.52	0.044	1.66	2.89	Limo
15.75	1.56	0.051	1.64	3.27	Limo argilloso
15.80	1.56	0.061	1.64	3.91	Limo argilloso
15.85	1.68	0.066	1.55	3.93	Limo argilloso
15.90	1.59	0.063	1.53	3.96	Limo argilloso
15.95	1.56	0.057	1.52	3.65	Limo argilloso
16.00	1.56	0.052	1.52	3.32	Limo argilloso
16.05	1.52	0.053	1.50	3.49	Limo argilloso
16.10	1.49	0.053	1.47	3.56	Limo argilloso
16.15	1.40	0.051	1.24	3.64	Limo argilloso
16.20	1.33	0.045	1.22	3.38	Limo argilloso
16.25	1.30	0.038	1.20	2.92	Limo
16.30	1.24	0.036	1.10	2.90	Limo
16.35	1.17	0.034	1.10	2.91	Limo
16.40	1.21	0.035	1.10	2.89	Limo
16.45	1.24	0.035	1.10	2.82	Limo
16.50	1.27	0.036	1.10	2.83	Limo
16.55	1.27	0.037	1.09	2.91	Limo
16.60	1.30	0.038	1.09	2.92	Limo
16.65	1.37	0.040	1.09	2.92	Limo
16.70	1.33	0.041	1.08	3.08	Limo argilloso
16.75	1.30	0.042	1.06	3.23	Limo argilloso
16.80	1.33	0.043	1.05	3.23	Limo argilloso
16.85	1.40	0.041	1.02	2.93	Limo
16.90	1.33	0.037	1.00	2.78	Limo
16.95	1.27	0.035	0.89	2.76	Limo
17.00	1.27	0.034	0.87	2.68	Limo
17.05	1.24	0.035	0.87	2.82	Limo
17.10	1.33	0.038	0.84	2.86	Limo
17.15	1.30	0.040	0.82	3.08	Limo argilloso
17.20	1.27	0.040	0.81	3.15	Limo argilloso
17.25	1.30	0.040	0.70	3.08	Limo argilloso
17.30	1.37	0.039	0.70	2.85	Limo
17.35	1.37	0.037	0.70	2.70	Limo
17.40	1.30	0.035	0.70	2.69	Limo
17.45	1.30	0.032	0.70	2.46	Limo
17.50	1.21	0.029	0.70	2.40	Limo
17.55	1.17	0.027	0.70	2.31	Limo
17.60	1.27	0.029	0.70	2.28	Limo sabbioso
17.65	1.30	0.033	0.70	2.54	Limo
17.70	1.33	0.035	0.69	2.63	Limo
17.75	1.33	0.035	0.68	2.63	Limo
17.80	1.30	0.033	0.66	2.54	Limo
17.85	1.30	0.028	0.66	2.15	Limo sabbioso
17.90	1.24	0.024	0.48	1.94	Limo sabbioso
17.95	1.17	0.019	0.46	1.62	Sabbia
18.00	1.17	0.018	0.45	1.54	Sabbia
18.05	1.21	0.018	0.45	1.49	Sabbia
18.10	1.27	0.014	0.44	1.10	Sabbia
18.15	1.11	0.013	0.45	1.17	Sabbia
18.20	1.06	0.012	0.45	1.11	Sabbia
18.25	1.08	0.012	0.44	1.11	Sabbia
18.30	1.17	0.013	0.45	1.11	Sabbia
18.35	1.14	0.018	0.46	1.58	Sabbia
18.40	1.21	0.023	0.45	1.90	Limo sabbioso
18.45	1.27	0.029	0.47	2.28	Limo sabbioso
18.50	1.30	0.034	0.46	2.62	Limo
18.55	1.33	0.037	0.45	2.78	Limo
18.60	1.33	0.037	0.45	2.78	Limo
18.65	1.27	0.031	0.45	2.44	Limo
18.70	1.17	0.026	0.45	2.22	Limo sabbioso
18.75	1.14	0.014	0.39	1.23	Sabbia
18.80	1.17	0.022	0.38	1.88	Limo sabbioso
18.85	1.21	0.017	0.33	1.40	Sabbia
18.90	1.14	0.020	0.34	1.75	Limo sabbioso
18.95	1.27	0.017	0.34	1.34	Sabbia
19.00	1.30	0.021	0.33	1.62	Sabbia
19.05	1.24	0.020	0.33	1.61	Sabbia
19.10	1.33	0.019	0.33	1.43	Sabbia
19.15	1.21	0.021	0.32	1.74	Sabbia
19.20	1.24	0.027	0.34	2.18	Limo sabbioso
19.25	1.33	0.037	0.32	2.78	Limo
19.30	1.43	0.042	0.32	2.94	Limo
19.35	1.46	0.045	0.33	3.08	Limo argilloso
19.40	1.52	0.042	0.32	2.76	Limo
19.45	1.43	0.040	0.31	2.80	Limo
19.50	1.33	0.036	0.31	2.71	Limo
19.55	1.30	0.035	0.32	2.69	Limo
19.60	1.33	0.037	0.30	2.78	Limo
19.65	1.33	0.040	0.30	3.01	Limo argilloso
19.70	1.40	0.042	0.30	3.00	Limo argilloso
19.75	1.43	0.044	0.31	3.08	Limo argilloso
19.80	1.46	0.050	0.30	3.42	Limo argilloso
19.85	1.52	0.050	0.30	3.29	Limo argilloso
19.90	1.56	0.048	0.30	3.08	Limo argilloso
19.95	1.46	0.045	0.30	3.08	Limo argilloso
20.00	1.46	0.042	0.38	2.88	Limo

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SOIL TEST
AREZZO - Via CALAMANDREI 265/A
Tel. (0575) -33644
Fax. (0575) -23230

Committente:

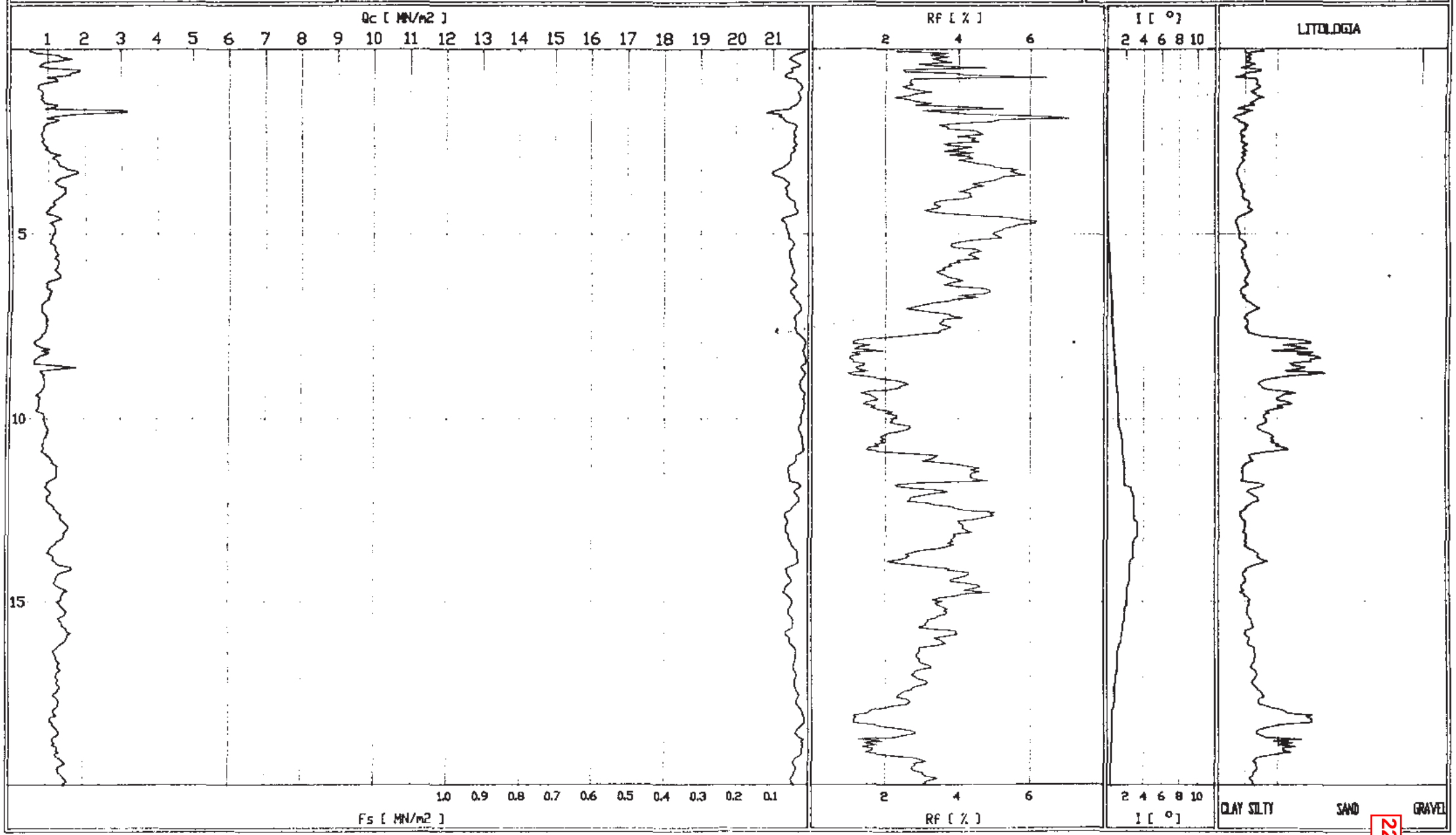
Localita' :

Dir. Lavori: GEOECO

Data : 29-11-91

Prof : 20 (m)

CPT 2



CERTIFICATO N.RO : 9-AA CANTIERE :RIPRISTINO FABBRICATO COLONICO LESIONATO

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	10	12	0.13	76.92										
0.20	10	12	0.13	76.92										
0.40	10	19	0.60	16.67										
0.60	13	20	0.47	27.66										
0.80	23	35	0.80	28.75										
1.00	54	73	1.27	42.52										
1.20	77	105	1.87	41.18										
1.40	128	170	2.80	45.71										
1.60	114	158	2.93	38.91										
1.80	157	228	4.73	33.19										
2.00	152	234	5.47	27.79										
2.20	146	242	6.40	22.81										
2.40	184	259	5.00	36.80										
2.60	175	280	7.00	25.00										
2.80	250	336	5.73	43.63										
3.00	84	146	4.13	20.34										
3.20	85	169	5.60	15.18										
3.40	52	119	4.47	11.63										
3.60	46	109	4.20	10.95										
3.80	31	60	1.93	16.06										
4.00	27	46	1.27	21.26										
4.20	23	40	1.13	20.35										
4.40	43	57	0.93	46.24										
4.60	28	49	1.40	20.00										
4.80	34	59	1.67	20.36										
5.00	183	215	2.13	85.92										
5.20	156	213	3.80	41.05										
5.40	145	250	7.00	20.71										
5.60	118	217	6.60	17.88										
5.80	71	170	6.60	10.76										
6.00	74	144	4.67	15.85										
6.20	76	107	2.07	36.71										
6.40	71	104	2.20	32.27										
6.60	102	153	3.40	30.00										
6.80	123	193	4.67	26.34										
7.00	66	145	5.27	12.52										
7.20	41	83	2.80	14.64										
7.40	36	60	1.60	22.50										
7.60	36	62	1.73	20.81										
7.80	38	63	1.67	22.75										
8.00	47	62	1.00	47.00										
8.20	136	163	1.80	75.56										
8.40	300	357	3.80	78.95										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

S. MARIA A MONTE

PROVA N. 1 / 38 COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

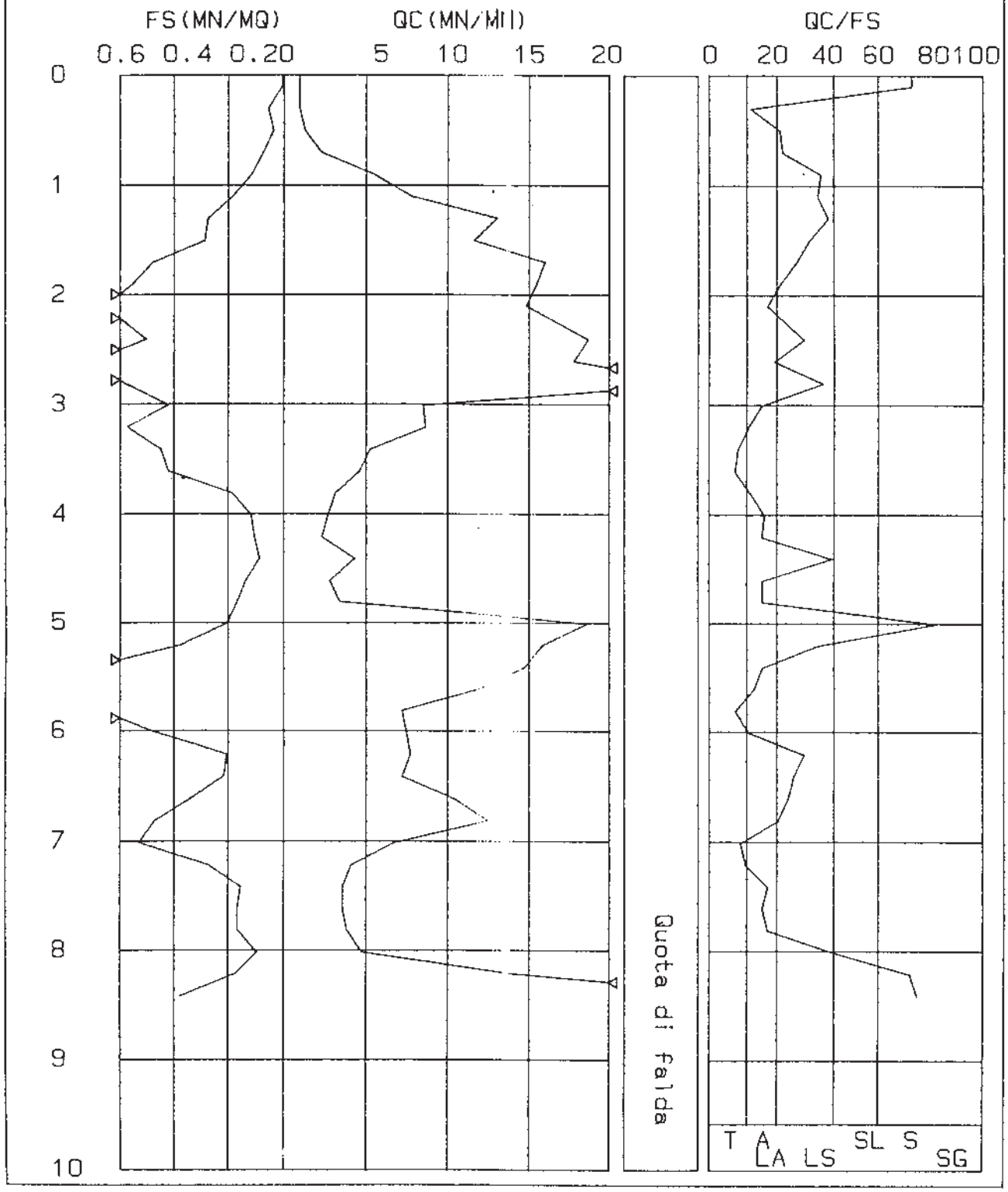
H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 20 40 60 80 100 120 140	BEGEMANN 1965 HZO A0 ALA LS SL SG	SCHM. 1978
0.2	10	0.133				SO
0.4	10	0.600				AO
0.6	13	0.466				ASL
0.8	23	0.800				ASL
1.0	54	1.266				SAL
1.2	77	1.866				SAL
1.4	128	2.799				LS
1.6	114	2.933				LS
1.8	157	4.733				LS
2.0	152	5.466	*	*		LS
2.2	146	6.400	*	*		ASL
2.4	184	5.000		*		LS
2.6	175	7.000	*	*		LS
2.8	250	5.733	*	*		LS
3.0	84	4.133				ASL
3.2	85	5.599	*			ASL
3.4	52	4.466				A5
3.6	46	4.199				A5
3.8	31	1.933				A5
4.0	27	1.266				A5
4.2	23	1.133				A5
4.4	43	0.933				SAL
4.6	28	1.399				A5
4.8	34	1.666				ASL
5.0	183	2.133		*		S2
5.2	156	3.799		*		LS
5.4	145	7.000	*	*		ASL
5.6	118	6.599	*	*		ASL
5.8	111	6.599	*			A5
6.0	74	4.666				ASL
6.2	76	2.066				SAL
6.4	71	2.200				SAL
6.6	102	3.400				LS
6.8	123	4.666				LS
7.0	66	5.266	*			A5
7.2	41	2.799				A5
7.4	36	1.600				ASL
7.6	36	1.733				ASL
7.8	38	1.666				ASL
8.0	47	1.000				SAL
8.2	136	1.799				S2
8.4	300	3.799		*		S2

CPT (CONE PENETROMETER TEST)

Certif.n. 9-AA
del 07/01/1992

Picchetto n. PS/1

Cantiere
RIPRISTINO FABBRICATO COLONICO LESIONATO
Committente



CERTIFICATO N.RO : 10-AA CANTIERE :RIPRISTINO FABBRICATO COLONICO LESIONATO

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	76	81	0.33	230.30										
0.20	76	81	0.33	230.30										
0.40	76	82	0.40	190.00										
0.60	46	52	0.40	115.00										
0.80	25	41	1.07	23.36										
1.00	10	21	0.73	13.70										
1.20	8	19	0.73	10.96										
1.40	10	17	0.47	21.28										
1.60	12	23	0.73	16.44										
1.80	31	44	0.87	35.63										
2.00	41	55	0.93	44.09										
2.20	24	45	1.40	17.14										
2.40	24	47	1.53	15.69										
2.60	32	52	1.33	24.06										
2.80	29	54	1.67	17.37										
3.00	31	48	1.13	27.43										
3.20	25	50	1.67	14.97										
3.40	25	53	1.87	13.37										
3.60	28	43	1.00	28.00										
3.80	30	40	0.67	44.78										
4.00	54	88	2.27	23.79										
4.20	116	159	2.87	40.42										
4.40	128	164	2.40	53.33										
4.60	138	175	2.47	55.87										
4.80	105	162	3.80	27.63										
5.00	80	154	4.93	16.23										
5.20	47	115	4.53	10.38										
5.40	78	102	1.60	48.75										
5.60	94	150	3.73	25.20										
5.80	109	166	3.80	28.68										
6.00	102	149	3.13	32.59										
6.20	113	181	4.53	24.94										
6.40	53	133	5.33	9.94										
6.60	38	87	3.27	11.62										
6.80	32	59	1.80	17.78										
7.00	34	61	1.80	18.89										
7.20	30	53	1.53	19.61										
7.40	38	66	1.87	20.32										
7.60	62	92	2.00	31.00										
7.80	89	124	2.33	38.20										
8.00	109	165	3.73	29.22										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

LA SASSA S. MARIA A MONTE 12/12/91

PROVA N. 2 / 3B COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

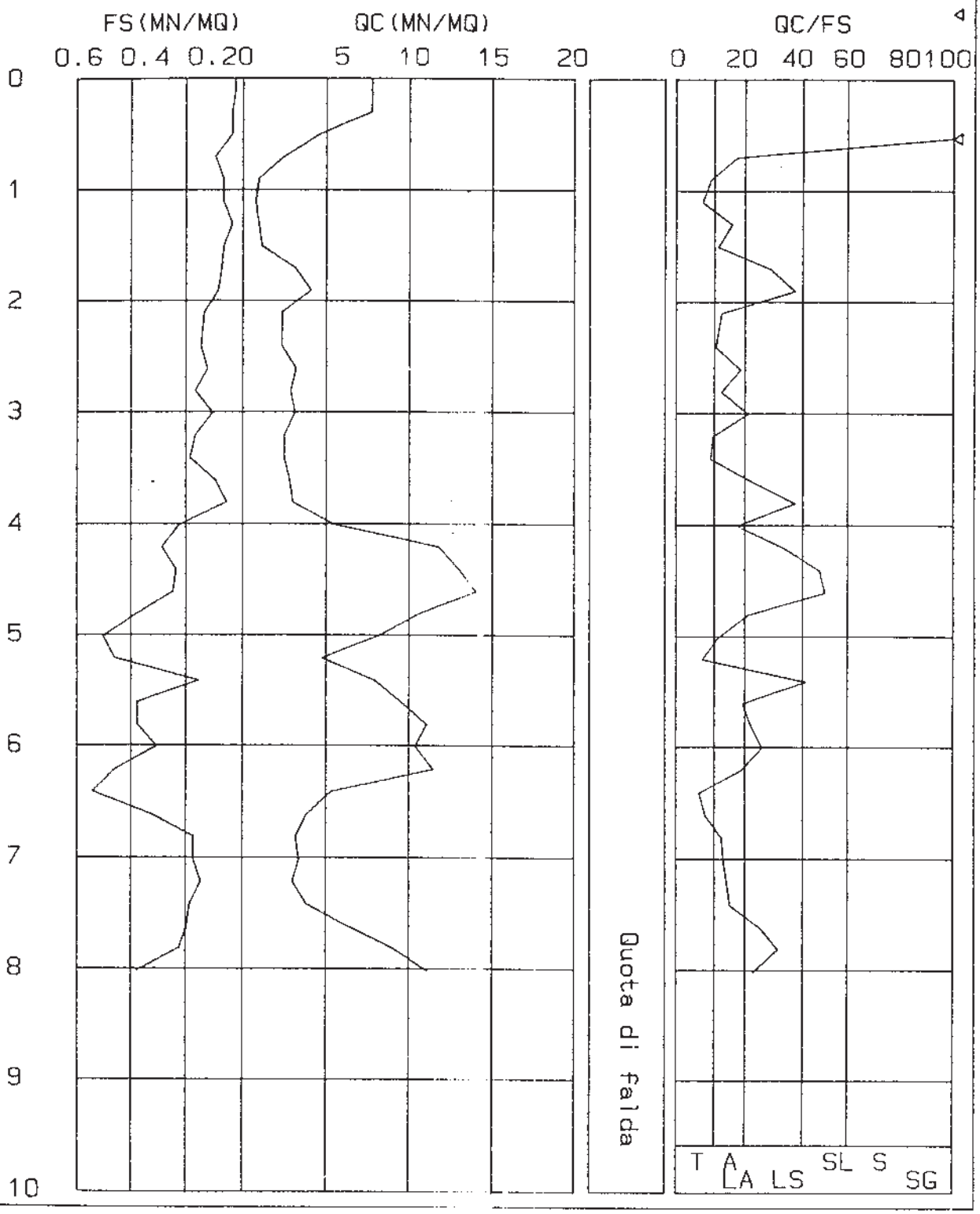
H a	qc kg/cmq	fs	Diagramma fs 5	4	3	2	1	0	Diagramma qc 20	40	60	80	100	120	140	BEGEMANN 1965 HZO	AO	A	LA	LS	SL	S	SG	SCHM. 1978
0.2	76	0.333																						GS
0.4	76	0.400																						GS
0.6	46	0.400																						S1
0.8	25	1.066																						ASL
1.0	10	0.733																						A0
1.2	8	0.733																						A0
1.4	10	0.466																						A4
1.6	12	0.733																						A4
1.8	31	0.866																						SAL
2.0	41	0.933																						SAL
2.2	24	1.399																						A5
2.4	24	1.533																						A5
2.6	32	1.333																						ASL
2.8	29	1.666																						A5
3.0	31	1.133																						ASL
3.2	25	1.666																						A5
3.4	25	1.866																						A5
3.6	28	1.000																						ASL
3.8	30	0.666																						SAL
4.0	54	2.266																						ASL
4.2	116	2.866																						LS
4.4	128	2.400																						S2
4.6	138	2.466																						S2
4.8	105	3.799																						LS
5.0	80	4.933																						ASL
5.2	47	4.533																						A5
5.4	78	1.600																						S1
5.6	94	3.733																						ASL
5.8	109	3.799																						LS
6.0	102	3.133																						LS
6.2	113	4.533																						LS
6.4	53	5.333																						A5
6.6	38	3.266																						A5
6.8	32	1.799																						A5
7.0	34	1.799																						A5
7.2	30	1.533																						A5
7.4	38	1.866																						ASL
7.6	62	2.000																						SAL
7.8	89	2.333																						SAL
8.0	109	3.733																						LS

CPT (CONE PENETROMETER TEST)

Certif.n. 10-AA
del 07/01/1992

Picchetto n. PS/2

Cantiere
RIPRISTINO FABBRICATO COLONICO LESIONATO
Committente



CERTIFICATO N.RO : 11-AA CANTIERE :RIPRISTINO FABBRICATO COLONICO LESIONATO

PROF.	NC	RD.	PROF.	NC	RD.	PROF.	NC	RD	PROF.	NC	RD
0.00	0	0.00									
0.10	0	0.00									
0.20	4	14.14									
0.30	3	10.61									
0.40	3	10.61									
0.50	3	10.61									
0.60	3	10.61									
0.70	3	10.61									
0.80	4	14.14									
0.90	5	17.68									
1.00	8	28.29									
1.10	9	28.74									
1.20	10	31.94									
1.30	13	41.52									
1.40	13	41.52									
1.50	12	38.32									
1.60	13	41.52									
1.70	17	54.29									
1.80	19	60.66									
1.90	16	51.10									
2.00	14	44.71									
2.10	12	34.94									
2.20	9	26.21									
2.30	9	26.21									
2.40	7	20.38									
2.50	5	14.56									
2.60	5	14.56									
2.70	4	11.65									
2.80	5	14.56									
2.90	7	20.38									
3.00	7	20.38									
3.10	9	24.08									
3.20	12	32.11									
3.30	13	34.78									
3.40	15	40.14									
3.50	18	48.16									
3.60	28	74.92									
3.70	27	72.24									
3.80	48	128.43									
3.90	32	85.62									
4.00	36	96.32									
4.10	61	150.97									
4.20	100	247.50									

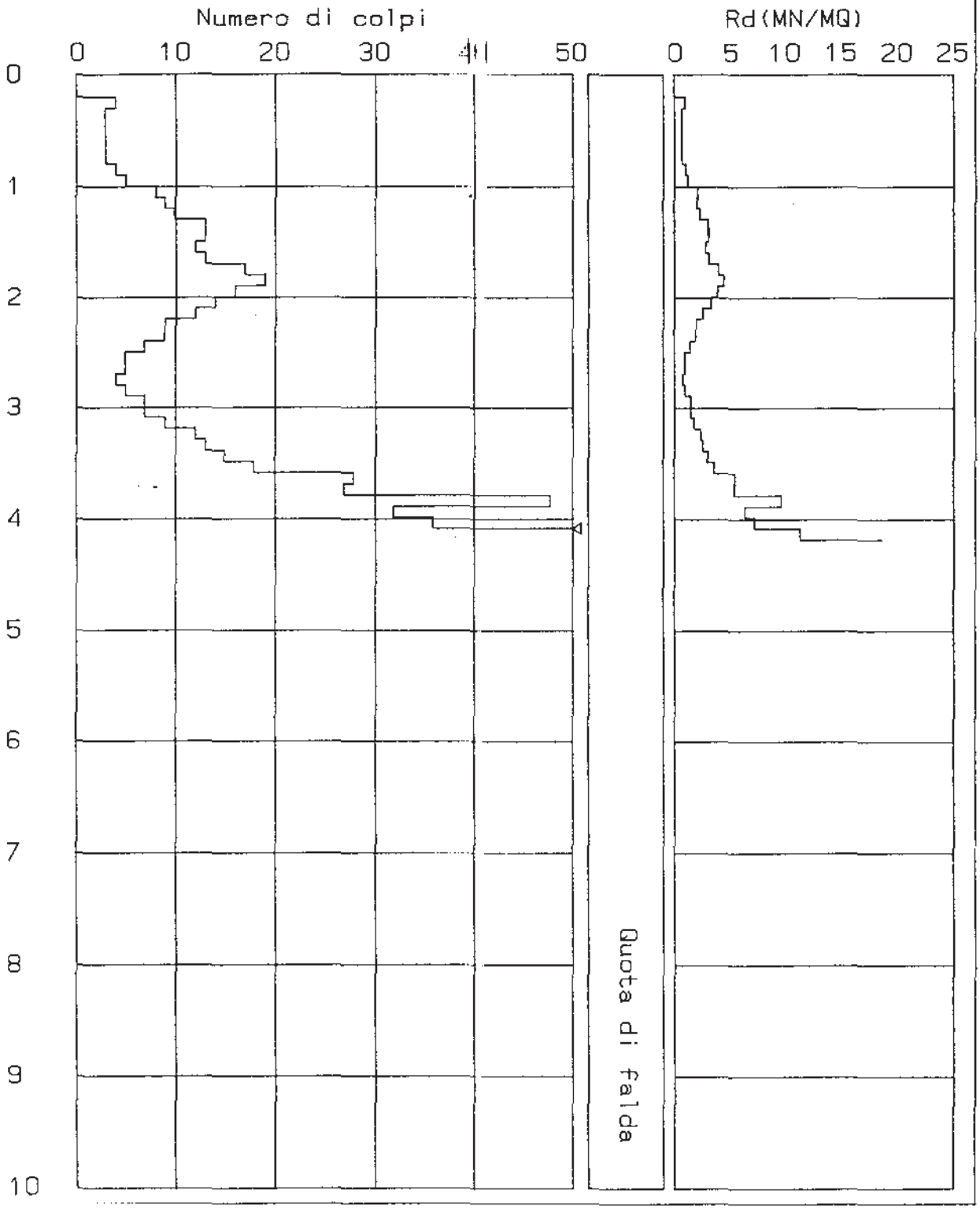
LEGGENDA : PROF. = PROFONDITA' DI INFISSIONE CM.
NC = NUMERO COLPI N.RO
RD = RESISTENZA DINAMICA dN/cmq

DPL (DYNAMIC PENETROMETER LIGHT)

Certif.n. 11-AA
del 07/01/1992

Picchetto n. PD/3

Cantiere
RIPRISTINO FABBRICATO COLONICO LESIONATO
Committente



PROVA PENETROMETRICA DINAMICA

CERTIFICATO N.RD : 12-AA . CANTIERE :RIPRISTINO FABBRICATO COLONICO LESIONATO

PROF.	NC	RD.	PROF.	NC	RD.	PROF.	NC	RD	PROF.	NC	RD
0.00	0	0.00									
0.10	0	0.00									
0.20	3	10.61									
0.30	3	10.61									
0.40	4	14.14									
0.50	5	17.68									
0.60	6	21.21									
0.70	5	17.68									
0.80	5	17.68									
0.90	5	17.68									
1.00	4	14.14									
1.10	4	12.77									
1.20	4	12.77									
1.30	3	9.58									
1.40	2	6.39									
1.50	3	9.58									
1.60	5	15.97									
1.70	6	19.16									
1.80	9	28.74									
1.90	9	28.74									
2.00	12	38.32									
2.10	12	34.94									
2.20	9	26.21									
2.30	9	26.21									
2.40	7	20.38									
2.50	7	20.38									
2.60	12	34.94									
2.70	12	34.94									
2.80	9	26.21									
2.90	9	26.21									
3.00	11	32.03									
3.10	10	26.76									
3.20	10	26.76									
3.30	10	26.76									
3.40	11	29.45									
3.50	18	48.16									
3.60	22	58.86									
3.70	26	69.57									
3.80	100	267.57									

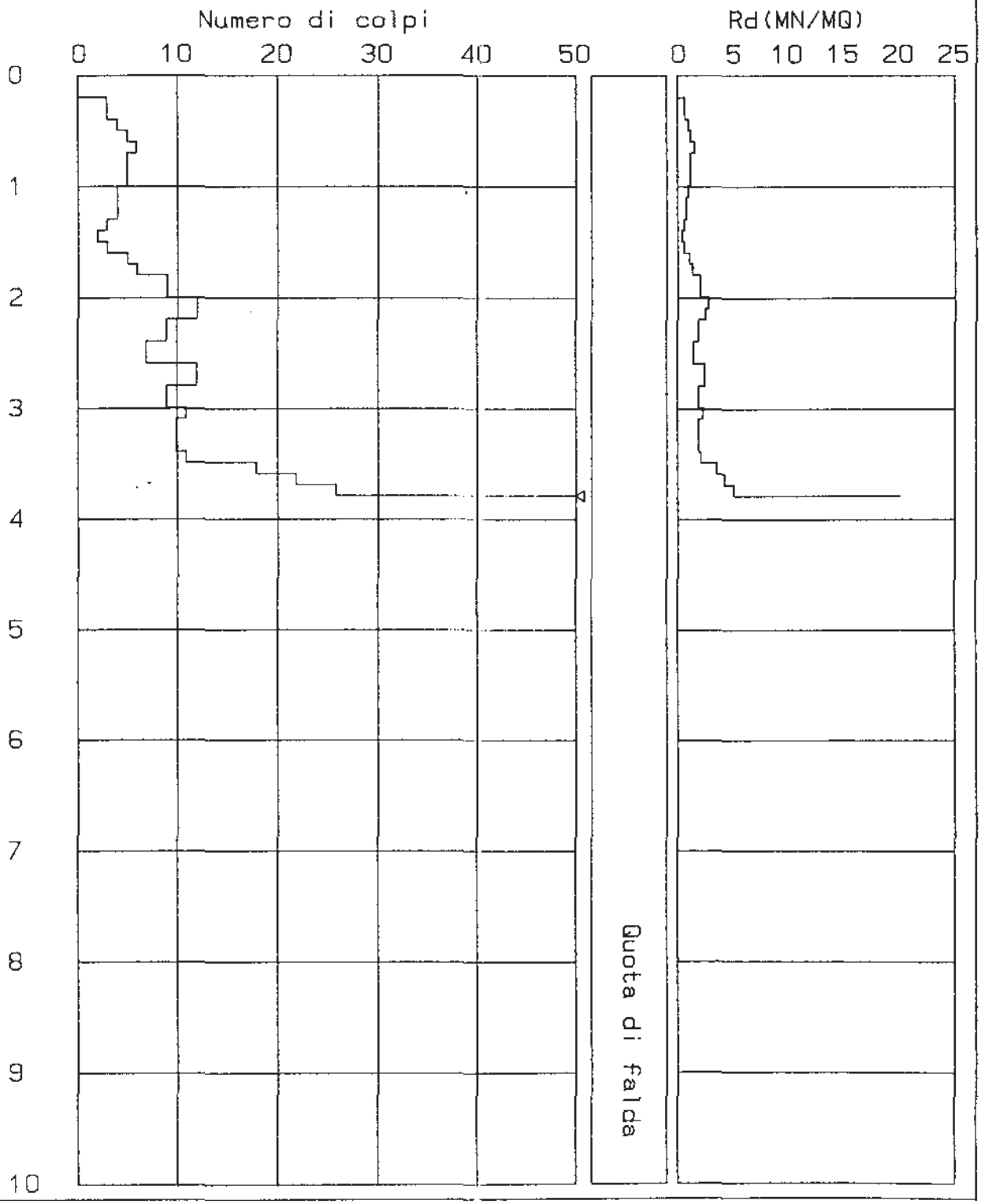
LEGGENDA : PROF. = PROFONDITA DI INFISSIONE cm.
NC = NUMERO COLPI N.RD
RD = RESISTENZA DINAMICA daN/cmq

DPL (DYNAMIC PENETROMETER LIGHT)

Certif.n. 12-AA
del 07/01/1992

Picchetto n. PD/1

Cantiere
RIPRISTINO FABBRICATO COLONICO LESIONATO
Committente

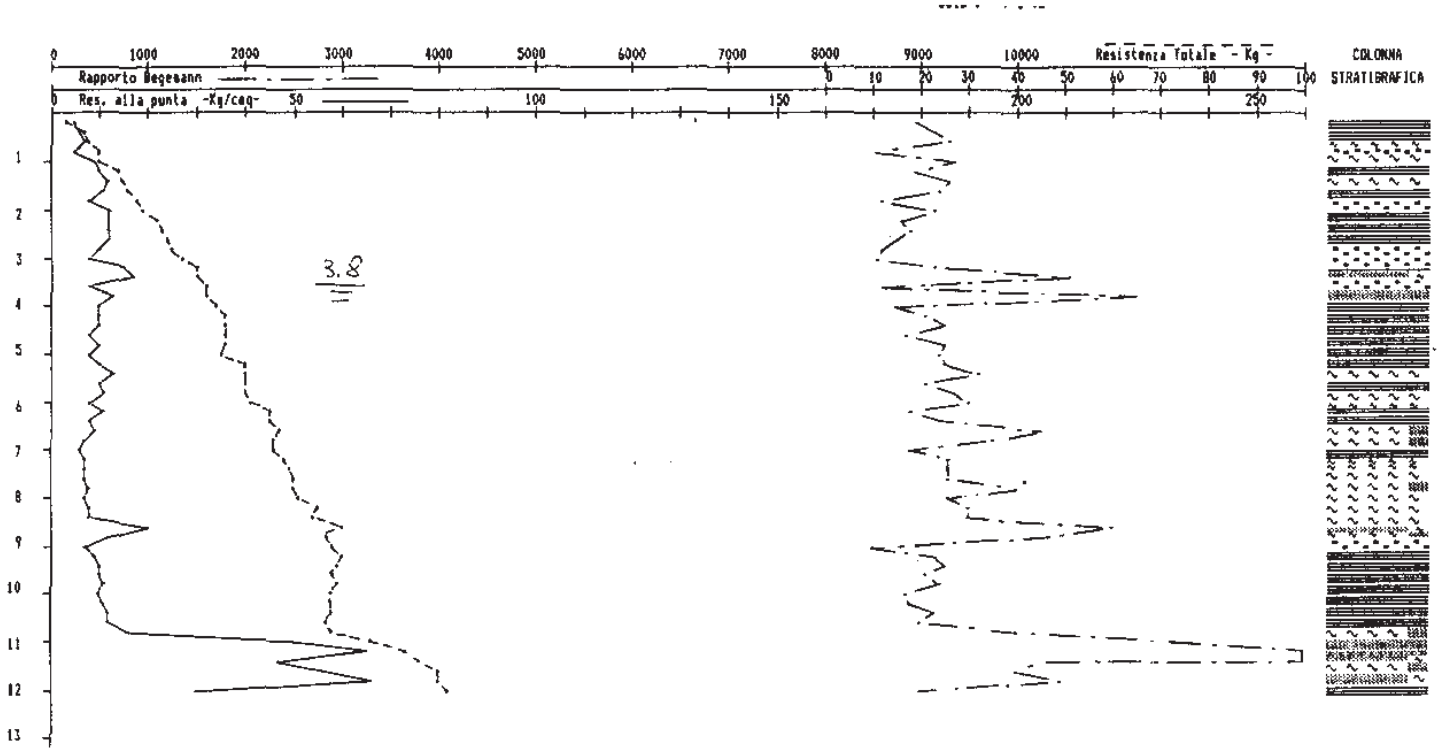


letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	50	90	150	40	.26	19	100			.2	29
.4	60	100	350	40	.26	23	290			.24	25.93
.6	70	110	400	40	.26	26	330			.28	23.81
.8	50	120	500	70	.46	11	450			.2	29
1	90	140	500	50	.33	27	410			.36	21.16
1.2	100	180	700	80	.53	19	600			.4	20.3
1.4	120	190	750	70	.46	26	630			.48	19.13
1.6	110	180	800	70	.46	24	690			.44	19.64
1.8	80	180	900	100	.66	12	820			.32	22.29
2	120	200	950	80	.53	23	830			.48	19.13
2.2	120	230	1100	110	.73	16	980			.48	19.13
2.4	120	220	1150	100	.66	18	1030			.48	19.13
2.6	120	240	1200	120	.8	15	1080			.48	19.13
2.8	100	220	1250	120	.8	12	1150			.4	20.3
3	80	190	1350	110	.73	11	1270			.32	22.29
3.2	150	250	1500	100	.66	23	1350			.6	18.14
3.4	170	220	1500	50	.33	51	1330	25	15		17.75
3.6	80	180	1600	100	.66	12	1520			.32	22.29
3.8	130	160	1600	30	.2	65	1470	27	12		18.72
4	100	200	1700	100	.66	15	1600			.4	20.3
4.2	100	170	1800	70	.46	21	1700			.4	20.3
4.4	100	160	1800	60	.4	25	1700			.4	20.3
4.6	80	150	1800	70	.46	17	1720			.32	22.29
4.8	100	160	1800	60	.4	25	1700			.4	20.3
5	80	130	1750	50	.33	24	1670			.32	22.29
5.2	100	160	2000	60	.4	25	1900			.4	20.3
5.4	130	190	2000	60	.4	32	1870			.52	18.72
5.6	100	170	2000	70	.46	21	1900			.4	20.3
5.8	110	170	2000	60	.4	27	1890			.44	19.64
6	80	120	2050	40	.26	30	1970			.32	22.29
6.2	110	200	2250	90	.6	18	2140			.44	19.64
6.4	80	130	2250	50	.33	24	2170			.32	22.29
6.6	90	120	2350	30	.2	45	2260			.36	21.16
6.8	70	100	2300	30	.2	35	2230			.28	23.81
7	60	110	2300	50	.33	18	2240			.24	25.93
7.2	70	110	2400	40	.26	26	2330			.28	23.81
7.4	70	110	2450	40	.26	26	2380			.28	23.81
7.6	70	110	2500	40	.26	26	2430			.28	23.81
7.8	80	110	2500	30	.2	40	2420			.32	22.29
8	70	110	2550	40	.26	26	2480			.28	23.81

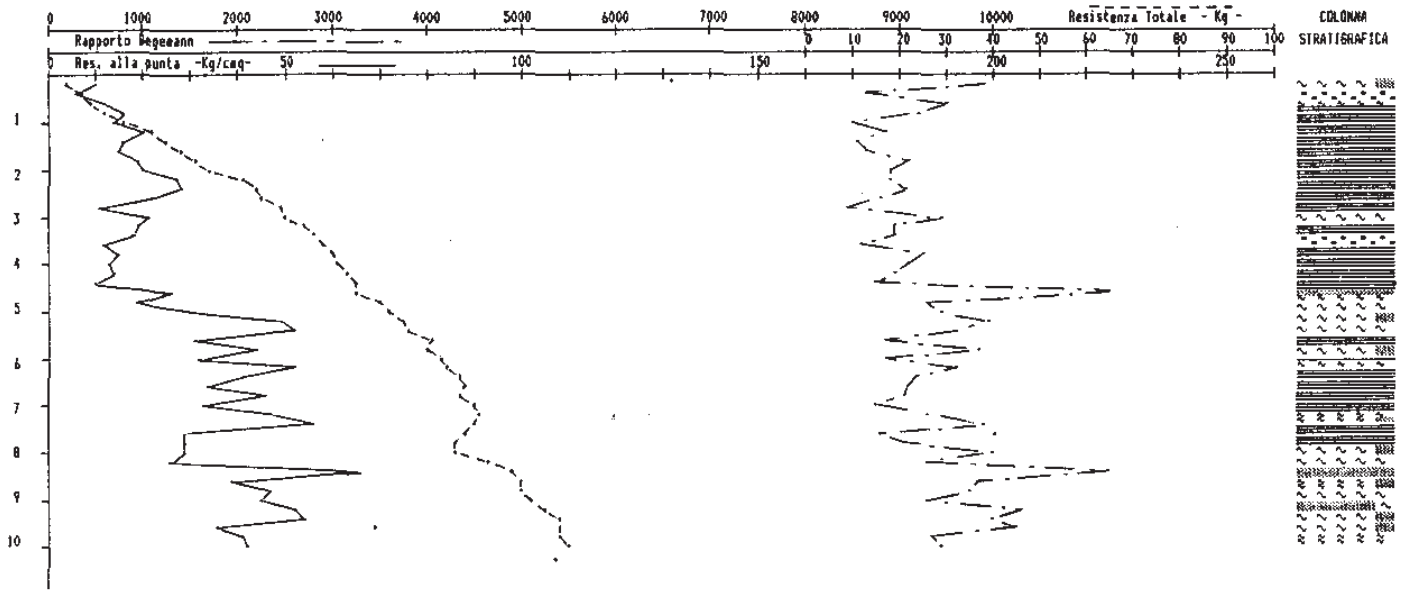
letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	80	120	2750	40	.26	30	2670			.32	22.29
8.4	80	120	2700	40	.26	30	2620			.32	22.29
8.6	200	250	3000	50	.33	60	2800	27	18		17.36
8.8	120	160	2850	40	.26	45	2730			.48	19.13
9	70	170	2900	100	.66	10	2830			.28	23.81
9.2	90	150	3000	60	.4	23	2910			.36	21.16
9.4	100	160	2950	60	.4	25	2850			.4	20.3
9.6	100	170	2900	70	.46	21	2800			.4	20.3
9.8	110	180	2950	70	.46	24	2840			.44	19.64
10	100	190	2900	90	.6	17	2800			.4	20.3
10.2	110	200	2900	90	.6	18	2790			.44	19.64
10.4	120	200	2900	80	.53	23	2780			.48	19.13
10.6	120	210	2850	90	.6	20	2730			.48	19.13
10.8	160	220	2900	60	.4	40	2740			.64	17.93
11	500	600	3300	100	.66	75	2800	30	38		12.57
11.2	650	720	3650	70	.46	139	3000	36	46		10.1
11.4	470	620	3800	150	1	47	3330	30	37		13.14
11.6	560	770	4000	210	1.4	40	3440			2.8	11.5
11.8	660	860	4000	200	1.33	49	3340	32	47		9.96
12	300	520	4100	220	1.46	20	3800			1.2	16.21


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq- 50 100 150 200 250
COLONNA STRATIGRAFICA
3.8
1 2 3 4 5 6 7 8 9 10 11 12 13

	letture di campagna			valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	100	140	200	40	.26	38	100			.4	20.3
.4	60	130	350	70	.46	13	290			.24	25,93
.6	120	180	450	60	.4	30	330			.48	19.13
.8	160	260	600	100	.66	24	440			.64	17.93
1	140	350	800	210	1.4	10	660			.56	18.4
1.2	200	380	1100	180	1.2	17	900			.8	17.36
1.4	160	370	1250	210	1.4	11	1090			.64	17.93
1.6	150	320	1400	170	1.13	13	1250			.6	18.14
1.8	190	320	1550	130	.86	22	1360			.76	17.47
2	200	370	1700	170	1.13	18	1500			.8	17.36
2.2	270	500	2050	230	1.53	18	1780			1.08	16.6
2.4	280	480	2200	200	1.33	21	1920			1.12	16.48
2.6	220	420	2250	200	1.33	16	2030			.88	17.15
2.8	110	300	2450	190	1.26	9	2340			.44	19.64
3	210	320	2500	110	.73	29	2290			.84	17.25
3.2	190	340	2700	150	1	19	2510			.76	17.47
3.4	180	320	2800	140	.93	19	2620			.72	17.6
3.6	120	270	2900	150	1	12	2780			.48	19.13
3.8	150	240	3000	90	.6	25	2850			.6	18.14
4	130	220	3050	90	.6	22	2920			.52	18.72
4.2	140	250	3150	110	.73	19	3010			.56	18.4
4.4	100	200	3250	100	.66	15	3150			.4	20.3
4.6	260	320	3250	60	.4	65	2990	29	23		16.72
4.8	190	300	3500	110	.73	26	3310			.76	17.47
5	310	470	3600	160	1.06	29	3290			1.24	16.06
5.2	490	680	3750	190	1.26	39	3260			2.45	12.76
5.4	520	760	3800	240	1.6	32	3280			2.6	12.2
5.6	310	580	4050	270	1.8	17	3740			1.24	16.06
5.8	440	620	4000	180	1.2	37	3560			1.76	13.72
6	320	610	4150	290	1.93	17	3830			1.28	15.91
6.2	520	760	4200	240	1.6	32	3680			2.6	12.2
6.4	410	670	4350	260	1.73	24	3940			1.64	14.3
6.6	340	570	4400	230	1.53	22	4060			1.36	15.59
6.8	460	790	4350	330	2.2	21	3890			2.3	13.33
7	330	660	4500	330	2.2	15	4170			1.32	15.75
7.2	470	740	4550	270	1.8	26	4080			2.35	13.14
7.4	560	780	4500	220	1.46	38	3940			2.8	11.5
7.6	290	560	4400	270	1.8	16	4110			1.16	16.35
7.8	290	500	4380	210	1.4	21	4010			1.16	16.35
8	290	400	4300	110	.73	40	4010			1.16	16.35

	letture di campagna			valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	260	410	4650	150	1	26	4390			1.04	16.72
8.4	650	800	4900	150	1	65	4250	32	46		10.1
8.6	390	550	5000	160	1.06	37	4610			1.56	14.69
8.8	470	670	5000	200	1.33	35	4530			2.35	13.14
9	450	710	5100	260	1.73	26	4650			1.8	13.33
9.2	520	690	5250	170	1.13	46	4730	30	39		12.2
9.4	540	740	5400	200	1.33	40	4860			2.7	11.85
9.6	360	480	3450	120	.8	45	3090			1.44	15.24
9.8	410	640	5400	230	1.53	27	4990			1.64	14.3
10	420	640	5500	220	1.46	29	5080			1.68	14.11


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq-
0 50 100 150 200 250
COLONNA STRATIGRAFICA
1
2
3
4
5
6
7
8
9
10

letture di campagna

valori derivati

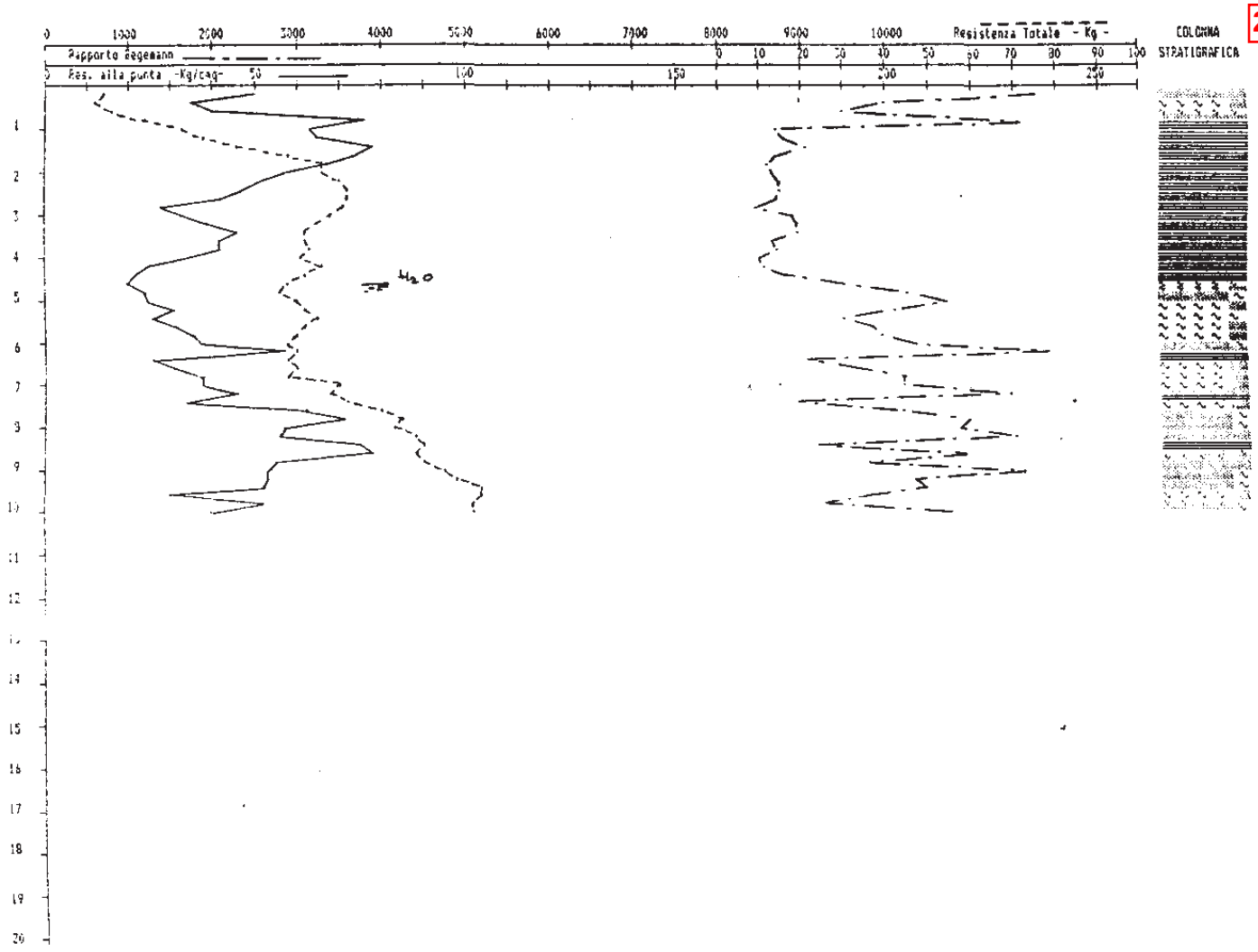
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	500	600	700	100	.66	75	200	30	38		12.57
.4	350	480	600	130	.86	40	250			1.4	15.42
.6	400	600	800	200	1.33	30	400			1.6	19.5
.8	760	920	1200	160	1.06	71	440	33	51		8.72
1	630	1310	1650	680	4.53	14	1020			3.15	10.39
1.2	650	1270	1900	620	4.13	16	1250			3.25	10.1
1.4	780	1350	2300	570	3.8	21	1520			3.9	8.5
1.6	740	1560	2900	820	5.46	14	2160			3.7	8.94
1.8	670	1500	3300	830	5.53	12	2630			3.35	9.82
2	570	1250	3300	680	4.53	13	2730			2.85	11.33
2.2	510	1020	3530	510	3.4	15	2990			2.55	12.39
2.4	470	950	3600	480	3.2	15	3130			2.35	13.14
2.6	420	880	3660	460	3.06	14	3180			1.68	14.11
2.8	280	750	3550	470	3.13	9	3270			1.12	16.48
3	330	600	3400	270	1.8	18	3070			1.32	15.75
3.2	390	700	3250	310	2.06	19	2860			1.56	14.69
3.4	460	820	3190	360	2.4	17	2640			2.3	13.33
3.6	420	900	3100	480	3.2	13	2680			1.68	14.11
3.8	420	880	3150	460	3.06	14	2730			1.68	14.11
4	340	850	3050	510	3.4	10	2710			1.36	15.59
4.2	250	600	2950	350	2.33	11	3050			1	16.83
4.4	220	420	3100	200	1.33	16	2880			.88	17.15
4.6	190	340	2990	150	.66	29	2800			.8	17.76
4.8	240	320	2880	80	.53	45	2560			.96	16.74
5	350	320	3000	70	.46	54	2750	29	22		16.83
5.2	310	420	3100	110	.73	42	2790			1.24	16.36
5.4	260	390	3250	130	.86	30	2990			1.04	15.72
5.6	320	450	3190	130	.86	37	2870			1.28	15.91
5.8	360	500	3000	140	.93	39	2640			1.44	15.24
6	280	400	2980	120	.8	47	2520	20	31		14.87
6.2	570	680	3000	110	.73	78	2430	31	42		11.33
6.4	260	450	2900	190	1.26	21	2640			1.04	15.72
6.6	210	450	3000	140	.93	33	2790			1.24	16.06
6.8	360	510	2900	150	.86	44	2520			1.52	14.87
7	280	510	2900	130	.86	44	2120			1.52	14.87
7.2	460	640	3440	180	.86	69	2940	30	36		13.33
7.4	240	510	3560	270	1.8	19	3260			1.36	15.59
7.6	610	820	4000	210	1.4	44	3390			3.05	10.69
7.8	710	890	4250	180	1.2	59	3540	32	49		9.3
8	570	720	4150	150	1	57	3580	31	42		11.33

letture di campagna

valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	560	680	4400	120	.8	70	3840	31	42		11.5
8.4	750	1210	4500	460	3.06	24	3750			3.75	8.83
8.6	780	980	4400	200	1.33	58	3620	32	52		8.5
8.8	550	730	4500	220	1.53	36	3950			2.75	11.67
9	570	640	4750	110	.73	72	4220	30	40		12.02
9.2	530	700	4900	170	1.13	47	4370	30	40		12.02
9.4	520	680	5200	160	1.06	49	4680	30	39		12.2
9.6	300	420	5200	120	.8	38	4900			1.2	16.21
9.8	520	820	5100	300	2	26	4580			2.6	12.2
10	400	510	5100	110	.73	55	4700	30	32		14.5

2280

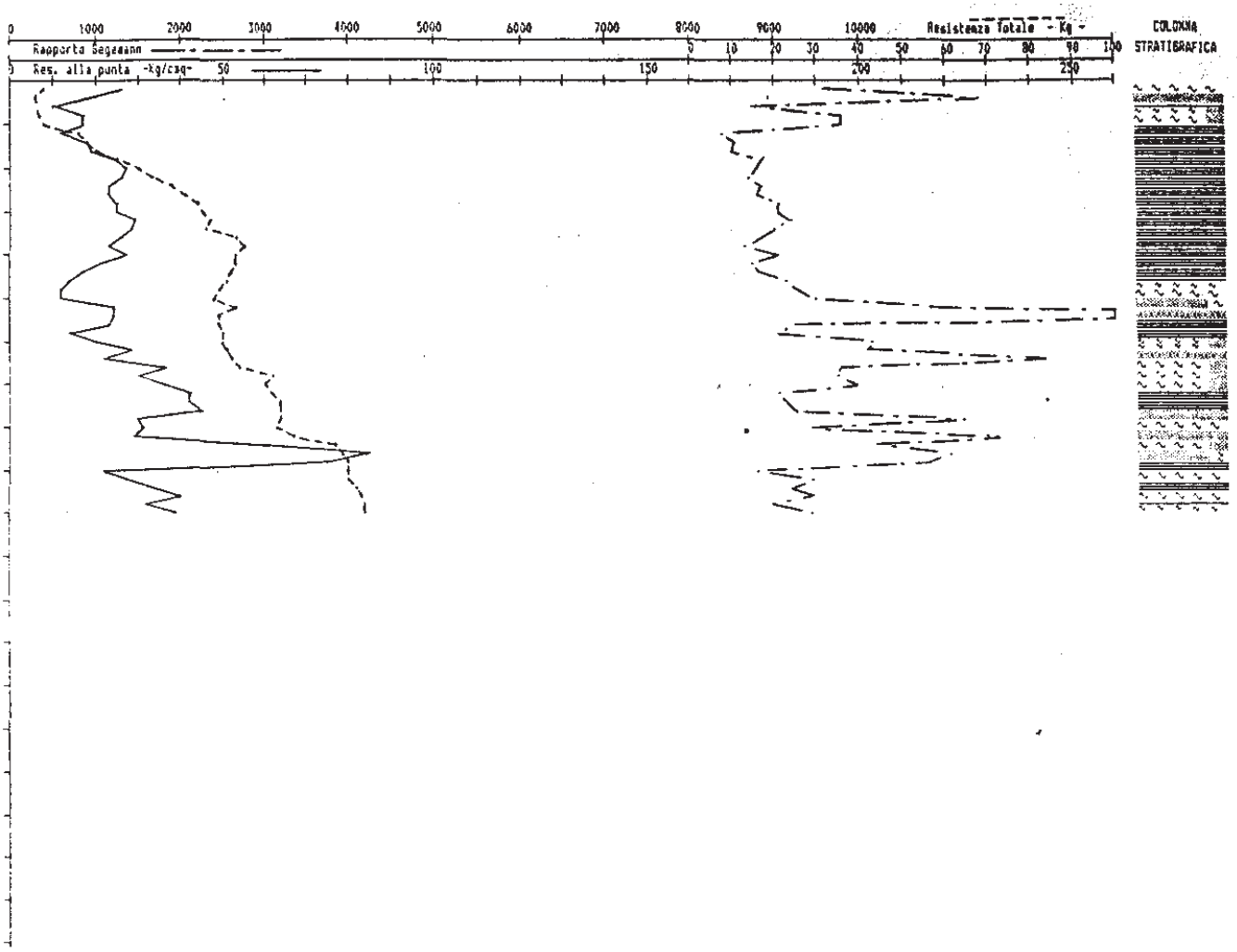

Resistenza Totale - Kg -
Rapporto Begemann
Res. alla punta -Kg/cmq-
COLONNA STRATIGRAFICA
H2O

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
.2	260	380	490	120	.8	32	140			1.04	16.72
.4	180	220	700	40	.26	68	120	28	16		17.6
.6	110	220	500	110	.73	15	390			.44	19.64
.8	170	240	350	70	.46	36	180			.68	17.75
1	170	240	400	70	.46	36	230			.68	17.75
1.2	120	360	800	240	1.6	8	680			.48	19.13
1.4	180	420	900	240	1.6	11	720			.72	17.6
1.6	190	480	1000	290	1.93	10	810			.76	17.47
1.8	250	470	1250	220	1.46	17	1000			1	16.83
2	270	530	1500	260	1.73	16	1230			1.08	16.6
2.2	260	530	1650	270	1.8	14	1390			1.04	16.72
2.4	200	470	1700	200	1.33	17	1670			.92	17.04
2.6	220	450	1850	220	1.46	16	1820			.92	17.04
2.8	250	430	2200	180	1.2	21	1950			1	16.83
3	250	430	2250	180	1.2	21	2000			1	16.83
3.2	290	470	2350	180	1.2	24	2060			1.16	16.35
3.4	280	490	2500	210	1.4	20	2020			1.12	16.48
3.6	260	490	2650	230	1.53	17	2390			1.04	16.72
3.8	220	490	2750	260	1.73	13	2520			.92	17.04
4	270	460	2650	190	1.26	21	2380			1.08	16.6
4.2	210	420	2650	210	1.4	15	2440			.84	17.35
4.4	170	320	2600	150	1	17	2430			.68	17.75
4.6	140	230	2550	90	.6	23	2410			.56	18.4
4.8	120	190	2450	70	.46	26	2330			.48	19.13
5	110	180	2400	60	.4	30	2250			.48	19.13
5.2	120	180	2350	60	.4	30	2410	27	21		18.94
5.4	140	160	2420	20	.13	130	2210	32	21		16.79
5.6	230	370	2450	140	.93	25	2220			.92	17.04
5.8	140	240	2500	100	.66	21	2360			.56	18.4
6	200	270	2500	70	.46	43	2300			.8	17.36
6.2	280	380	2550	100	.66	42	2270			1.12	16.48
6.4	220	260	2600	40	.26	83	2380	32	20		17.15
6.6	360	510	2700	150	1	36	2340			1.44	15.24
6.8	300	420	3100	120	.86	35	2800			1.2	16.21
7	360	500	3000	140	.93	39	2640			1.44	15.24
7.2	420	720	3100	300	2	21	2680			1.68	14.11
7.4	420	690	3200	270	1.8	23	2780			1.68	14.11
7.6	450	720	3200	270	1.8	25	2750			1.8	13.53
7.8	280	370	3220	70	.46	64	2900	29	26		16.21
8	310	470	3150	160	1.06	29	2840			1.24	16.06

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
8.2	290	350	3350	60	.4	72	3060	29	25		16.35
8.4	610	820	3850	210	1.4	44	3240			3.05	10.69
8.6	850	1060	4200	210	1.4	61	3350	33	55		7.82
8.8	750	950	4000	200	1.33	56	3250	32	51		8.83
9	720	920	4000	200	1.33	16	3780			.88	17.15
9.2	670	810	4000	140	.93	29	3730			1.08	16.6
9.4	340	550	4100	210	1.4	24	3760			1.36	15.59
9.6	490	610	4150	210	1.4	29	3750			1.6	14.5
9.8	320	560	4200	240	1.6	20	3880			1.28	15.91
10	390	590	4200	200	1.33	29	3810			1.56	14.69


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -kg/cmq-
0 50 100 150 200 250
COLONNA STRATIGRAFICA
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

2281

CERTIFICATO N.RO : 536-AA CANTIERE :AMPLIAMENTO DI FABBRICATO PER CIVILE ABITAZIONE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	20	26	0.40	50.00										
0.20	20	26	0.40	50.00										
0.40	11	19	0.53	20.75										
0.60	7	12	0.33	21.21										
0.80	22	43	1.40	15.71										
1.00	33	54	1.40	23.57										
1.20	93	117	1.60	58.12										
1.40	40	85	3.00	13.33										
1.60	39	84	3.00	13.00										
1.80	40	60	1.33	30.08										
2.00	33	51	1.20	27.50										
2.20	60	101	2.73	21.98										
2.40	42	70	1.87	22.46										
2.60	88	112	1.60	55.00										
2.80	30	85	3.67	8.17										
3.00	80	125	3.00	26.67										
3.20	85	115	2.00	42.50										
3.40	35	62	1.80	19.44										
3.60	35	55	1.33	26.32										
3.80	35	50	1.00	35.00										
4.00	29	52	1.53	18.95										
4.20	32	51	1.27	25.20										
4.40	30	50	1.33	22.56										
4.60	27	48	1.40	19.29										
4.80	39	45	0.40	97.50										
5.00	33	46	0.87	37.93										
5.20	18	31	0.87	20.69										
5.40	20	43	1.53	13.07										
5.60	15	26	0.73	20.55										
5.80	40	51	0.73	54.79										
6.00	45	65	1.33	33.83										
6.20	25	43	1.20	20.83										
6.40	35	44	0.60	58.33										
6.60	76	103	1.80	42.22										
6.80	95	124	1.93	49.22										
7.00	42	63	1.40	30.00										
7.20	38	51	0.87	43.68										
7.40	30	56	1.73	17.34										
7.60	20	32	0.80	25.00										
7.80	140	220	5.33	26.27										
8.00	35	56	1.40	25.00										
8.20	36	51	1.00	36.00										
8.40	52	64	0.80	65.00										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

PROVA N. 1 / 112 COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

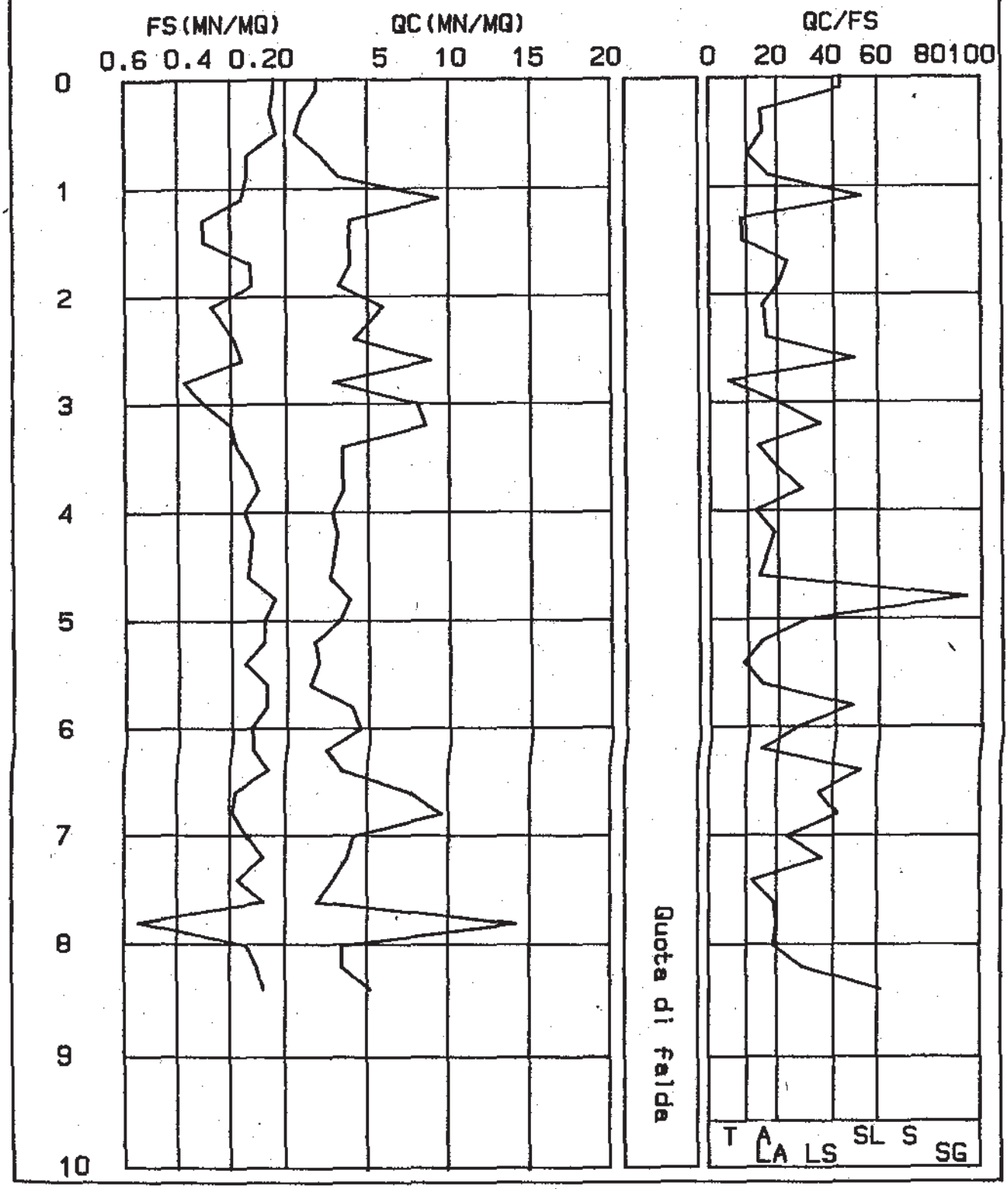
H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 10 20 30 40 50 60 70	BEGEMANN 1965 H2O AO AI LA LS SL S SG	SCHM. 1978
0.2	20	0.400			SI	
0.4	11	0.533			A4	
0.6	7	0.333			A3	
0.8	22	1.399			A5	
1.0	33	1.399			ASL	
1.2	93	1.600			SI	
1.4	40	3.000			A5	
1.6	39	3.000			A5	
1.8	40	1.333			ASL	
2.0	33	1.200			ASL	
2.2	60	2.733			ASL	
2.4	42	1.866			ASL	
2.6	88	1.600			SI	
2.8	30	3.666			A5	
3.0	80	3.000			ASL	
3.2	85	2.000			SAL	
3.4	35	1.799			A5	
3.6	35	1.333			ASL	
3.8	35	1.000			SAL	
4.0	29	1.533			A5	
4.2	32	1.266			ASL	
4.4	30	1.333			ASL	
4.6	27	1.399			A5	
4.8	39	0.400			SI	
5.0	33	0.866			SAL	
5.2	18	0.866			A4	
5.4	20	1.533			A5	
5.6	15	0.733			A4	
5.8	40	0.733			SI	
6.0	45	1.333			SAL	
6.2	25	1.200			A5	
6.4	35	0.600			SI	
6.6	76	1.799			SAL	
6.8	95	1.933			SI	
7.0	42	1.399			ASL	
7.2	38	0.866			SAL	
7.4	30	1.733			A5	
7.6	20	0.800			ASL	
7.8	140	5.333			LS	
8.0	35	1.399			ASL	
8.2	36	1.000			SAL	
8.4	52	0.800			SI	

CPT (CONE PENETROMETER TEST)

Certif.n. 536-AA
del 31/01/1990

Picchetto n. A/1

Cantiere
AMPLIAMENTO DI FABBRICATO PER CIVILE ABITAZIONE
Committente /



PROVA PENETROMETRICA STATICA

CERTIFICATO N.RO : 537-AA CANTIERE :AMPLIAMENTO DI FABBRICATO PER CIVILE ABITAZIONE

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	4	10	0.40	10.00										
0.20	4	10	0.40	10.00										
0.40	8	13	0.33	24.24										
0.60	27	38	0.73	36.99										
0.80	40	61	1.40	28.57										
1.00	52	94	2.80	18.57										
1.20	75	114	2.60	28.85										
1.40	189	213	1.60	118.12										
1.60	102	136	2.27	44.93										
1.80	205	276	4.73	43.34										
2.00	170	245	5.00	34.00										
2.20	115	137	1.47	78.23										
2.40	63	114	3.40	18.53										
2.60	120	146	1.73	69.36										
2.80	97	135	2.53	38.34										
3.00	77	117	2.67	28.84										
3.20	47	92	3.00	15.67										
3.40	42	75	2.20	19.09										
3.60	91	128	2.47	36.84										
3.80	80	130	3.33	24.02										
4.00	170	235	4.33	39.26										
4.20	58	117	3.93	14.76										
4.40	70	95	1.67	41.92										
4.60	73	94	1.40	52.14										
4.80	49	65	1.07	45.79										
5.00	38	60	1.47	25.85										
5.20	65	84	1.27	51.18										
5.40	80	104	1.60	50.00										

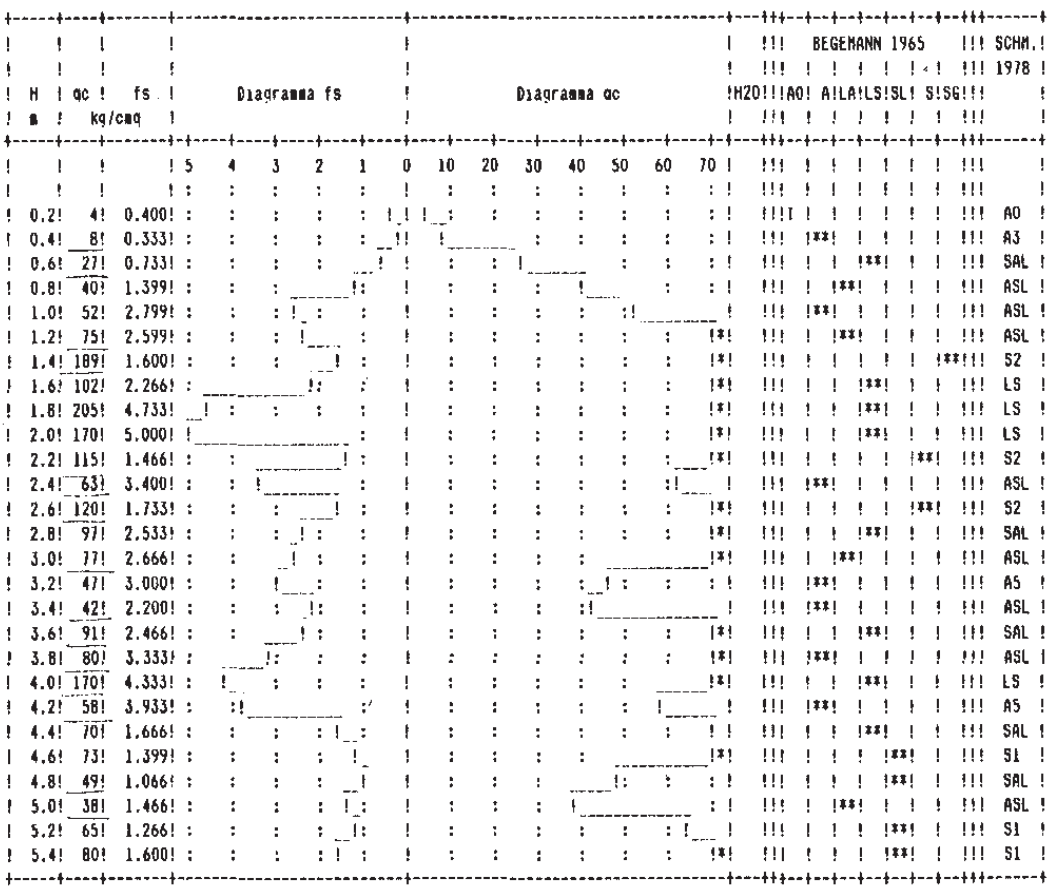
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

V DELLE S. MARIA A MONTE 21/12/89

PROVA N. 2 / 112 COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

17

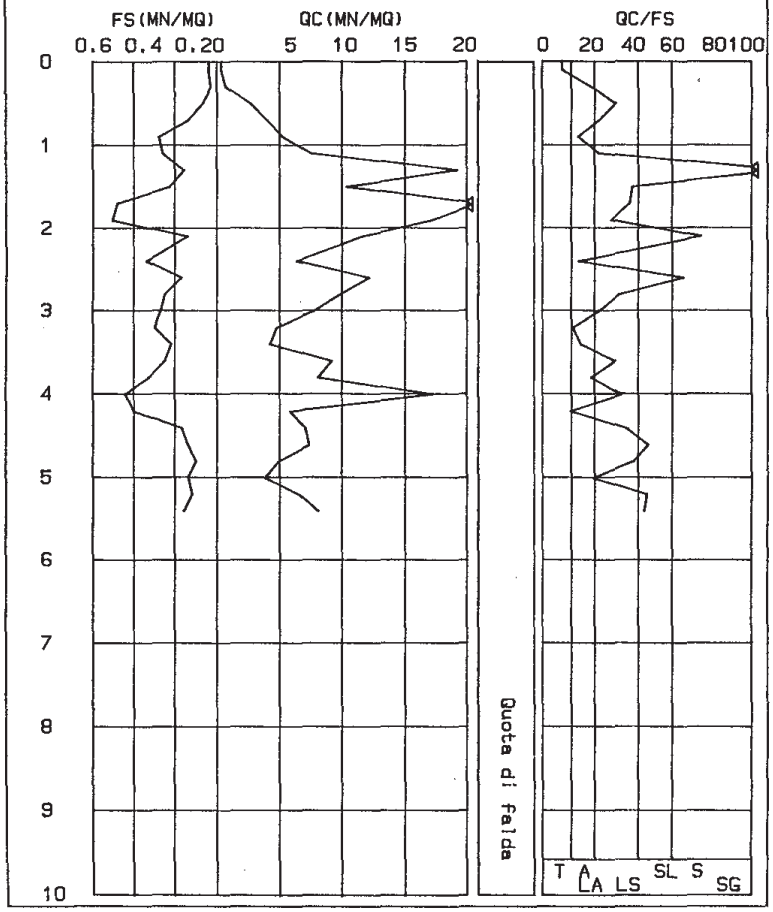


CPT (CONE PENETROMETER TEST)

Certif.n. 537-AA
del 31/01/1990

Picchetto n. A/2

Cantiere
AMPLIAMENTO DI FABBRICATO PER CIVILE ABITAZIONE
Committente



2300

PROVA PENETROMETRICA DINAMICA n. 1

Committente :**Sig.**

Località :**Via del Melone** Indagine Geognostica

Livello della falda :Non rilevata

da 0.00 a 4.40 (m.)

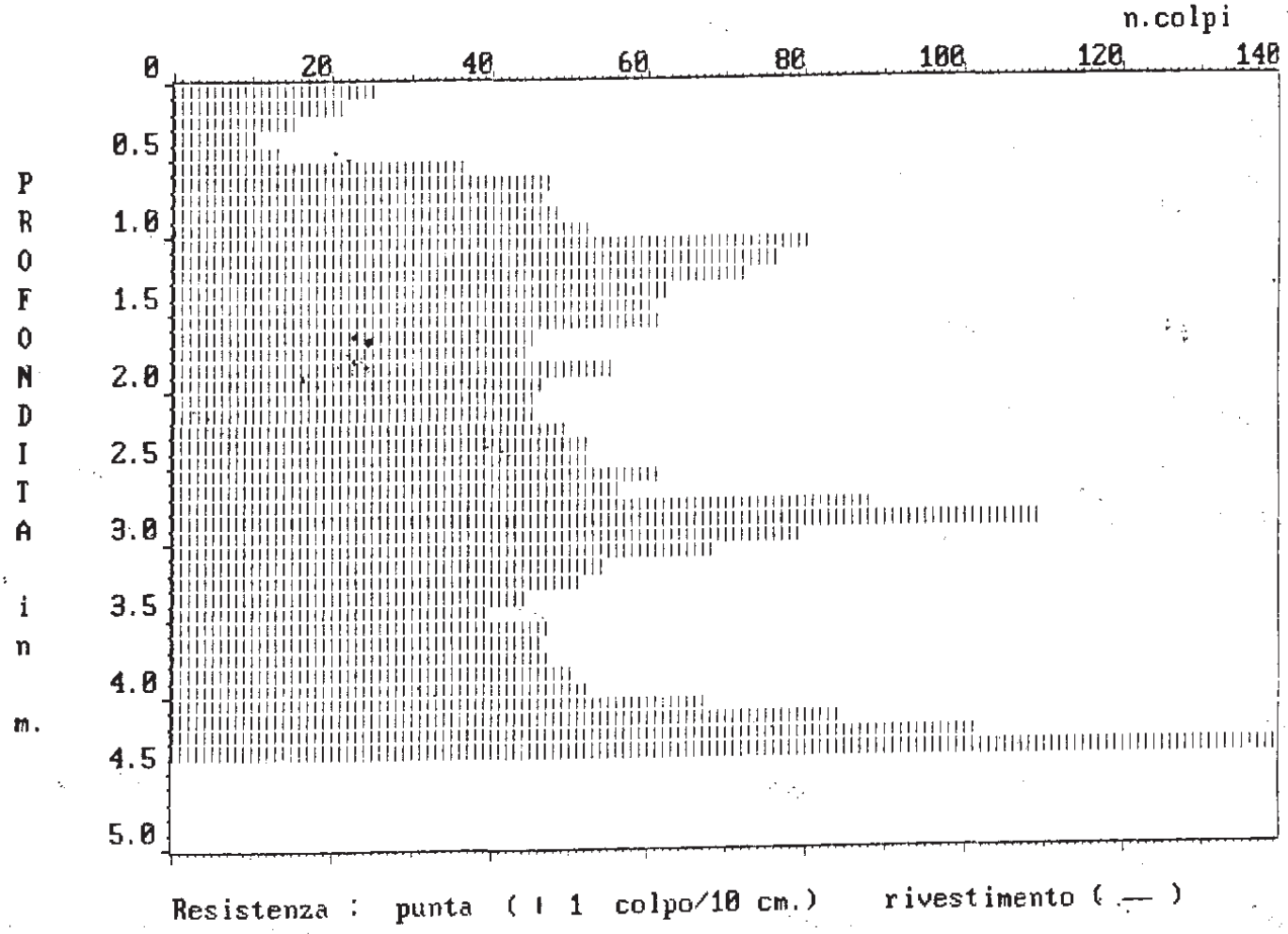
N. Archiviazione GEOCANTIERI : (84/01)

Resistenza alla punta

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	25	91	2.30	49	146
0.20	21	75	2.40	52	155
0.30	15	54	2.50	52	155
0.40	10	36	2.60	61	179
0.50	13	47	2.70	56	164
0.60	36	128	2.80	88	258
0.70	47	168	2.90	109	320
0.80	46	164	3.00	79	232
0.90	48	171	3.10	68	185
1.00	52	185	3.20	54	147
1.10	80	262	3.30	51	139
1.20	76	248	3.40	44	120
1.30	72	235	3.50	39	106
1.40	62	203	3.60	47	127
1.50	60	196	3.70	46	124
1.60	61	197	3.80	47	127
1.70	45	145	3.90	50	135
1.80	44	142	4.00	52	140
1.90	55	177	4.10	63	169
2.00	46	148	4.20	84	212
2.10	45	134	4.30	101	255
2.20	45	134	4.40	Rif.	Rif.

PROVA PENETROMETRICA [S.C.P.I.] N. 1

Sez. GEOTECNIC



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

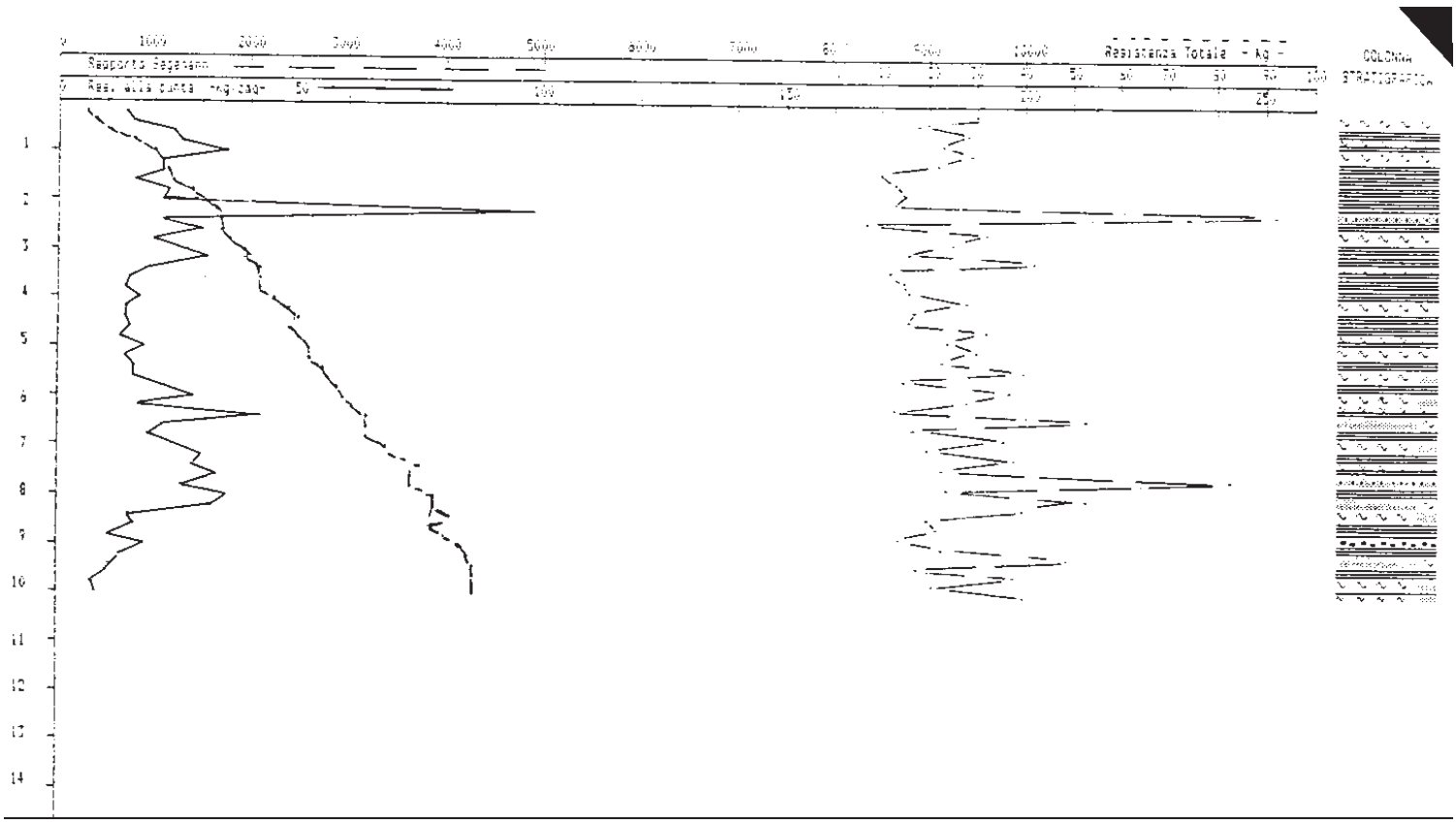
letture di campagna | valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
.2	140	210	300	70	.46	30	160			.56	18.4
.4	160	290	400	130	.86	18	240			.64	17.93
.6	240	370	550	130	.86	28	310			.96	16.94
.8	260	430	800	170	1.13	23	540			1.04	16.72
1	350	530	1000	180	1.2	29	650			1.4	15.42
1.2	220	370	1100	150	1	22	880			.88	17.15
1.4	220	560	1150	340	2.26	10	930			.88	17.15
1.6	160	350	1200	190	1.26	13	1040			.64	17.93
1.8	230	460	1400	230	1.53	15	1170			.92	17.04
2	220	470	2000	250	1.66	13	1780			.88	17.15
2.2	980	1140	1650	160	1.06	92	670	38	60		6.79
2.4	220	670	1700	450	3	7	1480			.88	17.15
2.6	300	440	1700	140	.93	32	1400			1.2	16.21
2.8	200	320	1800	120	.8	25	1600			.8	17.36
3	270	520	1950	250	1.66	16	1680			1.08	16.6
3.2	310	420	1950	110	.73	42	1640			1.24	16.06
3.4	190	420	2100	230	1.53	12	1910			.76	17.47
3.6	150	300	2100	150	1	15	1950			.6	18.14
3.8	140	270	2100	130	.86	16	1960			.56	18.4
4	170	260	2250	90	.6	28	2080			.68	17.75
4.2	140	260	2400	120	.8	17	2260			.56	18.4
4.4	140	270	2500	130	.86	16	2360			.56	18.4
4.6	150	220	2400	70	.46	32	2250			.6	18.14
4.8	130	210	2500	80	.53	24	2370			.52	18.72
5	180	270	2600	90	.6	30	2420			.72	17.6
5.2	140	230	2600	90	.6	23	2460			.56	18.4
5.4	160	220	2750	60	.4	40	2590			.64	17.93
5.6	160	320	2800	160	1.06	15	2640			.64	17.93
5.8	220	310	2900	90	.6	37	2680			.88	17.15
6	280	430	2950	150	1	28	2670			1.12	16.48
6.2	170	370	3050	200	1.33	13	2880			.68	17.75
6.4	420	540	3200	120	.8	53	2780	30	34		14.11
6.6	220	410	3200	190	1.26	17	2980			.88	17.15
6.8	190	270	3200	80	.53	36	3010			.76	17.47
7	240	420	3400	180	1.2	20	3160			.96	16.94
7.2	300	420	3450	120	.8	38	3150			1.2	16.21
7.4	280	460	3750	180	1.2	23	3470			1.12	16.48
7.6	330	390	3650	60	.4	83	3320	34	28		15.75
7.8	260	420	3650	160	1.06	24	3390			1.04	16.72
8	350	450	3900	100	.66	53	3550	30	29		15.42

letture di campagna | valori derivati

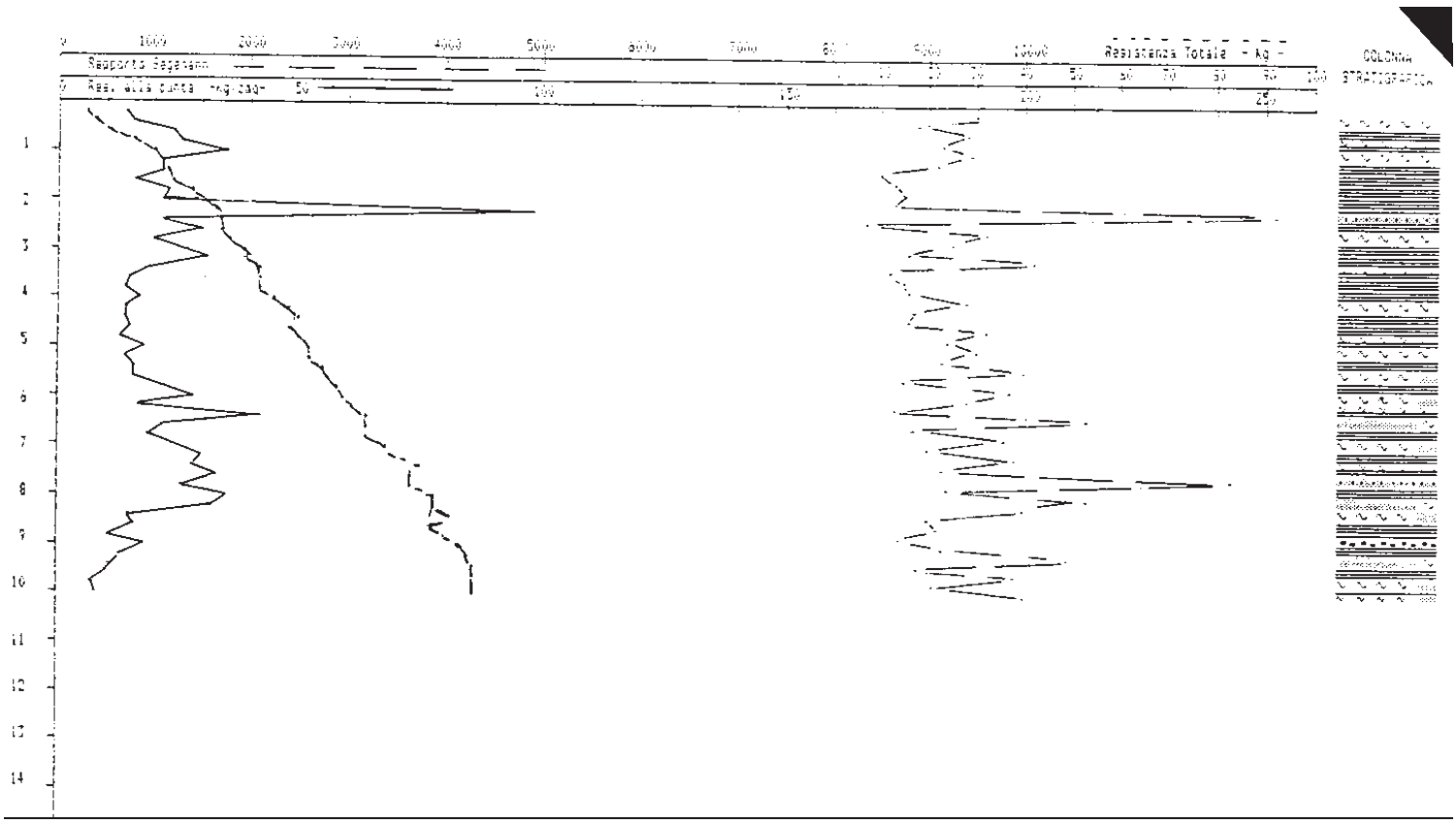
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
8.2	320	440	3900	120	.8	40	3580			1.28	15.91
8.4	150	260	4050	110	.73	20	3900			.6	18.14
8.6	160	270	3850	110	.73	22	3690			.64	17.93
8.8	110	230	4000	120	.8	14	3890			.44	19.64
9	180	300	4150	120	.8	23	3970			.72	17.6
9.2	130	170	4250	40	.26	49	4120	25	12		18.72
9.4	110	200	4300	90	.6	18	4190			.44	19.64
9.6	100	140	4300	40	.26	38	4200			.4	20.3
9.8	70	120	4300	50	.33	21	4230			.28	23.81
10	80	110	4300	30	.2	40	4220			.32	22.29

2301


Rapporto Begemann
Resistenza Totale - kg -
COLONNA STRATIGRAFICA

letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	140	210	300	70	.46	30	160			.56	18.4
.4	160	290	400	130	.86	18	240			.64	17.93
.6	240	370	550	130	.86	28	310			.96	16.94
.8	260	430	800	170	1.13	23	540			1.04	16.72
1	350	530	1000	180	1.2	29	650			1.4	15.42
1.2	220	370	1100	150	1	22	880			.88	17.15
1.4	220	560	1150	340	2.26	10	930			.88	17.15
1.6	160	350	1200	190	1.26	13	1040			.64	17.93
1.8	230	460	1400	230	1.53	15	1170			.92	17.04
2	220	470	2000	250	1.66	13	1780			.88	17.15
2.2	980	1140	1650	160	1.06	92	670	38	60		6.79
2.4	220	670	1700	450	3	7	1480			.88	17.15
2.6	300	440	1700	140	.93	32	1400			1.2	16.21
2.8	200	320	1800	120	.8	25	1600			.8	17.36
3	270	520	1950	250	1.66	16	1680			1.08	16.6
3.2	310	420	1950	110	.73	42	1640			1.24	16.06
3.4	190	420	2100	230	1.53	12	1910			.76	17.47
3.6	150	300	2100	150	1	15	1950			.6	18.14
3.8	140	270	2100	130	.86	16	1960			.56	18.4
4	170	260	2250	90	.6	28	2080			.68	17.75
4.2	140	260	2400	120	.8	17	2260			.56	18.4
4.4	140	270	2500	130	.86	16	2360			.56	18.4
4.6	150	220	2400	70	.46	32	2250			.6	18.14
4.8	130	210	2500	80	.53	24	2370			.52	18.72
5	180	270	2600	90	.6	30	2420			.72	17.6
5.2	140	230	2600	90	.6	23	2460			.56	18.4
5.4	160	220	2750	60	.4	40	2590			.64	17.93
5.6	160	320	2800	160	1.06	15	2640			.64	17.93
5.8	220	310	2900	90	.6	37	2680			.88	17.15
6	280	430	2950	150	1	28	2670			1.12	16.48
6.2	170	370	3050	200	1.33	13	2880			.68	17.75
6.4	420	540	3200	120	.8	53	2780	30	34		14.11
6.6	220	410	3200	190	1.26	17	2980			.88	17.15
6.8	190	270	3200	80	.53	36	3010			.76	17.47
7	240	420	3400	180	1.2	20	3160			.96	16.94
7.2	300	420	3450	120	.8	38	3150			1.2	16.21
7.4	280	460	3750	180	1.2	23	3470			1.12	16.48
7.6	330	390	3650	60	.4	83	3320	34	28		15.75
7.8	260	420	3650	160	1.06	24	3390			1.04	16.72
8	350	450	3900	100	.66	53	3550	30	29		15.42

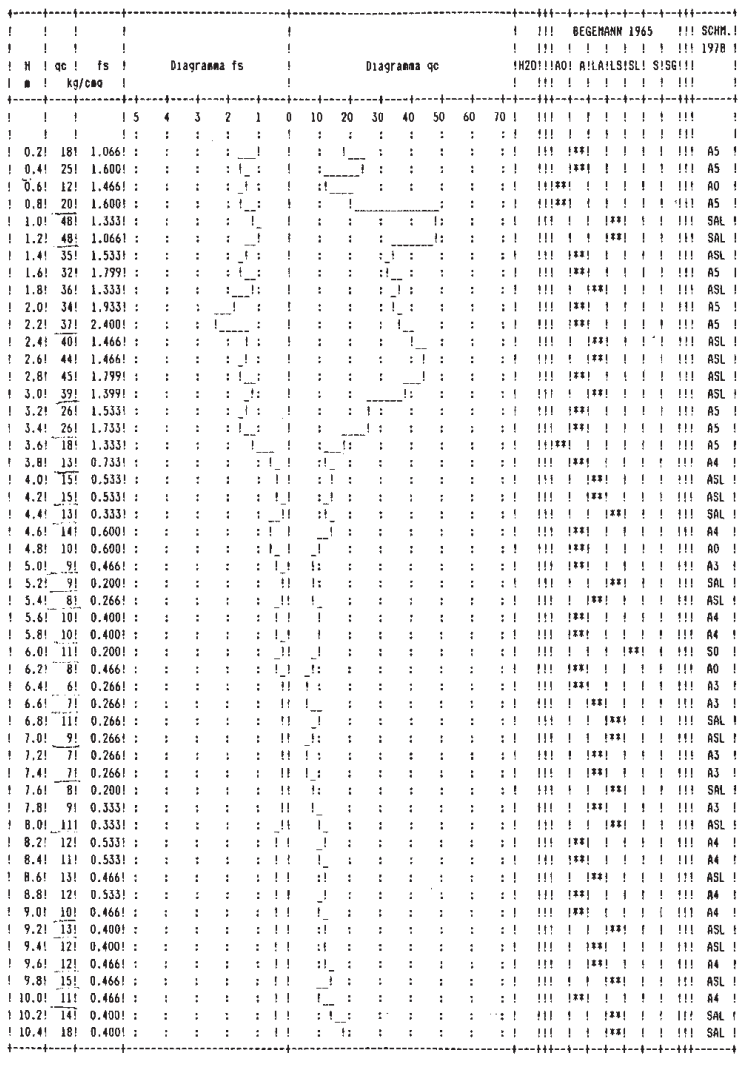
letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	320	440	3900	120	.8	40	3580			1.28	15.91
8.4	150	260	4050	110	.73	20	3900			.6	18.14
8.6	160	270	3850	110	.73	22	3690			.64	17.93
8.8	110	230	4000	120	.8	14	3890			.44	19.64
9	180	300	4150	120	.8	23	3970			.72	17.6
9.2	130	170	4250	40	.26	49	4120	25	12		18.72
9.4	110	200	4300	90	.6	18	4190			.44	19.64
9.6	100	140	4300	40	.26	38	4200			.4	20.3
9.8	70	120	4300	50	.33	21	4230			.28	23.81
10	80	110	4300	30	.2	40	4220			.32	22.29

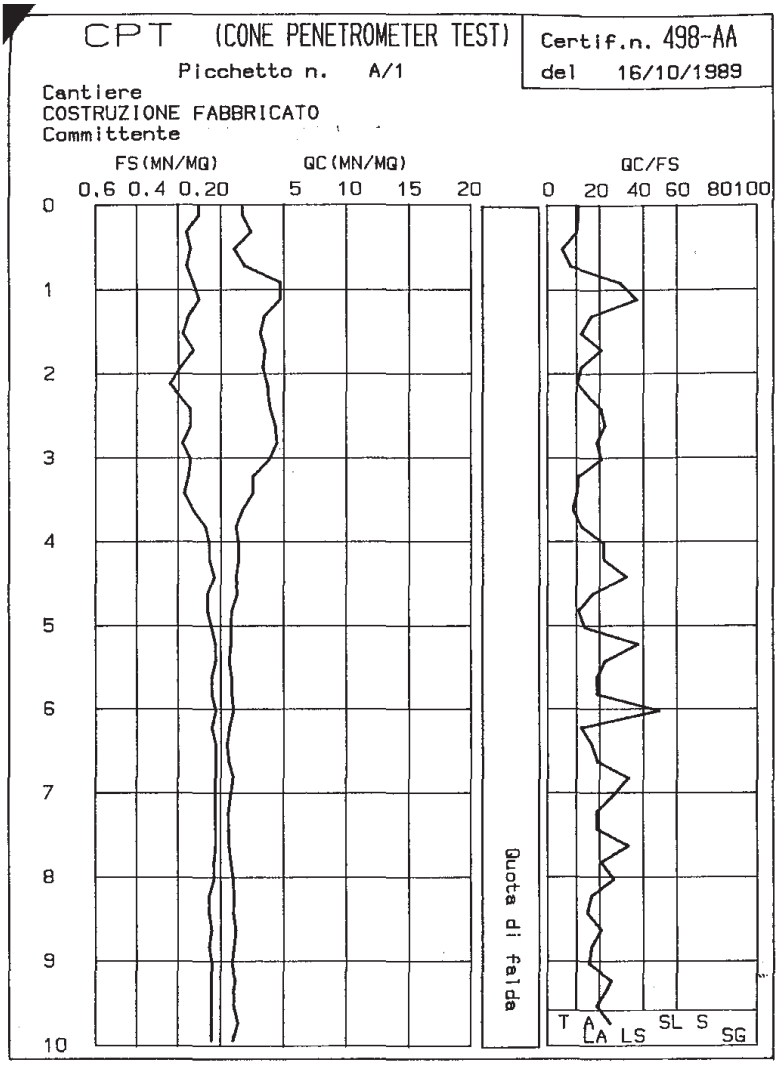

Rapporto Begemann
Resistenza Totale - kg -
COLONNA STRATIGRAFICA

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	18	34	1.07	16.82	10.00	11	18	0.47	23.40					
0.20	18	34	1.07	16.82	10.20	14	20	0.40	35.00					
0.40	25	49	1.60	15.63	10.40	18	24	0.40	45.00					
0.60	12	34	1.47	8.16										
0.80	20	44	1.60	12.50										
1.00	48	68	1.33	36.09										
1.20	48	64	1.07	44.86										
1.40	35	58	1.53	22.88										
1.60	32	59	1.80	17.78										
1.80	36	56	1.33	27.07										
2.00	34	63	1.93	17.62										
2.20	37	73	2.40	15.42										
2.40	40	62	1.47	27.21										
2.60	44	66	1.47	29.93										
2.80	45	72	1.80	25.00										
3.00	39	60	1.40	27.86										
3.20	26	49	1.53	16.99										
3.40	26	52	1.73	15.03										
3.60	18	38	1.33	13.53										
3.80	13	24	0.73	17.81										
4.00	15	23	0.53	28.30										
4.20	15	23	0.53	28.30										
4.40	13	18	0.33	39.39										
4.60	14	23	0.60	23.33										
4.80	10	19	0.60	16.67										
5.00	9	16	0.47	19.15										
5.20	9	12	0.20	45.00										
5.40	8	12	0.27	29.63										
5.60	10	16	0.40	25.00										
5.80	10	16	0.40	25.00										
6.00	11	14	0.20	55.00										
6.20	8	15	0.47	17.02										
6.40	6	10	0.27	22.22										
6.60	7	11	0.27	25.93										
6.80	11	15	0.27	40.74										
7.00	9	13	0.27	33.33										
7.20	7	11	0.27	25.93										
7.40	7	11	0.27	25.93										
7.60	8	11	0.20	40.00										
7.80	9	14	0.33	27.27										
8.00	11	16	0.33	33.33										
8.20	12	20	0.53	22.64										
8.40	11	19	0.53	20.75										
8.60	13	20	0.47	27.66										
8.80	12	20	0.53	22.64										
9.00	10	17	0.47	21.28										
9.20	13	19	0.40	32.50										
9.40	12	18	0.40	30.00										
9.60	12	19	0.47	25.53										
9.80	15	22	0.47	31.91										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

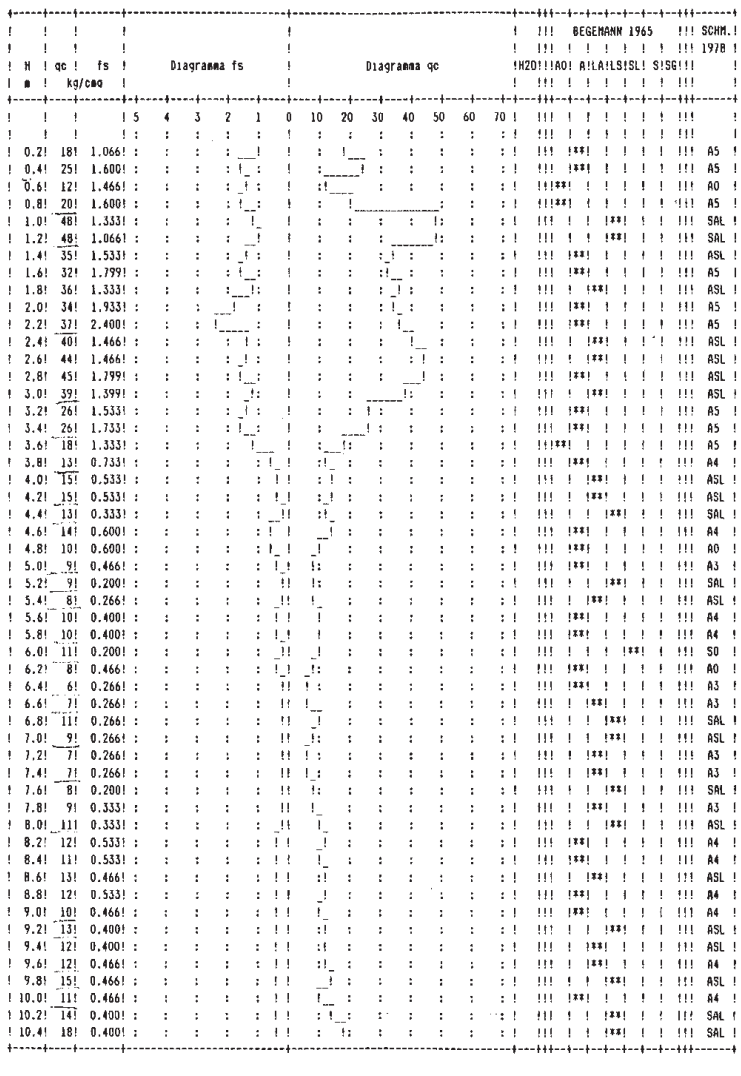


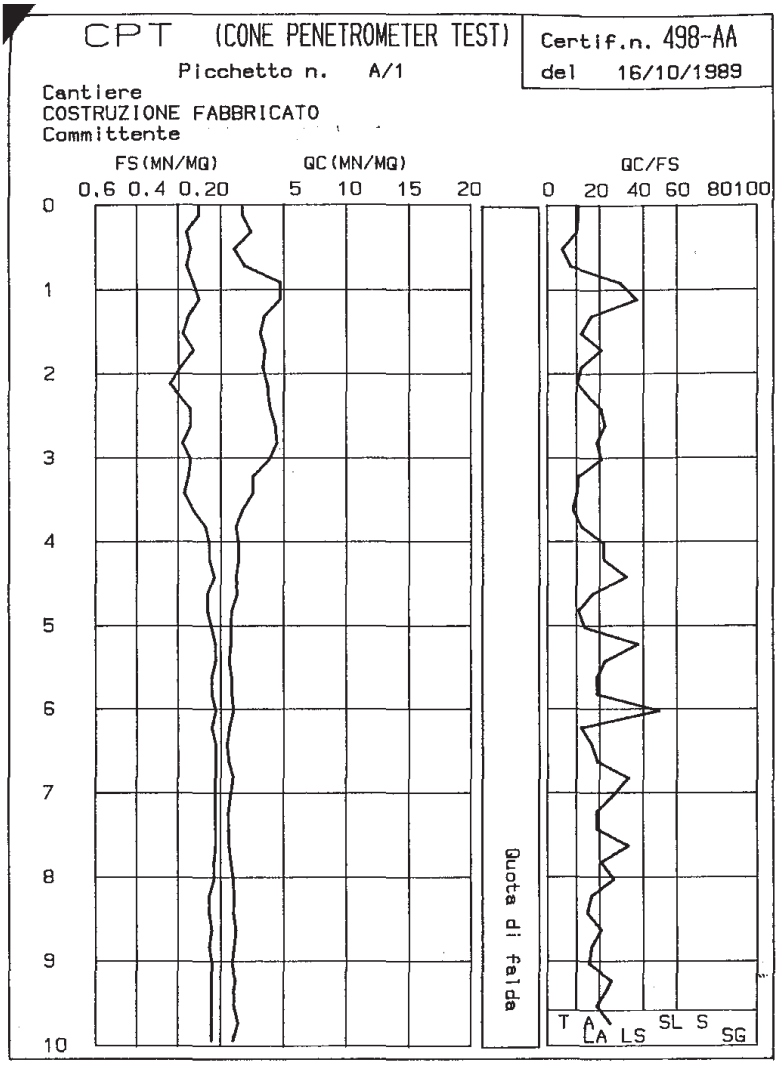

CPT (CONE PENETROMETER TEST)
Certif.n. 498-AA
del 16/10/1989
Picchetto n. A/1
Cantiere
COSTRUZIONE FABBRICATO
Committente
FS(MN/MQ)
0,6 0,4 0,2 0
QC(MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	18	34	1.07	16.82	10.00	11	18	0.47	23.40					
0.20	18	34	1.07	16.82	10.20	14	20	0.40	35.00					
0.40	25	49	1.60	15.63	10.40	18	24	0.40	45.00					
0.60	12	34	1.47	8.16										
0.80	20	44	1.60	12.50										
1.00	48	68	1.33	36.09										
1.20	48	64	1.07	44.86										
1.40	35	58	1.53	22.88										
1.60	32	59	1.80	17.78										
1.80	36	56	1.33	27.07										
2.00	34	63	1.93	17.62										
2.20	37	73	2.40	15.42										
2.40	40	62	1.47	27.21										
2.60	44	66	1.47	29.93										
2.80	45	72	1.80	25.00										
3.00	39	60	1.40	27.86										
3.20	26	49	1.53	16.99										
3.40	26	52	1.73	15.03										
3.60	18	38	1.33	13.53										
3.80	13	24	0.73	17.81										
4.00	15	23	0.53	28.30										
4.20	15	23	0.53	28.30										
4.40	13	18	0.33	39.39										
4.60	14	23	0.60	23.33										
4.80	10	19	0.60	16.67										
5.00	9	16	0.47	19.15										
5.20	9	12	0.20	45.00										
5.40	8	12	0.27	29.63										
5.60	10	16	0.40	25.00										
5.80	10	16	0.40	25.00										
6.00	11	14	0.20	55.00										
6.20	8	15	0.47	17.02										
6.40	6	10	0.27	22.22										
6.60	7	11	0.27	25.93										
6.80	11	15	0.27	40.74										
7.00	9	13	0.27	33.33										
7.20	7	11	0.27	25.93										
7.40	7	11	0.27	25.93										
7.60	8	11	0.20	40.00										
7.80	9	14	0.33	27.27										
8.00	11	16	0.33	33.33										
8.20	12	20	0.53	22.64										
8.40	11	19	0.53	20.75										
8.60	13	20	0.47	27.66										
8.80	12	20	0.53	22.64										
9.00	10	17	0.47	21.28										
9.20	13	19	0.40	32.50										
9.40	12	18	0.40	30.00										
9.60	12	19	0.47	25.53										
9.80	15	22	0.47	31.91										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO




CPT (CONE PENETROMETER TEST)
Certif.n. 498-AA
del 16/10/1989
Picchetto n. A/1
Cantiere
COSTRUZIONE FABBRICATO
Committente
FS(MN/MQ)
0,6 0.4 0.2
QC(MN/MQ)
0 5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T A LA LS SL S SG

CERTIFICATO N.RO : 499-AA CANTIERE :COSTRUZIONE FABBRICATO

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	20	32	0.80	25.00	10.00	20	35	1.00	20.00					
0.20	20	32	0.80	25.00	10.20	18	34	1.07	16.82					
0.40	12	25	0.87	13.79	10.40	18	31	0.87	20.69					
0.60	13	23	0.67	19.40										
0.80	13	21	0.53	24.53										
1.00	19	26	0.47	40.43										
1.20	14	29	1.00	14.00										
1.40	10	25	1.00	10.00										
1.60	12	20	0.53	22.64										
1.80	13	23	0.67	19.40										
2.00	11	24	0.87	12.64										
2.20	15	26	0.73	20.55										
2.40	13	25	0.80	16.25										
2.60	12	24	0.80	15.00										
2.80	12	23	0.73	16.44										
3.00	14	22	0.53	26.42										
3.20	14	22	0.53	26.42										
3.40	13	22	0.60	21.67										
3.60	12	22	0.67	17.91										
3.80	18	26	0.53	33.96										
4.00	17	29	0.80	21.25										
4.20	16	30	0.93	17.20										
4.40	10	23	0.87	11.49										
4.60	13	20	0.47	27.66										
4.80	10	17	0.47	21.28										
5.00	8	14	0.40	20.00										
5.20	8	13	0.33	24.24										
5.40	8	13	0.33	24.24										
5.60	10	14	0.27	37.04										
5.80	11	16	0.33	33.33										
6.00	12	18	0.40	30.00										
6.20	12	20	0.53	22.64										
6.40	14	23	0.60	23.33										
6.60	13	23	0.67	19.40										
6.80	12	21	0.60	20.00										
7.00	11	18	0.47	23.40										
7.20	15	22	0.47	31.91										
7.40	17	26	0.60	28.33										
7.60	15	26	0.73	20.55										
7.80	16	27	0.73	21.92										
8.00	15	26	0.73	20.55										
8.20	15	24	0.60	25.00										
8.40	11	21	0.67	16.42										
8.60	11	18	0.47	23.40										
8.80	10	17	0.47	21.28										
9.00	10	16	0.40	25.00										
9.20	12	19	0.47	25.53										
9.40	13	22	0.60	21.67										
9.60	14	25	0.73	19.18										
9.80	20	33	0.87	22.99										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
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S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

PROVA N. 2 / 103 COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

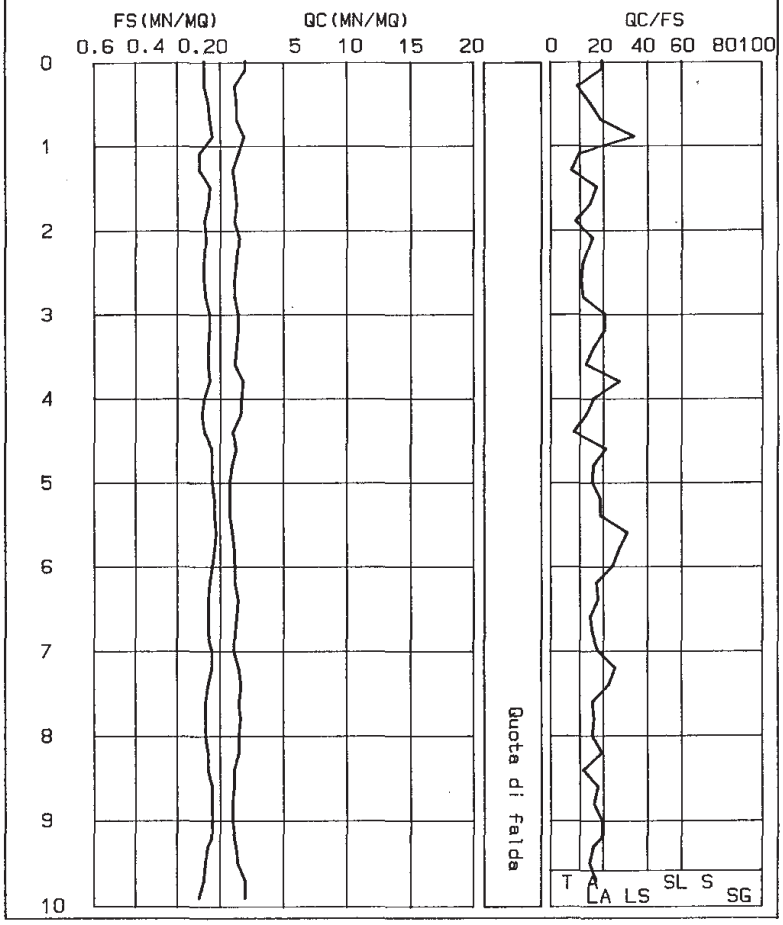
H m	qc kg/cmq	fs	Diagramma fs 5 4 3 2 1	Diagramma qc 0 10 20 30 40 50 60 70	BEGEMANN 1965 HZO	AO	LA	LS	SL	S	SG	SCHM. 1978
0.2	20	0.800										ASL
0.4	12	0.866										AO
0.6	13	0.666										A4
0.8	13	0.533										A4
1.0	19	0.466										SAL
1.2	14	1.000										AO
1.4	10	1.000										AO
1.6	12	0.533										A4
1.8	13	0.666										A4
2.0	11	0.866										AO
2.2	15	0.733										A4
2.4	13	0.800										A4
2.6	12	0.800										AO
2.8	12	0.733										A4
3.0	14	0.533										ASL
3.2	14	0.533										ASL
3.4	13	0.600										A4
3.6	12	0.666										A4
3.8	18	0.533										SAL
4.0	17	0.800										A4
4.2	16	0.933										A4
4.4	10	0.866										AO
4.6	13	0.466										ASL
4.8	10	0.466										A4
5.0	8	0.400										A3
5.2	8	0.333										A3
5.4	8	0.333										A3
5.6	10	0.266										SAL
5.8	11	0.333										ASL
6.0	12	0.400										ASL
6.2	12	0.533										A4
6.4	14	0.600										A4
6.6	13	0.666										A4
6.8	12	0.600										A4
7.0	11	0.466										A4
7.2	15	0.466										ASL
7.4	17	0.600										ASL
7.6	15	0.733										A4
7.8	16	0.733										A4
8.0	15	0.733										A4
8.2	15	0.600										A4
8.4	11	0.666										AO
8.6	11	0.466										A4
8.8	10	0.466										A4
9.0	10	0.400										A4
9.2	12	0.466										A4
9.4	13	0.600										A4
9.6	14	0.733										A4
9.8	20	0.866										A4
10.0	20	1.000										A5
10.2	18	1.066										A5
10.4	18	0.866										A4

CPT (CONE PENETROMETER TEST)

Certif.n. 499-AA
del 16/10/1989

Picchetto n. A/2

Cantiere
COSTRUZIONE FABBRICATO
Committente



CERTIFICATO N.RO : 499-AA CANTIERE :COSTRUZIONE FABBRICATO

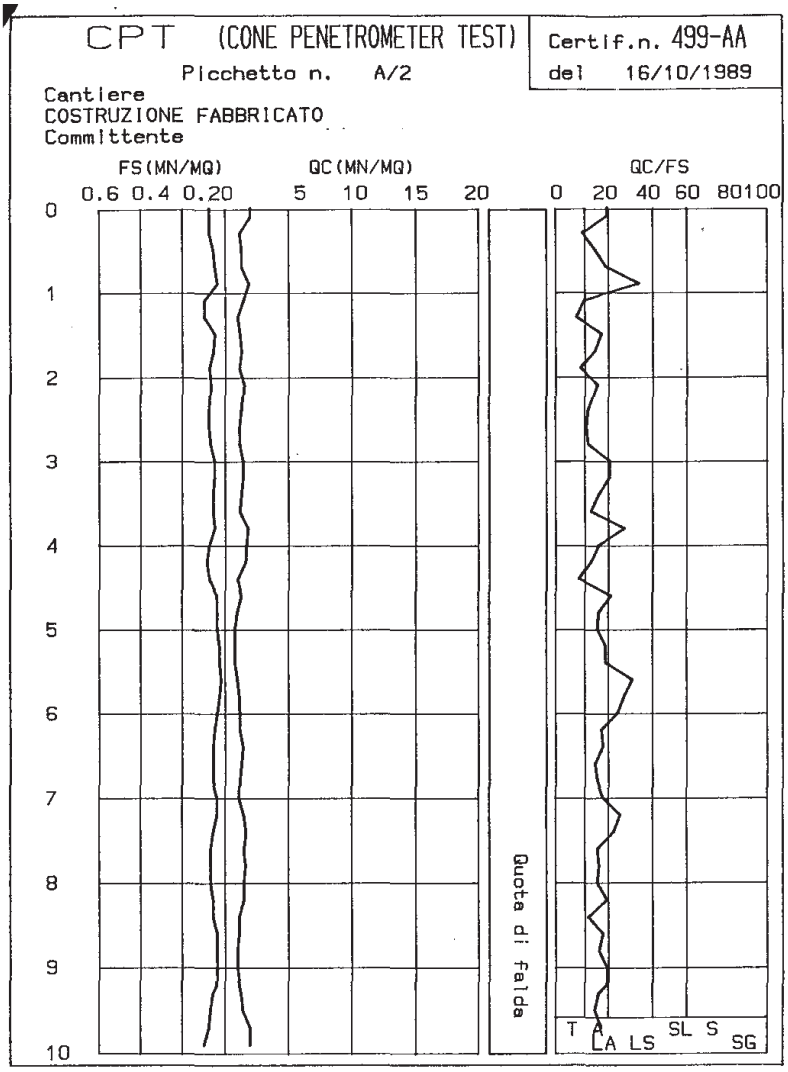
PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	20	32	0.80	25.00	10.00	20	35	1.00	20.00					
0.20	20	32	0.80	25.00	10.20	18	34	1.07	16.82					
0.40	12	25	0.87	13.79	10.40	18	31	0.87	20.69					
0.60	13	23	0.67	19.40										
0.80	13	21	0.53	24.53										
1.00	19	26	0.47	40.43										
1.20	14	29	1.00	14.00										
1.40	10	25	1.00	10.00										
1.60	12	20	0.53	22.64										
1.80	13	23	0.67	19.40										
2.00	11	24	0.87	12.64										
2.20	15	26	0.73	20.55										
2.40	13	25	0.80	16.25										
2.60	12	24	0.80	15.00										
2.80	12	23	0.73	16.44										
3.00	14	22	0.53	26.42										
3.20	14	22	0.53	26.42										
3.40	13	22	0.60	21.67										
3.60	12	22	0.67	17.91										
3.80	18	26	0.53	33.96										
4.00	17	29	0.80	21.25										
4.20	16	30	0.93	17.20										
4.40	10	23	0.87	11.49										
4.60	13	20	0.47	27.66										
4.80	10	17	0.47	21.28										
5.00	8	14	0.40	20.00										
5.20	8	13	0.33	24.24										
5.40	8	13	0.33	24.24										
5.60	10	14	0.27	37.04										
5.80	11	16	0.33	33.33										
6.00	12	18	0.40	30.00										
6.20	12	20	0.53	22.64										
6.40	14	23	0.60	23.33										
6.60	13	23	0.67	19.40										
6.80	12	21	0.60	20.00										
7.00	11	18	0.47	23.40										
7.20	15	22	0.47	31.91										
7.40	17	26	0.60	28.33										
7.60	15	26	0.73	20.55										
7.80	16	27	0.73	21.92										
8.00	15	26	0.73	20.55										
8.20	15	24	0.60	25.00										
8.40	11	21	0.67	16.42										
8.60	11	18	0.47	23.40										
8.80	10	17	0.47	21.28										
9.00	10	16	0.40	25.00										
9.20	12	19	0.47	25.53										
9.40	13	22	0.60	21.67										
9.60	14	25	0.73	19.18										
9.80	20	33	0.87	22.99										

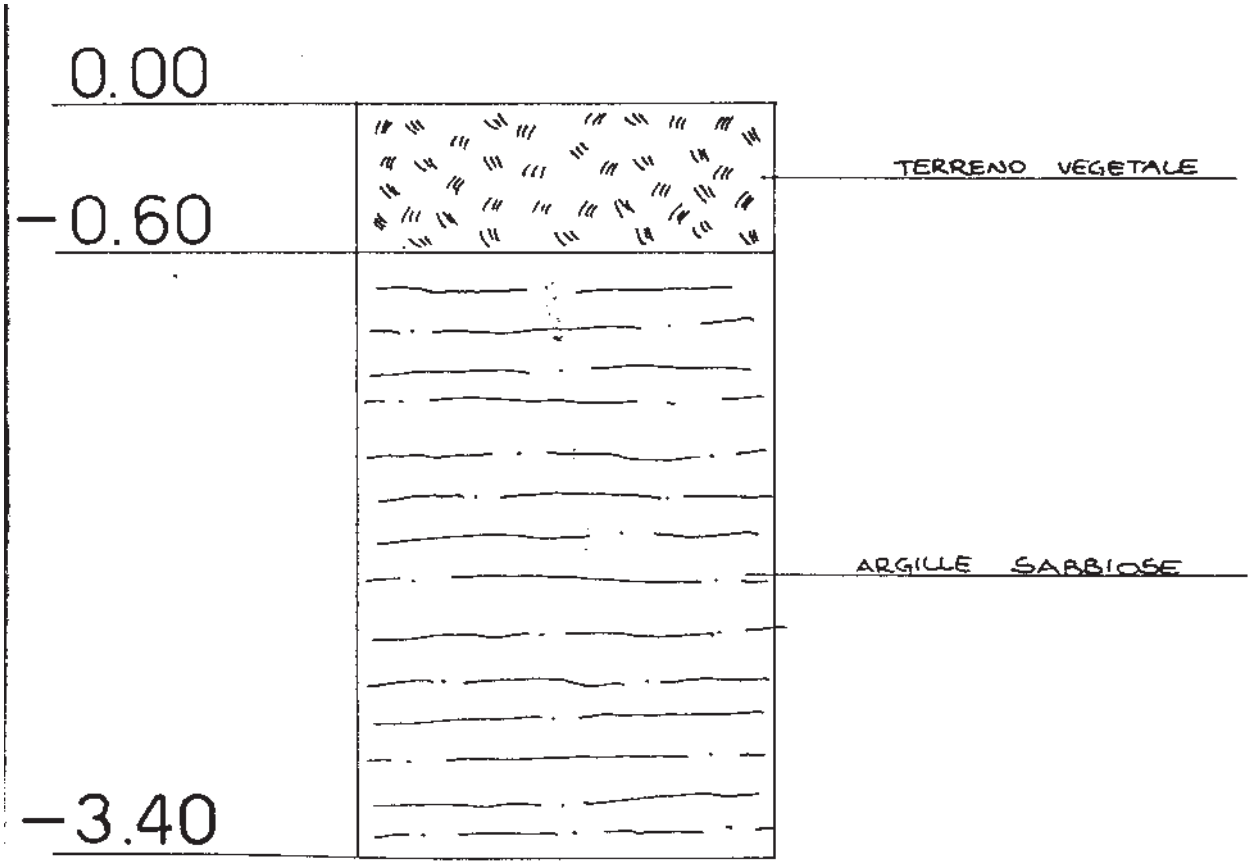
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

PROVA N. 2 / 103 COSTRUZIONE DIAGRAMMA qc.fs - STIMA LITOLOGICA

H m	qc kg/cmq	fs kg/cmq	Diagramma fs 5 4 3 2 1 0	Diagramma qc 10 20 30 40 50 60 70	BEGEMANN 1965 HZO AO AI LA LS SL S SG	SCHM. 1978
0.2	20	0.800				ASL
0.4	12	0.866				AO
0.6	13	0.666				A4
0.8	13	0.533				A4
1.0	19	0.466				SAL
1.2	14	1.000				AO
1.4	10	1.000				AO
1.6	12	0.533				A4
1.8	13	0.666				A4
2.0	11	0.866				AO
2.2	15	0.733				A4
2.4	13	0.800				A4
2.6	12	0.800				AO
2.8	12	0.733				A4
3.0	14	0.533				ASL
3.2	14	0.533				ASL
3.4	13	0.600				A4
3.6	12	0.666				A4
3.8	18	0.533				SAL
4.0	17	0.800				A4
4.2	16	0.933				A4
4.4	10	0.866				AO
4.6	13	0.466				ASL
4.8	10	0.466				A4
5.0	8	0.400				A3
5.2	8	0.333				A3
5.4	8	0.333				A3
5.6	10	0.266				SAL
5.8	11	0.333				ASL
6.0	12	0.400				ASL
6.2	12	0.533				A4
6.4	14	0.600				A4
6.6	13	0.666				A4
6.8	12	0.600				A4
7.0	11	0.466				A4
7.2	15	0.466				ASL
7.4	17	0.600				ASL
7.6	15	0.733				A4
7.8	16	0.733				A4
8.0	15	0.733				A4
8.2	15	0.600				A4
8.4	11	0.666				AO
8.6	11	0.466				A4
8.8	10	0.466				A4
9.0	10	0.400				A4
9.2	12	0.466				A4
9.4	13	0.600				A4
9.6	14	0.733				A4
9.8	20	0.866				A4
10.0	20	1.000				A5
10.2	18	1.066				A5
10.4	18	0.866				A4


CPT (CONE PENETROMETER TEST)
Certif.n. 499-AA
del 16/10/1989
Picchetto n. A/2
Cantiere
COSTRUZIONE FABBRICATO
Committente
FS(MN/MQ)
0.6 0.4 0.20
QC(MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T A
LA LS
SL S
SG



Sond.	
Camp.	N°1
Posiz. Prel.	-2,00m
Peso Spec.	2,05 kg/dm³
Fraz. Int.	
Prova Penetr.	
E.L.L.	kg/cm²

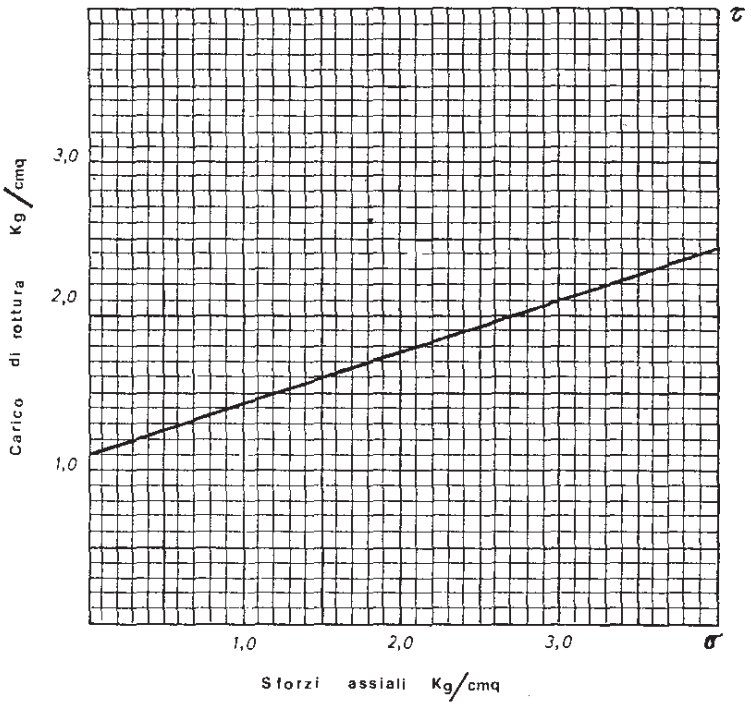
Densita'	τ	σ	U%
Assestam.	1,43	1	
	1,73	2	
	2,14	3	

φ 18°

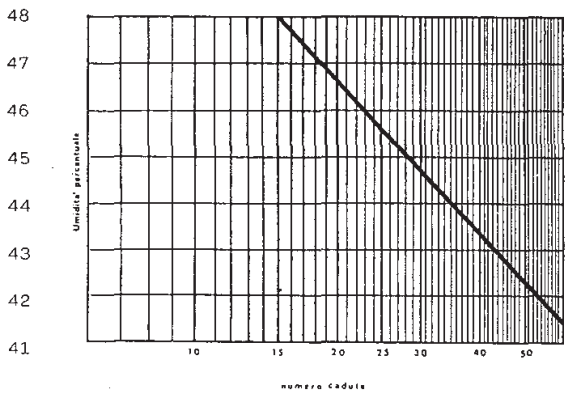
c 1,1 Kg/cm²

U% 20%

Condizioni di prova: Taglio rapido non drenato non consolidato. Velocità di prova 1,27 mm/min.



LIMITE DI LIQUIDITA'



GEOCONTROL
Sez. GEOTECNICA

CAMPIONE N°1 -2,00m

PESO SPECIFICO : 2,05 Kg/dm³

LIMITE DI LIQUIDITA' Ll : 46%

UMIDITA' NATURALE Un : 20%

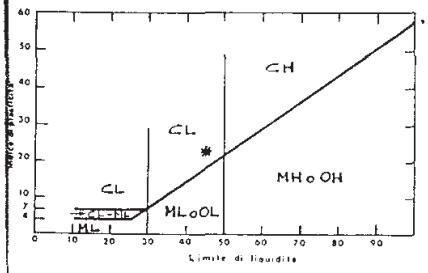
LIMITE DI PLASTICITA' Lp : 23%

INDICE DI CONSISTENZA Ic : $\frac{Ll-Un}{Ip}$: 1,13

INDICE DI PLASTICITA' Ip : 23

LIMITE DI RITIRO Lr :

CARTA DI PLASTICITA'



ML - Limi inorganici e sabbie molto fini. Polvere di roccia. Sabbie fini limose o argillose a bassa plasticità.

CL - Argille inorganiche di bassa o media plasticità. Argille ghiaiose, sabbiose, limose, argille magre.

OL - Limi organici. Limi-argille organiche a bassa plasticità.

MH - Limi inorganici, sabbie fini o limi micacei o con materiale diatomaceo. Limi elastici.

CH - Argille inorganiche ad alta plasticità. Argille grasse.

OH - Argille organiche di media ed alta plasticità.

Classificazione adattata dal Bureau of reclamation

Sond.	
Camp.	N°2
Posiz. Prel.	-3,00m
Peso Spec.	2,08 kg/dm³
Freaz. Int.	
Prova Penetr.	
E.L.L.	kg/cm²

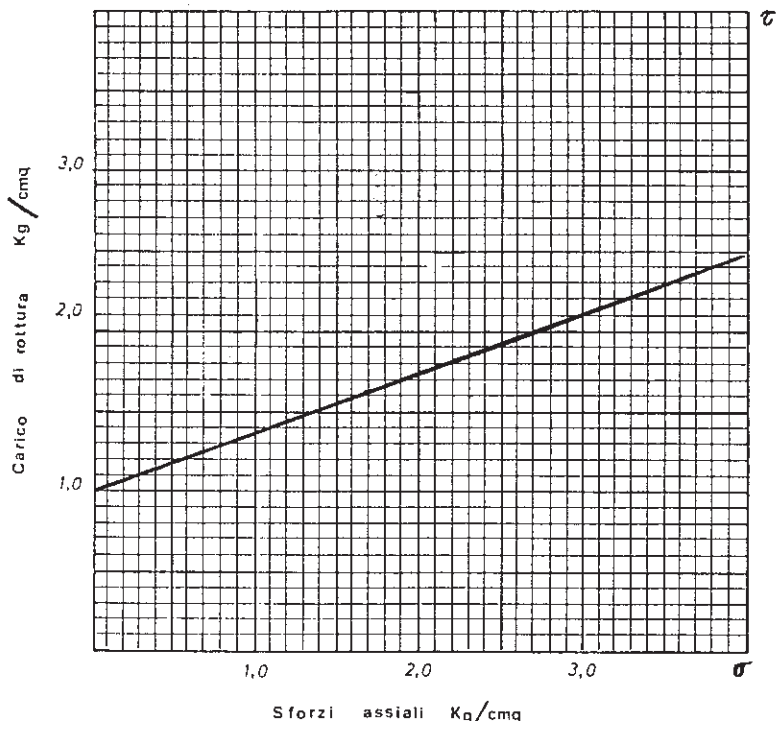
Densita'	τ	σ	u%
Assestam.	1,40	1	
	1,76	2	
	2,08	3	

φ 20°

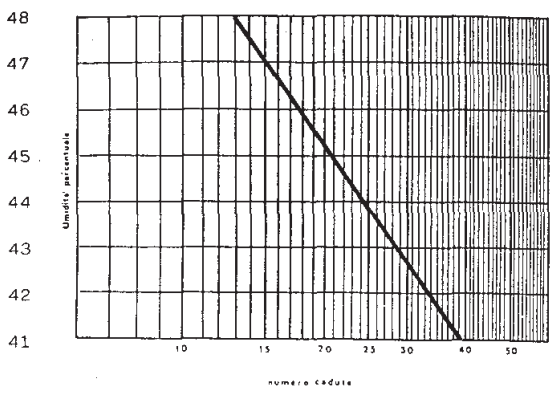
c 1 Kg/cm²

u% 17%

Condizioni di prova Taglio rapido non drenato non consolidato. Velocità di prova 1,27 mm/min.



LIMITE DI LIQUIDITA'



GEOCANTIERI
Sez. GEOTECNICA

CAMPIONE N°2 -3,00m

PESO SPECIFICO s 2,08 Kg/dm³

LIMITE DI LIQUIDITA' Ll = 44%

UMIDITA' NATURALE Un = 17%

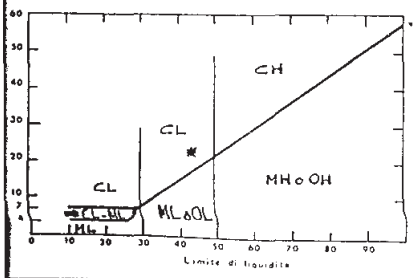
LIMITE DI PLASTICITA' Lp = 21%

INDICE DI CONSISTENZA $C_c = \frac{Ll - Un}{Ip} = 1,17$

INDICE DI PLASTICITA' Ip = 23

LIMITE DI RITIRO Lr =

CARTA DI PLASTICITA'



ML - Limi inorganici e sabbie molto fini. Polvere di roccia. Sabbie fini limose e argillose a bassa plasticita'

*CL - Argille inorganiche di bassa e media plasticita'. Argille ghiaiose, sabbiose, limose, argille magre

OL - Limi organici. Limi-argille organici a bassa plasticita'

MH - Limi inorganici, sabbie fini e limi micacei o con materiale diatomaceo. Limi elastici

CH - Argille inorganiche ad alta plasticita'. Argille grasse.

OH - Argille organiche di media ed alta plasticita'.

Classificazione adottata dal Bureau of reclamation

letture di campagna

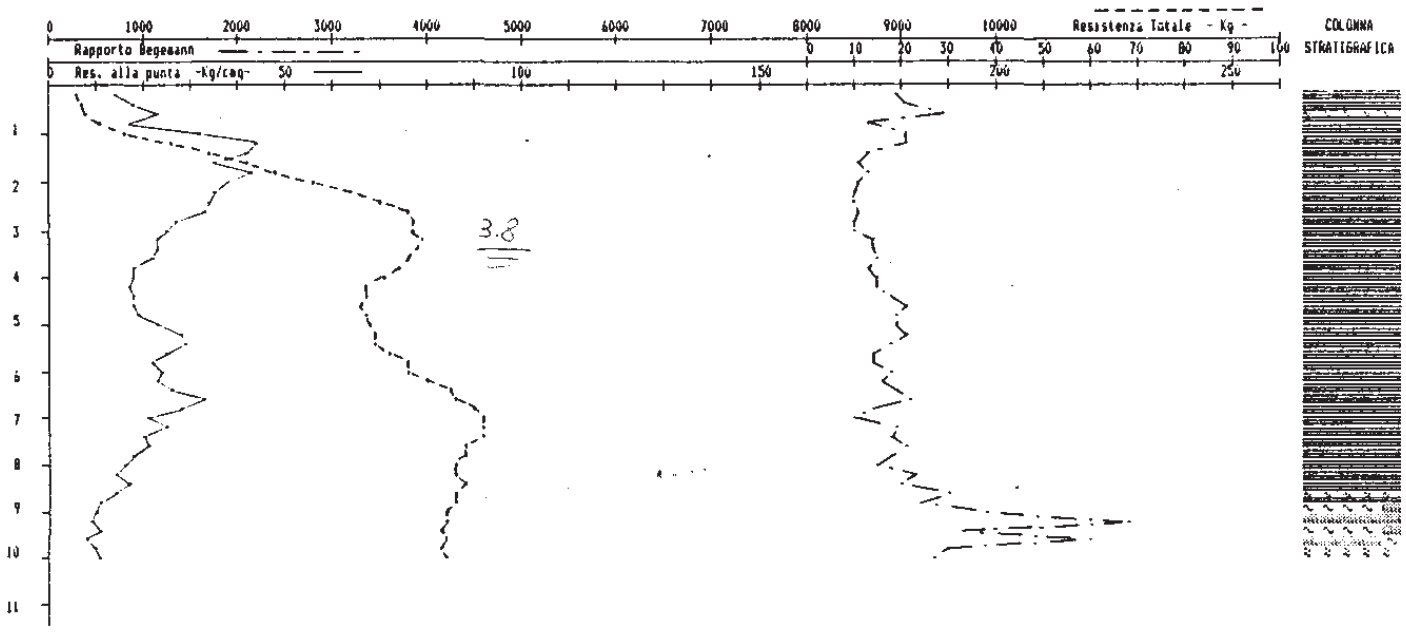
valori derivati

PROFONDITA' [metri]	Rpt [kg]	Rat [kg]	Rt [kg]	Rat-Rpt [kg]	Ral [kg/cmq]	Rp/Ral	Rt-Rpt [kg]	Fi [gradi]	Dr [%]	Cu [kg/cmq]	qv [cmq/t]
.2	140	250	300	110	.73	19	160			.56	18.4
.4	180	310	350	130	.86	21	170			.72	17.6
.6	230	350	400	120	.8	29	170			.92	17.04
.8	170	370	550	200	1.33	13	380			.68	17.75
1	320	550	860	230	1.53	21	480			1.28	15.91
1.2	440	760	1300	320	2.13	21	860			1.76	13.72
1.4	420	910	1700	490	3.26	13	1280			1.68	14.11
1.6	350	830	2100	480	3.2	11	1750			1.4	15.42
1.8	430	930	2400	500	3.33	13	1970			1.72	13.92
2	380	880	2800	500	3.33	11	2420			1.52	14.87
2.2	350	890	3200	540	3.6	10	2850			1.4	15.42
2.4	340	870	3500	530	3.53	10	3160			1.36	15.59
2.6	330	770	3800	440	2.93	11	3470			1.32	15.75
2.8	270	680	3850	410	2.73	10	3580			1.08	16.6
3	250	620	3850	370	2.46	10	3600			1	16.83
3.2	230	480	3950	250	1.66	14	3720			.92	17.04
3.4	230	470	3900	240	1.6	14	3670			.92	17.04
3.6	220	440	3800	220	1.46	15	3580			.88	17.15
3.8	180	380	3700	200	1.33	13	3520			.72	17.6
4	180	360	3550	180	1.2	15	3370			.72	17.6
4.2	170	340	3350	170	1.13	15	3180			.68	17.75
4.4	180	330	3350	150	1	18	3170			.72	17.6
4.6	180	310	3300	130	.86	21	3120			.72	17.6
4.8	190	340	3350	150	1	19	3160			.76	17.47
5	230	410	3400	180	1.2	19	3170			.92	17.04
5.2	280	480	3450	200	1.33	21	3170			1.12	16.48
5.4	290	530	3450	240	1.6	18	3160			1.16	16.35
5.6	250	510	3600	260	1.73	14	3350			1	16.83
5.8	220	450	3800	230	1.53	14	3580			.88	17.15
6	240	440	3800	200	1.33	18	3560			.96	16.94
6.2	230	450	4000	220	1.46	16	3770			.92	17.04
6.4	260	460	4250	200	1.33	19	3990			1.04	16.72
6.6	330	560	4300	230	1.53	22	3970			1.32	15.75
6.8	280	570	4500	290	1.93	14	4220			1.12	16.48
7	210	520	4600	310	2.06	10	4390			.84	17.25
7.2	250	450	4600	200	1.33	19	4350			1	16.83
7.4	200	370	4600	170	1.13	18	4400			.8	17.26
7.6	210	360	4400	150	1	21	4190			.84	17.25
7.8	180	330	4400	150	1	18	4220			.72	17.6
8	160	320	4300	160	1.06	15	4140			.64	17.93

letture di campagna

valori derivati

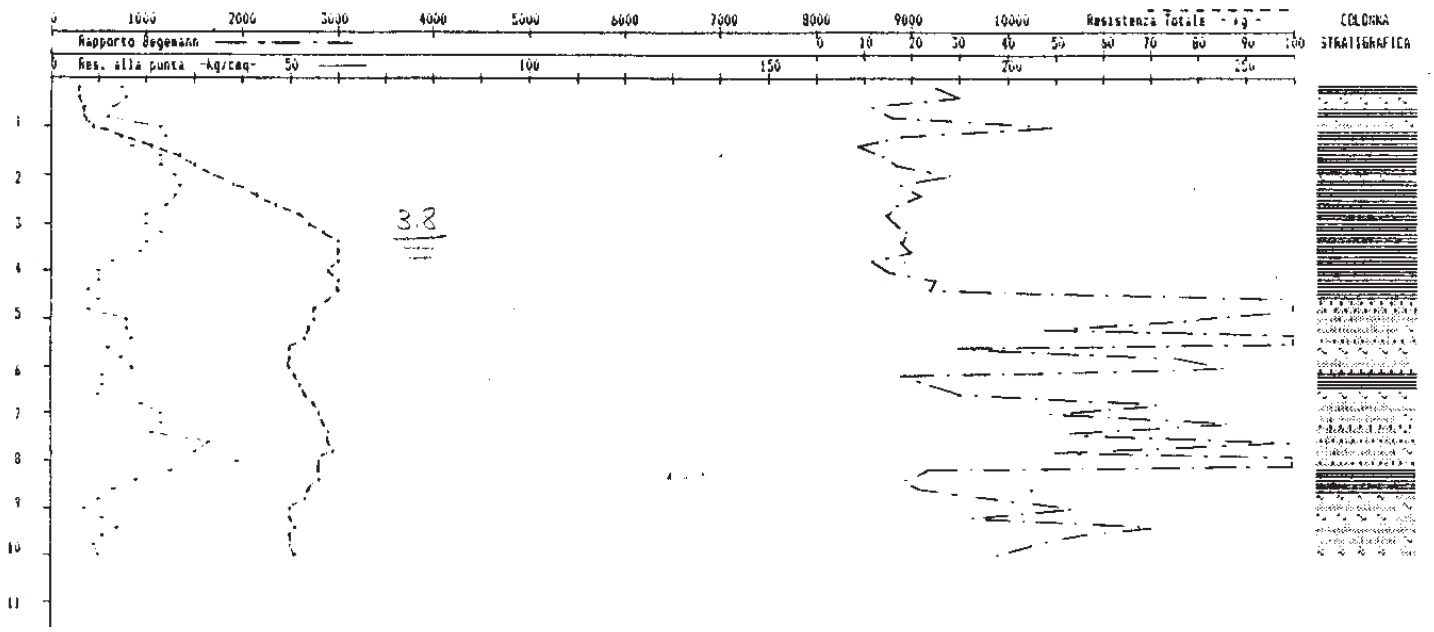
PROFONDITA' [metri]	Rpt [kg]	Rat [kg]	Rt [kg]	Rat-Rpt [kg]	Ral [kg/cmq]	Rp/Ral	Rt-Rpt [kg]	Fi [gradi]	Dr [%]	Cu [kg/cmq]	qv [cmq/t]
8.2	140	230	4300	90	.6	23	4160			.56	18.4
8.4	170	300	4400	130	.86	20	4230			.68	17.75
8.6	140	210	4300	70	.46	30	4160			.56	18.4
8.8	110	180	4300	70	.46	24	4190			.44	19.64
9	100	140	4200	40	.26	38	4100			.4	20.3
9.2	90	110	4200	20	.13	68	4110	27	9		21.16
9.4	110	160	4150	50	.33	33	4040			.44	19.64
9.6	80	100	4200	20	.13	60	4120	25	8		22.29
9.8	100	150	4150	50	.33	30	4050			.4	20.3
10	110	170	4200	60	.4	27	4090			.44	19.64


0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza Totale - Kg -
Rapporto Begemann
0
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
50
100
150
200
250
COLONNA
STRATIGRAFICA
1
2
3
4
5
6
7
8
9
10
11
3.8

2317

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [kg/cmq]	av [cmq/t]
.2	150	240	300	90	.6	25	150			.6	18.14
.4	160	240	300	80	.53	30	140			.64	17.93
.6	130	290	350	160	1.06	12	220			.52	18.72
.8	120	230	350	110	.73	16	230			.48	19.13
1	230	300	450	70	.46	49	220	27	20		17.04
1.2	240	440	750	200	1.33	18	510			.96	16.94
1.4	170	440	1050	270	1.8	9	880			.68	17.75
1.6	230	480	1350	250	1.66	14	1120			.92	17.04
1.8	230	430	1500	200	1.33	17	1270			.92	17.04
2	260	400	1700	140	.93	28	1440			1.04	16.72
2.2	270	500	1900	230	1.53	18	1630			1.08	16.6
2.4	260	440	2150	180	1.2	22	1890			1.04	16.72
2.6	240	450	2350	210	1.4	17	2110			.96	16.94
2.8	200	400	2600	200	1.33	15	2400			.8	17.36
3	200	380	2700	180	1.2	17	2500			.8	17.36
3.2	230	410	2850	180	1.2	19	2620			.92	17.04
3.4	200	370	3000	170	1.13	18	2800			.8	17.36
3.6	190	330	3000	140	.93	20	2810			.76	17.47
3.8	130	290	3000	160	1.06	12	2870			.52	18.72
4	100	200	2900	100	.66	15	2800			.4	20.3
4.2	100	160	3000	60	.4	25	2900			.4	20.3
4.4	80	130	3000	50	.33	24	2920			.32	22.29
4.6	100	110	2900	10	.06	150	2800	30	9		20.3
4.8	80	90	2750	10	.06	120	2670	30	8		22.29
5	160	190	2750	30	.2	80	2590	27	15		17.93
5.2	160	210	2700	50	.33	48	2540	25	15		17.93
5.4	170	190	2650	20	.13	128	2480	30	15		17.75
5.6	120	180	2500	60	.4	30	2380			.48	19.13
5.8	150	180	2500	30	.2	75	2350	27	14		18.14
6	170	200	2500	30	.2	85	2330	30	15		17.75
6.2	110	200	2550	90	.6	18	2440			.44	19.64
6.4	110	180	2600	70	.46	24	2490			.44	19.64
6.6	100	150	2650	50	.33	30	2550			.4	20.3
6.8	190	230	2750	40	.26	74	2560	28	17		17.47
7	230	300	2800	70	.46	49	2570	27	20		17.04
7.2	230	270	2850	40	.26	86	2620	32	20		17.04
7.4	210	270	2900	60	.4	53	2690	27	19		17.25
7.6	330	380	2900	50	.33	99	2570	34	28		15.75
7.8	300	390	2950	90	.6	50	2650	29	26		16.21
8	390	440	2800	50	.33	117	2410	34	32		14.69

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [kg/cmq]	av [cmq/t]
8.2	250	410	2800	160	1.06	23	2550			1	16.83
8.4	180	320	2800	140	.93	19	2620			.72	17.6
8.6	130	220	2700	90	.6	22	2570			.52	18.72
8.8	100	140	2650	40	.26	38	2550			.4	20.3
9	70	90	2500	20	.13	53	2430	25	7		23.81
9.2	110	160	2500	50	.33	33	2390			.44	19.64
9.4	140	170	2550	30	.2	70	2410	27	13		18.4
9.6	110	140	2500	30	.2	55	2390	25	10		19.64
9.8	90	120	2500	30	.2	45	2410			.36	21.16
10	100	140	2550	40	.26	38	2450			.4	20.3


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale -kg-
Rapporto Begemann
0 Res. alla punta -kg/cmq- 50 100 150 200 250
0 10 20 30 40 50 60 70 80 90 100
COLONNA STRATIGRAFICA
1
2
3
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5
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7
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9
10
11
3.8

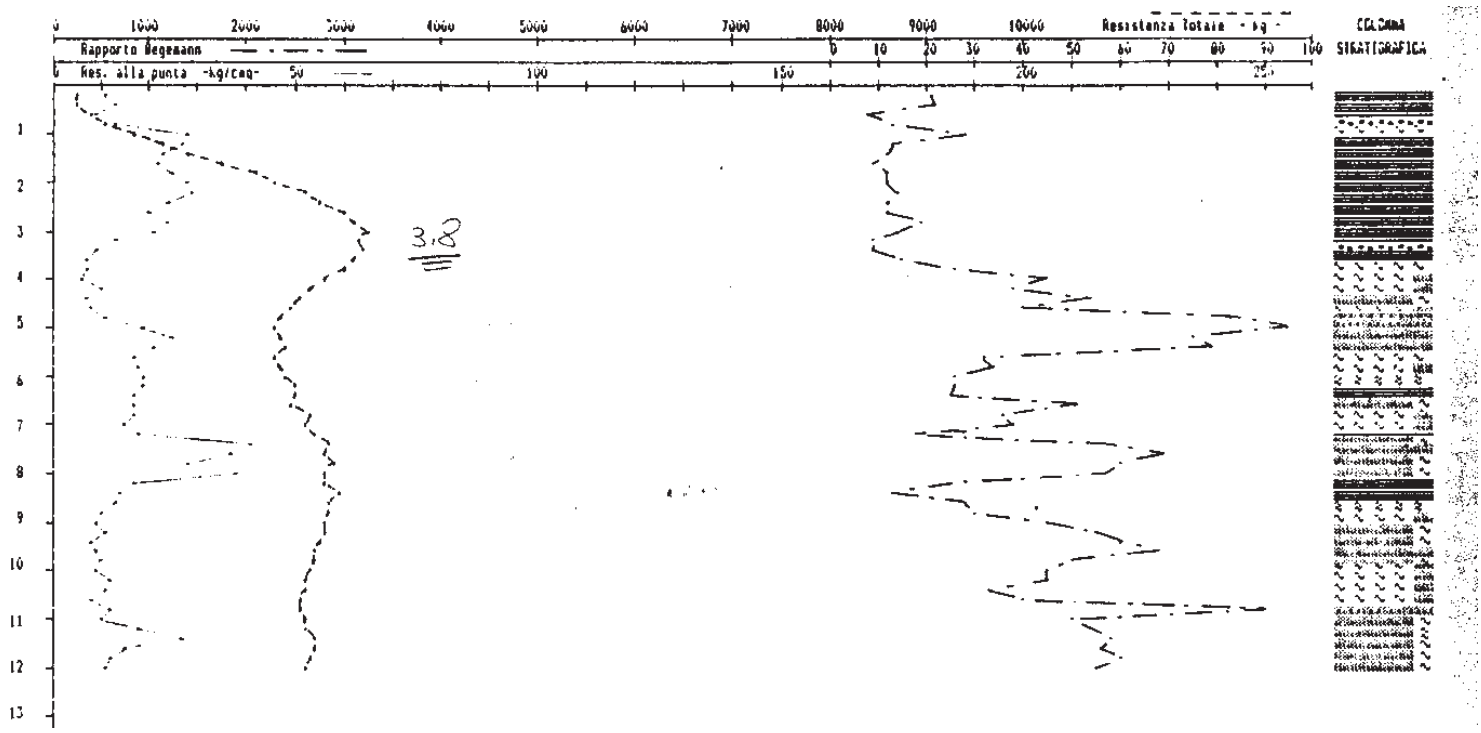
2318

letture di campagna | valori derivati

PROFONDITA' (metri)	Rpt (Kg)	Rat (Kg)	Rt (Kg)	Rat-Rpt (Kg)	Ral (Kg/cmq)	Rp/Ral	Rt-Rpt (Kg)	Fi (gradi)	Dr (%)	Cu (Kg/cmq)	av (cmq/t)
.2	110	190	250	80	.53	21	140			.48	19.64
.4	130	220	250	90	.6	22	120			.52	18.72
.6	90	270	400	180	1.2	8	310			.36	21.16
.8	130	280	550	150	1	13	420			.52	18.72
1	280	430	850	150	1	28	570			1.12	16.48
1.2	270	570	1150	300	2	13	880			1.08	16.6
1.4	230	520	1400	290	1.93	12	1170			.92	17.68
1.6	220	590	1750	370	2.46	9	1530			.88	17.15
1.8	250	560	2100	310	2.06	12	1850			1	16.85
2	280	640	2300	360	2.4	12	2020			1.12	16.48
2.2	290	610	2600	320	2.13	14	2310			1.16	16.25
2.4	240	530	2750	290	1.93	12	2510			.96	16.94
2.6	200	440	3000	240	1.6	12	2800			.8	17.36
2.8	240	430	3100	190	1.26	19	2860			.96	16.94
3	210	430	3250	220	1.46	14	3040			.84	17.25
3.2	130	340	3150	210	1.4	9	3020			.52	18.72
3.4	90	240	3200	150	1	9	3110			.36	21.16
3.6	70	140	3100	70	.46	15	3030			.28	23.81
3.8	70	110	3000	40	.26	26	2930			.28	23.81
4	60	80	2800	20	.13	45	2740			.24	25.93
4.2	100	140	2650	40	.26	38	2550			.4	20.3
4.4	70	90	2550	20	.13	53	2480	25	7		23.61
4.6	80	110	2450	30	.2	40	2370			.32	22.29
4.8	110	130	2350	20	.13	83	2240	30	10		19.64
5	190	220	2300	30	.2	95	2110	32	17		17.47
5.2	250	300	2350	50	.33	75	2100	29	22		16.83
5.4	210	250	2400	40	.26	79	2190	28	19		17.25
5.6	170	250	2300	80	.53	32	2130			.68	17.75
5.8	180	260	2350	80	.53	34	2170			.72	17.6
6	190	300	2400	110	.73	26	2210			.76	17.47
6.2	190	300	2500	110	.73	26	2310			.76	17.47
6.4	170	270	2500	100	.66	25	2330			.68	17.75
6.6	170	220	2450	50	.33	51	2280	25	15		17.75
6.8	170	240	2650	70	.46	36	2480			.68	17.75
7	150	210	2600	60	.4	38	2450			.6	18.14
7.2	180	330	2700	150	1	18	2520			.72	17.6
7.4	410	520	2850	110	.73	56	2440	30	33		14.3
7.6	370	450	2800	80	.53	69	2430	30	30		15.06
7.8	280	350	2900	70	.46	60	2620	29	24		16.48
8	380	480	2800	100	.66	57	2420	30	31		14.87

letture di campagna | valori derivati

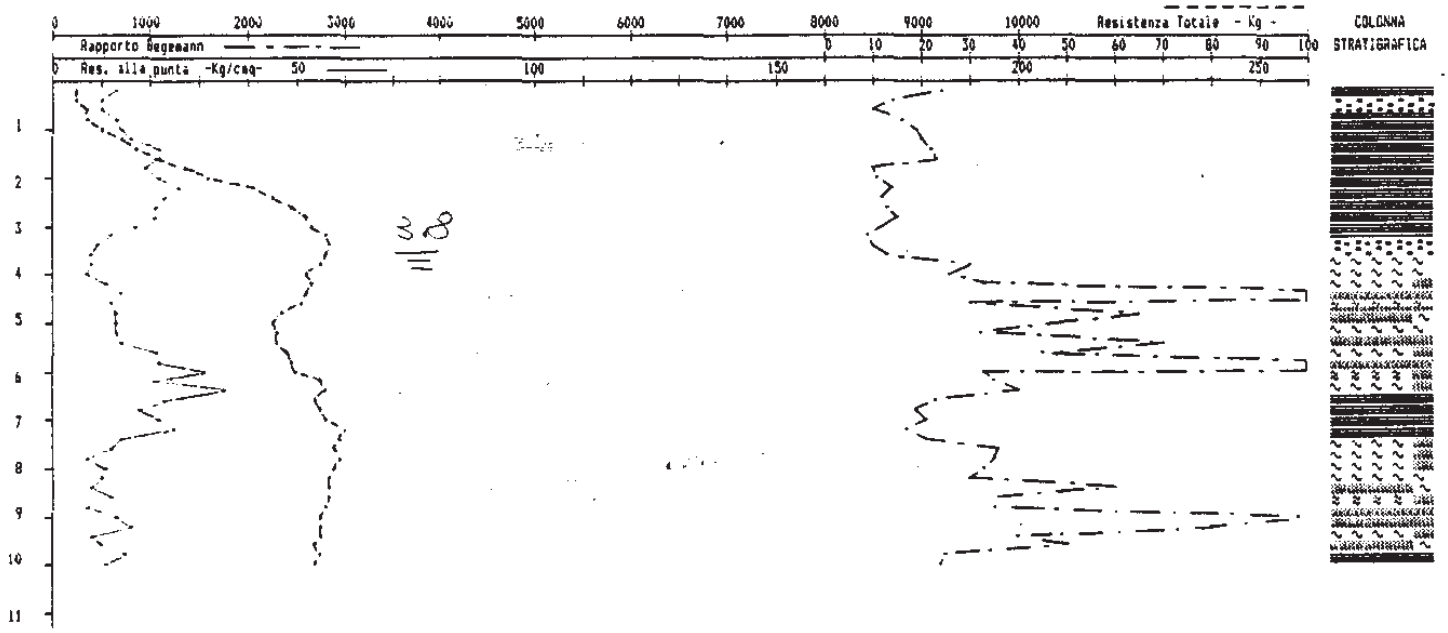
PROFONDITA' (metri)	Rpt (Kg)	Rat (Kg)	Rt (Kg)	Rat-Rpt (Kg)	Ral (Kg/cmq)	Rp/Ral	Rt-Rpt (Kg)	Fi (gradi)	Dr (%)	Cu (Kg/cmq)	av (cmq/t)
8.2	170	270	2800	100	.66	25	2630			.68	17.75
8.4	140	300	2950	160	1.06	13	2810			.56	18.4
8.6	120	200	2850	70	.46	28	2720			.52	18.72
8.8	100	150	2850	50	.33	30	2750			.4	20.3
9	90	120	2800	30	.2	45	2710			.36	21.16
9.2	110	140	2800	30	.2	55	2690	25	10		19.64
9.4	80	100	2750	20	.13	60	2670	25	8		22.29
9.6	90	110	2700	20	.13	68	2610	27	9		21.16
9.8	100	130	2700	30	.2	50	2600	25	9		20.3
10	90	120	2650	30	.2	45	2560			.36	21.16
10.2	120	160	2600	40	.26	45	2480			.48	19.13
10.4	110	160	2600	50	.33	33	2490			.44	19.64
10.6	80	110	2550	30	.2	40	2470			.32	22.29
10.8	120	140	2550	20	.13	90	2430	30	13		19.13
11	100	130	2600	30	.2	50	2500	25	9		20.3
11.2	180	230	2600	50	.33	54	2420	27	16		17.6
11.4	270	340	2700	70	.46	58	2430	29	23		16.6
11.6	150	196	2700	40	.26	56	2550	25	14		18.14
11.8	120	150	2650	30	.2	60	2530	25	11		19.13
12	110	140	2600	30	.2	55	2490	25	10		19.64


Resistenza totale - kg -
Rapporto Begemann
Res. alla punta -kg/cmq-
COLONNA STRATIGRAFICA
3,80

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
.2	130	210	250	80	.53	24	120			.52	18.72
.4	100	210	250	110	.73	14	150			.4	20.3
.6	100	250	350	150	1	10	250			.4	20.3
.8	130	250	350	120	.8	16	220			.52	18.72
1	140	250	500	110	.73	19	360			.56	18.4
1.2	160	280	700	120	.8	20	540			.64	17.93
1.4	220	270	850	150	1	22	630			.88	17.15
1.6	210	350	1100	140	.93	23	890			.84	17.25
1.8	190	470	1350	280	1.86	10	1160			.76	17.47
2	220	510	1600	290	1.93	11	1380			.88	17.15
2.2	260	530	2050	270	1.8	14	1790			1.04	16.72
2.4	230	510	2250	280	1.86	12	2020			.92	17.04
2.6	210	460	2450	250	1.66	13	2240			.84	17.25
2.8	210	420	2600	210	1.4	15	2390			.84	17.25
3	170	380	2650	210	1.4	12	2480			.68	17.75
3.2	120	310	2800	190	1.26	9	2680			.48	19.13
3.4	90	220	2850	130	.86	10	2760			.36	21.16
3.6	80	170	2800	90	.6	13	2720			.32	22.29
3.8	80	120	2750	40	.26	30	2670			.32	22.29
4	70	110	2600	40	.26	26	2530			.28	23.81
4.2	110	160	2650	50	.33	33	2540			.44	19.64
4.4	140	160	2600	20	.13	105	2460	30	13		18.4
4.6	120	180	2550	60	.4	30	2430			.48	19.13
4.8	130	160	2350	30	.2	65	2220	27	12		18.72
5	130	170	2250	40	.26	49	2120	25	12		18.72
5.2	130	190	2300	60	.4	32	2170			.52	18.72
5.4	140	170	2300	30	.2	70	2160	27	13		18.4
5.6	210	280	2400	70	.46	45	2190			.84	17.25
5.8	220	240	2450	20	.13	165	2230	32	20		17.15
6	310	450	2500	140	.93	33	2190			1.24	16.06
6.2	210	300	2750	90	.6	35	2540			.84	17.25
6.4	350	480	2800	130	.86	40	2450			1.4	15.42
6.6	230	380	2700	150	1	23	2470			.92	17.04
6.8	180	320	2750	140	.93	19	2570			.72	17.6
7	220	380	2800	160	1.06	21	2580			.88	17.15
7.2	250	470	3000	220	1.46	17	2750			1	16.83
7.4	140	240	2950	100	.66	21	2810			.56	18.4
7.6	120	170	2900	50	.33	36	2780			.48	19.13
7.8	70	100	2950	30	.2	35	2880			.28	23.81
8	110	160	2900	50	.33	33	2790			.44	19.64

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	qv [cmq/t]
8.2	100	150	2850	50	.33	30	2750			.4	20.3
8.4	80	100	2850	20	.13	60	2770	25	8		22.29
8.6	120	170	2850	50	.33	36	2730			.48	19.13
8.8	70	100	2800	30	.2	35	2730			.28	23.81
9	130	150	2750	20	.13	98	2620	30	12		18.72
9.2	160	190	2750	30	.2	80	2590	27	15		17.93
9.4	80	110	2750	30	.2	40	2670			.32	22.29
9.6	100	130	2700	30	.2	50	2600	25	9		20.3
9.8	150	240	2750	90	.6	23	2600			.6	18.14
10	110	180	2700	70	.46	24	2590			.44	19.64

2319


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 Res. alla punta -Kg/cmq- 50 100 150 200 250
0 10 20 30 40 50 60 70 80 90 100
COLONNA STRATIGRAFICA
1
2
3
4
5
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7
8
9
10
11

Resistenza alla punta

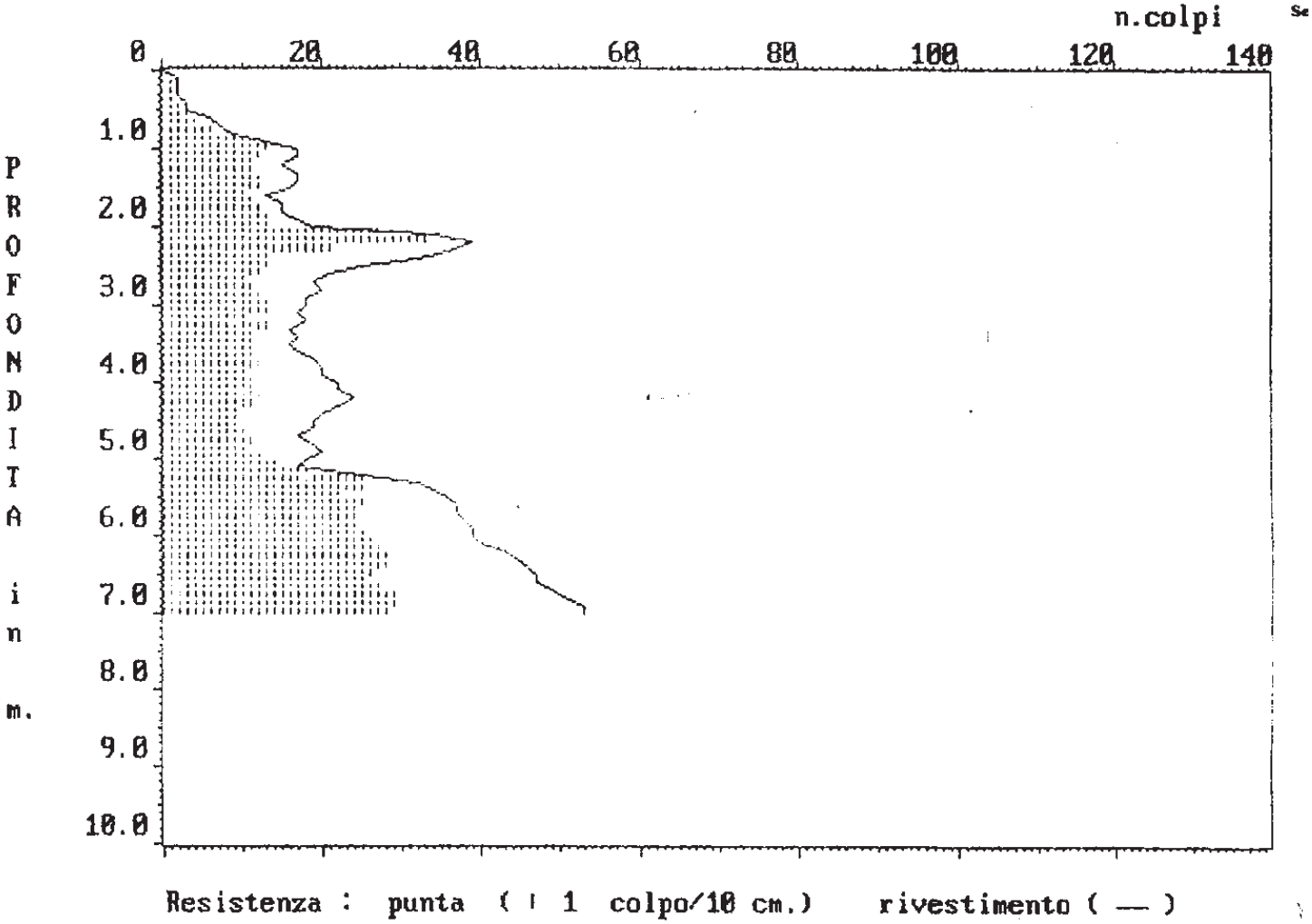
PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	3.10	13	35
0.20	1	4	3.20	10	27
0.30	1	4	3.30	13	35
0.40	1	4	3.40	11	30
0.50	2	7	3.50	11	30
0.60	3	11	3.60	11	30
0.70	4	14	3.70	11	30
0.80	6	21	3.80	12	32
0.90	10	36	3.90	10	27
1.00	13	46	4.00	11	30
1.10	12	39	4.10	11	28
1.20	11	36	4.20	12	30
1.30	11	36	4.30	11	28
1.40	12	35	4.40	9	23
1.50	12	39	4.50	9	23
1.60	10	32	4.60	9	22
1.70	11	35	4.70	10	25
1.80	12	39	4.80	11	27
1.90	13	42	4.90	10	25
2.00	13	42	5.00	12	30
2.10	27	80	5.10	14	33
2.20	33	98	5.20	18	42
2.30	21	62	5.30	25	59
2.40	13	39	5.40	25	59
2.50	13	39	5.50	22	52
2.60	12	36	5.60	25	58
2.70	10	29	5.70	24	56
2.80	11	32	5.80	24	56
2.90	12	35	5.90	24	56
3.00	13	38	6.00	25	58

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
6.10	26	57	6.60	25	54
6.20	27	57	6.70	27	59
6.30	29	61	6.80	29	63
6.40	26	61	6.90	29	63
6.50	26	57	7.00	28	61

2326

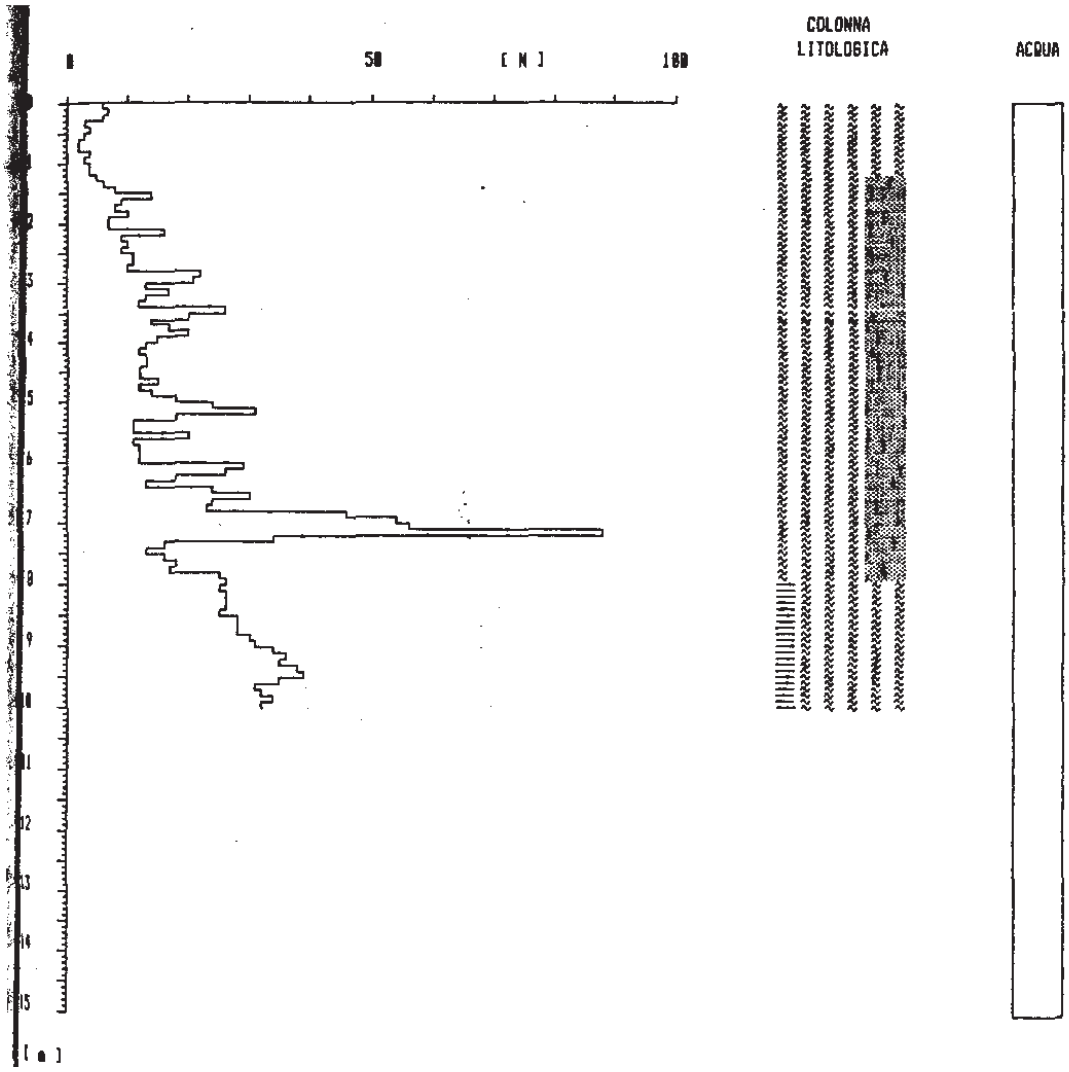
Resistenza rivestimento

PROFONDITA' IN m.	N. COLPI ogni 10 cm.	PROFONDITA' IN m.	N. COLPI ogni 10 cm.
0.10	2	3.60	17
0.20	2	3.70	19
0.30	2	3.80	20
0.40	3	3.90	20
0.50	5	4.00	22
0.60	6	4.10	22
0.70	7	4.20	24
0.80	9	4.30	22
0.90	13	4.40	20
1.00	17	4.50	19
1.10	17	4.60	19
1.20	15	4.70	17
1.30	17	4.80	19
1.40	17	4.90	20
1.50	16	5.00	18
1.60	15	5.10	17
1.70	15	5.20	23
1.80	15	5.30	32
1.90	17	5.40	34
2.00	19	5.50	36
2.10	34	5.60	37
2.20	37	5.70	37
2.30	36	5.80	39
2.40	32	5.90	39
2.50	23	6.00	39
2.60	21	6.10	41
2.70	19	6.20	43
2.80	20	6.30	45
2.90	18	6.40	46
3.00	16	6.50	47
3.10	17	6.60	47
3.20	16	6.70	47
3.30	16	6.80	51
3.40	17	6.90	52
3.50	19	7.00	53



PROFONDITA' [metri]	Numero colpi	Tipo litologico	valori derivati FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.1	6	L			.6	27.78
.2	7	L			.7	23.81
.3	6	L			.6	27.78
.4	3	L			.3	55.56
.5	4	L			.4	41.67
.6	3	L			.3	55.56
.7	2	L			.2	83.33
.8	2	L			.2	83.33
.9	4	L			.4	41.67
1	3	L			.3	55.56
1.1	4	L			.4	41.67
1.2	4	L			.4	41.67
1.3	5	Ls	28.4	20		33.33
1.4	6	Ls	28.4	20		27.78
1.5	8	Ls	29.24	28		20.83
1.6	14	Ls	31.74	45		11.9
1.7	9	Ls	30	35		18.52
1.8	8	Ls	29.24	28		20.83
1.9	10	Ls	30	35		16.67
2	7	Ls	29.24	28		23.81
2.1	7	Ls	29.24	28		23.81
2.2	16	Ls	31.74	45		10.42
2.3	9	Ls	30	35		18.52
2.4	10	Ls	30	35		16.67
2.5	9	Ls	30	35		18.52
2.6	11	Ls	30	35		15.15
2.7	11	Ls	30	35		15.15
2.8	10	Ls	30	35		16.67
2.9	22	Ls	33.94	55		7.58
3	21	Ls	33.18	52		7.94
3.1	13	Ls	30.8	40		12.82
3.2	17	Ls	32.42	48		9.8
3.3	13	Ls	30.8	40		12.82
3.4	12	Ls	30.8	40		13.89
3.5	26	Ls	34.6	59		6.41
3.6	20	Ls	33.18	52		8.33
3.7	14	Ls	31.74	45		11.9
3.8	17	Ls	32.42	48		9.8
3.9	20	Ls	33.18	52		8.33
4	15	Ls	31.74	45		11.11
4.1	13	Ls	30.8	40		12.82
4.2	12	Ls	30.8	40		13.89
4.3	13	Ls	30.8	40		12.82
4.4	13	Ls	30.8	40		12.82
4.5	12	Ls	30.8	40		13.89
4.6	12	Ls	30.8	40		13.89
4.7	15	Ls	31.74	45		11.11
4.8	12	Ls	30.8	40		13.89
4.9	14	Ls	31.74	45		11.9
5	18	Ls	32.42	48		9.26

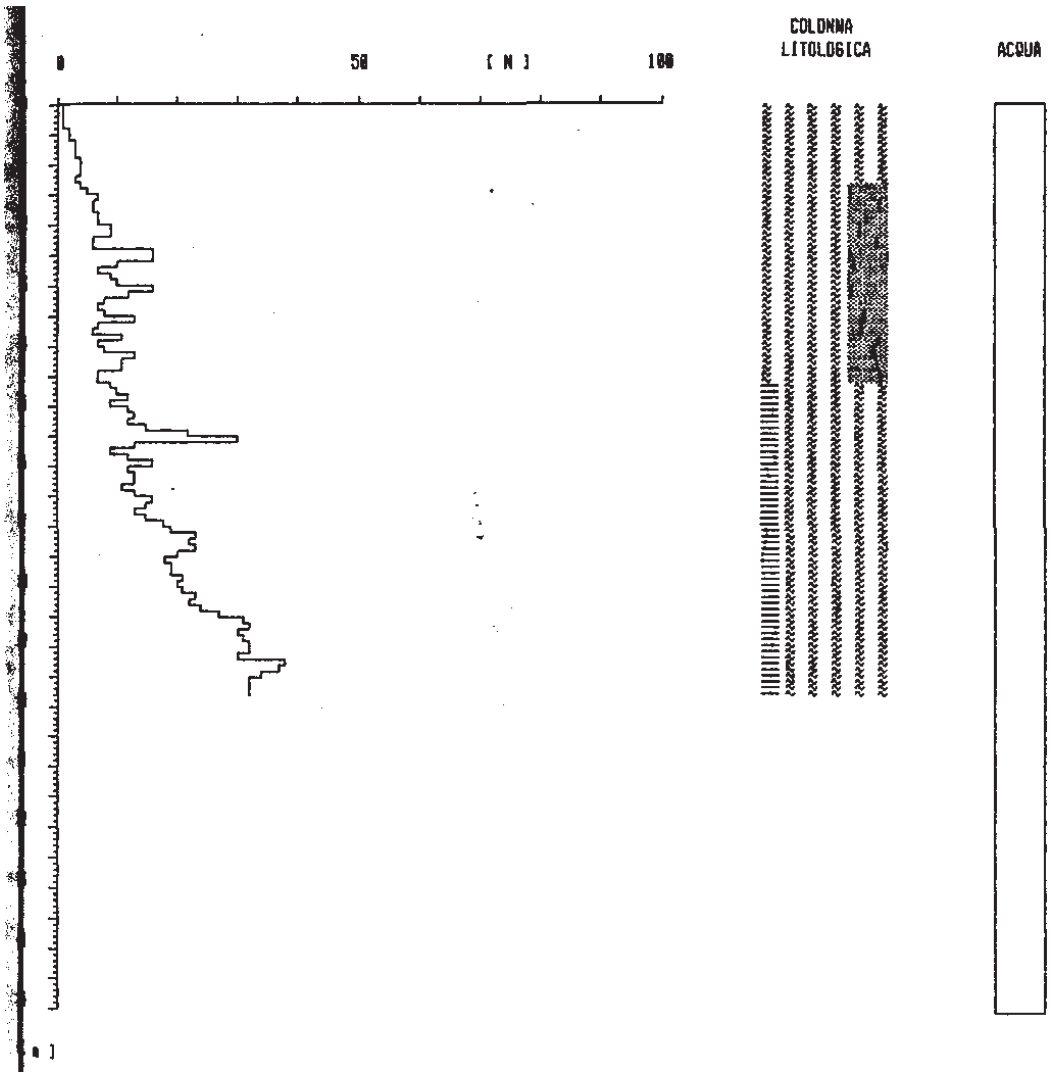
PROFONDITA' [metri]	Numero colpi	Tipo litologico	valori derivati FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
5.1	24	Ls	34.6	59		6.94
5.2	31	Ls	35.98	65		5.38
5.3	18	Ls	32.42	48		9.26
5.4	11	Ls	30	35		15.15
5.5	11	Ls	30	35		15.15
5.6	20	Ls	33.18	52		8.33
5.7	11	Ls	30	35		15.15
5.8	12	Ls	30.8	40		13.89
5.9	12	Ls	30.8	40		13.89
6	12	Ls	30.8	40		13.89
6.1	29	Ls	35.98	65		5.75
6.2	26	Ls	34.6	59		6.41
6.3	18	Ls	32.42	48		9.26
6.4	13	Ls	30.8	40		12.82
6.5	24	Ls	34.6	59		6.94
6.6	30	Ls	35.98	65		5.56
6.7	24	Ls	34.6	59		6.94
6.8	23	Ls	33.94	55		7.25
6.9	46	Ls	39.77	80		3.62
7	54	Ls	41.9	89		3.09
7.1	56	Ls	41.9	89		2.98
7.2	88	Ls	42.73	92		1.89
7.3	34	Ls	37.35	70		4.9
7.4	16	Ls	31.74	45		10.42
7.5	13	Ls	30.8	40		12.82
7.6	16	Ls	31.74	45		10.42
7.7	18	Ls	32.42	48		9.26
7.8	17	Ls	32.42	48		9.8
7.9	25	Ls	34.6	59		6.67
8	26	La			2.6	6.41
8.1	25	La			2.5	6.67
8.2	26	La			2.6	6.41
8.3	26	La			2.6	6.41
8.4	26	La			2.6	6.41
8.5	25	La			2.5	6.67
8.6	28	La			2.8	5.95
8.7	28	La			2.8	5.95
8.8	28	La			2.8	5.95
8.9	30	La			3	5.56
9	31	La			3.1	5.38
9.1	34	La			3.4	4.9
9.2	36	La			3.6	4.63
9.3	35	La			3.5	4.76
9.4	38	La			3.8	4.39
9.5	39	La			3.9	4.27
9.6	35	La			3.5	4.76
9.7	31	La			3.1	5.38
9.8	32	La			3.2	5.21
9.9	34	La			3.4	4.9
10	32	La			3.2	5.21



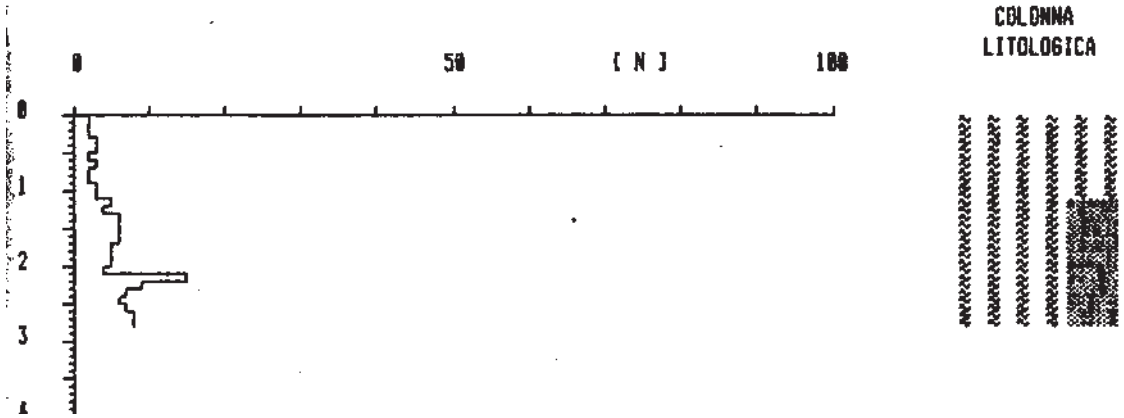
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PROFONDITA' [metri]	Numero colpi	Tipo litologico	valori derivati FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.1	1	L			.1	166.67
.2	1	L			.1	166.67
.3	1	L			.1	166.67
.4	1	L			.1	166.67
.5	2	L			.2	83.33
.6	2	L			.2	83.33
.7	3	L			.3	55.56
.8	3	L			.3	55.56
.9	3	L			.3	55.56
1	4	L			.4	41.67
1.1	4	L			.4	41.67
1.2	4	L			.4	41.67
1.3	3	L			.3	55.56
1.4	4	Ls	27.9	12		41.67
1.5	5	Ls	28.4	20		33.33
1.6	7	Ls	29.24	28		23.81
1.7	6	Ls	28.4	20		27.78
1.8	6	Ls	28.4	20		27.78
1.9	7	Ls	29.24	28		23.81
2	7	Ls	29.24	28		23.81
2.1	9	Ls	30	35		18.52
2.2	9	Ls	30	35		18.52
2.3	6	Ls	28.4	20		27.78
2.4	6	Ls	28.4	20		27.78
2.5	16	Ls	31.74	45		10.42
2.6	16	Ls	31.74	45		10.42
2.7	10	Ls	30	35		16.67
2.8	7	Ls	29.24	28		23.81
2.9	9	Ls	30	35		18.52
3	10	Ls	30	35		16.67
3.1	16	Ls	31.74	45		10.42
3.2	12	Ls	30.8	40		13.89
3.3	8	Ls	29.24	28		20.83
3.4	7	Ls	29.24	28		23.81
3.5	8	Ls	29.24	28		20.83
3.6	13	Ls	30.8	40		12.82
3.7	7	Ls	29.24	28		23.81
3.8	6	Ls	28.4	20		27.78
3.9	11	Ls	30	35		15.15
4	7	Ls	29.24	28		23.81
4.1	8	Ls	29.24	28		20.83
4.2	13	Ls	30.8	40		12.82
4.3	11	Ls	30	35		15.15
4.4	11	Ls	30	35		15.15
4.5	7	Ls	29.24	28		23.81
4.6	7	Ls	29.24	28		23.81
4.7	9	La			.9	18.52
4.8	10	La			1	16.67
4.9	12	La			1.2	13.89
5	9	La			.9	18.52

PROFONDITA' [metri]	Numero colpi	Tipo litologico	valori derivati FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
5.1	12	La			1.2	13.89
5.2	13	La			1.3	12.82
5.3	12	La			1.2	13.89
5.4	15	La			1.5	11.11
5.5	22	La			2.2	7.58
5.6	30	La			3	5.56
5.7	13	La			1.3	12.82
5.8	9	La			.9	18.52
5.9	12	La			1.2	13.89
6	16	La			1.6	10.42
6.1	12	La			1.2	13.89
6.2	13	La			1.3	12.82
6.3	13	La			1.3	12.82
6.4	11	La			1.1	15.15
6.5	13	La			1.3	12.82
6.6	16	La			1.6	10.42
6.7	15	La			1.5	11.11
6.8	13	La			1.3	12.82
6.9	15	La			1.5	11.11
7	18	La			1.8	9.26
7.1	19	La			1.9	8.77
7.2	23	La			2.3	7.25
7.3	22	La			2.2	7.58
7.4	23	La			2.3	7.25
7.5	20	La			2	8.33
7.6	18	La			1.8	9.26
7.7	19	La			1.9	8.77
7.8	19	La			1.9	8.77
7.9	21	La			2.1	7.94
8	20	La			2	8.33
8.1	21	La			2.1	7.94
8.2	23	La			2.3	7.25
8.3	22	La			2.2	7.58
8.4	24	La			2.4	6.94
8.5	27	La			2.7	6.17
8.6	31	La			3.1	5.38
8.7	32	La			3.2	5.21
8.8	30	La			3	5.56
8.9	31	La			3.1	5.38
9	32	La			3.2	5.21
9.1	32	La			3.2	5.21
9.2	30	La			3	5.56
9.3	38	La			3.8	4.39
9.4	37	La			3.7	4.5
9.5	34	La			3.4	4.9
9.6	32	La			3.2	5.21
9.7	32	La			3.2	5.21
9.8	32	La			3.2	5.21



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COLONNA
LITOLOGICA

letture di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
.2	120	190	250
.4	110	260	300
.6	110	230	400
.8	120	270	550
1	270	470	1000
1.2	520	800	1600
1.4	460	1050	2100
1.6	410	960	2600
1.8	460	1110	2850
2	420	1100	3350
2.2	390	1050	3750
2.4	290	880	3800
2.6	250	770	3700
2.8	250	740	3650
3	230	540	3500
3.2	230	520	3400
3.4	210	480	3450
3.6	180	460	3450
3.8	140	350	3400
4	120	270	3350
4.2	140	250	3200
4.4	140	260	3000
4.6	120	230	3050
4.8	100	200	3050
5	80	150	3000
5.2	100	150	2900
5.4	100	140	2800
5.6	110	150	2700
5.8	160	220	2750
6	200	310	2700
6.2	200	320	2700
6.4	180	310	2850
6.6	200	300	2900
6.8	160	280	2800
7	160	280	2950
7.2	220	310	3050
7.4	240	320	3100
7.6	220	350	3000
7.8	410	530	2900
8	300	410	2650

valori derivati

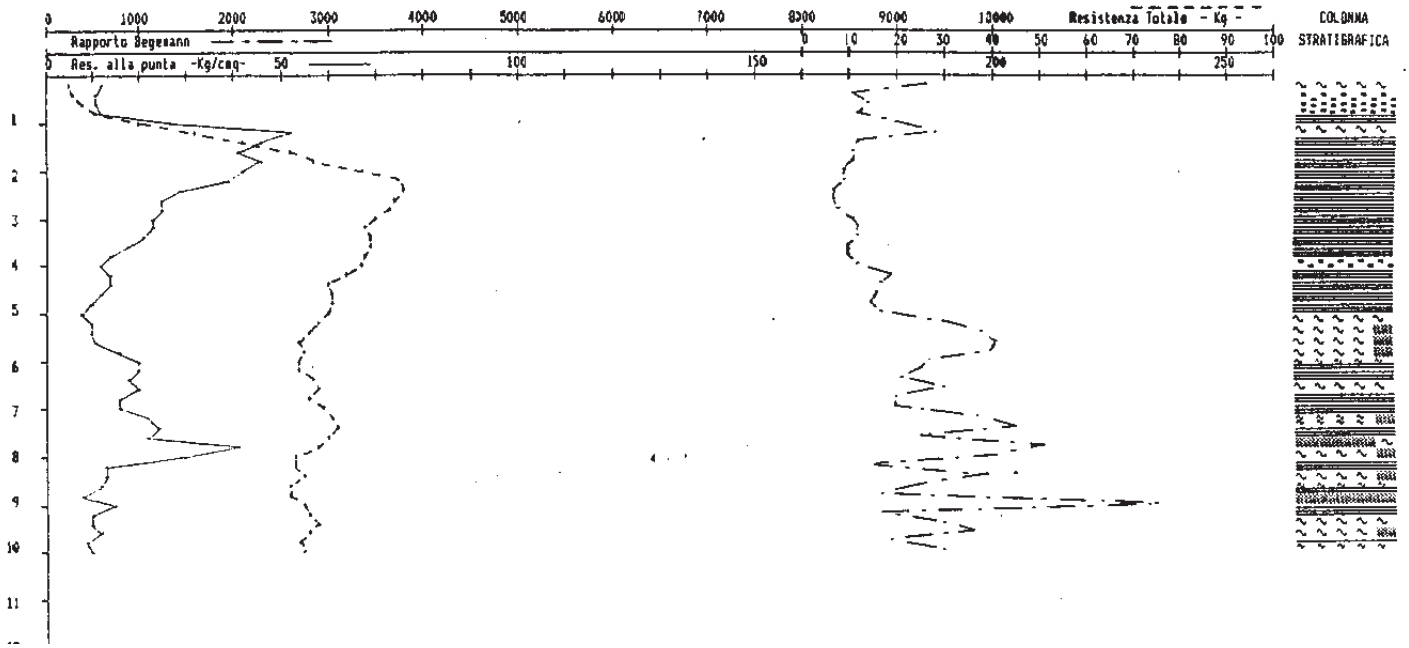
Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
70	.46	26	130			.48	19.13
150	1	11	190			.44	19.64
120	.8	14	290			.44	19.64
150	1	12	430			.48	19.13
200	1.33	20	730			1.08	16.6
280	1.86	29	1080			2.6	12.2
590	3.93	12	1640			2.3	13.33
550	3.66	11	2190			1.44	14.3
650	4.33	11	2390			2.3	13.33
680	4.53	9	2930			1.68	14.11
660	4.4	9	3360			1.56	14.69
590	3.93	7	3510			1.16	16.35
520	3.46	7	3450			1	16.83
490	3.26	8	3400			1	16.83
310	2.06	11	3270			.92	17.04
290	1.93	12	3170			.92	17.04
270	1.8	12	3240			.84	17.25
280	1.86	13	3270			.72	17.6
210	1.4	18	3260			.56	18.4
150	1	12	3230			.48	19.13
110	.73	19	3060			.56	18.4
120	.8	17	2860			.56	18.4
110	.73	15	2930			.48	19.13
100	.66	15	2950			.4	20.3
70	.46	17	2920			.32	22.29
50	.33	33	2800			.4	20.3
40	.26	33	2700			.4	20.3
40	.26	41	2590			.44	19.64
60	.4	43	2590			.64	17.93
110	.73	27	2500			.8	17.36
120	.8	25	2500			.8	17.36
130	.86	21	2670			.72	17.6
100	.66	33	2700			.8	17.36
120	.8	29	2640			.64	17.93
120	.8	23	2790			.64	17.93
90	.6	37	2830			.88	17.15
80	.53	45	2860			.96	16.94
130	.86	25	2780			.88	17.15
120	.8	58	2490	30	33		14.3
110	.73	41	2350			1.2	16.21

letture di campagna

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]
8.2	130	250	2650
8.4	130	180	2750
8.6	120	190	2600
8.8	80	150	2600
9	150	180	2750
9.2	100	190	2800
9.4	100	150	2900
9.6	120	170	2800
9.8	90	160	2700
10	100	150	2750

valori derivati

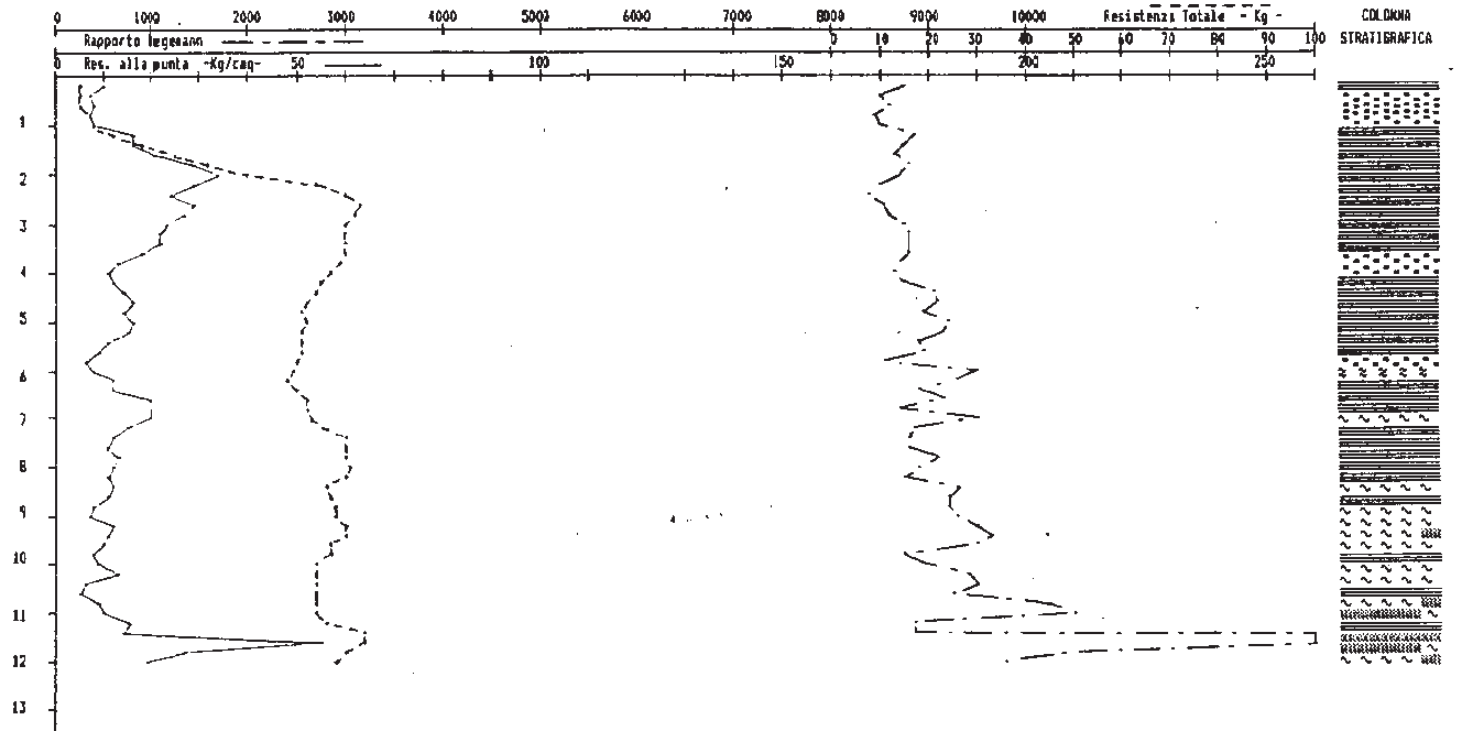
Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fl [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
120	.8	16	2520			.52	18.72
50	.33	39	2620			.52	18.72
70	.46	26	2480			.48	19.13
70	.46	17	2520			.32	22.29
30	.2	75	2600	27	14		18.14
90	.6	17	2700			.4	20.3
50	.33	30	2800			.4	20.3
50	.33	36	2680			.48	19.13
70	.46	19	2610			.36	21.16
50	.33	30	2650			.4	20.3


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 Res. alla punta -Kg/cmq- 50 100 150 200 250
0 10 20 30 40 50 60 70 80 90 100
COLONNA STRATIGRAFICA
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PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/l]
.2	100	200	250	100	.66	15	150			.4	20.3
.4	70	180	250	110	.73	10	180			.28	23.81
.6	80	180	250	100	.66	12	170			.32	22.29
.8	70	190	350	120	.8	9	280			.28	23.81
1	80	200	400	120	.8	10	320			.32	22.29
1.2	160	300	600	140	.93	17	440			.64	17.93
1.4	160	320	900	160	1.06	15	740			.64	17.93
1.6	210	450	1250	240	1.6	13	1040			.84	17.25
1.8	290	560	1600	270	1.8	16	1310			1.16	16.35
2	340	710	2000	370	2.46	14	1660			1.36	15.59
2.2	290	730	2700	440	2.93	10	2410			1.16	16.35
2.4	240	680	3040	440	2.93	8	2766			.96	16.94
2.6	290	700	3150	410	2.73	11	2860			1.16	16.35
2.8	270	600	3100	330	2.2	12	2830			1.08	16.6
3	230	460	3060	230	1.53	15	2770			.92	17.04
3.2	220	430	3000	210	1.4	16	2780			.88	17.15
3.4	220	430	3000	210	1.4	16	2780			.88	17.15
3.6	180	350	3000	170	1.13	16	2820			.72	17.6
3.8	130	270	2950	140	.93	14	2820			.52	18.72
4	110	240	2850	130	.86	13	2740			.44	19.64
4.2	120	240	2750	120	.8	15	2630			.48	19.13
4.4	140	240	2700	100	.66	21	2560			.56	18.4
4.6	160	270	2600	110	.73	22	2440			.44	17.93
4.8	140	250	2550	110	.73	19	2410			.56	18.4
5	140	260	2600	100	.66	24	2460			.44	17.93
5.2	150	250	2550	100	.66	23	2400			.6	18.14
5.4	110	200	2550	90	.6	18	2440			.44	19.64
5.6	90	160	2550	70	.46	9	2460			.36	21.16
5.8	60	140	2500	80	.53	1	2440			.24	25.93
6	80	120	2450	40	.26	20	2370			.32	22.29
6.2	120	190	2400	70	.46	26	2280			.48	19.13
6.4	120	220	2500	100	.66	18	2380			.48	19.13
6.6	200	330	2600	130	.86	23	2400			.8	17.36
6.8	200	420	2600	220	1.46	14	2400			.8	17.36
7	200	300	2650	100	.66	30	2450			.8	17.36
7.2	150	280	2800	130	.86	17	2650			.6	18.14
7.4	120	230	3000	110	.73	15	2880			.48	19.13
7.6	114	210	3000	100	.66	16	2890			.44	19.64
7.8	130	220	3000	90	.6	21	2870			.52	18.72
8	120	220	3050	100	.66	18	2930			.48	19.13

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/l]
8.2	110	220	3000	110	.73	15	2890			.44	19.64
8.4	120	190	2800	70	.46	26	2680			.48	19.13
8.6	110	180	2850	70	.46	24	2740			.44	19.64
8.8	80	130	2900	50	.33	24	2820			.32	22.29
9	70	110	2900	40	.26	26	2830			.28	23.81
9.2	120	180	3000	60	.4	30	2880			.48	19.13
9.4	110	160	3000	50	.33	33	2890			.44	19.64
9.6	100	150	2850	50	.33	30	2750			.4	20.3
9.8	80	130	2850	30	.53	15	2770			.32	22.29
10	90	160	2700	70	.46	19	2610			.36	21.16
10.2	130	200	2700	70	.46	28	2570			.52	18.72
10.4	60	90	2700	30	.2	30	2640			.24	25.93
10.6	50	80	2700	30	.2	25	2650			.2	29
10.8	90	120	2700	30	.2	45	2610			.36	21.16
11	100	130	2700	30	.2	50	2600	25	?		20.3
11.2	150	280	2800	130	.86	17	2650			.6	18.14
11.4	140	260	3200	120	.8	17	3060			.56	18.4
11.6	550	620	3200	70	.46	118	2650	38	18		11.67
11.8	270	350	3000	30	.53	51	2730	29	23		16.6
12	190	270	2900	80	.53	36	2710			.76	17.47

2344

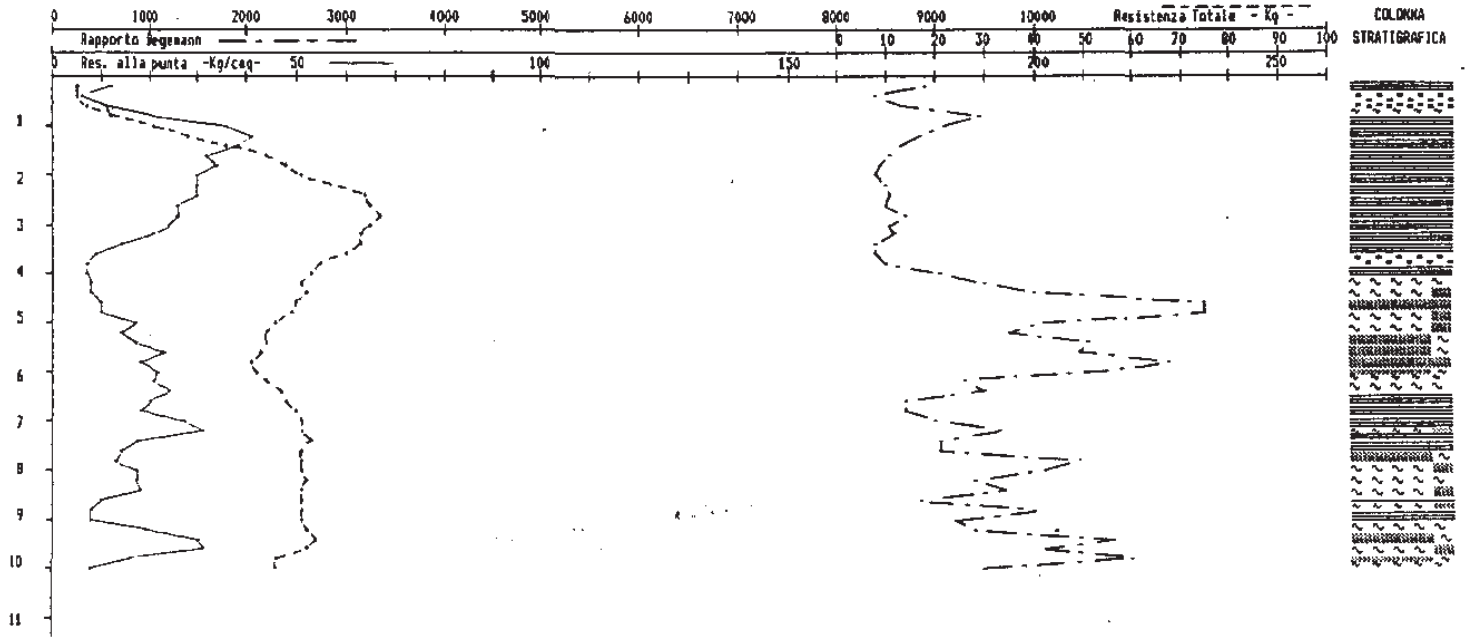

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq- 50 100 150 200 250
COLONNA STRATIGRAFICA
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PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	120	220	250	100	.66	18	130			.48	19.13
.4	60	170	250	110	.73	8	190			.24	25.93
.6	110	240	350	130	.86	13	240			.44	19.64
.8	210	320	600	110	.73	29	390			.84	17.25
1	360	610	1050	250	1.66	12	690			1.44	15.24
1.2	410	780	1400	370	2.46	17	990			1.64	14.3
1.4	380	820	1800	440	2.93	13	1420			1.52	14.87
1.6	320	770	2200	450	3	11	1880			1.28	15.91
1.8	340	880	2400	540	3.6	9	2060			1.36	15.59
2	300	880	2550	580	3.86	8	2250			1.2	16.21
2.2	300	750	2850	450	3	10	2550			1.2	16.21
2.4	300	720	3200	420	2.8	11	2900			1.2	16.21
2.6	260	640	3250	380	2.53	10	2990			1.04	16.72
2.8	260	540	3350	280	1.86	14	3090			1.04	16.72
3	240	560	3250	320	2.13	11	3010			.96	16.94
3.2	210	480	3150	270	1.8	12	2940			.84	17.25
3.4	140	400	3150	260	1.73	8	3010			.56	18.4
3.6	90	270	3000	180	1.2	6	2910			.36	21.16
3.8	70	180	2750	110	.73	10	2680			.28	23.81
4	70	120	2650	50	.33	21	2580			.28	23.81
4.2	80	120	2550	40	.26	30	2470			.32	22.29
4.4	80	110	2600	30	.2	40	2520			.32	22.29
4.6	100	120	2500	20	.13	75	2400	27	9		20.3
4.8	100	120	2450	20	.13	75	2350	27	9		20.3
5	170	230	2300	60	.4	42	2130			.68	17.75
5.2	140	200	2200	60	.4	25	2060			.56	18.4
5.4	170	220	2200	50	.33	51	2030	25	15		17.75
5.6	230	300	2250	70	.46	49	1920	27	20		17.04
5.8	190	220	2050	40	.26	48	1870	28	16		17.6
6	220	280	2100	60	.4	55	1880	27	20		17.15
6.2	210	330	2200	120	.8	26	1990			.84	17.25
6.4	240	360	2350	120	.8	30	2110			.96	16.94
6.6	200	410	2400	210	1.4	14	2200			.8	17.36
6.8	180	370	2500	190	1.26	14	2320			.72	17.6
7	270	470	2550	200	1.33	20	2280			1.08	16.6
7.2	310	450	2550	140	.93	33	2240			1.24	16.06
7.4	170	290	2650	120	.8	21	2480			.68	17.75
7.6	140	240	2550	100	.66	21	2410			.56	18.4
7.8	130	170	2550	40	.26	49	2420	25	12		18.72
8	170	230	2550	60	.4	42	2380			.68	17.75

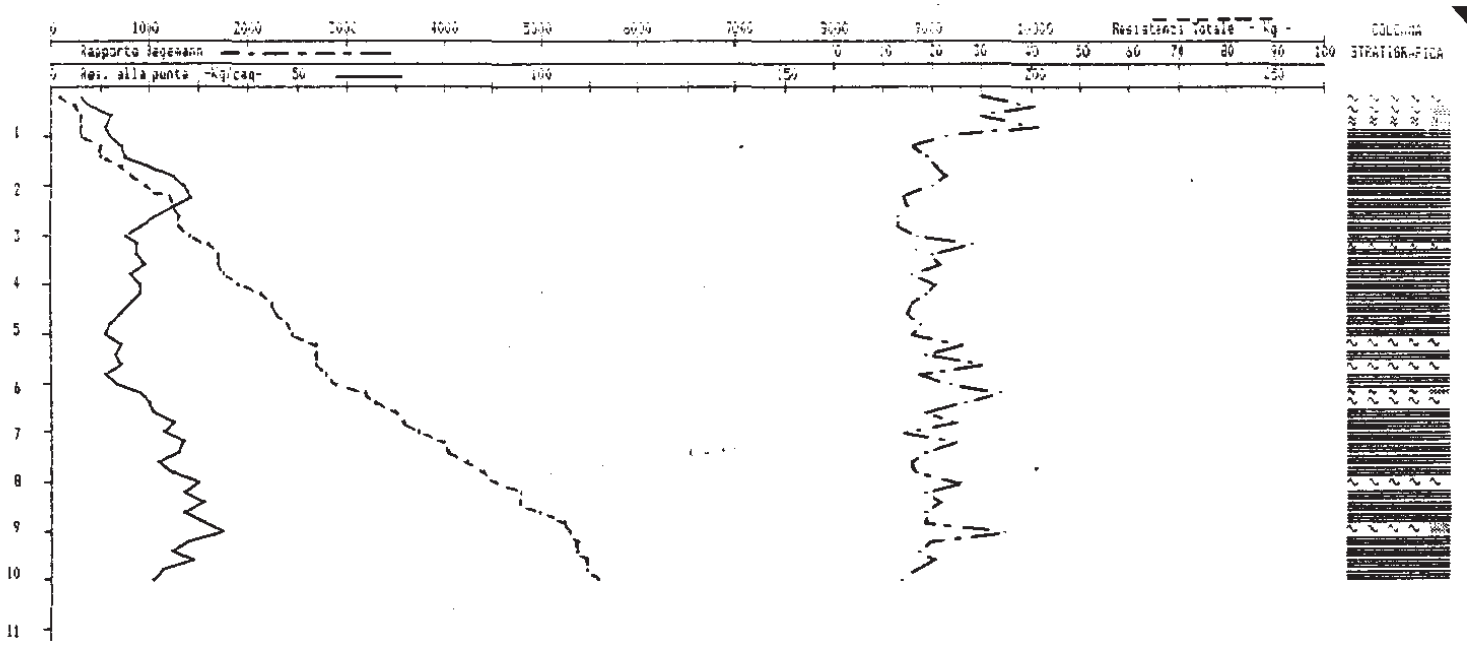
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	170	260	2600	90	.6	28	2430			.68	17.75
8.4	180	260	2550	80	.53	34	2370			.72	17.6
8.6	100	190	2550	90	.6	17	2450			.4	20.3
8.8	80	110	2550	30	.2	40	2470			.32	22.29
9	80	130	2550	50	.33	24	2470			.32	22.29
9.2	190	290	2600	100	.66	28	2410			.76	17.47
9.4	300	380	2700	80	.53	56	2400	29	26		16.21
9.6	310	420	2600	110	.73	42	2290			1.24	16.06
9.8	160	200	2300	40	.26	60	2140	25	15		17.93
10	80	120	2300	40	.26	30	2220			.32	22.29

2345


0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Resistenza Totale - Kg -
Rapporto Begemann
0 10 20 30 40 50 60 70 80 90 100
Res. alla punta -Kg/cmq-
0 50 100 150 200 250
COLONNA STRATIGRAFICA
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letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	60	90	190	30	.2	30	90			.24	25.93
.4	80	110	250	30	.2	40	170			.32	22.29
.6	120	180	300	60	.4	30	180			.48	19.13
.8	110	150	300	40	.26	41	190			.44	19.64
1	120	200	300	80	.53	23	180			.48	19.13
1.2	140	270	500	130	.86	16	360			.56	18.4
1.4	150	270	500	120	.8	19	350			.6	18.14
1.6	200	340	700	140	.93	21	500			.8	17.36
1.8	250	410	800	160	1.06	23	550			1	16.83
2	270	470	950	200	1.33	20	680			1.08	16.6
2.2	280	570	1200	290	1.93	14	920			1.12	16.48
2.4	250	500	1250	250	1.66	15	1000			1	16.83
2.6	210	450	1350	240	1.6	13	1090			.84	17.25
2.8	180	380	1300	200	1.33	13	1120			.72	17.6
3	150	280	1400	130	.86	17	1250			.6	18.14
3.2	170	260	1600	90	.6	28	1430			.68	17.75
3.4	170	300	1700	130	.86	20	1530			.68	17.75
3.6	190	320	1700	130	.86	22	1510			.76	17.47
3.8	160	310	1750	150	1	16	1590			.64	17.93
4	180	310	1900	130	.86	21	1720			.72	17.6
4.2	180	320	2150	140	.93	19	1970			.72	17.6
4.4	160	310	2250	150	1	16	2090			.64	17.93
4.6	140	280	2300	140	.93	15	2160			.56	18.4
4.8	120	220	2400	100	.66	18	2280			.48	19.13
5	110	210	2450	100	.66	16	2340			.44	19.64
5.2	140	220	2700	80	.53	26	2560			.56	18.4
5.4	130	230	2700	100	.66	19	2570			.52	18.72
5.6	140	210	2700	70	.46	30	2560			.56	18.4
5.8	110	200	2800	90	.6	18	2690			.44	19.64
6	130	210	2920	80	.53	24	2770			.52	18.72
6.2	180	260	3200	80	.53	34	3020			.72	17.6
6.4	200	310	3300	110	.73	27	3100			.8	17.36
6.6	210	380	3500	170	1.13	19	3290			.84	17.25
6.8	250	400	3600	150	1	25	3350			1	16.83
7	230	460	3750	230	1.53	15	3520			.92	17.04
7.2	270	430	4000	160	1.06	25	3730			1.08	16.6
7.4	260	470	4050	210	1.4	19	3790			1.04	16.72
7.6	220	420	4250	200	1.33	16	4030			.88	17.15
7.8	250	470	4400	220	1.46	17	4150			1	16.83
8	300	470	4550	170	1.13	26	4250			1.2	16.21

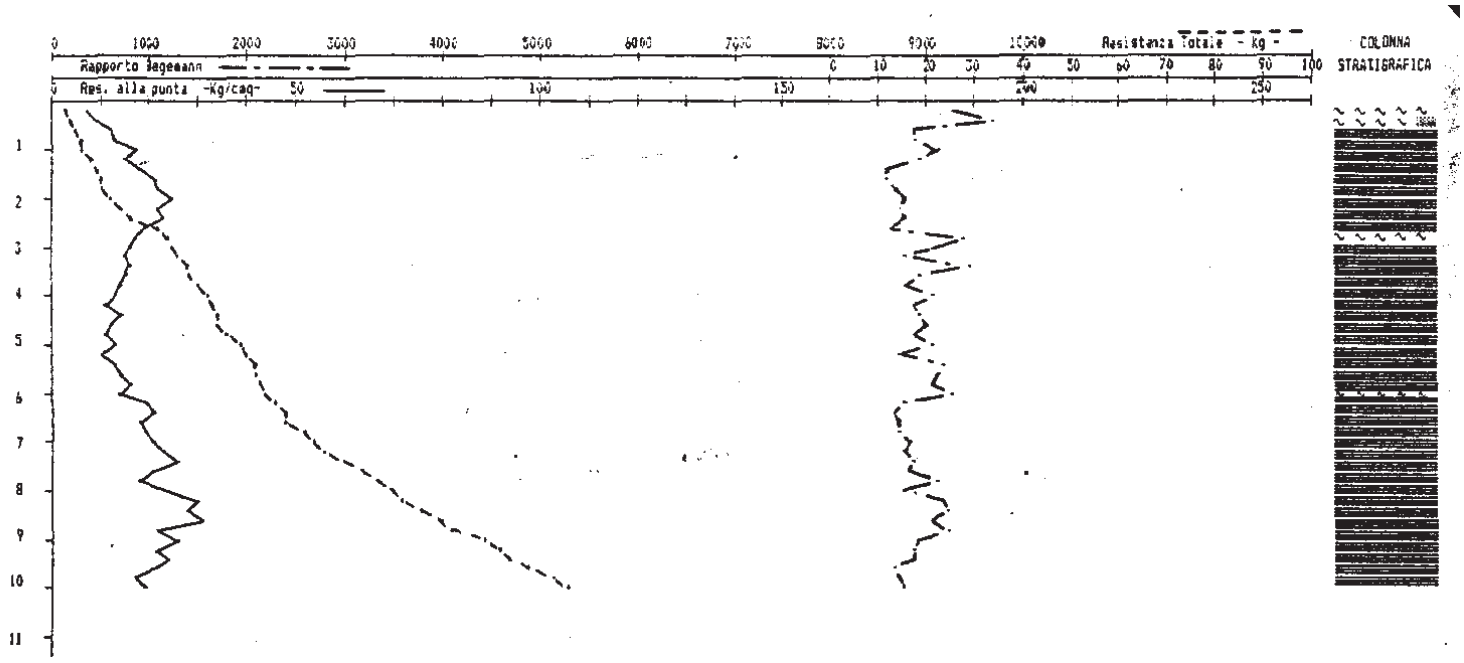
letture di campagna				valori derivati							
PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	270	480	4800	210	1.4	19	4530			1.08	16.6
8.4	310	520	4800	210	1.4	22	4490			1.24	16.06
8.6	270	480	5000	210	1.4	19	4730			1.08	16.6
8.8	310	550	5250	240	1.6	19	4940			1.24	16.06
9	350	500	5300	150	1	35	4950			1.4	15.42
9.2	280	490	5400	210	1.4	20	5120			1.12	16.48
9.4	250	460	5400	210	1.4	18	5150			1	16.83
9.6	290	500	5500	210	1.4	21	5210			1.16	16.35
9.8	230	430	5500	200	1.33	17	5270			.92	17.04
10	210	430	5600	220	1.46	14	5390			.84	17.25


Rapporto Begemann
Res. alla punta -Kg/cmq-
Resistenza Totale - Kg -
COLONNA STRATIGRAFICA

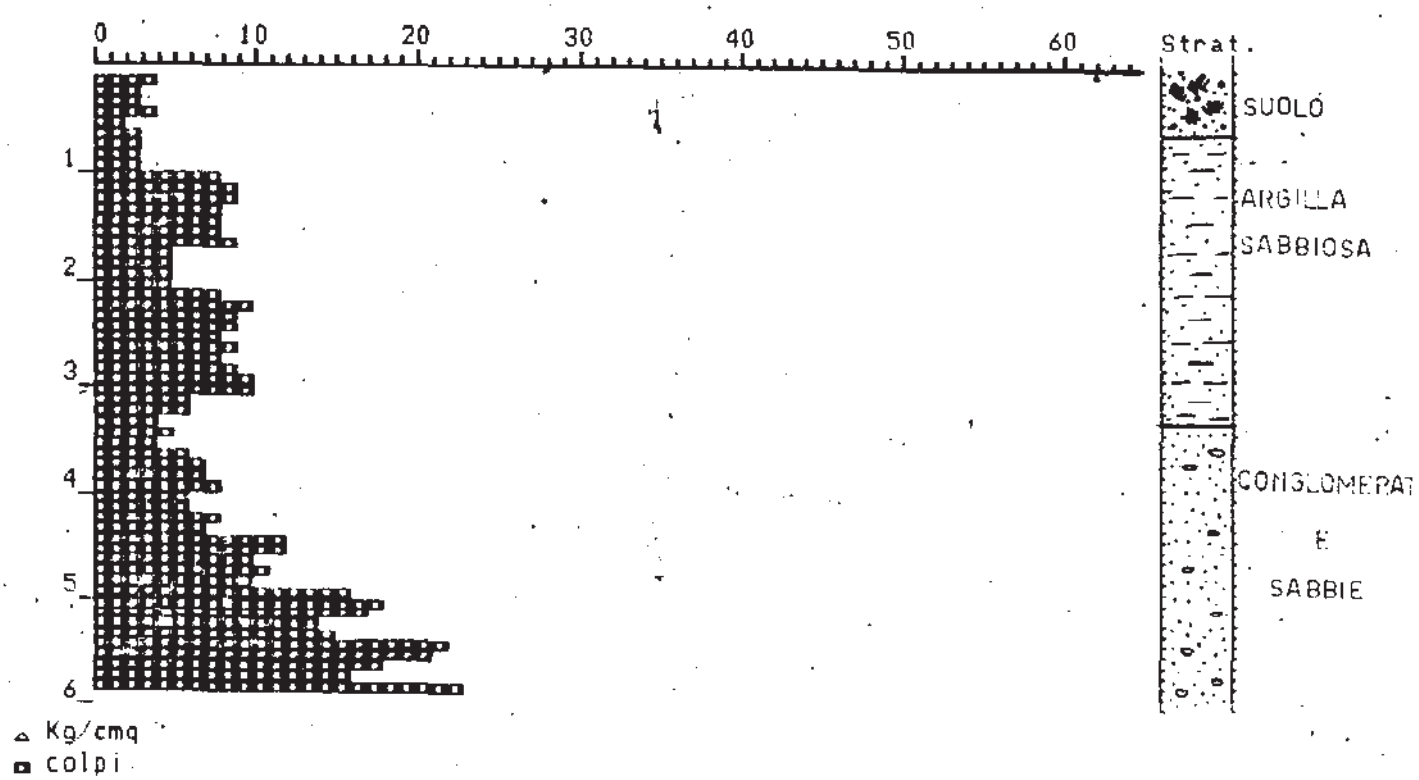
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	70	110	150	40	.26	26	80			.26	23.81
.4	90	130	200	40	.26	34	110			.36	21.14
.6	120	220	250	100	.66	18	130			.48	19.13
.8	130	240	300	110	.73	18	170			.52	18.72
1	170	280	300	110	.73	23	130			.56	17.75
1.2	150	270	400	120	.8	19	250			.6	18.14
1.4	180	400	450	220	1.46	12	270			.72	17.6
1.6	210	470	500	260	1.73	12	290			.84	17.25
1.8	220	460	500	240	1.6	14	280			.88	17.15
2	250	490	600	240	1.6	16	350			1	16.83
2.2	220	440	700	220	1.46	15	480			.88	17.15
2.4	230	450	800	220	1.46	16	570			.92	17.04
2.6	190	410	1100	220	1.46	13	910			.76	17.47
2.8	170	260	1200	90	.46	28	1030			.68	17.75
3	160	270	1250	110	.73	22	1090			.64	17.93
3.2	150	290	1300	140	.93	16	1150			.6	18.14
3.4	160	300	1400	140	.93	17	1240			.64	17.93
3.6	150	270	1400	120	.8	19	1250			.6	18.14
3.8	140	270	1500	130	.86	16	1310			.56	18.4
4	130	220	1600	90	.6	22	1410			.52	18.72
4.2	110	200	1650	90	.6	18	1540			.44	19.64
4.4	140	250	1700	110	.73	19	1560			.56	18.4
4.6	120	210	1700	90	.6	20	1580			.48	19.13
4.8	110	200	1800	90	.6	18	1690			.44	19.64
5	130	220	1950	90	.6	22	1810			.52	18.72
5.2	100	200	2000	100	.66	15	1900			.4	20.3
5.4	130	210	2100	80	.53	24	1970			.52	18.72
5.6	140	230	2100	90	.6	23	1960			.56	18.4
5.8	160	270	2150	110	.73	22	1990			.64	17.93
6	140	220	2200	80	.53	26	2060			.56	18.4
6.2	190	370	2300	180	1.2	16	2110			.76	17.47
6.4	210	430	2400	220	1.46	14	2190			.84	17.25
6.6	180	360	2400	180	1.2	15	2220			.72	17.6
6.8	190	380	2600	190	1.26	15	2410			.76	17.47
7	210	400	2700	190	1.26	17	2490			.84	17.25
7.2	230	440	2800	210	1.4	16	2570			.92	17.04
7.4	260	480	3000	220	1.46	18	2710			1.04	16.72
7.6	210	390	3200	180	1.2	17	2990			.84	17.25
7.8	180	300	3250	120	.8	23	3170			.72	17.6
8	240	470	3500	230	1.53	16	3260			.96	16.94

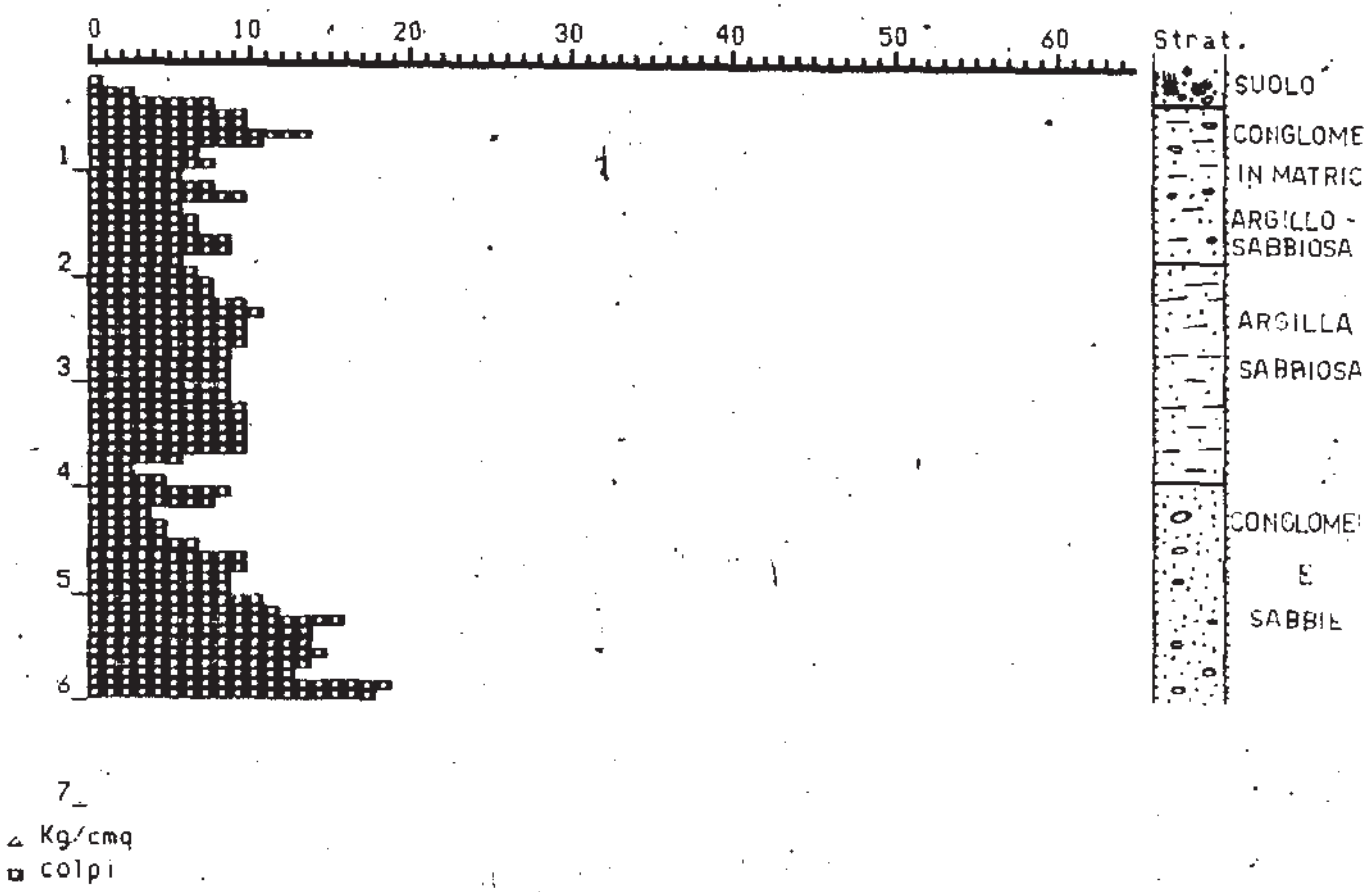
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	300	490	3600	190	1.26	24	3300			1.2	16.21
8.4	280	450	3800	170	1.13	25	3520			1.12	16.48
8.6	310	520	4050	210	1.4	22	3690			1.24	16.06
8.8	220	350	4100	130	.86	25	3880			.88	17.15
9	260	470	4450	210	1.4	19	4190			1.04	16.72
9.2	220	400	4600	180	1.2	18	4380			.88	17.15
9.4	240	440	4700	200	1.33	18	4460			.96	16.94
9.6	220	460	4900	240	1.6	14	4680			.88	17.15
9.8	170	340	5150	170	1.13	15	4980			.68	17.75
10	190	370	5300	180	1.2	16	5110			.76	17.47

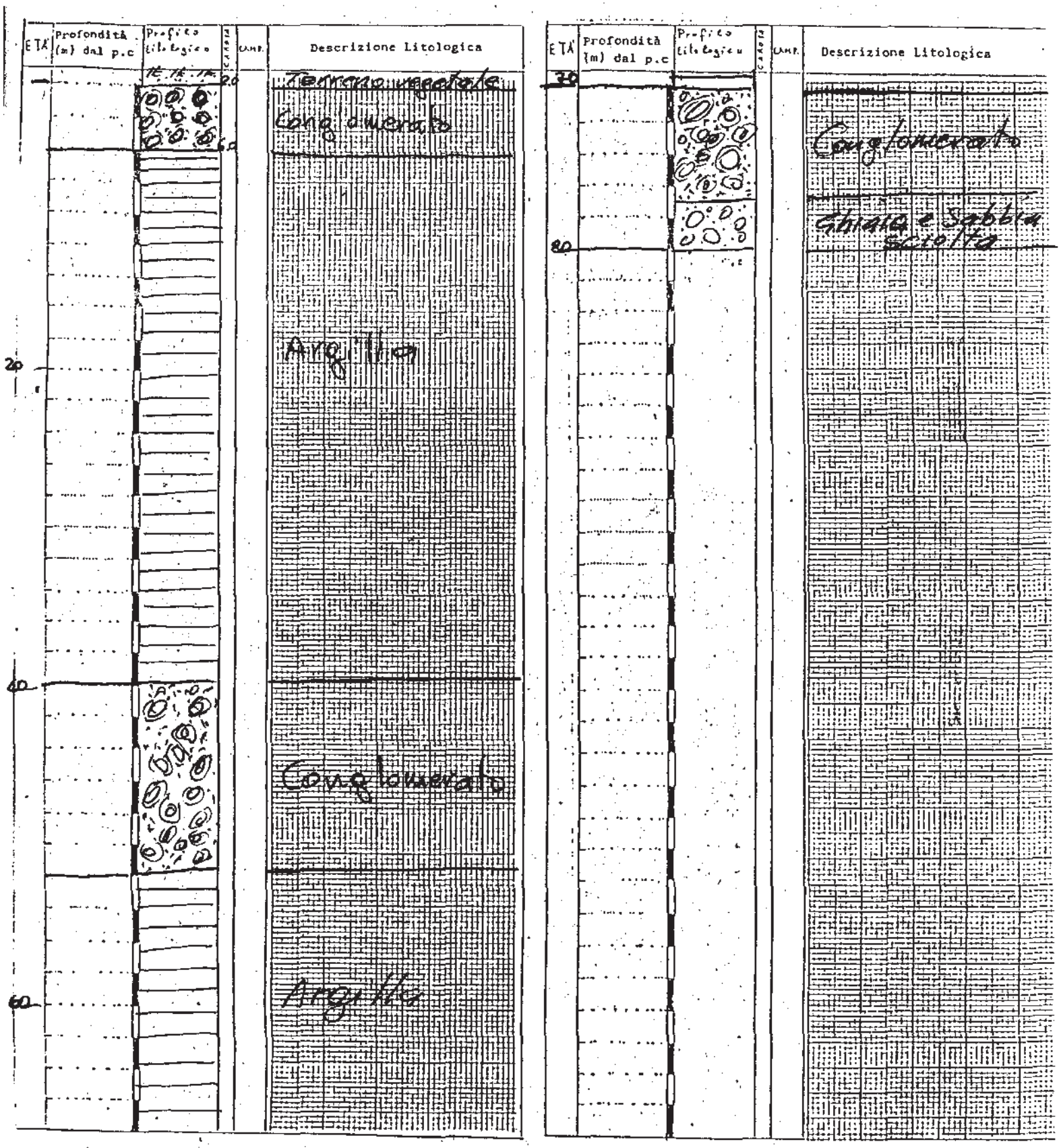
2347


0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Resistenza Totale - Kg -
Rapporto Begemann
0
10
20
30
40
50
60
70
80
90
100
Res. alla punta -Kg/cmq-
50
100
150
200
250
COLONNA STRATIGRAFICA
1
2
3
4
5
6
7
8
9
10
11

2348

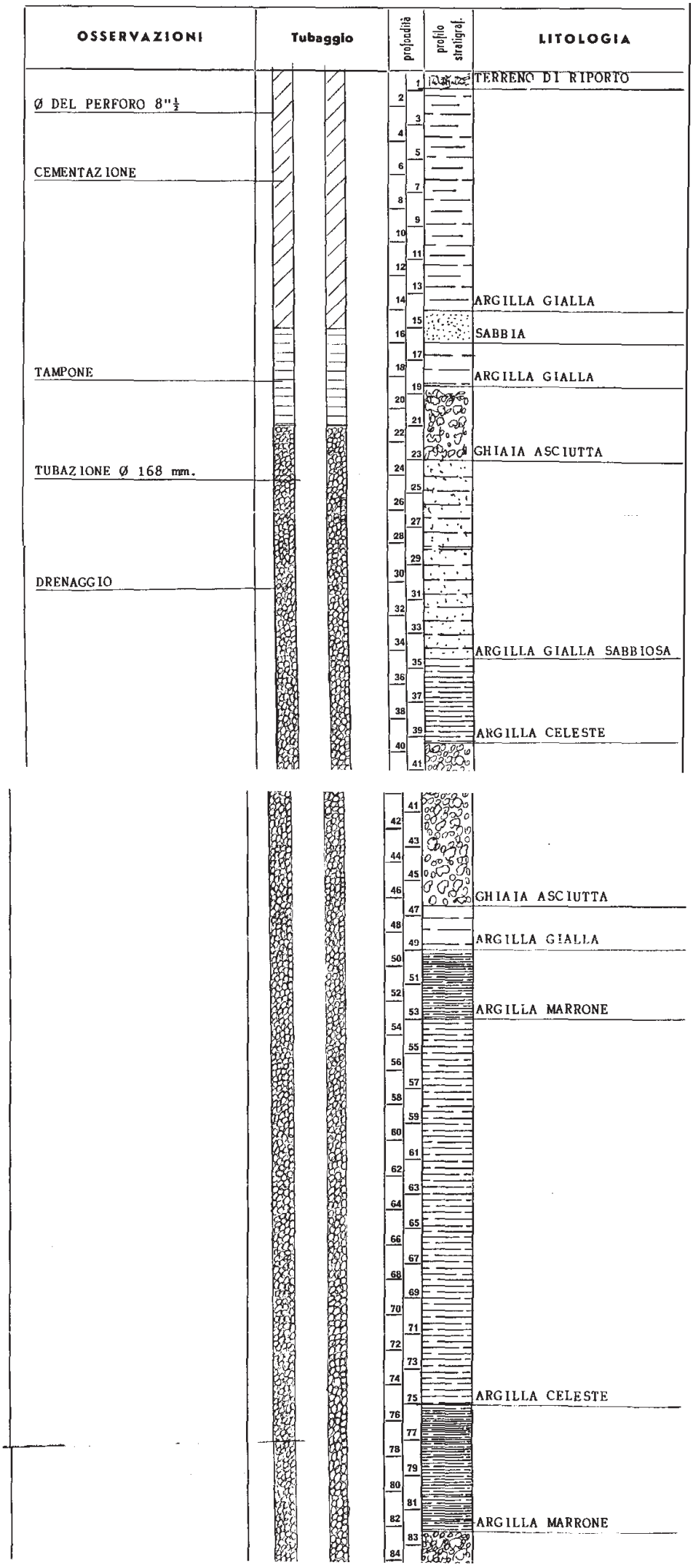

0
10
20
30
40
50
60
1
2
3
4
5
6
Kg/cmq
colpi
Strat.
SUOLO
ARGILLA
SABBIOSA
CONGLOMERATI
E
SABBIE


0
10
20
30
40
50
60
Strat.
1
2
3
4
5
6
7
SUOLO
CONGLOME
IN MATRIC
ARGILLO -
SABBIOSA
ARGILLA
SABBIOSA
CONGLOME
E
SABBIE
Kg/cmq
colpi

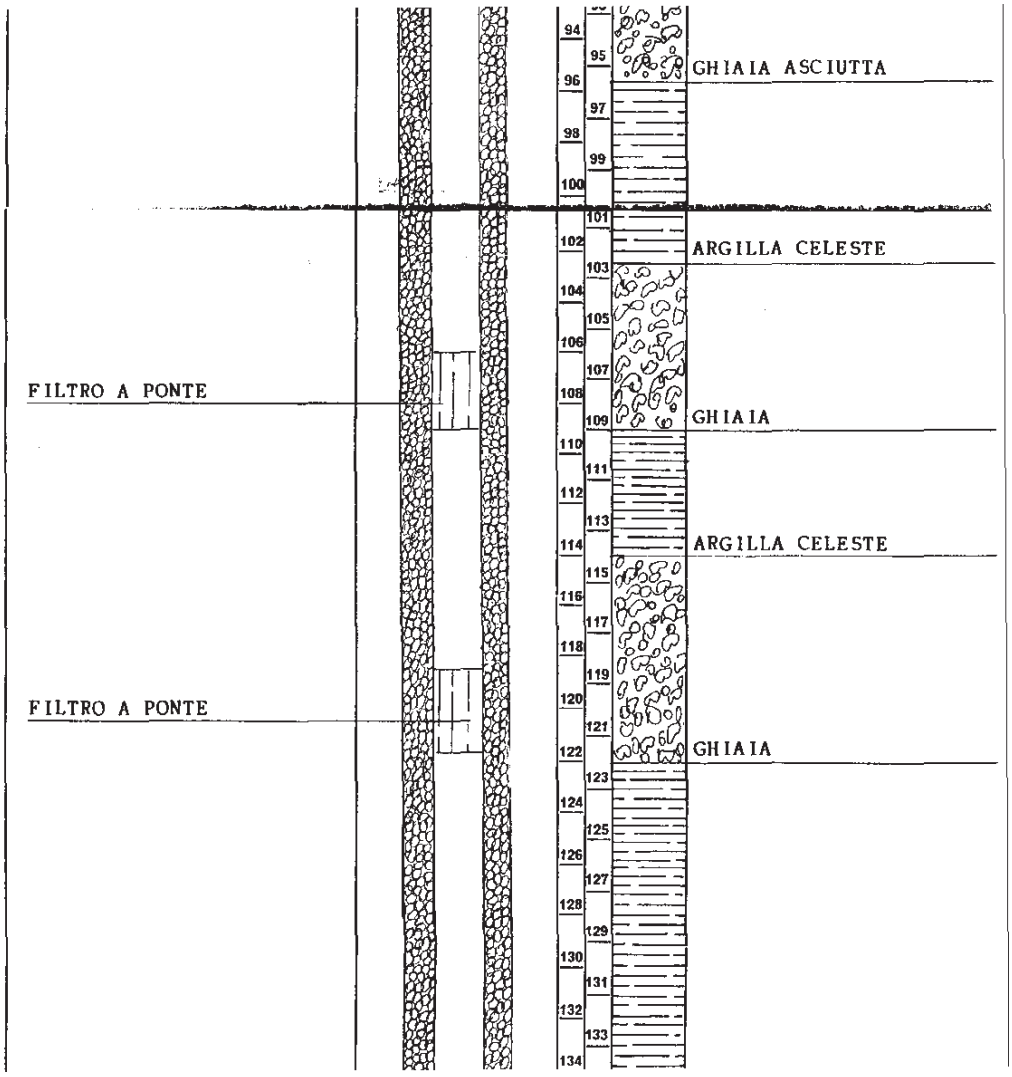

ETA'
Profondità (m) dal p.c
Profilo litologico
CAMP.
Descrizione Litologica
Terreno vegetale
Conglomerato
Argilla
Conglomerato
Argilla
20
40
60
ETA'
Profondità (m) dal p.c
Profilo litologico
CAMP.
Descrizione Litologica
30
80
Conglomerato
Ghiaia e Sabbia sciolta

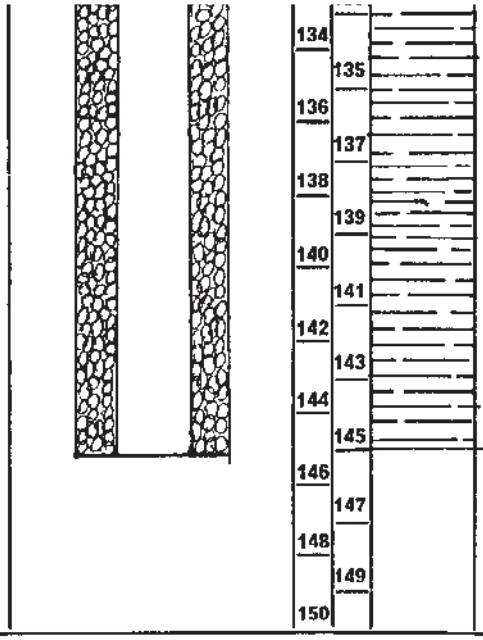
- TERRENO DI RIPORTO da m. 0 a m. 3
- PIANO DI CAMPAGNA da m. 3 a m. 12
- SABBIA CON LIMO da m. 12 a m. 16
- ARGILLA da m. 16 a m. 24
- SABBIA da m. 24 a m. 29

- PORTATA DEL POZZO LITRI 90 al minuto
- LIVELLO DAL PIANO DI CAMPAGNA m. 12
- TUBAZIONE Ø 125
- TRIVELLAZIONE EFFETTUATA A FANGO


OSSERVAZIONI
Tubaggio
profondità
profilo stratigraf.
LITOLOGIA
Ø DEL PERFORO 8"½
CEMENTAZIONE
TAMPONE
TUBAZIONE Ø 168 mm.
DRENAGGIO
TERRENO DI RIPORTO
ARGILLA GIALLA
SABBIA
ARGILLA GIALLA
GHIAIA ASCIUTTA
ARGILLA GIALLA SABBIOSA
ARGILLA CELESTE
GHIAIA ASCIUTTA
ARGILLA GIALLA
ARGILLA MARRONE
ARGILLA CELESTE
ARGILLA MARRONE

2870





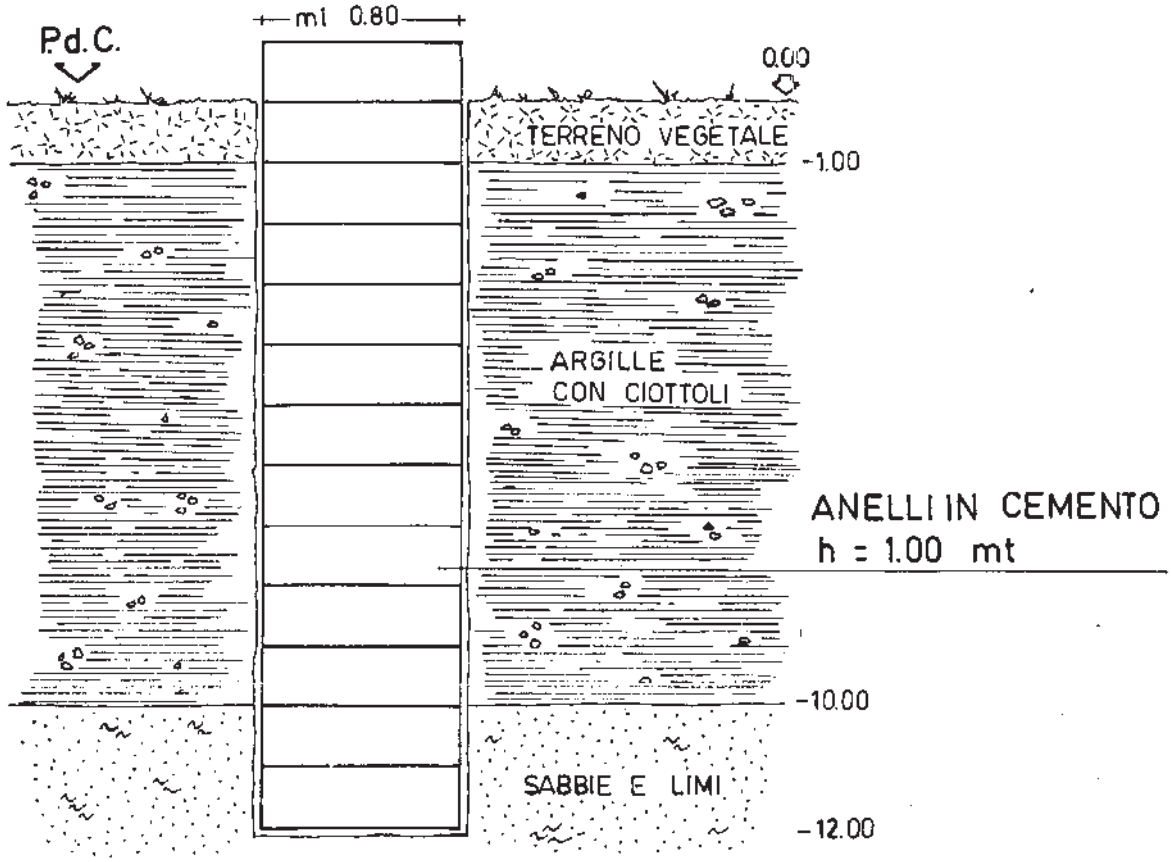
PROVE DI PORTATA

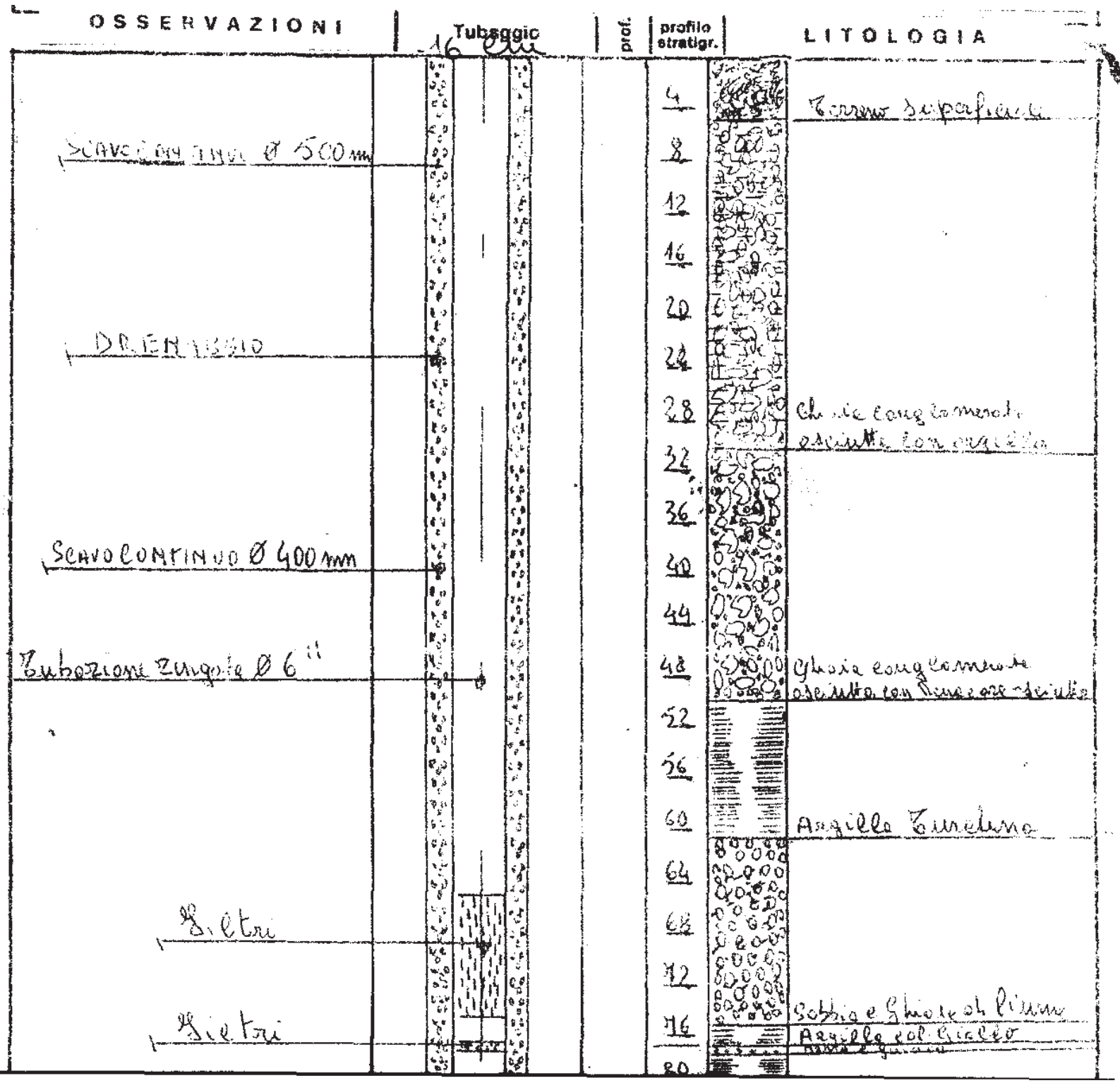
Livello dinamico m. 80

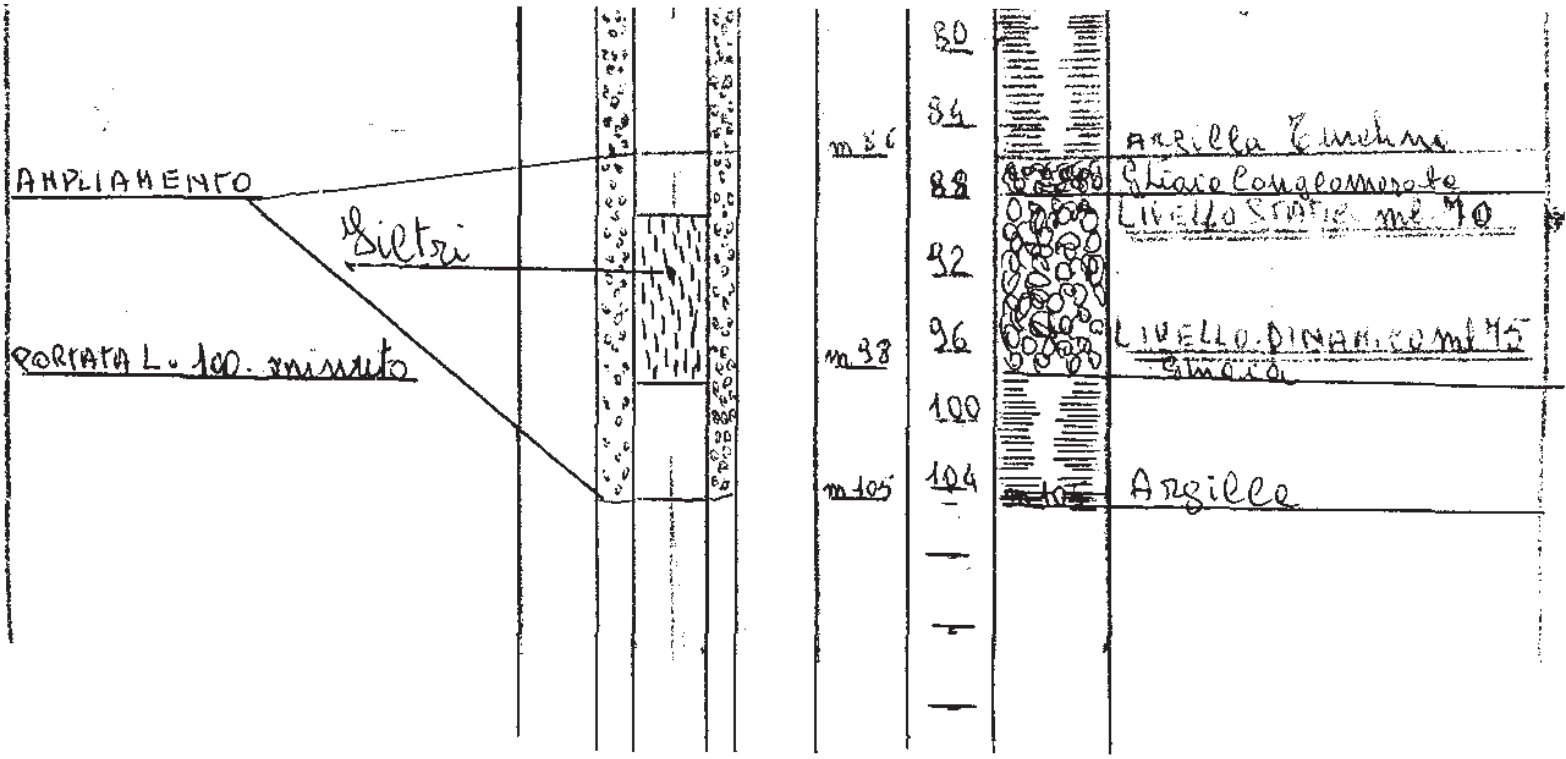
Livello statico m. 67

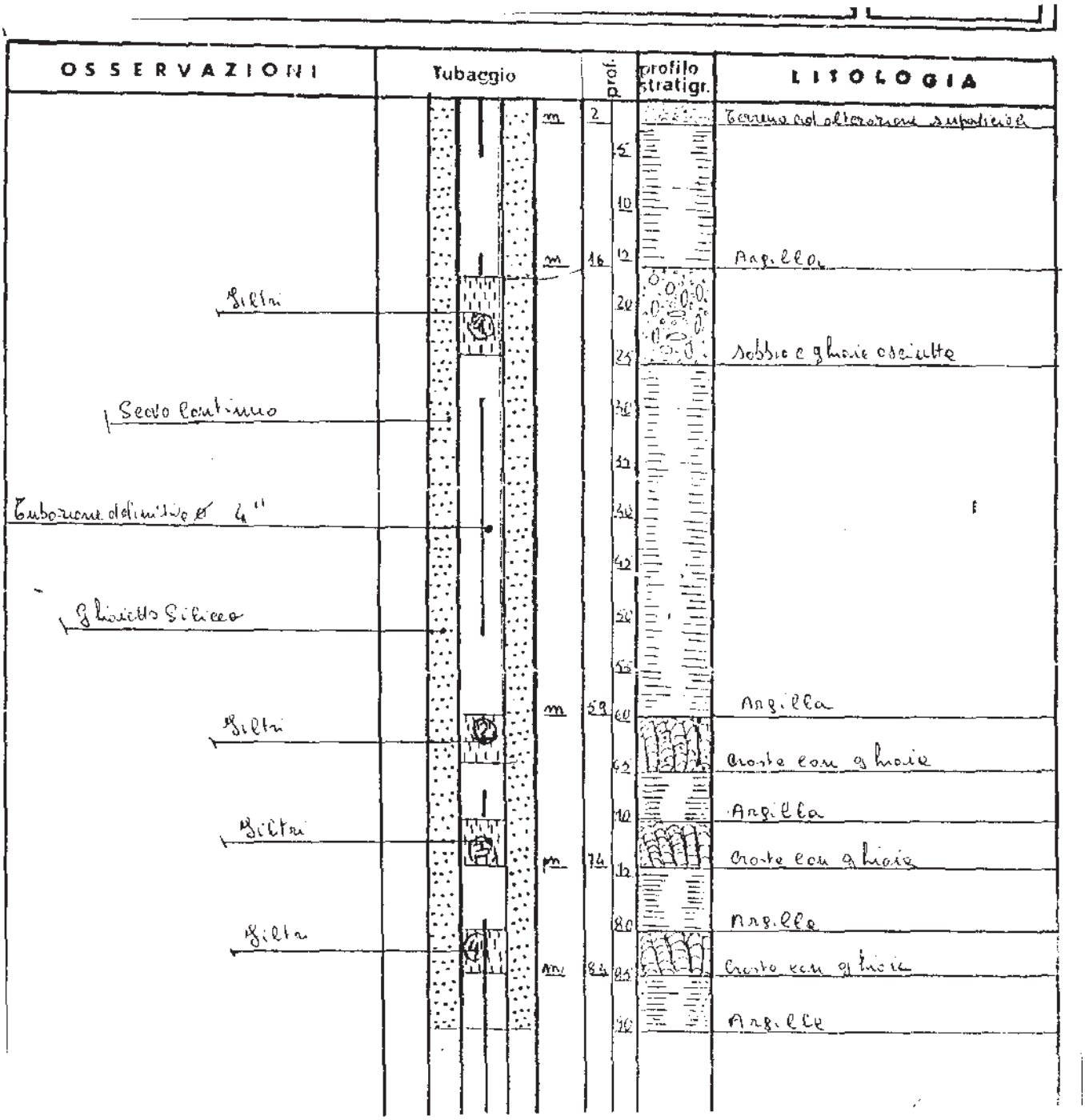
Portata al primo, lt. 30

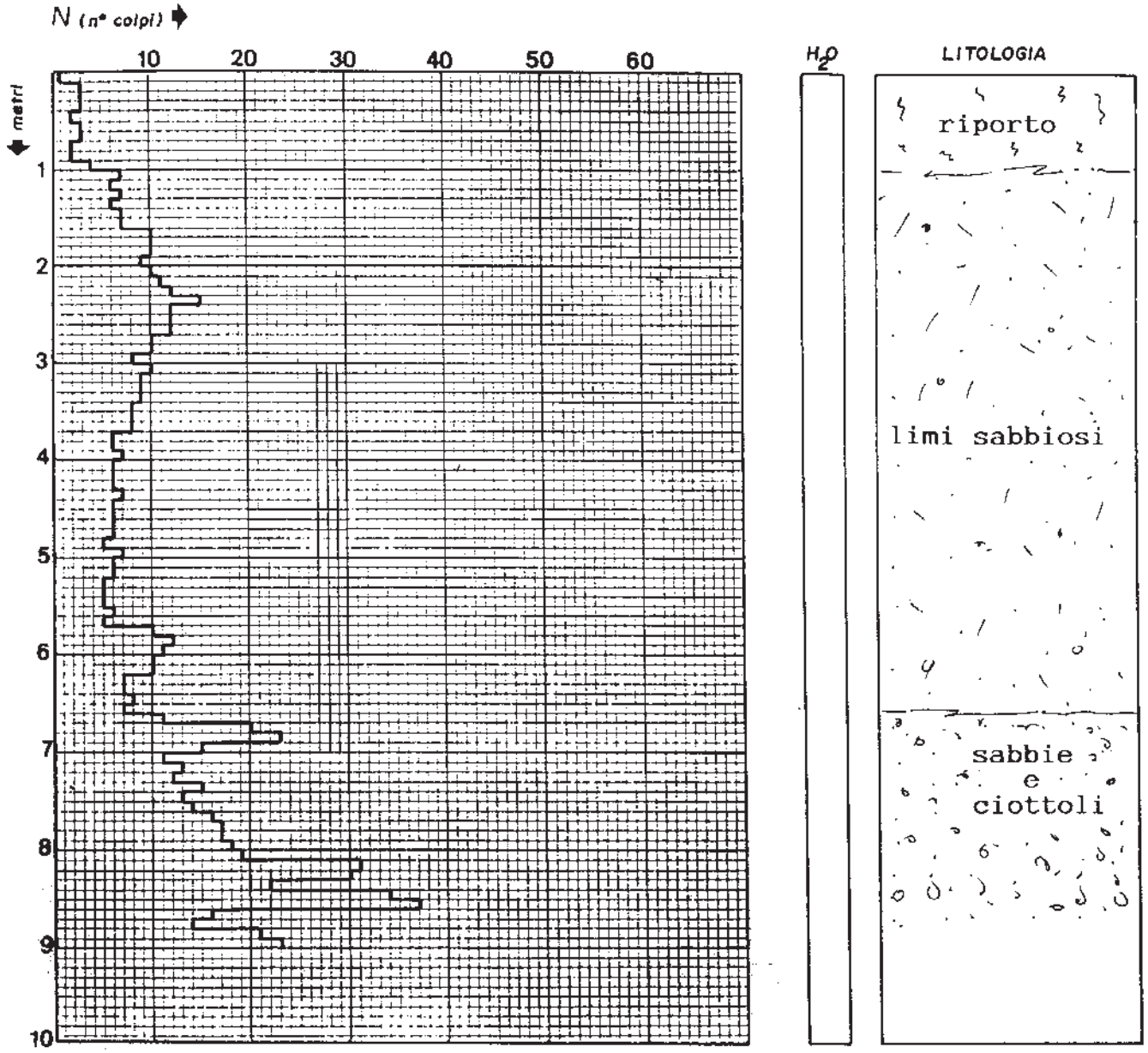
Prova eseguita il _____

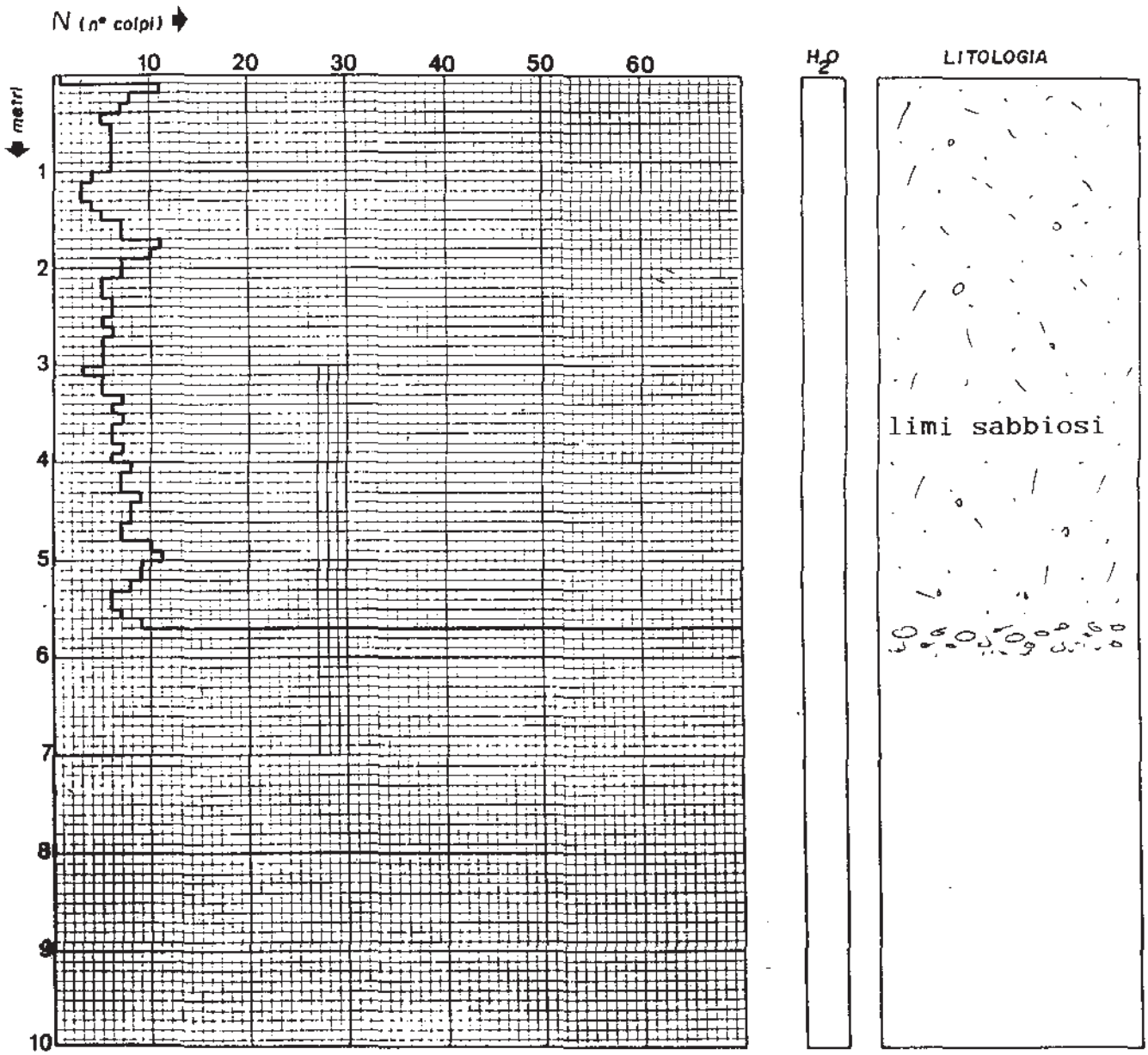

P.d.C.
mt 0.80
0.00
TERRENO VEGETALE
-1.00
ARGILLE
CON CIOTTOLI
ANELLI IN CEMENTO
h = 1.00 mt
-10.00
SABBIE E LIMI
-12.00


OSSERVAZIONI
Tubaggio
prof.
profilo stratigr.
LITOLOGIA
Scavo a cielo aperto Ø 1500 mm
DRENAGGIO
Scavo continuo Ø 400 mm
Tubazione cunicolo Ø 6"
Filtri
Filtri
4
8
12
16
20
24
28
32
36
40
44
48
52
56
60
64
68
72
76
80
Terreno superficiale
Ghiaia conglomerata cementata con argilla
Ghiaia conglomerata cementata con rare argille
Argilla turchina
Sabbia e ghiaia sciolta
Argilla sul giallo


AMPLIAMENTO
filtri
PORTATA L. 100. minuto
m 80
84
88
92
96
m 98
100
104
m 105
Argilla limosa
Ghiaia conglomerata
Livello sfrutt. ml 90
Livello dinam. cm 45
Argille

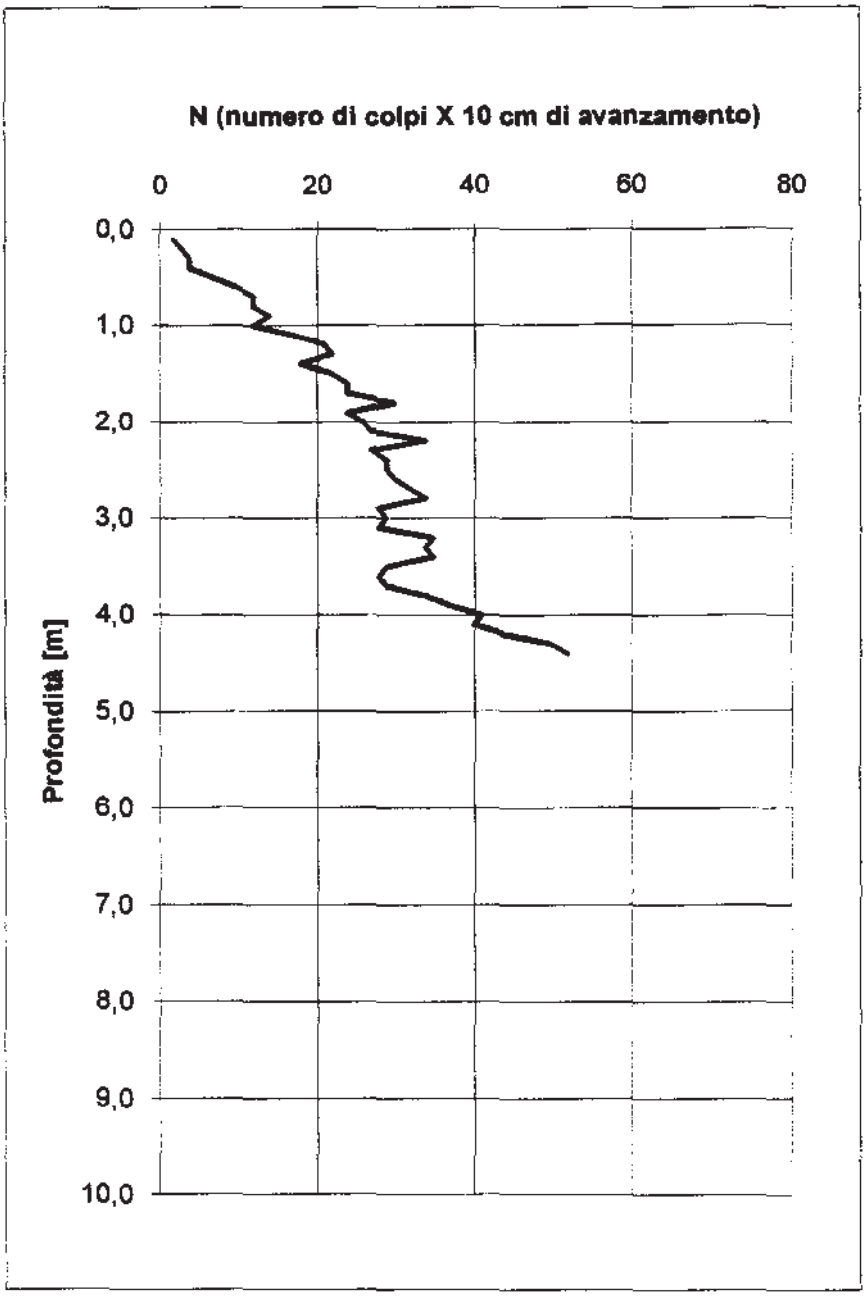

OSSERVAZIONI
Tubaggio
prof.
profilo stratigr.
LITOLOGIA
Terreno col alterazioni superficiali
Argilla
Sabbie e ghiaie asciutte
Argilla
Ghiaie con argilla
Argilla
Ghiaie con argilla
Argille
Ghiaie con argilla
Argille
Filtri
Filtri
Filtri
Filtri
Secco continuo
Tubazione definitiva ø 4"
Ghiaietto silicio
m
m
m
m
m
2
16
59
74
84
5
10
12
20
25
30
32
40
42
50
55
60
62
70
80
85
90


N (n° colpi)
10
20
30
40
50
60
metri
1
2
3
4
5
6
7
8
9
10
H2O
LITOLOGIA
riporto
limi sabbiosi
sabbie
e
ciottoli

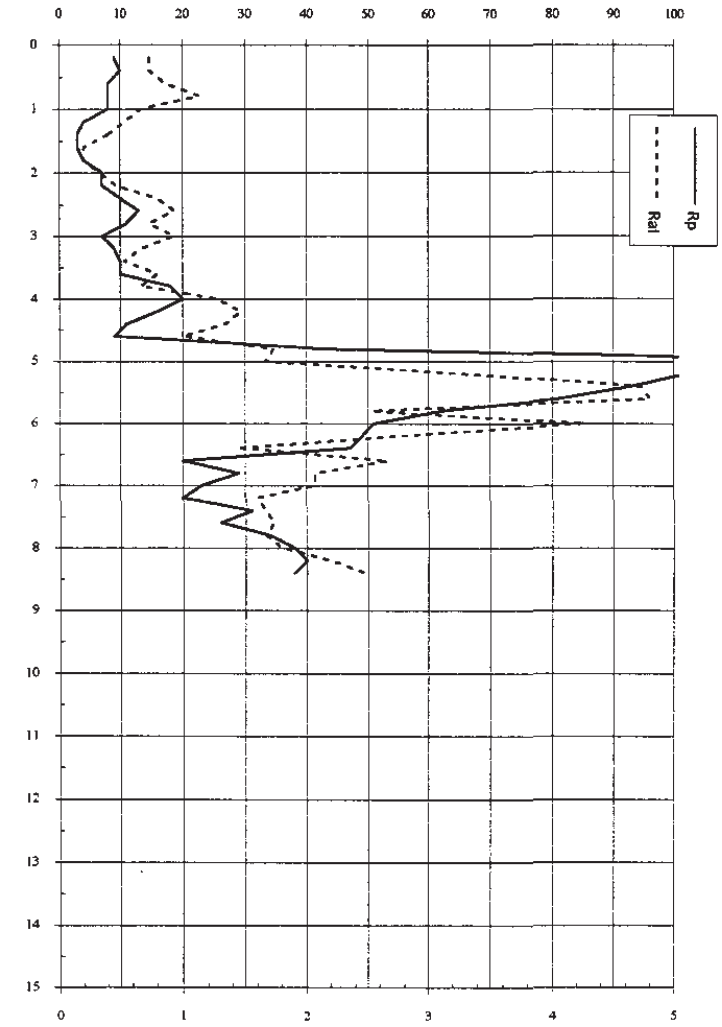

N (n° colpi)
10
20
30
40
50
60
metri
1
2
3
4
5
6
7
8
9
10
H2O
LITOLOGIA
limi sabbiosi

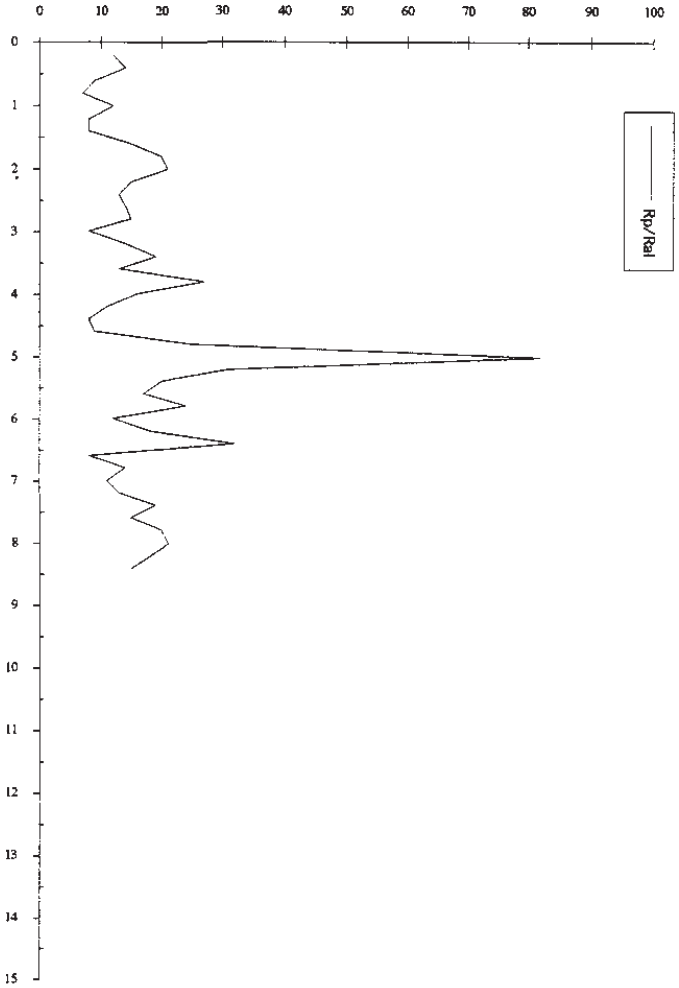
LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

Prof.	N	Rd	Nspt
0,1	2	8,0	2
0,2	3	12,0	2
0,3	4	16,0	3
0,4	4	16,0	3
0,5	7	28,1	5
0,6	10	40,1	8
0,7	12	48,1	9
0,8	12	48,1	9
0,9	14	56,1	11
1,0	12	48,1	9
1,1	17	68,2	13
1,2	21	84,2	16
1,3	22	88,2	17
1,4	18	72,2	14
1,5	22	88,2	17
1,6	24	96,2	18
1,7	24	96,2	18
1,8	30	120,3	23
1,9	24	96,2	18
2,0	26	104,2	20
2,1	27	108,2	20
2,2	34	136,3	26
2,3	27	108,2	20
2,4	29	116,3	22
2,5	29	116,3	22
2,6	30	120,3	23
2,7	32	128,3	24
2,8	34	136,3	26
2,9	28	112,2	21
3,0	29	116,3	22
3,1	28	112,2	21
3,2	35	140,3	27
3,3	34	136,3	26
3,4	35	140,3	27
3,5	29	116,3	22
3,6	28	112,2	21
3,7	29	116,3	22
3,8	34	136,3	26
3,9	37	148,3	28
4,0	41	164,4	31
4,1	40	160,4	30
4,2	44	176,4	33
4,3	50	200,4	38
4,4	52	208,5	39
4,5	-	-	-
4,6	-	-	-
4,7	-	-	-
4,8	-	-	-
4,9	-	-	-
5,0	-	-	-


N (numero di colpi X 10 cm di avanzamento)
0
20
40
60
80
Profondità [m]
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0

		letture di campagna			valori derivati								
Prof.	H2O	Rpt	Rat	Rt	Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20		90	200	1000	110	0,73	12	910			0,45	21,16	Argilla
0,40		100	210	1000	110	0,73	14	900			0,50	20,30	Argilla
0,60		80	210	280	130	0,87	9	200			0,40	22,29	Argilla
0,80		80	250	270	170	1,13	7	190			0,40	22,29	Argilla
1,00		80	180	240	100	0,67	12	160			0,40	22,29	Argilla
1,20		40	120	330	80	0,53	8	290			0,20	33,74	Argilla
1,40		30	90	330	60	0,40	8	300			0,15	41,81	Argilla
1,60		30	60	350	30	0,20	15	320			0,15	41,81	Argilla
1,80		40	70	380	30	0,20	20	340			0,20	33,74	Argilla
2,00		70	120	440	50	0,33	21	370			0,35	23,81	Argilla
2,20		70	140	590	70	0,47	15	520			0,35	23,81	Argilla
2,40		100	220	610	120	0,80	13	510			0,50	20,30	Argilla
2,60		130	270	760	140	0,93	14	630			0,65	18,72	Argilla
2,80		110	220	800	110	0,73	15	690			0,55	19,64	Argilla
3,00		70	210	820	140	0,93	8	750			0,35	23,81	Argilla
3,20		90	190	990	100	0,67	14	900			0,45	21,16	Argilla
3,40		100	180	1020	80	0,53	19	920			0,50	20,30	Argilla
3,60		100	220	1110	120	0,80	13	1010			0,50	20,30	Argilla
3,80		180	280	1230	100	0,67	27	1050			0,90	17,60	Limo
4,00		200	390	1370	190	1,27	16	1170			1,00	17,36	Argilla
4,20		160	380	1480	220	1,47	11	1320			0,80	17,93	Argilla
4,40		110	310	1540	200	1,33	8	1430			0,55	19,64	Argilla
4,60		90	240	1590	150	1,00	9	1500			0,45	21,16	Argilla
4,80		430	690	2600	260	1,73	25	2170			1,43	13,92	Argilla
5,00		1370	1620	3420	250	1,67	82	2050	40	70		4,86	Sabbia con ghiaia
5,20		1020	1510	3470	490	3,27	31	2450			3,40	6,53	Limo
5,40		930	1640	3620	710	4,73	20	2690			3,10	7,15	Argilla
5,60		810	1530	3360	720	4,80	17	2550			2,70	8,20	Argilla
5,80		620	1000	3530	380	2,53	24	2910			2,07	10,53	Argilla
6,00		510	1150	3560	640	4,27	12	3050			1,70	12,39	Argilla
6,20		490	900	3690	410	2,73	18	3200			1,63	12,76	Argilla
6,40		470	690	3730	220	1,47	32	3260			1,57	13,14	Limo
6,60		200	600	3410	400	2,67	8	3210			1,00	17,36	Argilla
6,80		290	600	3730	310	2,07	14	3440			1,16	16,35	Argilla
7,00		230	540	3790	310	2,07	11	3560			0,92	17,04	Argilla
7,20		200	440	4010	240	1,60	13	3810			1,00	17,36	Argilla
7,40		310	560	4180	250	1,67	19	3870			1,24	16,06	Argilla
7,60		260	520	4430	260	1,73	15	4170			1,04	16,72	Argilla
7,80		340	590	4730	250	1,67	20	4390			1,36	15,59	Argilla
8,00		380	650	5040	270	1,80	21	4660			1,52	14,87	Argilla
8,20		400	730	5400	330	2,20	18	5000			1,60	14,50	Argilla
8,40		380	750	5600	370	2,47	15	5220			1,52	14,87	Argilla
8,60													
8,80													
9,00													
9,20													
9,40													
9,60													
9,80													
10,00													
10,20													
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14,60													
14,80													
15,00													

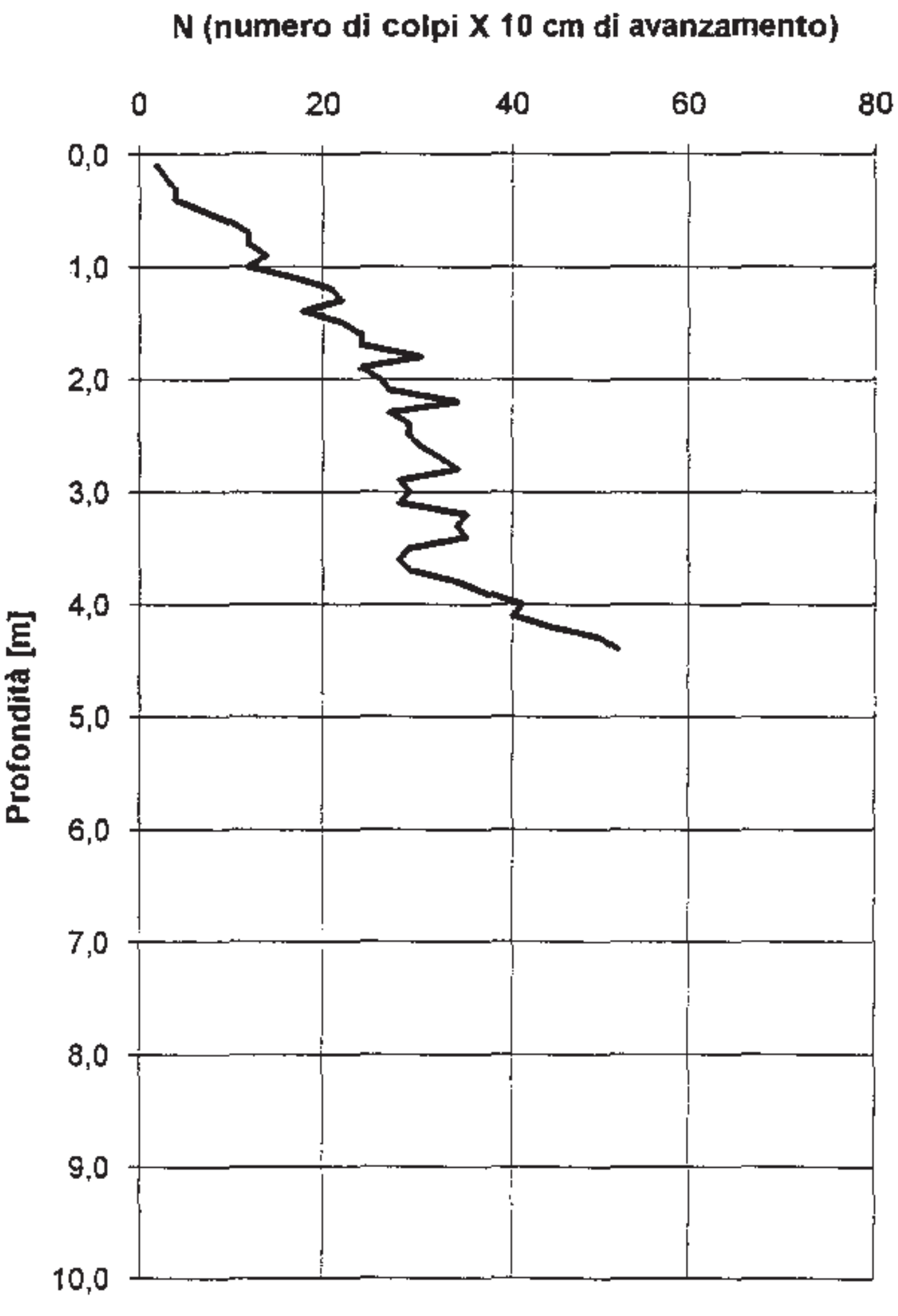

0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp
Ral
0 1 2 3 4 5


0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp/Ral

3214

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	2	8,0	2	5,1	-	-	-
0,2	3	12,0	2	5,2	-	-	-
0,3	4	16,0	3	5,3	-	-	-
0,4	4	16,0	3	5,4	-	-	-
0,5	7	28,1	5	5,5	-	-	-
0,6	10	40,1	8	5,6	-	-	-
0,7	12	48,1	9	5,7	-	-	-
0,8	12	48,1	9	5,8	-	-	-
0,9	14	56,1	11	5,9	-	-	-
1,0	12	48,1	9	6,0	-	-	-
1,1	17	68,2	13	6,1	-	-	-
1,2	21	84,2	16	6,2	-	-	-
1,3	22	88,2	17	6,3	-	-	-
1,4	18	72,2	14	6,4	-	-	-
1,5	22	88,2	17	6,5	-	-	-
1,6	24	96,2	18	6,6	-	-	-
1,7	24	96,2	18	6,7	-	-	-
1,8	30	120,3	23	6,8	-	-	-
1,9	24	96,2	18	6,9	-	-	-
2,0	26	104,2	20	7,0	-	-	-
2,1	27	108,2	20	7,1	-	-	-
2,2	34	136,3	26	7,2	-	-	-
2,3	27	108,2	20	7,3	-	-	-
2,4	29	116,3	22	7,4	-	-	-
2,5	29	116,3	22	7,5	-	-	-
2,6	30	120,3	23	7,6	-	-	-
2,7	32	128,3	24	7,7	-	-	-
2,8	34	136,3	26	7,8	-	-	-
2,9	28	112,2	21	7,9	-	-	-
3,0	29	116,3	22	8,0	-	-	-
3,1	28	112,2	21	8,1	-	-	-
3,2	35	140,3	27	8,2	-	-	-
3,3	34	136,3	26	8,3	-	-	-
3,4	35	140,3	27	8,4	-	-	-
3,5	29	116,3	22	8,5	-	-	-
3,6	28	112,2	21	8,6	-	-	-
3,7	29	116,3	22	8,7	-	-	-
3,8	34	136,3	26	8,8	-	-	-
3,9	37	148,3	28	8,9	-	-	-
4,0	41	164,4	31	9,0	-	-	-
4,1	40	160,4	30	9,1	-	-	-
4,2	44	176,4	33	9,2	-	-	-
4,3	50	200,4	38	9,3	-	-	-
4,4	52	208,5	39	9,4	-	-	-
4,5	-	-	-	9,5	-	-	-
4,6	-	-	-	9,6	-	-	-
4,7	-	-	-	9,7	-	-	-
4,8	-	-	-	9,8	-	-	-
4,9	-	-	-	9,9	-	-	-
5,0	-	-	-	10,0	-	-	-

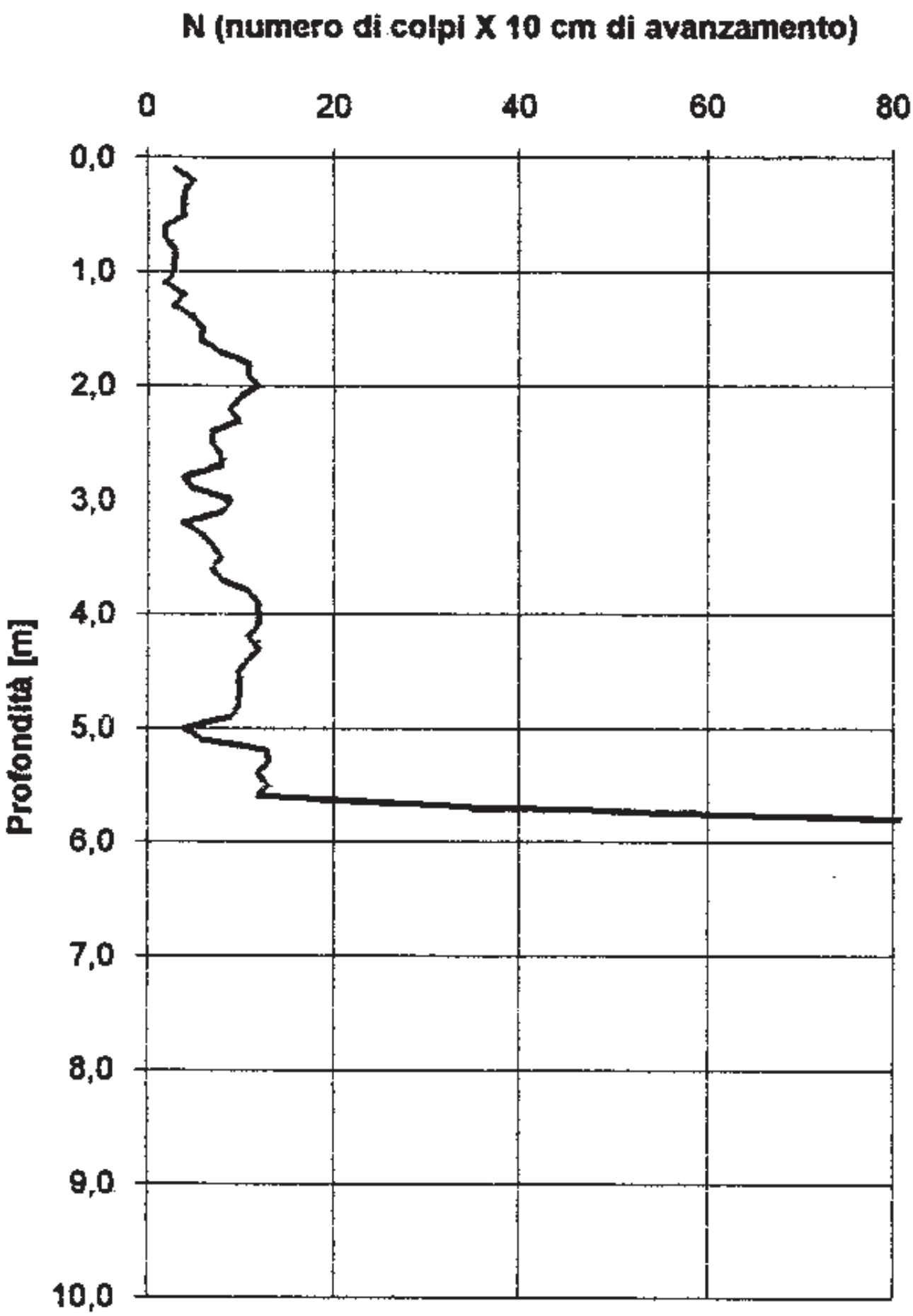
3214


N (numero di colpi X 10 cm di avanzamento)
0
20
40
60
80
Profondità [m]
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0

3376

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	3	12,0	2	5,1	6	24,1	5
0,2	5	20,0	4	5,2	13	52,1	10
0,3	4	16,0	3	5,3	13	52,1	10
0,4	4	16,0	3	5,4	12	48,1	9
0,5	4	16,0	3	5,5	13	52,1	10
0,6	2	8,0	2	5,6	12	48,1	9
0,7	2	8,0	2	5,7	35	140,3	27
0,8	3	12,0	2	5,8	78	312,7	59
0,9	3	12,0	2	5,9	110	441,0	83
1,0	3	12,0	2	6,0	98	392,9	74
1,1	2	8,0	2	6,1			
1,2	4	16,0	3	6,2			
1,3	3	12,0	2	6,3			
1,4	5	20,0	4	6,4			
1,5	6	24,1	5	6,5			
1,6	6	24,1	5	6,6			
1,7	8	32,1	6	6,7			
1,8	11	44,1	8	6,8			
1,9	11	44,1	8	6,9			
2,0	12	48,1	9	7,0			
2,1	10	40,1	8	7,1			
2,2	9	36,1	7	7,2			
2,3	10	40,1	8	7,3			
2,4	7	28,1	5	7,4			
2,5	7	28,1	5	7,5	-	-	-
2,6	8	32,1	6	7,6	-	-	-
2,7	8	32,1	6	7,7	-	-	-
2,8	4	16,0	3	7,8	-	-	-
2,9	5	20,0	4	7,9	-	-	-
3,0	9	36,1	7	8,0	-	-	-
3,1	8	32,1	6	8,1	-	-	-
3,2	4	16,0	3	8,2	-	-	-
3,3	6	24,1	5	8,3	-	-	-
3,4	7	28,1	5	8,4	-	-	-
3,5	8	32,1	6	8,5	-	-	-
3,6	7	28,1	5	8,6	-	-	-
3,7	8	32,1	6	8,7	-	-	-
3,8	11	44,1	8	8,8	-	-	-
3,9	12	48,1	9	8,9	-	-	-
4,0	12	48,1	9	9,0	-	-	-
4,1	12	48,1	9	9,1	-	-	-
4,2	11	44,1	8	9,2	-	-	-
4,3	12	48,1	9	9,3	-	-	-
4,4	11	44,1	8	9,4	-	-	-
4,5	10	40,1	8	9,5	-	-	-
4,6	10	40,1	8	9,6	-	-	-
4,7	10	40,1	8	9,7	-	-	-
4,8	10	40,1	8	9,8	-	-	-
4,9	9	36,1	7	9,9	-	-	-
5,0	4	16,0	3	10,0	-	-	

3376

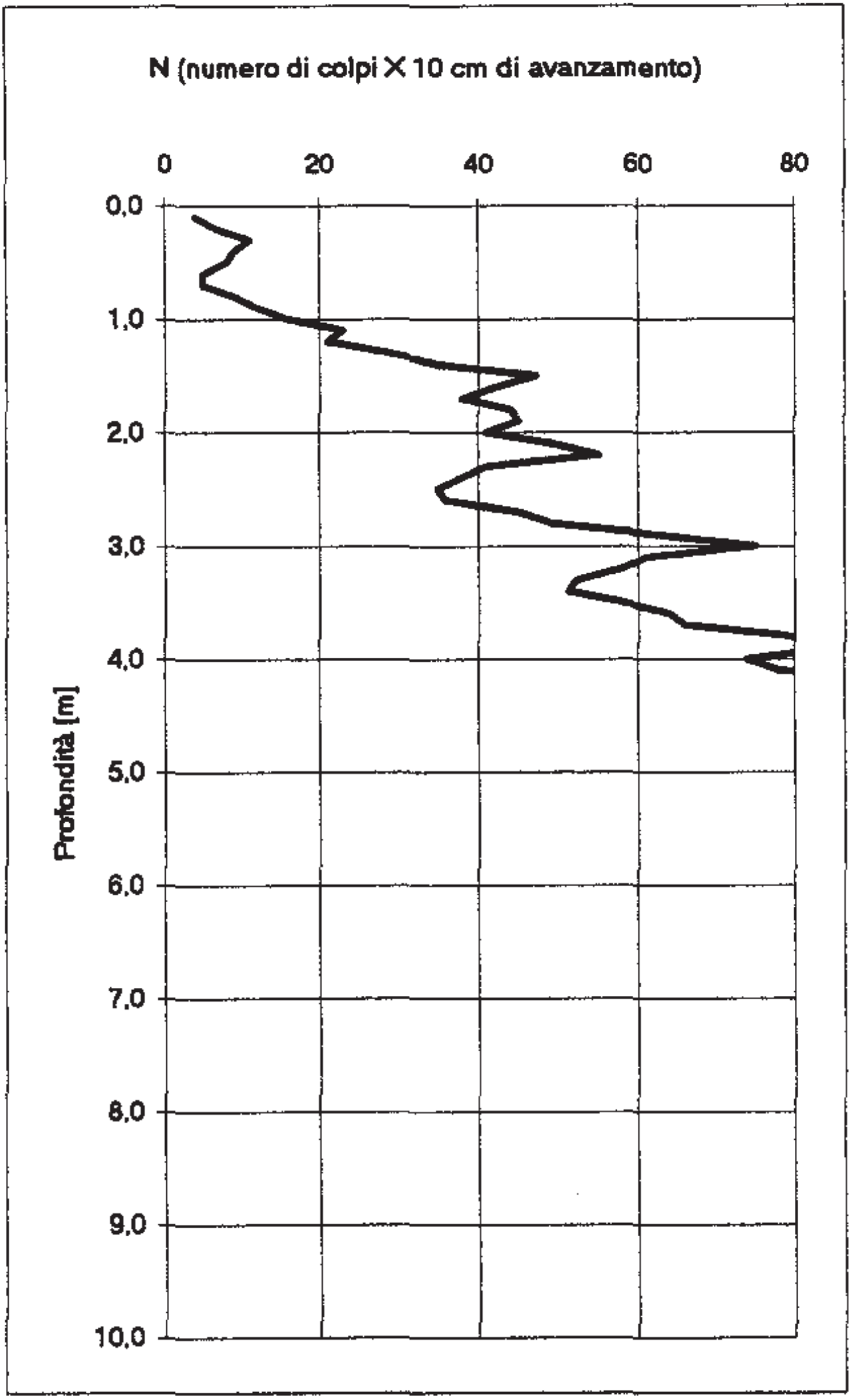

N (numero di colpi X 10 cm di avanzamento)
0
20
40
60
80
Profondità [m]
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

Committente:
Cantiere: via Lungomonte
Località Montecalvoli
Comune: S. Maria a Monte
Data: 27/08/98

3497

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	4	16,0	3	5,1	-	-	-
0,2	7	28,1	5	5,2	-	-	-
0,3	11	44,1	8	5,3	-	-	-
0,4	9	36,1	7	5,4	-	-	-
0,5	8	32,1	6	5,5	-	-	-
0,6	5	20,0	4	5,6	-	-	-
0,7	5	20,0	4	5,7	-	-	-
0,8	9	36,1	7	5,8	-	-	-
0,9	12	48,1	9	5,9	-	-	-
1,0	16	64,1	12	6,0	-	-	-
1,1	23	92,2	17	6,1	-	-	-
1,2	21	84,2	16	6,2	-	-	-
1,3	29	116,3	22	6,3	-	-	-
1,4	35	140,3	27	6,4	-	-	-
1,5	47	188,4	36	6,5	-	-	-
1,6	42	168,4	32	6,6	-	-	-
1,7	38	152,3	29	6,7	-	-	-
1,8	44	176,4	33	6,8	-	-	-
1,9	45	180,4	34	6,9	-	-	-
2,0	41	164,4	31	7,0	-	-	-
2,1	49	196,4	37	7,1	-	-	-
2,2	55	220,5	42	7,2	-	-	-
2,3	41	164,4	31	7,3	-	-	-
2,4	38	152,3	29	7,4	-	-	-
2,5	35	140,3	27	7,5	-	-	-
2,6	36	144,3	27	7,6	-	-	-
2,7	45	180,4	34	7,7	-	-	-
2,8	49	196,4	37	7,8	-	-	-
2,9	62	248,6	47	7,9	-	-	-
3,0	75	300,7	57	8,0	-	-	-
3,1	61	244,5	46	8,1	-	-	-
3,2	58	232,5	44	8,2	-	-	-
3,3	52	208,5	39	8,3	-	-	-
3,4	51	204,5	39	8,4	-	-	-
3,5	58	232,5	44	8,5	-	-	-
3,6	64	256,6	48	8,6	-	-	-
3,7	66	264,6	50	8,7	-	-	-
3,8	79	316,7	60	8,8	-	-	-
3,9	85	340,8	64	8,9	-	-	-
4,0	74	296,7	56	9,0	-	-	-
4,1	78	312,7	59	9,1	-	-	-
4,2	93	372,8	70	9,2	-	-	-
4,3	112	449,0	85	9,3	-	-	-
4,4	-	-	-	9,4	-	-	-
4,5	-	-	-	9,5	-	-	-
4,6	-	-	-	9,6	-	-	-
4,7	-	-	-	9,7	-	-	-
4,8	-	-	-	9,8	-	-	-
4,9	-	-	-	9,9	-	-	-
5,0	-	-	-	10,0	-	-	-


N (numero di colpi X 10 cm di avanzamento)
0
20
40
60
80
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0
Profondità [m]

Data: 22 Febbraio 2000 **Prova:** P.1

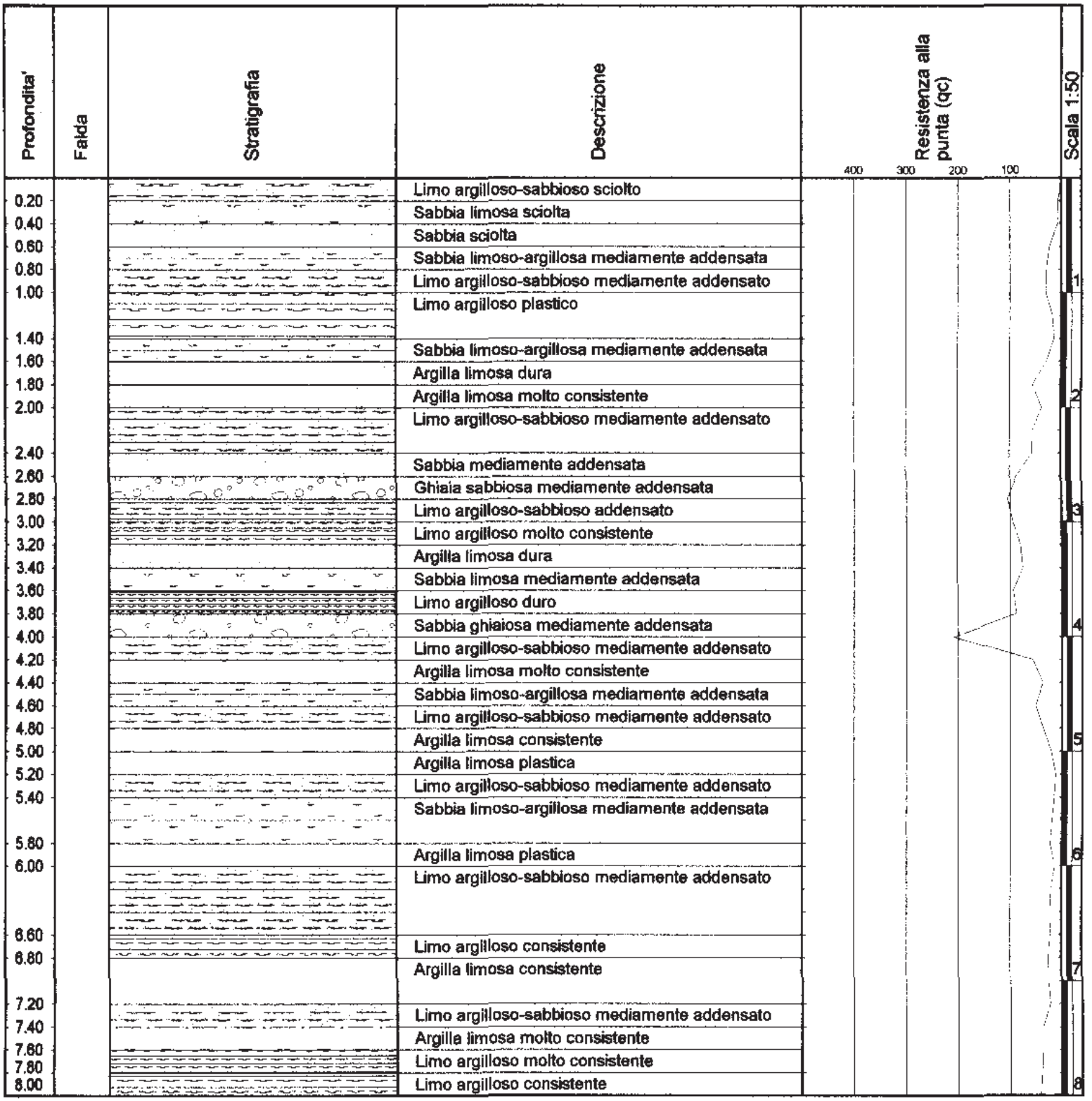
Committente: **Località:** Cerretti - S. Maria a Monte

3537

Tipologia intervento: Costruzione autorimessa interrata

m.	Qc (dN/cm^2)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.20	8	12	0.27	29.63
0.40	9	12	0.20	45.00
0.60	25	30	0.33	75.76
0.80	31	46	1.00	31.00
1.00	32	48	1.07	29.91
1.20	19	34	1.00	19.00
1.40	16	30	0.93	17.20
1.60	30	43	0.87	34.48
1.80	57	126	4.60	12.39
2.00	39	81	2.80	13.93
2.20	56	84	1.87	29.95
2.40	57	88	2.07	27.54
2.60	88	104	1.07	82.24
2.80	106	120	0.93	113.98
3.00	96	163	4.47	21.48
3.20	82	149	4.47	18.34
3.40	77	155	5.20	14.81
3.60	96	130	2.27	42.29
3.80	90	160	4.67	19.27
4.00	210	240	2.00	105.00
4.20	58	90	2.13	27.23
4.40	39	87	3.20	12.19
4.60	52	74	1.47	35.37
4.80	38	64	1.73	21.97
5.00	22	50	1.87	11.76
5.20	14	30	1.07	13.08
5.40	17	28	0.73	23.29
5.60	21	30	0.60	35.00
5.80	25	37	0.80	31.25
6.00	15	31	1.07	14.02
6.20	22	35	0.87	25.29
6.40	24	36	0.80	30.00
6.60	23	38	1.00	23.00
6.80	27	49	1.47	18.37
7.00	28	57	1.93	14.51
7.20	24	48	1.60	15.00
7.40	38	60	1.47	25.85
7.60	38	75	2.47	15.38
7.80	40	78	2.53	15.81
8.00	43	75	2.13	20.19

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**:Rapporto Begeman


Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
400
300
200
100
Scala 1:50
0.20 Limo argilloso-sabbioso sciolto
0.40 Sabbia limosa sciolta
0.60 Sabbia sciolta
0.80 Sabbia limoso-argillosa mediamente addensata
1.00 Limo argilloso-sabbioso mediamente addensato
Limo argilloso plastico
1.40
1.60 Sabbia limoso-argillosa mediamente addensata
1.80 Argilla limosa dura
2.00 Argilla limosa molto consistente
Limo argilloso-sabbioso mediamente addensato
2.40
2.60 Sabbia mediamente addensata
2.80 Ghiaia sabbiosa mediamente addensata
3.00 Limo argilloso-sabbioso addensato
3.20 Limo argilloso molto consistente
3.40 Argilla limosa dura
3.60 Sabbia limosa mediamente addensata
3.80 Limo argilloso duro
4.00 Sabbia ghiaiosa mediamente addensata
4.20 Limo argilloso-sabbioso mediamente addensato
4.40 Argilla limosa molto consistente
4.60 Sabbia limoso-argillosa mediamente addensata
4.80 Limo argilloso-sabbioso mediamente addensato
5.00 Argilla limosa consistente
5.20 Argilla limosa plastica
5.40 Limo argilloso-sabbioso mediamente addensato
Sabbia limoso-argillosa mediamente addensata
5.80
6.00 Argilla limosa plastica
Limo argilloso-sabbioso mediamente addensato
6.60
6.80 Limo argilloso consistente
Argilla limosa consistente
7.20
7.40 Limo argilloso-sabbioso mediamente addensato
7.60 Argilla limosa molto consistente
7.80 Limo argilloso molto consistente
8.00 Limo argilloso consistente
1
2
3
4
5
6
7
8

Data: 22 Febbraio 2000 **Prova:** P.2

Committente: LAI SAURO **Località:** Cerretti - S. Maria a Monte

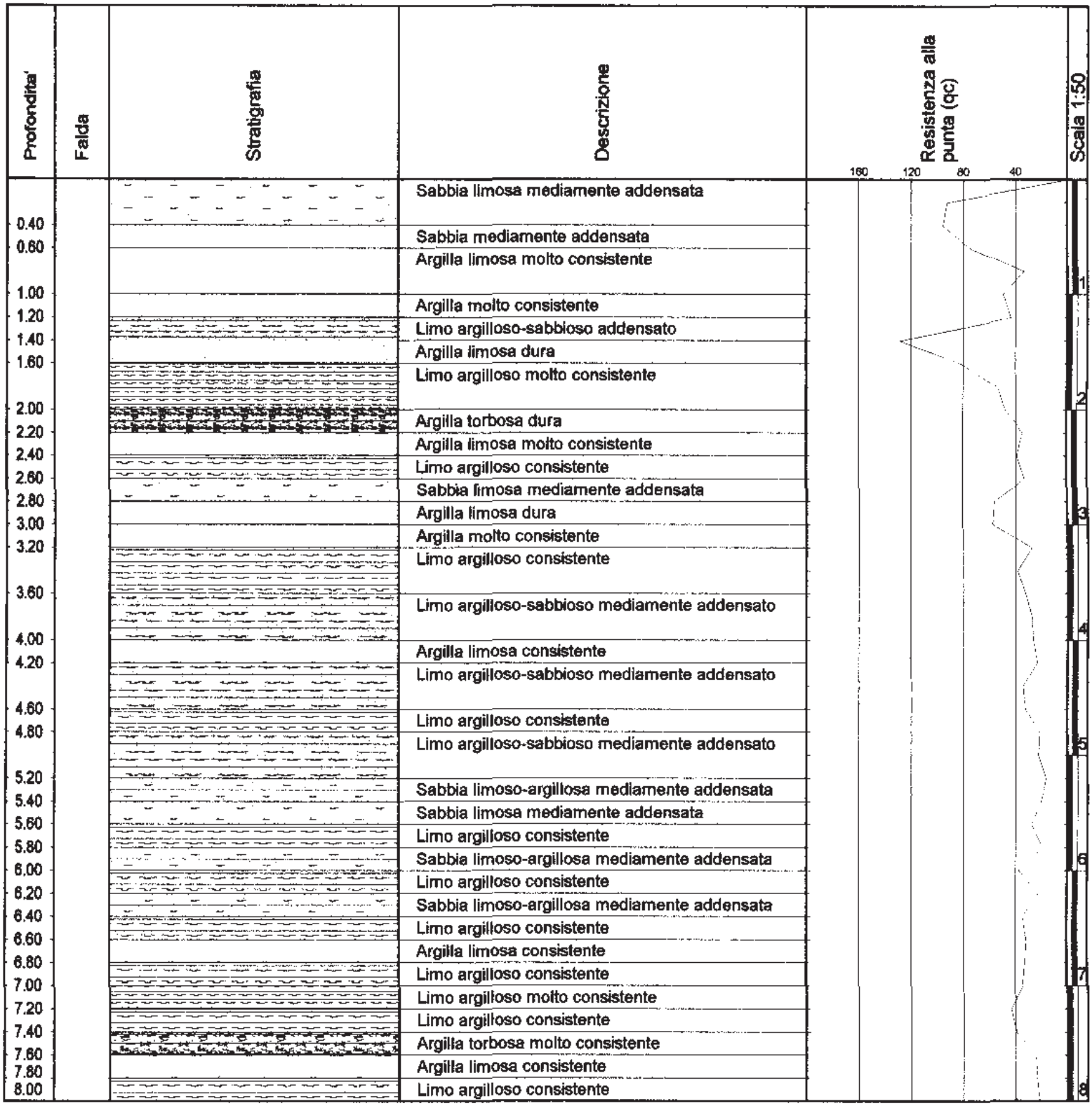
3538

Tipologia intervento: Costruzione autorimessa interrata

m.	Qc (dN/cm^2)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.20	93	122	1.93	48.19
0.40	96	130	2.27	42.29
0.60	75	93	1.20	62.50
0.80	34	74	2.67	12.73
1.00	50	100	3.33	15.02
1.20	44	108	4.27	10.30
1.40	129	199	4.67	27.62
1.60	82	162	5.33	15.38
1.80	54	105	3.40	15.88
2.00	48	90	2.80	17.14
2.20	35	102	4.47	7.83
2.40	39	84	3.00	13.00
2.60	33	58	1.67	19.76
2.80	57	75	1.20	47.50
3.00	58	135	5.13	11.31
3.20	28	73	3.00	9.33
3.40	39	67	1.87	20.86
3.60	33	57	1.60	20.63
3.80	28	46	1.20	23.33
4.00	27	45	1.20	22.50
4.20	24	48	1.60	15.00
4.40	35	56	1.40	25.00
4.60	33	54	1.40	23.57
4.80	22	43	1.40	15.71
5.00	23	38	1.00	23.00
5.20	17	28	0.73	23.29
5.40	21	31	0.67	31.34
5.60	28	38	0.67	41.79
5.80	20	38	1.20	16.67
6.00	38	53	1.00	38.00
6.20	23	44	1.40	16.43
6.40	35	52	1.13	30.97
6.60	32	60	1.87	17.11
6.80	33	65	2.13	15.49
7.00	35	65	2.00	17.50
7.20	44	80	2.40	18.33
7.40	40	69	1.93	20.73
7.60	25	71	3.07	8.14
7.80	24	50	1.73	13.87
8.00	22	41	1.27	17.32

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**:Rapporto Begeman

3538


Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
160
120
80
40
Scala 1:50
0.40
0.60
1.00
1.20
1.40
1.60
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.60
4.00
4.20
4.60
4.80
5.20
5.40
5.60
5.80
6.00
6.20
6.40
6.60
6.80
7.00
7.20
7.40
7.60
7.80
8.00
Sabbia limosa mediamente addensata
Sabbia mediamente addensata
Argilla limosa molto consistente
Argilla molto consistente
Limo argilloso-sabbioso addensato
Argilla limosa dura
Limo argilloso molto consistente
Argilla torbosa dura
Argilla limosa molto consistente
Limo argilloso consistente
Sabbia limosa mediamente addensata
Argilla limosa dura
Argilla molto consistente
Limo argilloso consistente
Limo argilloso-sabbioso mediamente addensato
Argilla limosa consistente
Limo argilloso-sabbioso mediamente addensato
Limo argilloso consistente
Limo argilloso-sabbioso mediamente addensato
Sabbia limoso-argillosa mediamente addensata
Sabbia limosa mediamente addensata
Limo argilloso consistente
Sabbia limoso-argillosa mediamente addensata
Limo argilloso consistente
Sabbia limoso-argillosa mediamente addensata
Limo argilloso consistente
Argilla limosa consistente
Limo argilloso consistente
Limo argilloso molto consistente
Limo argilloso consistente
Argilla torbosa molto consistente
Argilla limosa consistente
Limo argilloso consistente
1
2
3
4
5
6
7
8

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

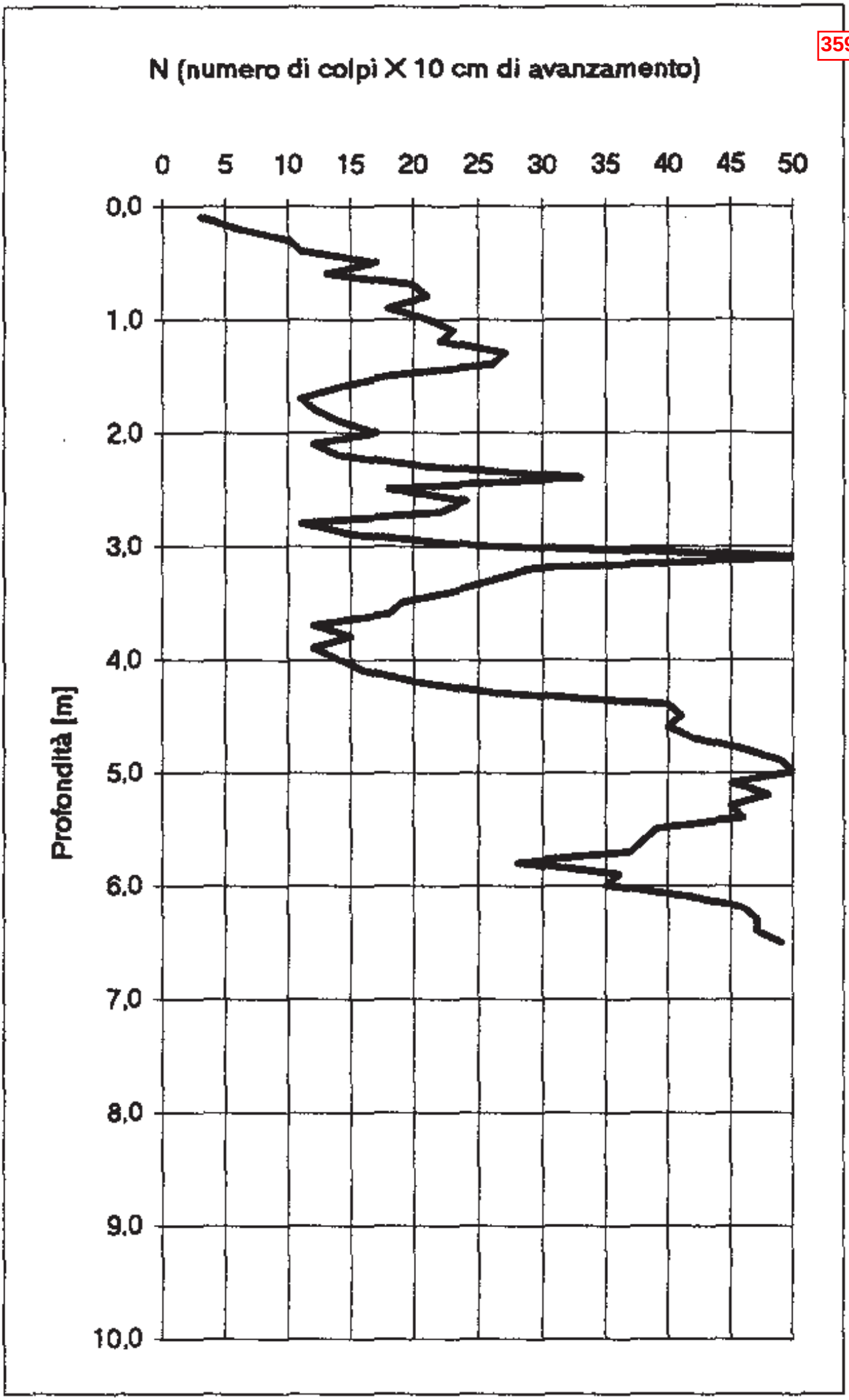
Committente:
Cantiere: Via Lungomonte
Località S. M. a Monte
Comune: S. M. a Monte
Data: 24/12/99

3592

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	3	12,0	2	5,1	45	180,4	34
0,2	6	24,1	5	5,2	48	192,4	36
0,3	10	40,1	8	5,3	45	180,4	34
0,4	11	44,1	8	5,4	46	184,4	35
0,5	17	68,2	13	5,5	39	156,3	30
0,6	13	52,1	10	5,6	38	152,3	29
0,7	20	80,2	15	5,7	37	148,3	28
0,8	21	84,2	16	5,8	28	112,2	21
0,9	18	72,2	14	5,9	36	144,3	27
1,0	21	84,2	16	6,0	35	140,3	27
1,1	23	92,2	17	6,1	42	168,4	32
1,2	22	88,2	17	6,2	46	184,4	35
1,3	27	108,2	20	6,3	47	188,4	36
1,4	26	104,2	20	6,4	47	188,4	36
1,5	18	72,2	14	6,5	49	196,4	37
1,6	14	56,1	11	6,6	-	-	-
1,7	11	44,1	8	6,7	-	-	-
1,8	12	48,1	9	6,8	-	-	-
1,9	14	56,1	11	6,9	-	-	-
2,0	17	68,2	13	7,0	-	-	-
2,1	12	48,1	9	7,1	-	-	-
2,2	14	56,1	11	7,2	-	-	-
2,3	21	84,2	16	7,3	-	-	-
2,4	33	132,3	25	7,4	-	-	-
2,5	18	72,2	14	7,5	-	-	-
2,6	24	96,2	18	7,6	-	-	-
2,7	22	88,2	17	7,7	-	-	-
2,8	11	44,1	8	7,8	-	-	-
2,9	15	60,1	11	7,9	-	-	-
3,0	25	100,2	19	8,0	-	-	-
3,1	52	208,5	39	8,1	-	-	-
3,2	29	116,3	22	8,2	-	-	-
3,3	26	104,2	20	8,3	-	-	-
3,4	23	92,2	17	8,4	-	-	-
3,5	19	76,2	14	8,5	-	-	-
3,6	18	72,2	14	8,6	-	-	-
3,7	12	48,1	9	8,7	-	-	-
3,8	15	60,1	11	8,8	-	-	-
3,9	12	48,1	9	8,9	-	-	-
4,0	14	56,1	11	9,0	-	-	-
4,1	16	64,1	12	9,1	-	-	-
4,2	20	80,2	15	9,2	-	-	-
4,3	26	104,2	20	9,3	-	-	-
4,4	40	160,4	30	9,4	-	-	-
4,5	41	164,4	31	9,5	-	-	-
4,6	40	160,4	30	9,6	-	-	-
4,7	42	168,4	32	9,7	-	-	-
4,8	46	184,4	35	9,8	-	-	-
4,9	49	196,4	37	9,9	-	-	-
5,0	50	200,4	38	10,0	-	-	-



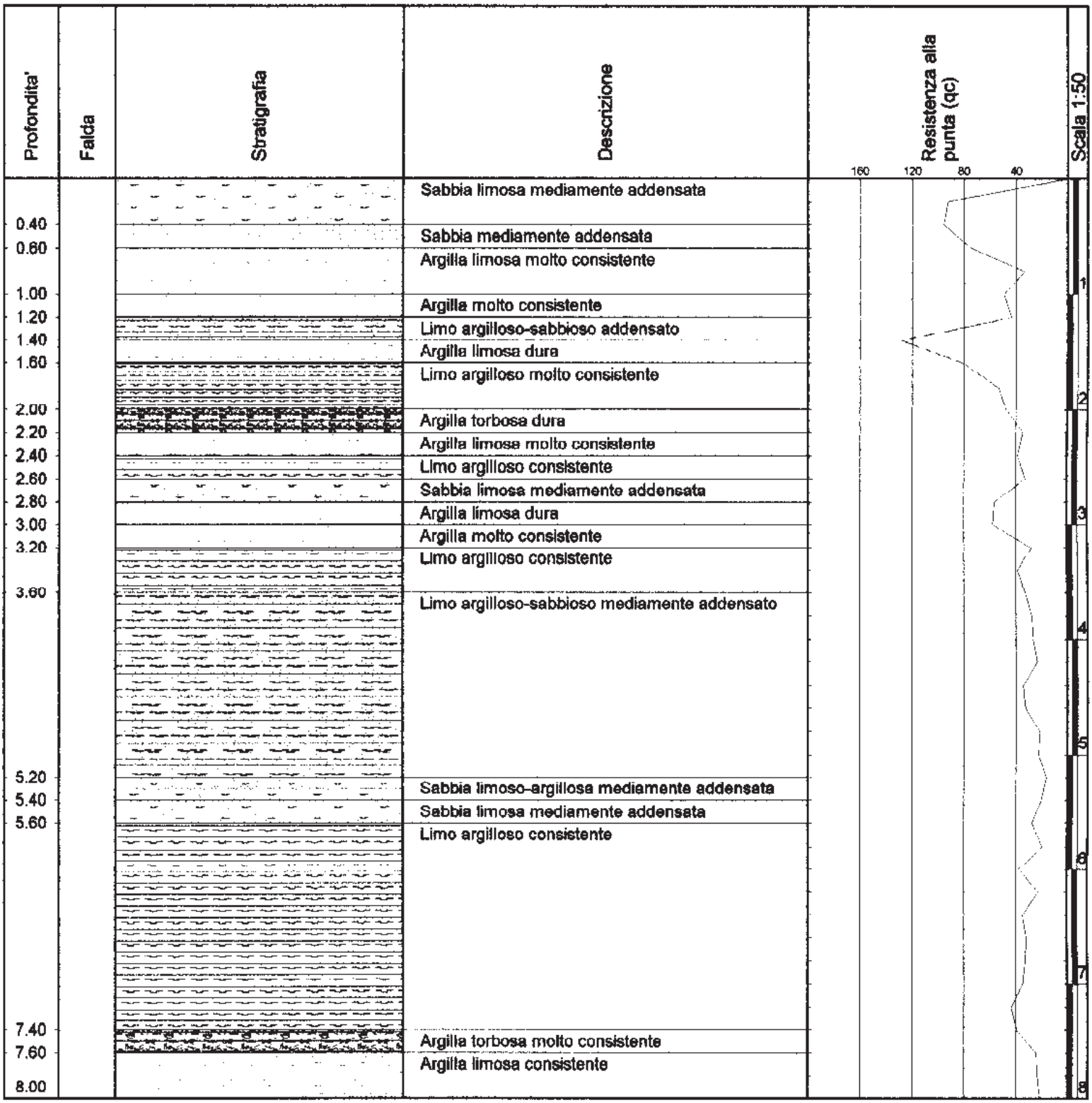
3592


N (numero di colpi X 10 cm di avanzamento)
0
5
10
15
20
25
30
35
40
45
50
Profondità [m]
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0

Tipologia intervento: Costruzione garage interrato

m.	Qc (dN/cm²)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.20	93	122	1.93	48.19
0.40	96	130	2.27	42.29
0.60	75	93	1.20	62.50
0.80	34	74	2.67	12.73
1.00	50	103	3.53	14.16
1.20	44	106	4.27	10.30
1.40	129	199	4.67	27.62
1.60	82	162	5.33	15.38
1.80	54	105	3.40	15.88
2.00	48	90	2.80	17.14
2.20	35	102	4.47	7.83
2.40	39	84	3.00	13.00
2.60	33	58	1.67	19.76
2.80	57	74	1.13	50.44
3.00	58	135	5.13	11.31
3.20	28	73	3.00	9.33
3.40	39	67	1.87	20.86
3.60	33	57	1.60	20.63
3.80	28	46	1.20	23.33
4.00	27	45	1.20	22.50
4.20	24	48	1.60	15.00
4.40	35	56	1.40	25.00
4.60	33	54	1.40	23.57
4.80	22	43	1.40	15.71
5.00	23	38	1.00	23.00
5.20	17	28	0.73	23.29
5.40	21	31	0.67	31.34
5.60	28	38	0.67	41.79
5.80	20	38	1.20	16.67
6.00	38	53	1.00	38.00
6.20	23	44	1.40	16.43
6.40	35	52	1.13	30.97
6.60	32	60	1.87	17.11
6.80	33	65	2.13	15.49
7.00	35	65	2.00	17.50
7.20	44	80	2.40	18.33
7.40	40	69	1.93	20.73
7.60	25	71	3.07	8.14
7.80	24	50	1.73	13.87
8.00	22	41	1.27	17.32

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**:Rapporto Begeman

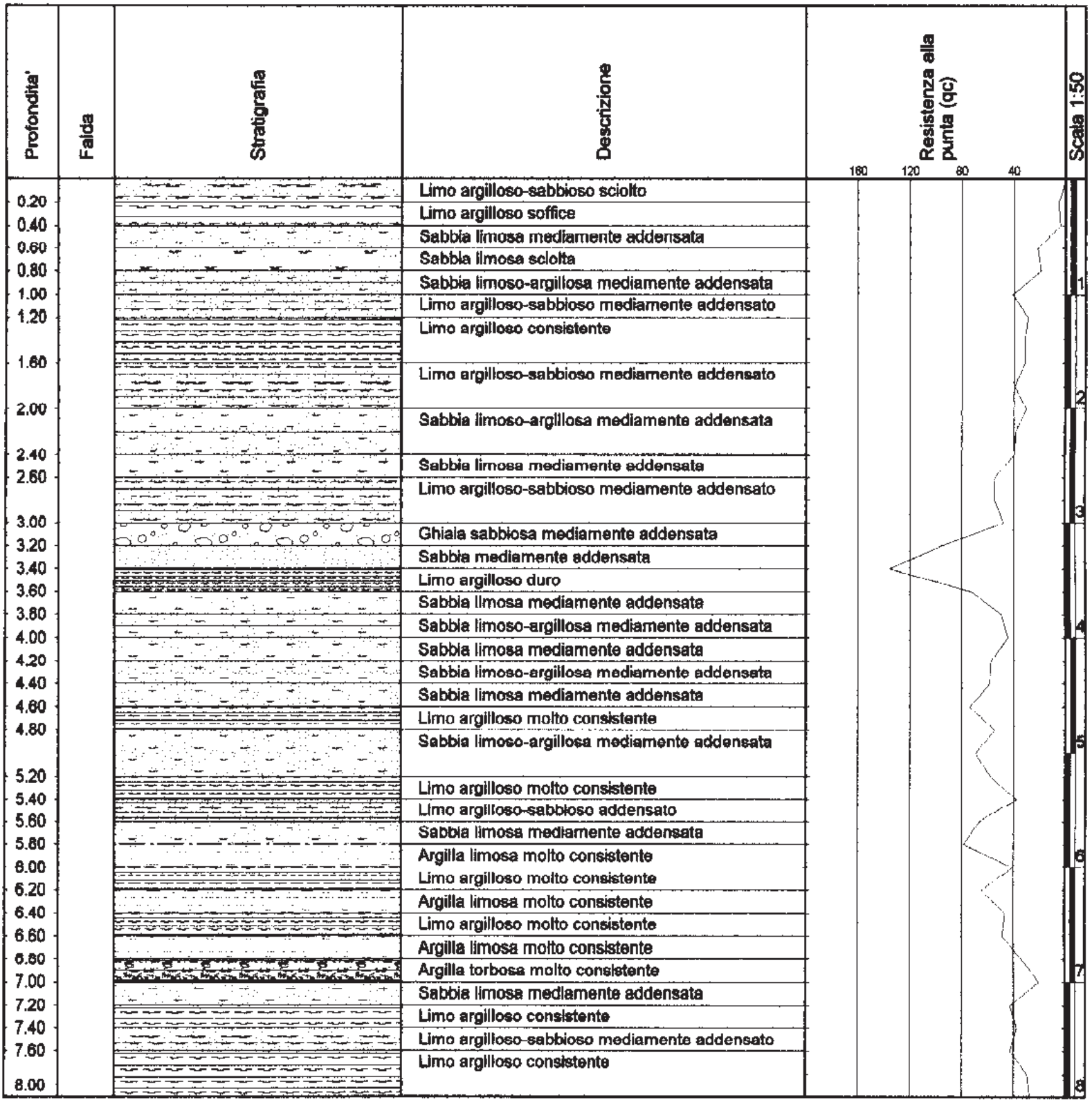

Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
160
120
80
40
Scala 1:50
Sabbia limosa mediamente addensata
Sabbia mediamente addensata
Argilla limosa molto consistente
Argilla molto consistente
Limo argilloso-sabbioso addensato
Argilla limosa dura
Limo argilloso molto consistente
Argilla torbosa dura
Argilla limosa molto consistente
Limo argilloso consistente
Sabbia limosa mediamente addensata
Argilla limosa dura
Argilla molto consistente
Limo argilloso consistente
Limo argilloso-sabbioso mediamente addensato
Sabbia limoso-argillosa mediamente addensata
Sabbia limosa mediamente addensata
Limo argilloso consistente
Argilla torbosa molto consistente
Argilla limosa consistente
0.40
0.60
1.00
1.20
1.40
1.60
2.00
2.20
2.40
2.60
2.80
3.00
3.20
3.60
5.20
5.40
5.60
7.40
7.60
8.00
1
2
3
4
5
6
7
8

Tipologia intervento: Costruzione garage interrato

m.	Qc (dN/cm²)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.20	6	10	0.27	22.22
0.40	5	9	0.27	18.52
0.60	22	30	0.53	41.51
0.80	20	27	0.47	42.55
1.00	42	58	1.07	39.25
1.20	30	51	1.40	21.43
1.40	32	62	2.00	16.00
1.60	32	62	2.00	16.00
1.80	40	63	1.53	26.14
2.00	31	49	1.20	25.83
2.20	39	54	1.00	39.00
2.40	40	58	1.20	33.33
2.60	55	72	1.13	48.67
2.80	55	88	2.20	25.00
3.00	48	82	2.27	21.15
3.20	96	108	0.80	120.00
3.40	136	162	1.73	78.61
3.60	73	141	4.53	16.11
3.80	50	64	0.93	53.76
4.00	45	62	1.13	39.82
4.20	58	78	1.33	43.61
4.40	59	83	1.60	36.88
4.60	74	97	1.53	48.37
4.80	55	100	3.00	18.33
5.00	70	100	2.00	35.00
5.20	58	84	1.73	33.53
5.40	38	72	2.27	16.74
5.60	67	106	2.60	25.77
5.80	79	106	1.80	43.89
6.00	41	86	3.00	13.67
6.20	65	116	3.40	19.12
6.40	47	93	3.07	15.31
6.60	49	89	2.67	18.35
6.80	34	79	3.00	11.33
7.00	21	60	2.60	8.08
7.20	43	55	0.80	53.75
7.40	38	67	1.93	19.69
7.60	43	71	1.87	22.99
7.80	30	56	1.73	17.34
8.00	28	54	1.73	16.18

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**:Rapporto Begeman

3634


Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
180
120
80
40
Scala 1:50
0.20
0.40
0.60
0.80
1.00
1.20
1.60
2.00
2.40
2.60
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.20
5.40
5.60
5.80
6.00
6.20
6.40
6.60
6.80
7.00
7.20
7.40
7.60
8.00
Limo argilloso-sabbioso sciolto
Limo argilloso soffice
Sabbia limosa mediamente addensata
Sabbia limosa sciolta
Sabbia limoso-argillosa mediamente addensata
Limo argilloso-sabbioso mediamente addensato
Limo argilloso consistente
Limo argilloso-sabbioso mediamente addensato
Sabbia limoso-argillosa mediamente addensata
Sabbia limosa mediamente addensata
Limo argilloso-sabbioso mediamente addensato
Ghiaia sabbiosa mediamente addensata
Sabbia mediamente addensata
Limo argilloso duro
Sabbia limosa mediamente addensata
Sabbia limoso-argillosa mediamente addensata
Sabbia limosa mediamente addensata
Sabbia limoso-argillosa mediamente addensata
Sabbia limosa mediamente addensata
Limo argilloso molto consistente
Sabbia limoso-argillosa mediamente addensata
Limo argilloso molto consistente
Limo argilloso-sabbioso addensato
Sabbia limosa mediamente addensata
Argilla limosa molto consistente
Limo argilloso molto consistente
Argilla limosa molto consistente
Limo argilloso molto consistente
Argilla limosa molto consistente
Argilla torbosa molto consistente
Sabbia limosa mediamente addensata
Limo argilloso consistente
Limo argilloso-sabbioso mediamente addensato
Limo argilloso consistente

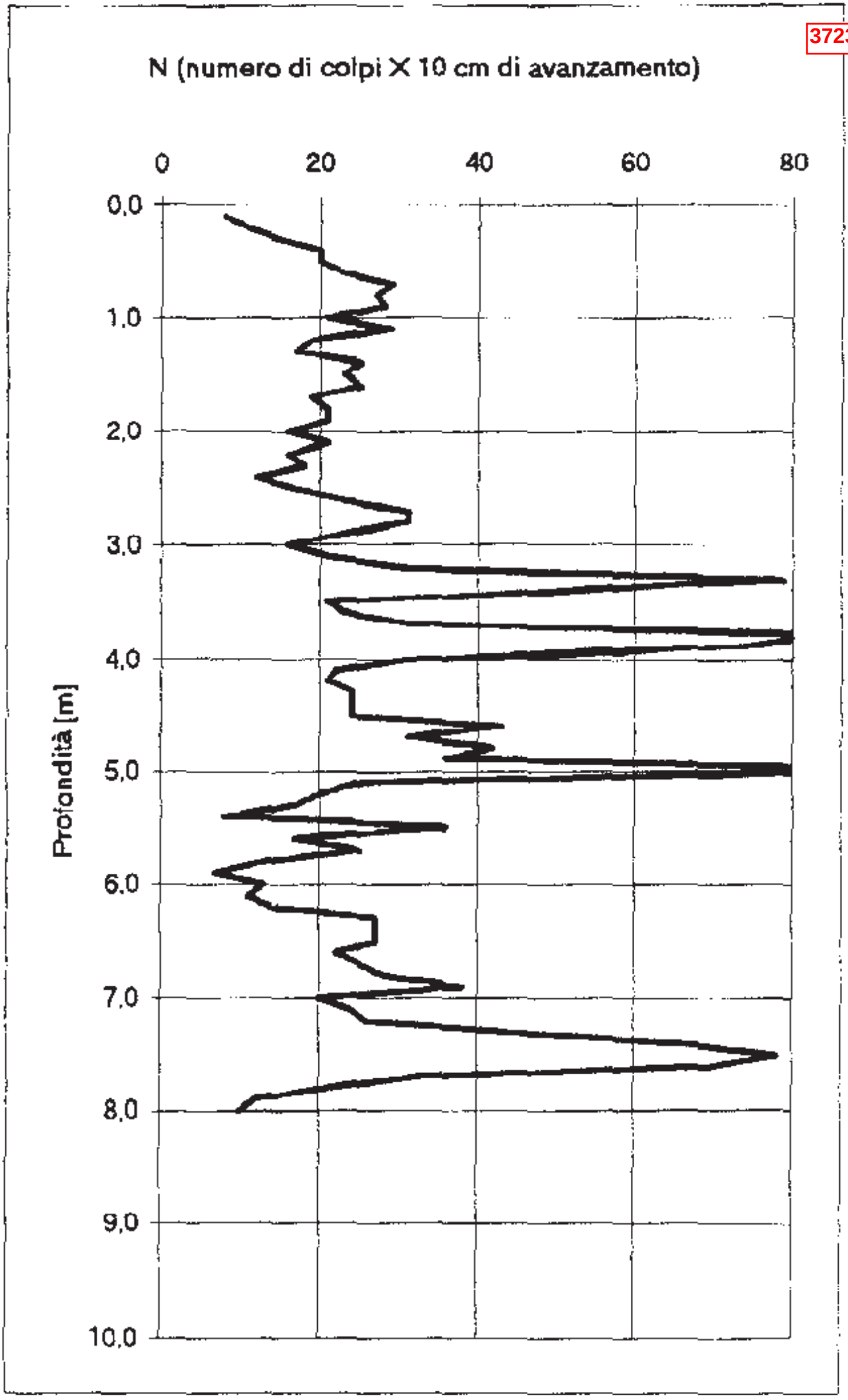
LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

Committente:
Cantiere: via Cerretti
Località Cerretti
Comune: S. Maria a Monte
Data: 30/03/01

3723

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	8	32,1	6	5,1	25	100,2	19
0,2	11	44,1	8	5,2	20	80,2	15
0,3	15	60,1	11	5,3	17	68,2	13
0,4	20	80,2	15	5,4	8	32,1	6
0,5	20	80,2	15	5,5	36	144,3	27
0,6	23	92,2	17	5,6	17	68,2	13
0,7	29	116,3	22	5,7	25	100,2	19
0,8	27	108,2	20	5,8	13	52,1	10
0,9	28	112,2	21	5,9	7	28,1	5
1,0	21	84,2	16	6,0	13	52,1	10
1,1	29	116,3	22	6,1	11	44,1	8
1,2	19	76,2	14	6,2	14	56,1	11
1,3	17	68,2	13	6,3	27	108,2	20
1,4	25	100,2	19	6,4	27	108,2	20
1,5	23	92,2	17	6,5	27	108,2	20
1,6	25	100,2	19	6,6	22	88,2	17
1,7	19	76,2	14	6,7	25	100,2	19
1,8	21	84,2	16	6,8	28	112,2	21
1,9	21	84,2	16	6,9	38	152,3	29
2,0	16	64,1	12	7,0	20	80,2	15
2,1	21	84,2	16	7,1	24	96,2	18
2,2	16	64,1	12	7,2	26	104,2	20
2,3	18	72,2	14	7,3	44	176,4	33
2,4	12	48,1	9	7,4	66	264,6	50
2,5	17	68,2	13	7,5	78	312,7	59
2,6	23	92,2	17	7,6	70	280,6	53
2,7	31	124,3	23	7,7	33	132,3	25
2,8	31	124,3	23	7,8	21	84,2	16
2,9	23	92,2	17	7,9	12	48,1	9
3,0	16	64,1	12	8,0	10	40,1	8
3,1	21	84,2	16	8,1	-	-	-
3,2	31	124,3	23	8,2	-	-	-
3,3	79	316,7	60	8,3	-	-	-
3,4	50	200,4	38	8,4	-	-	-
3,5	21	84,2	16	8,5	-	-	-
3,6	23	92,2	17	8,6	-	-	-
3,7	31	124,3	23	8,7	-	-	-
3,8	84	336,7	64	8,8	-	-	-
3,9	74	296,7	56	8,9	-	-	-
4,0	31	124,3	23	9,0	-	-	-
4,1	22	88,2	17	9,1	-	-	-
4,2	21	84,2	16	9,2	-	-	-
4,3	24	96,2	18	9,3	-	-	-
4,4	24	96,2	18	9,4	-	-	-
4,5	24	96,2	18	9,5	-	-	-
4,6	43	172,4	33	9,6	-	-	-
4,7	31	124,3	23	9,7	-	-	-
4,8	42	168,4	32	9,8	-	-	-
4,9	36	144,3	27	9,9	-	-	-
5,0	92	368,8	70	10,0	-	-	-

3723

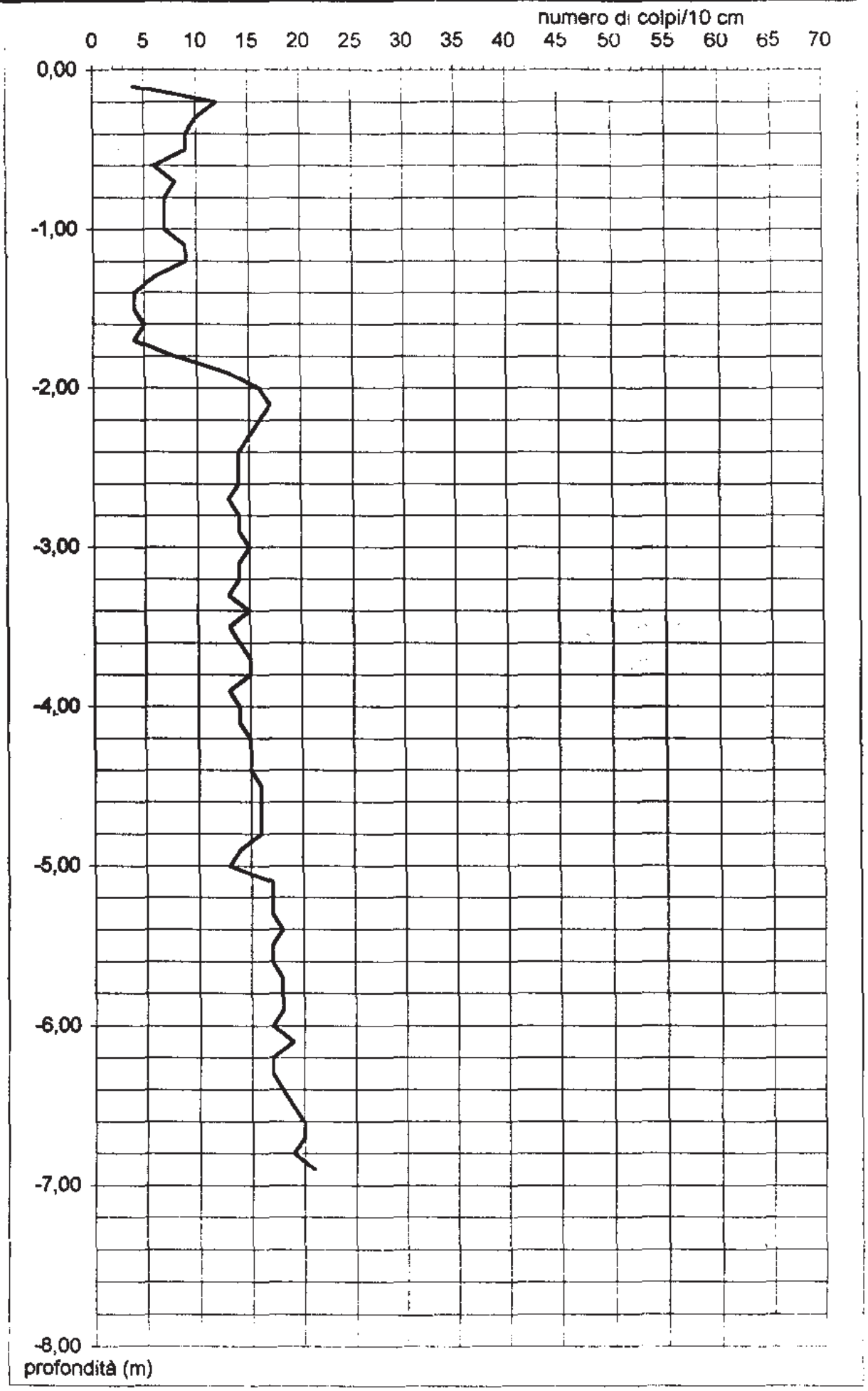

N (numero di colpi X 10 cm di avanzamento)
0
20
40
60
80
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0
Profondità [m]

3745

San Miniato loc. Calenzano

PROVA PENETROMETRICA DINAMICA
n. 4 - Giugno 98

m da p.c	colpi / 10 cm	rd
0,10	4	14,29
0,20	12	42,86
0,30	10	35,71
0,40	9	32,14
0,50	9	32,14
0,60	6	21,43
0,70	8	28,57
0,80	7	25,00
0,90	7	25,00
1,00	7	23,86
1,10	9	30,68
1,20	9	30,68
1,30	6	20,45
1,40	4	13,64
1,50	4	13,64
1,60	5	17,05
1,70	4	13,64
1,80	8	27,27
1,90	13	44,32
2,00	16	52,17
2,10	17	55,43
2,20	16	52,17
2,30	15	48,91
2,40	14	45,65
2,50	14	45,65
2,60	14	45,65
2,70	13	42,39
2,80	14	45,65
2,90	14	45,65
3,00	15	45,88
3,10	14	43,75
3,20	14	43,75
3,30	13	40,63
3,40	15	46,88
3,50	13	40,63
3,60	14	43,75
3,70	15	46,88
3,80	15	46,88
3,90	13	40,63
4,00	14	42,00
4,10	14	42,00
4,20	15	45,00
4,30	15	45,00
4,40	15	45,00
4,50	16	48,00
4,60	16	48,00
4,70	16	48,00
4,80	16	48,00
4,90	14	42,00
5,00	13	37,50
5,10	17	49,04
5,20	17	49,04
5,30	17	49,04
5,40	18	51,92
5,50	17	49,04
5,60	17	49,04
5,70	18	51,92
5,80	18	51,92
5,90	18	51,92
6,00	17	47,22
6,10	19	52,78
6,20	17	47,22
6,30	17	47,22
6,40	18	50,00
6,50	19	52,78
6,60	20	55,56
6,70	20	55,56
6,80	19	52,78
6,90	21	58,33
7,00		0,00
7,10		0,00
7,20		0,00
7,30		0,00
7,40		0,00
7,50		0,00
7,60		0,00
7,70		0,00
7,80		0,00
7,90		0,00
8,00		0,00



3747

Profondità dal p.d.c. (m)	Potenza (m)	SIMBOLO GRAFICO	DESCRIZIONE LITOLOGICA	Campioni Dist. / Indist.	Campionatore	Tipo di prelievo	S.P.T.
2.50	2.50		Terreno di riporto, costituito da inerti di varia natura misti a matrice limo-argillosa.				
4.40	1.90		Argilla grigia-marrone, compatta, con tracce di depositi organici e sottili livelli limo-sabbiose.				
8.30	3.90		Sabbia fine, gialla, asciutta, compatta, con intercalazioni limo-argillose.	S2C1	Pareti sottili	Pressione	6 9 13
9.60	1.30		Sabbia da fine a media, sciolta, con colori dal giallo al bruno.				
12.50	2.90		Argilla grigio-marrone, compatta, talvolta limosa, con intercalazioni di livelli più francamente limo-sabbiosi di colore giallo.				
			Limi argillosi, color ocra, compatti, asciutti, con sottili intercalazioni argillose.				

Profondità dal p.d.c. (m)	Potenza (m)	SIMBOLO GRAFICO	DESCRIZIONE LITOLOGICA	Campioni Dist. / Indist.	Campionatore	Tipo di prelievo	S.P.T.
12.50	2.90						
14.00	1.50		Limi argillosi, color ocra, compatti, asciutti, con sottili intercalazioni argillose.				
16.80	2.80		Limi sabbiosi, gialli, asciutti, compatti.				
19.00	2.20		Argilla grigio-azzurra, plastica, omogenea.	S2C2	Pareti sottili	Pressione	
20.00	1.00		Argille marroni, compatte, con sottili livelli più plastici.				

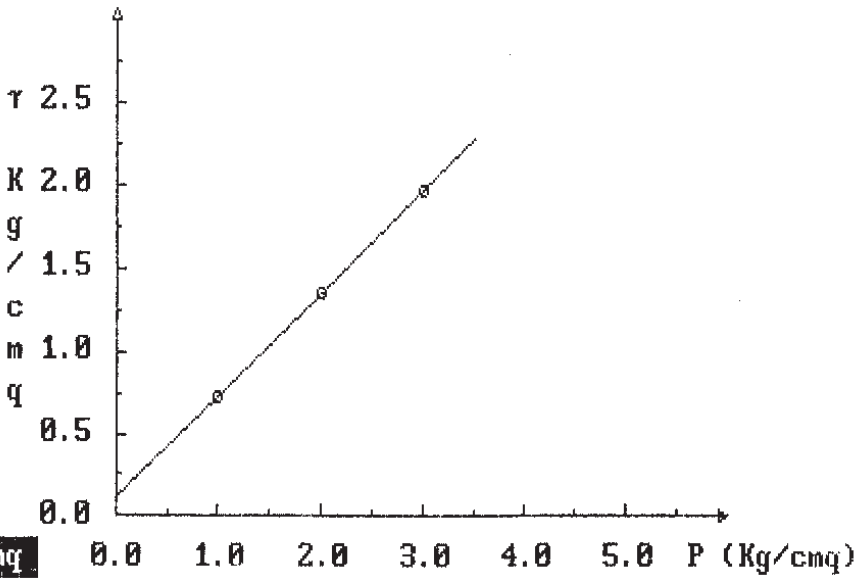
	PESO DI VOLUME NATURALE (gr/cmc)	UMIDITA' NATURALE (%)	LIMITI DI ATTERBERG (%)				CLASS. CASAGRANDE	TAGLIO CONSOLIDATO DRENATO		TAGLIO RAPIDO NON DRENATO		COMPRESSIONE AD ESPANSIONE LATERALE LIBERA
CAMPIONE		WN	LL	LP	IP	IC		C (Kg/cmq)	ϕ (gradi)	C (Kg/cmq)	ϕ (gradi)	qr (Kg/cmq)
S2 C1	1.92	18.15	29	22	7	1.55	CL	0.113	31.8	–	–	–
S2 C2	1.94	32.16	54	26	28	0.78	CH	–	–	–	–	0.68

TAGLIO CONSOLIDATO DRENATO

3747

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.720
2.000	1.360
3.000	1.960



φ = 31.8° c = 0.113 Kg/cmq

Sondaggio n° 2

Committente :

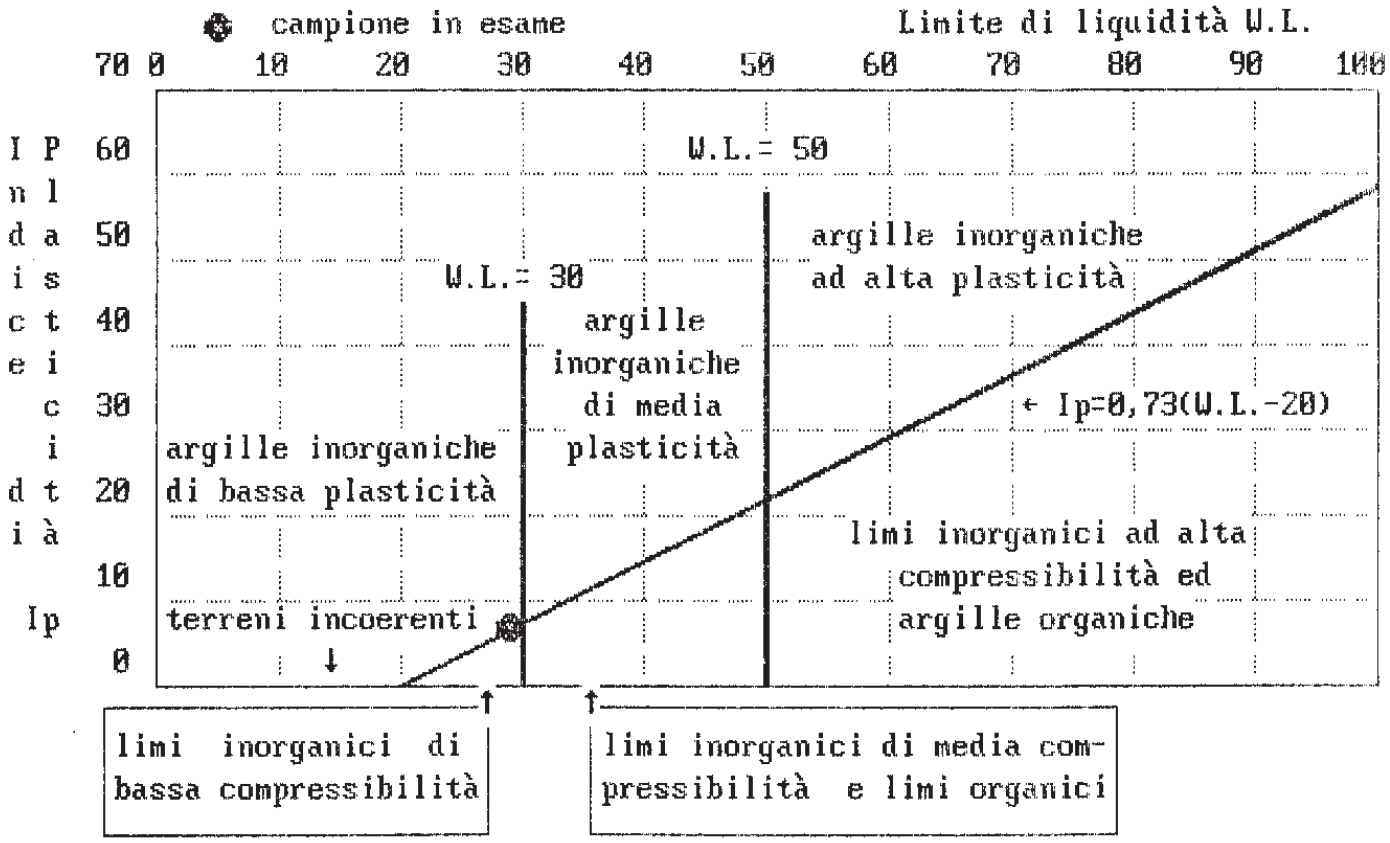
Cantiere : Scuola Media S.M.Monte

Campione n° 1 da mt. 5.50 a mt. 6.00

Umidità naturale = 18.15 %

Peso di volume = 1.920 kg/dmc

DIAGRAMMA DI PLASTICITA' di Casagrande

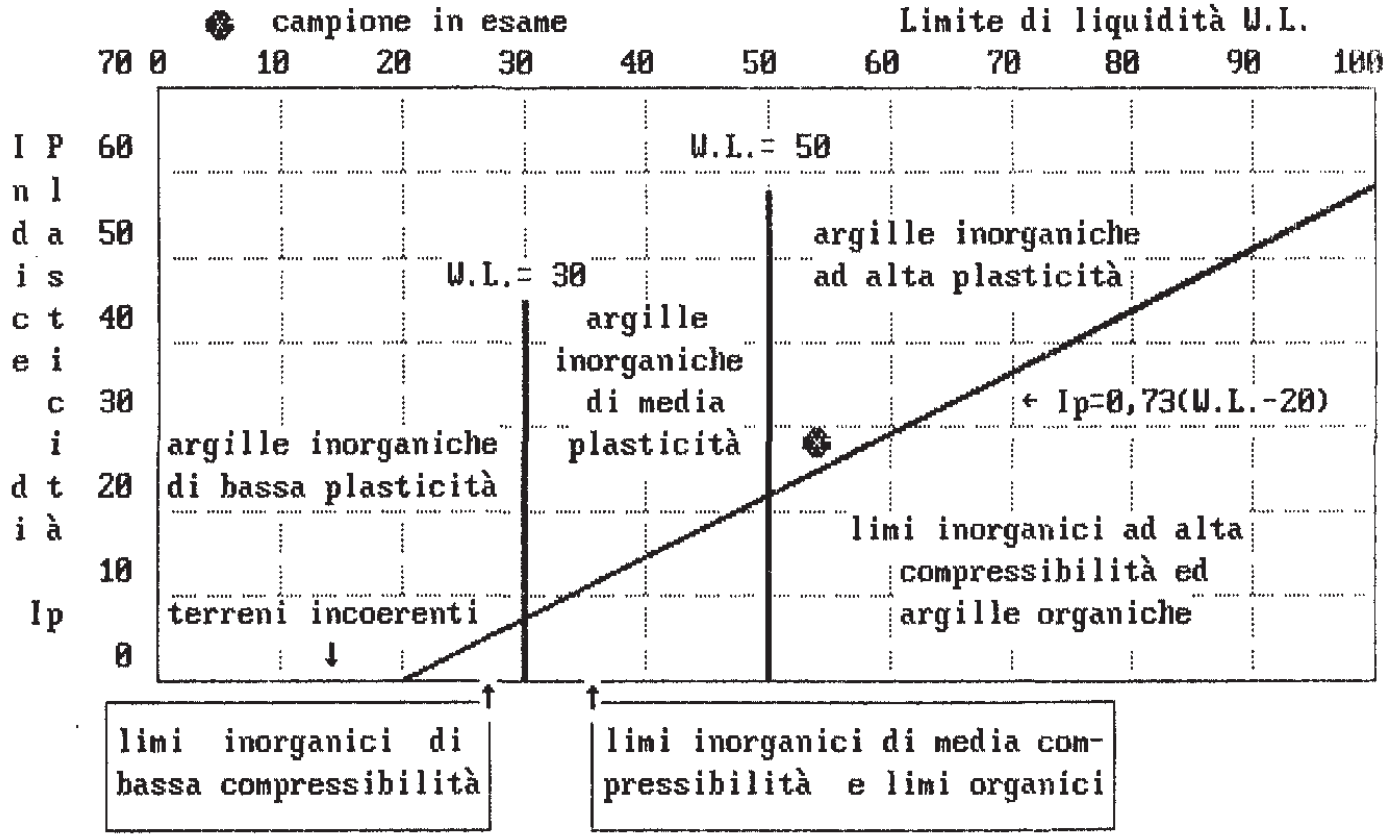


LIMITI : liquidità (W.L.) = 29.0 ; plasticità (W.P.) = 22.0 ; ritiro (W.I.) = 0.0

INDICI : plasticità (Ip) = 7.0 ; consistenza (Cr) = 1.55

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DIAGRAMMA DI PLASTICITA' di Casagrande



LIMITI : liquidità (W.L.) = 54.0 ; plasticità (W.P.) = 26.0 ; ritiro (W.I.) = 0.0
INDICI : plasticità (Ip) = 28.0 ; consistenza (Cr) = 0.78

COMPRESSIONE AD ESPANSIONE LATERALE LIBERA

Sondaggio n° 2

Committente:

Cantiere: Scuola Media S.Maria a Monte

Campione n° 2 prelevato da m 17,5 a m 18,0 Data 04-05-01

Descrizione del campione: Argilla plastica-solido plastica azzurra

Umidita' naturale % 32,16 Peso di volume 1,94 Kg/dm³ Carico di rottura 0,68 Kg/cm²

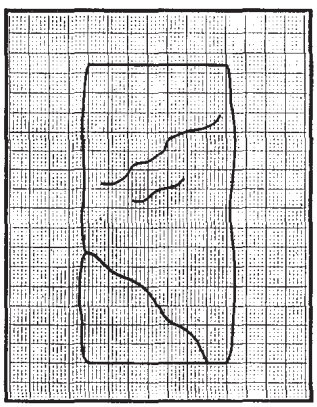
deformazioni ΔL mm	deformazioni ε (ΔL/H)	area corretta A_c (A/1−ε)	letture su anello calibrato	carico P K_g	pressione P/A_c K_g/cm^2
1	0,0114	9,7566	0,010		
1,5	0,0171	9,7834	0,015		
2	0,0228	9,8405	0,020		
2,5	0,0285	9,8883	0,026		
3	0,0342	9,9567	0,035		
3,5	0,0400	10,0168	0,047		
4	0,0457	10,0767	0,059		
4,5	0,0514	10,1372	0,069		
5	0,0571	10,1985	0,078		
5,5	0,0628	10,2605	0,087		
6	0,0685	10,3230	0,094		
6,5	0,0742	10,3869	0,101		
7	0,0800	10,4523	0,106		
7,5	0,0857	10,5175	0,109		
8	0,0914	10,5835	0,112		
8,5	0,0971	10,6503	0,115		
9	0,1028	10,7180	0,117		
9,5	0,1085	10,7865	0,118		
10	0,1142	10,8559	0,119		
10,5	0,1200	10,9275	0,120	7,5	0,68
11	0,1257	10,9987	0,118		
11,5	0,1314	11,0709	0,115		
12	0,1371	11,1440			
12,5	0,1428	11,2181			
13	0,1485	11,2932			
13,5	0,1542	11,3693			
14	0,1600	11,4478			

DIMENSIONI DEL PROVINO:

diametro medio 3,50 cm

altezza media 8,75 cm

area 9,61 cm²



firma ANALISTA

firma DIR. LABORATORIO

ORDINE DEI GEOLOGI DELLA CAMPANIA
DOTT. GEOL. EMILIO SANTOMECCHI N° 240

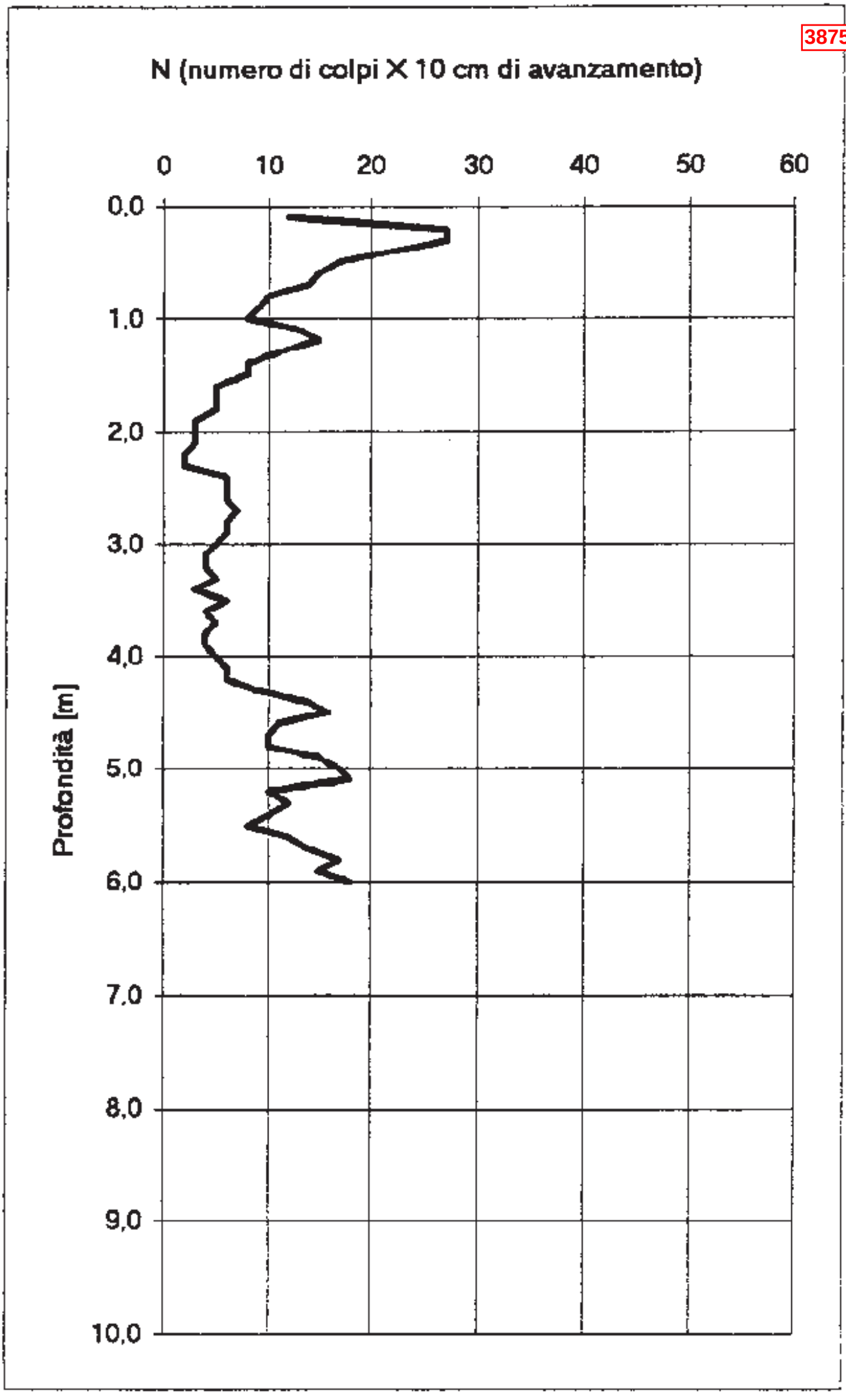
LEGENDA:
Prof. = profondità in metri
N= numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

Committente:
Cantiere: Via Lungomonte
Località Montecalvoli
Comune: S. Maria a Monte
Data: 18/06/01

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Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	12	48,1	9	5,1	18	72,2	14
0,2	27	108,2	20	5,2	10	40,1	8
0,3	27	108,2	20	5,3	12	48,1	9
0,4	22	88,2	17	5,4	10	40,1	8
0,5	17	68,2	13	5,5	8	32,1	6
0,6	15	60,1	11	5,6	12	48,1	9
0,7	14	56,1	11	5,7	14	56,1	11
0,8	10	40,1	8	5,8	17	68,2	13
0,9	9	36,1	7	5,9	15	60,1	11
1,0	8	32,1	6	6,0	18	72,2	14
1,1	13	52,1	10	6,1	-	-	-
1,2	15	60,1	11	6,2	-	-	-
1,3	11	44,1	8	6,3	-	-	-
1,4	8	32,1	6	6,4	-	-	-
1,5	8	32,1	6	6,5	-	-	-
1,6	5	20,0	4	6,6	-	-	-
1,7	5	20,0	4	6,7	-	-	-
1,8	5	20,0	4	6,8	-	-	-
1,9	3	12,0	2	6,9	-	-	-
2,0	3	12,0	2	7,0	-	-	-
2,1	3	12,0	2	7,1	-	-	-
2,2	2	8,0	2	7,2	-	-	-
2,3	2	8,0	2	7,3	-	-	-
2,4	6	24,1	5	7,4	-	-	-
2,5	6	24,1	5	7,5	-	-	-
2,6	6	24,1	5	7,6	-	-	-
2,7	7	28,1	5	7,7	-	-	-
2,8	6	24,1	5	7,8	-	-	-
2,9	6	24,1	5	7,9	-	-	-
3,0	5	20,0	4	8,0	-	-	-
3,1	4	16,0	3	8,1	-	-	-
3,2	4	16,0	3	8,2	-	-	-
3,3	5	20,0	4	8,3	-	-	-
3,4	3	12,0	2	8,4	-	-	-
3,5	6	24,1	5	8,5	-	-	-
3,6	4	16,0	3	8,6	-	-	-
3,7	5	20,0	4	8,7	-	-	-
3,8	4	16,0	3	8,8	-	-	-
3,9	4	16,0	3	8,9	-	-	-
4,0	5	20,0	4	9,0	-	-	-
4,1	6	24,1	5	9,1	-	-	-
4,2	6	24,1	5	9,2	-	-	-
4,3	9	36,1	7	9,3	-	-	-
4,4	14	56,1	11	9,4	-	-	-
4,5	16	64,1	12	9,5	-	-	-
4,6	11	44,1	8	9,6	-	-	-
4,7	10	40,1	8	9,7	-	-	-
4,8	10	40,1	8	9,8	-	-	-
4,9	15	60,1	11	9,9	-	-	-
5,0	17	68,2	13	10,0	-	-	-

3875


N (numero di colpi X 10 cm di avanzamento)
0
10
20
30
40
50
60
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0
Profondità [m]

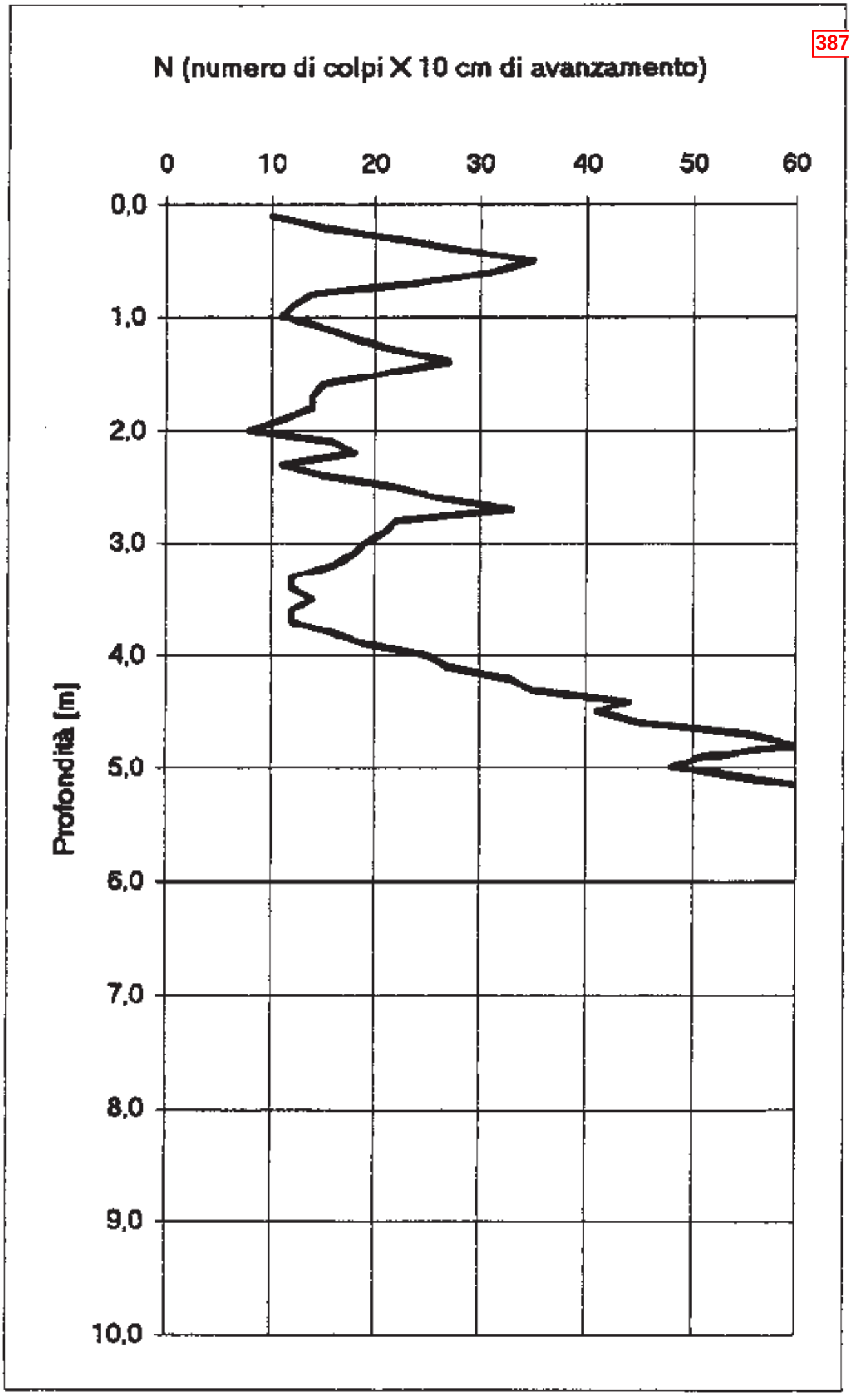
LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

Committente:
Cantiere: Via Lungomonte
Località Montecalvoli
Comune: S. Maria a Monte
Data: 18/06/01

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Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	10	40,1	8	5,1	56	224,5	42
0,2	15	60,1	11	5,2	65	260,6	49
0,3	22	88,2	17	5,3	-	-	-
0,4	28	112,2	21	5,4	-	-	-
0,5	35	140,3	27	5,5	-	-	-
0,6	31	124,3	23	5,6	-	-	-
0,7	24	96,2	18	5,7	-	-	-
0,8	14	56,1	11	5,8	-	-	-
0,9	12	48,1	9	5,9	-	-	-
1,0	11	44,1	8	6,0	-	-	-
1,1	15	60,1	11	6,1	-	-	-
1,2	18	72,2	14	6,2	-	-	-
1,3	22	88,2	17	6,3	-	-	-
1,4	27	108,2	20	6,4	-	-	-
1,5	21	84,2	16	6,5	-	-	-
1,6	15	60,1	11	6,6	-	-	-
1,7	14	56,1	11	6,7	-	-	-
1,8	14	56,1	11	6,8	-	-	-
1,9	11	44,1	8	6,9	-	-	-
2,0	8	32,1	6	7,0	-	-	-
2,1	16	64,1	12	7,1	-	-	-
2,2	18	72,2	14	7,2	-	-	-
2,3	11	44,1	8	7,3	-	-	-
2,4	15	60,1	11	7,4	-	-	-
2,5	22	88,2	17	7,5	-	-	-
2,6	26	104,2	20	7,6	-	-	-
2,7	33	132,3	25	7,7	-	-	-
2,8	22	88,2	17	7,8	-	-	-
2,9	21	84,2	16	7,9	-	-	-
3,0	19	76,2	14	8,0	-	-	-
3,1	18	72,2	14	8,1	-	-	-
3,2	16	64,1	12	8,2	-	-	-
3,3	12	48,1	9	8,3	-	-	-
3,4	12	48,1	9	8,4	-	-	-
3,5	14	56,1	11	8,5	-	-	-
3,6	12	48,1	9	8,6	-	-	-
3,7	12	48,1	9	8,7	-	-	-
3,8	16	64,1	12	8,8	-	-	-
3,9	19	76,2	14	8,9	-	-	-
4,0	25	100,2	19	9,0	-	-	-
4,1	27	108,2	20	9,1	-	-	-
4,2	33	132,3	25	9,2	-	-	-
4,3	35	140,3	27	9,3	-	-	-
4,4	44	176,4	33	9,4	-	-	-
4,5	41	164,4	31	9,5	-	-	-
4,6	45	180,4	34	9,6	-	-	-
4,7	56	224,5	42	9,7	-	-	-
4,8	60	240,5	45	9,8	-	-	-
4,9	51	204,5	39	9,9	-	-	-
5,0	48	192,4	36	10,0	-	-	-

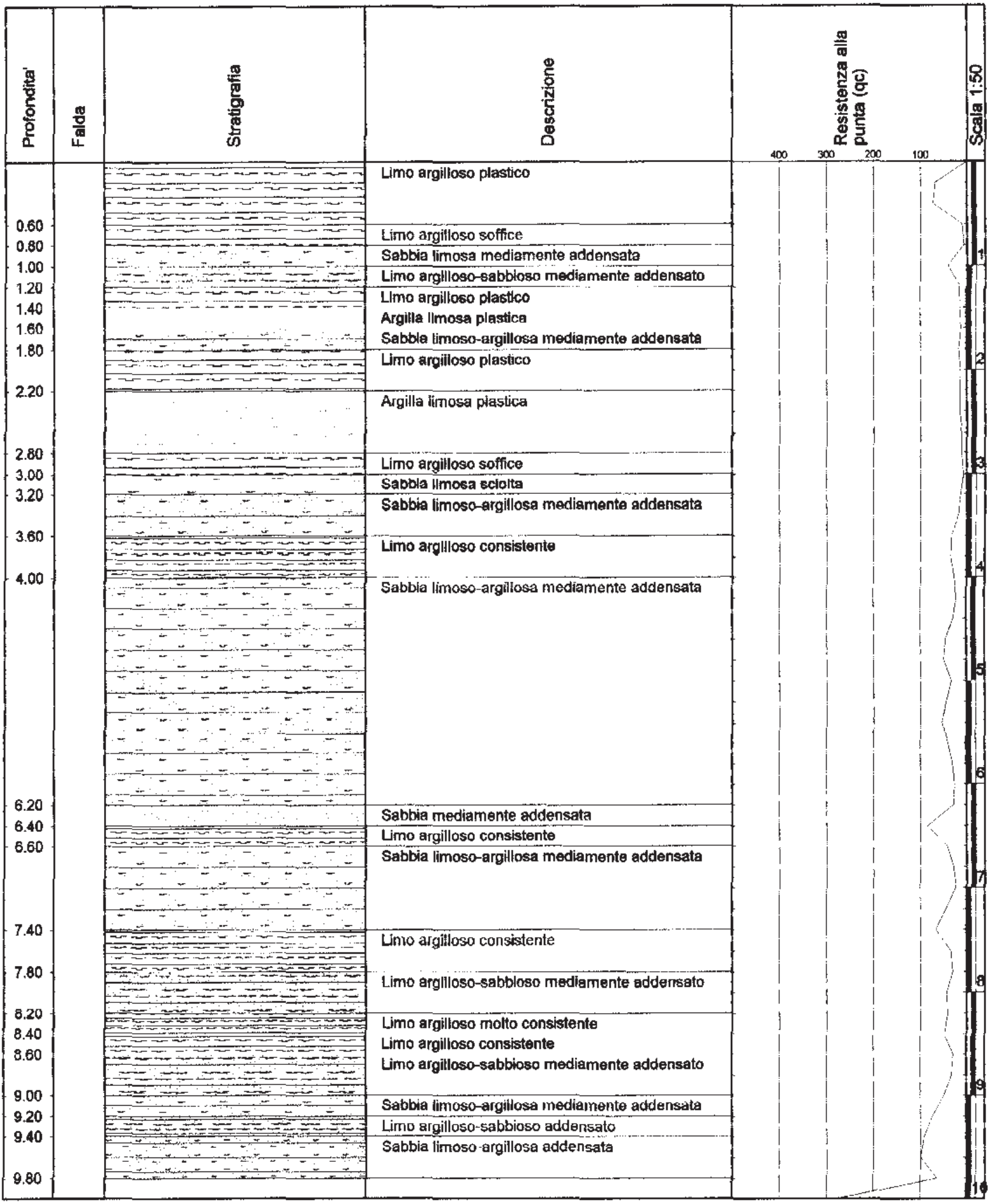
3876


N (numero di colpi X 10 cm di avanzamento)
0
10
20
30
40
50
60
0,0
1,0
2,0
3,0
4,0
5,0
6,0
7,0
8,0
9,0
10,0
Profondità [m]

m.	Qc (dN/cm²)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.20	69	75	0.40	172.50
0.40	74	86	0.80	92.50
0.60	11	22	0.73	15.07
0.80	7	13	0.40	17.50
1.00	42	56	0.93	45.16
1.20	16	27	0.73	21.92
1.40	15	29	0.93	16.13
1.60	13	30	1.13	11.50
1.80	17	25	0.53	32.08
2.00	14	25	0.73	19.18
2.20	15	29	0.93	16.13
2.40	16	33	1.13	14.16
2.60	11	29	1.20	9.17
2.80	12	26	0.93	12.90
3.00	9	17	0.53	16.98
3.20	15	20	0.33	45.45
3.40	20	29	0.60	33.33
3.60	34	49	1.00	34.00
3.80	35	67	2.13	16.43
4.00	28	52	1.60	17.50
4.20	23	32	0.60	38.33
4.40	30	44	0.93	32.26
4.60	46	64	1.20	38.33
4.80	50	74	1.60	31.25
5.00	34	54	1.33	25.56
5.20	45	66	1.40	32.14
5.40	55	76	1.40	39.29
5.60	41	64	1.53	26.80
5.80	31	45	0.93	33.33
6.00	27	50	1.53	17.65
6.20	29	43	0.93	31.18
6.40	85	100	1.00	85.00
6.60	43	75	2.13	20.19
6.80	29	43	0.93	31.18
7.00	24	44	1.33	18.05
7.20	45	62	1.13	39.82
7.40	67	99	2.13	31.46
7.60	35	64	1.93	18.13
7.80	31	55	1.60	19.38
8.00	44	68	1.60	27.50
8.20	42	65	1.53	27.45
8.40	49	90	2.73	17.95
8.60	29	55	1.73	16.76
8.80	32	50	1.20	26.67
9.00	49	75	1.73	28.32
9.20	74	104	2.00	37.00
9.40	92	140	3.20	28.75
9.60	99	147	3.20	30.94
9.80	65	92	1.80	36.11
10.00	279	303	1.60	174.38

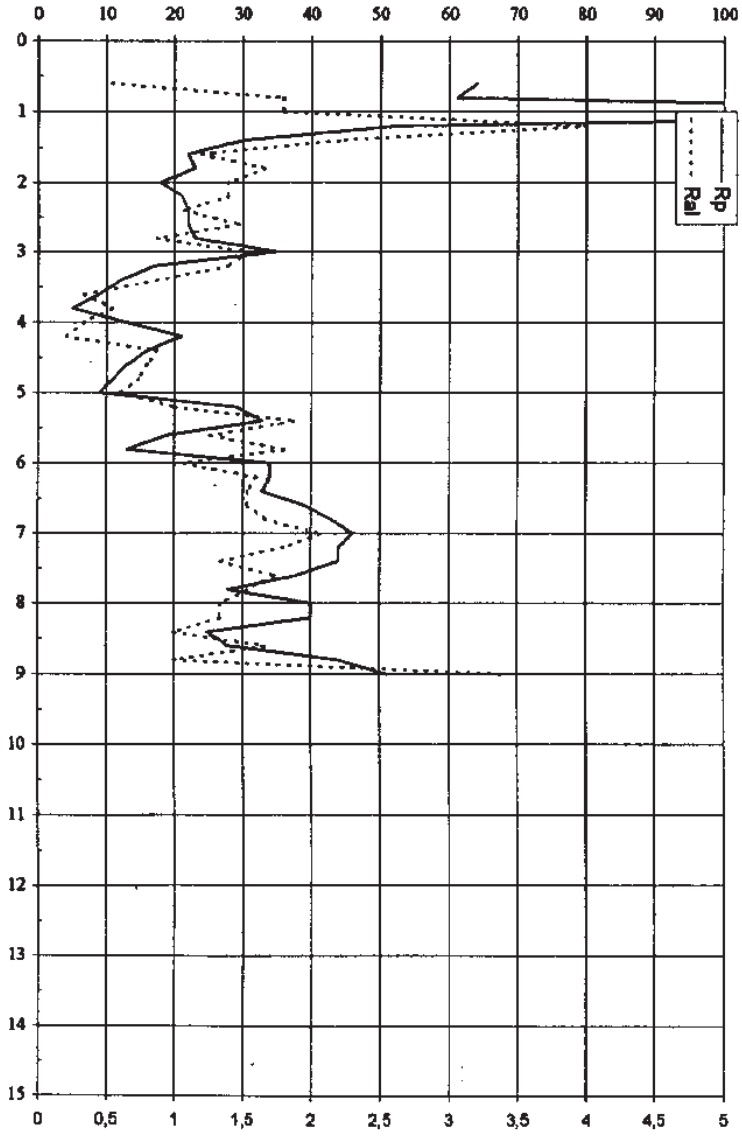
3877

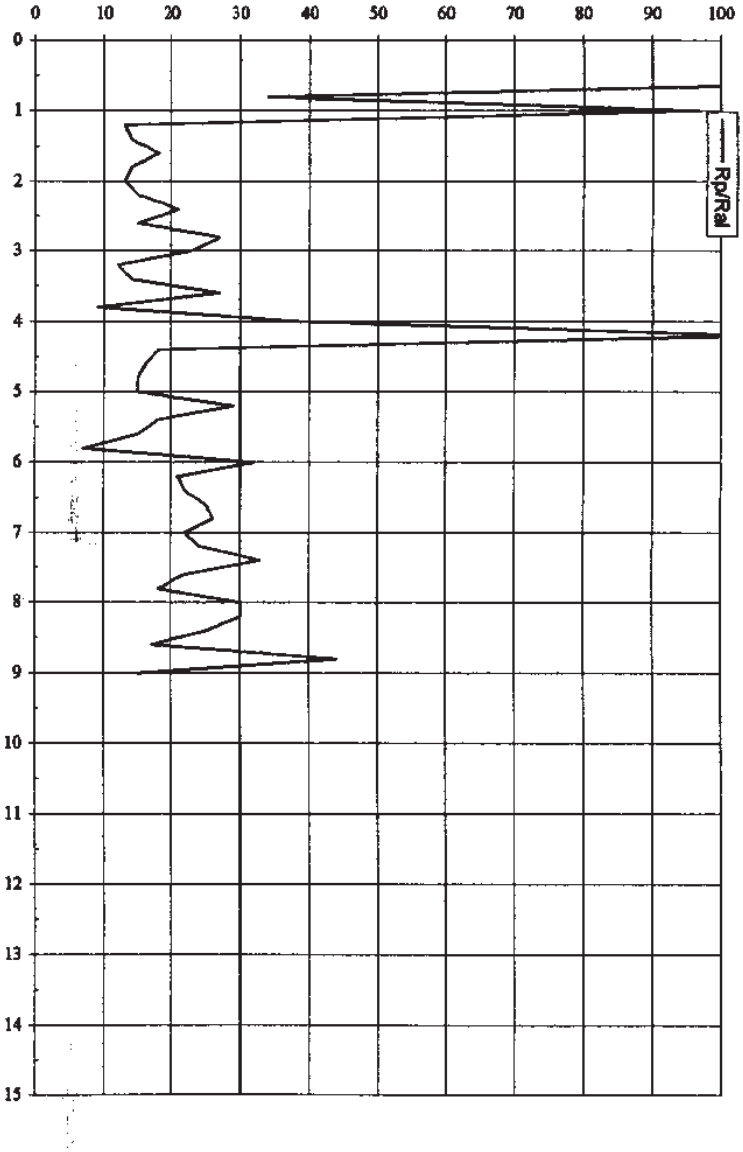
m.:Profondità; Qc:Resistenza alla Punta; Rl: Resistenza laterale totale; Fs:Resistenza specifica al Manicotto; Qc/Fs:Rapporto Begeman


Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
400
300
200
100
Scala 1:50
Limo argilloso plastico
0.60
Limo argilloso soffice
0.80
Sabbia limosa mediamente addensata
1.00
Limo argilloso-sabbioso mediamente addensato
1.20
Limo argilloso plastico
1.40
Argilla limosa plastica
1.60
Sabbia limoso-argillosa mediamente addensata
1.80
Limo argilloso plastico
2.20
Argilla limosa plastica
2.80
Limo argilloso soffice
3.00
Sabbia limosa sciolta
3.20
Sabbia limoso-argillosa mediamente addensata
3.60
Limo argilloso consistente
4.00
Sabbia limoso-argillosa mediamente addensata
6.20
Sabbia mediamente addensata
6.40
Limo argilloso consistente
6.60
Sabbia limoso-argillosa mediamente addensata
7.40
Limo argilloso consistente
7.80
Limo argilloso-sabbioso mediamente addensato
8.20
Limo argilloso molto consistente
8.40
Limo argilloso consistente
8.60
Limo argilloso-sabbioso mediamente addensato
9.00
Sabbia limoso-argillosa mediamente addensata
9.20
Limo argilloso-sabbioso addensato
9.40
Sabbia limoso-argillosa addensata
9.80
1
2
3
4
5
6
7
8
9
10

3893

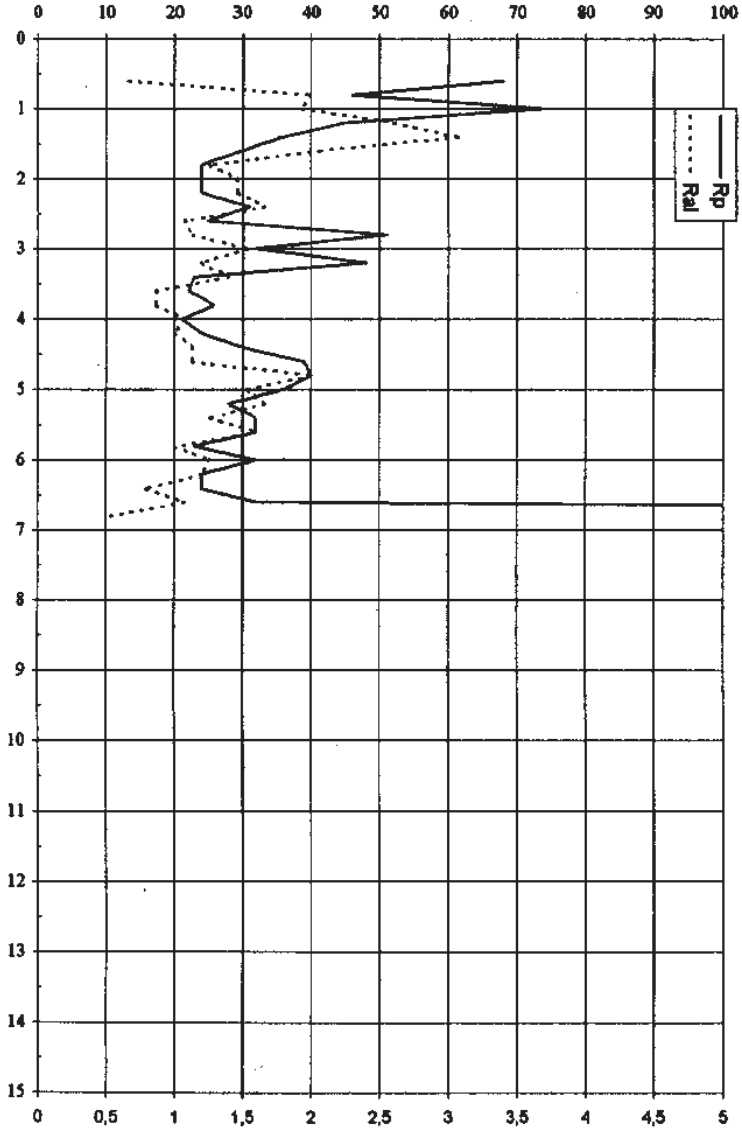
Prof.	H2O	letture di campagna Rpt	Rat	Rt	valori derivati Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20				480									Terreno Vegetale
0,40				870									Terreno Vegetale
0,60		640	720	1060	80	0,53	120	420	32	46		10,24	Sabbia con ghiaia
0,80		610	880	1830	270	1,80	34	1220			2,03	10,69	Limo sabbioso
1,00		1740	2010	1770	270	1,80	97	30	42	77		3,83	Sabbia con ghiaia
1,20		520	1120	1600	600	4,00	13	1080			1,73	12,20	Argilla
1,40		300	630	1190	330	2,20	14	890			1,20	16,21	Argilla
1,60		220	400	1200	180	1,20	18	980			0,88	17,15	Argilla
1,80		230	480	710	250	1,67	14	480			0,92	17,04	Argilla
2,00		180	390	600	210	1,40	13	420			0,90	17,60	Argilla
2,20		210	420	620	210	1,40	15	410			0,84	17,25	Argilla
2,40		220	380	720	160	1,07	21	500			0,88	17,15	Argilla
2,60		220	440	890	220	1,47	15	670			0,88	17,15	Argilla
2,80		230	360	1000	130	0,87	27	770			0,92	17,04	Limo
3,00		350	580	1100	230	1,53	23	750			1,40	15,42	Argilla
3,20		170	380	1080	210	1,40	12	920			0,85	17,75	Argilla
3,40		120	250	1130	130	0,87	14	1010			0,60	19,13	Argilla
3,60		90	140	1010	50	0,33	27	920			0,45	21,16	Limo
3,80		50	130	960	80	0,53	9	910			0,25	29,00	Argilla
4,00		130	180	1010	50	0,33	39	880			0,65	18,72	Limo sabbioso
4,20		210	240	1030	30	0,20	105	820	28	19		17,25	Sabbia con ghiaia
4,40		160	290	1060	130	0,87	18	900			0,80	17,93	Argilla
4,60		130	250	1120	120	0,80	16	990			0,65	18,72	Argilla
4,80		110	220	1220	110	0,73	15	1110			0,55	19,64	Argilla
5,00		90	180	1360	90	0,60	15	1270			0,45	21,16	Argilla
5,20		290	440	1560	150	1,00	29	1270			1,16	16,35	Limo
5,40		330	610	1800	280	1,87	18	1470			1,32	15,75	Argilla
5,60		190	380	1610	190	1,27	15	1420			0,95	17,47	Argilla
5,80		130	400	1650	270	1,80	7	1520			0,65	18,72	Argilla
6,00		340	500	1760	160	1,07	32	1420			1,36	15,59	Limo
6,20		340	580	1860	240	1,60	21	1520			1,36	15,59	Argilla
6,40		330	560	1950	230	1,53	22	1620			1,32	15,75	Argilla
6,60		390	620	2250	230	1,53	25	1860			1,56	14,69	Argilla
6,80		430	680	2510	250	1,67	26	2080			1,43	13,92	Limo
7,00		460	770	2730	310	2,07	22	2270			1,53	13,33	Argilla
7,20		440	710	2940	270	1,80	24	2500			1,47	13,72	Argilla
7,40		440	640	3040	200	1,33	33	2600			1,47	13,72	Limo sabbioso
7,60		380	640	3290	260	1,73	22	2910			1,52	14,87	Argilla
7,80		280	510	3330	230	1,53	18	3050			1,12	16,48	Argilla
8,00		400	600	3460	200	1,33	30	3060			1,60	14,50	Limo
8,20		400	600	3450	200	1,33	30	3050			1,60	14,50	Limo
8,40		250	400	3460	150	1,00	25	3210			1,00	16,83	Argilla
8,60		280	530	4030	250	1,67	17	3750			1,12	16,48	Argilla
8,80		440	590	4100	150	1,00	44	3660			1,47	13,72	Limo sabbioso
9,00		510	1020	4290	510	3,40	15	3780			1,70	12,39	Argilla
9,20													
9,40													
9,60													
9,80													
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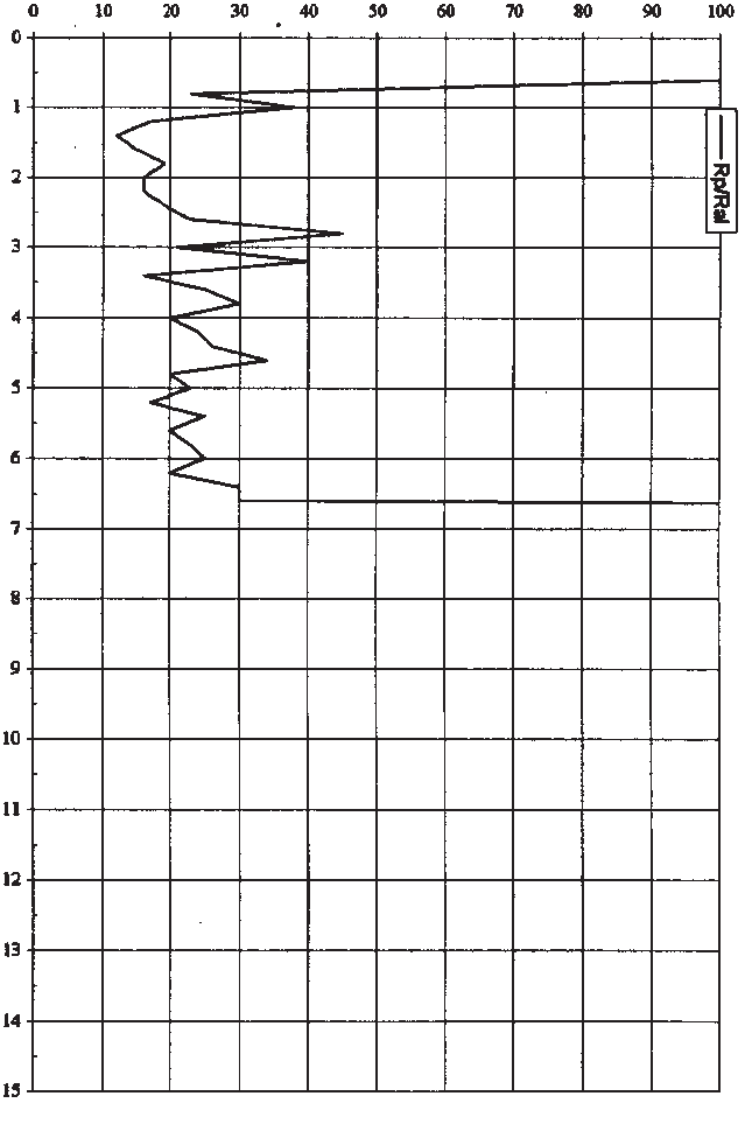

0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp
Ral
0 0,5 1 1,5 2 2,5 3 3,5 4 4,5 5


0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp/Ral

3894

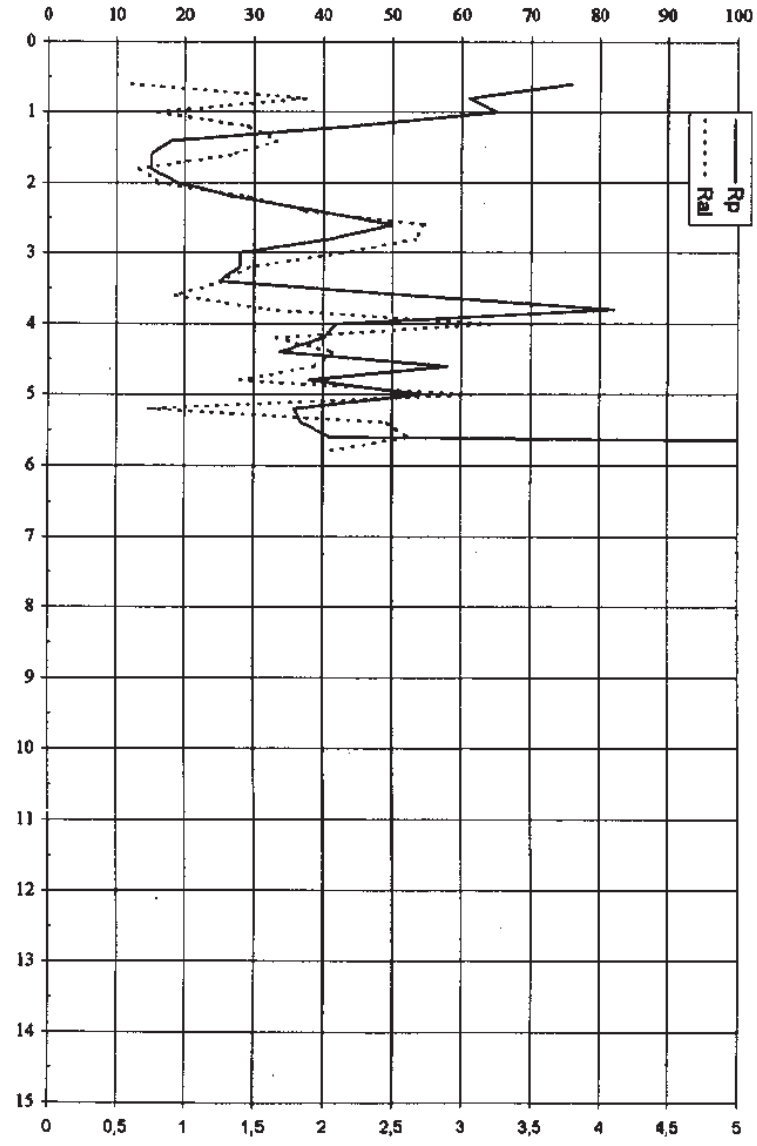
Prof.	H2O	letture di campagna Rpt	Rat	Rt	valori derivati Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20				700									Terreno Vegetale
0,40				740									Terreno Vegetale
0,60		680	780	920	100	0,67	102	240	37	48		9,69	Sabbia con ghiaia
0,80		460	760	980	300	2,00	23	520			1,53	13,33	Argilla
1,00		740	1030	980	290	1,93	38	240			2,47	8,94	Limo sabbioso
1,20		450	840	1060	390	2,60	17	610			1,50	13,53	Argilla
1,40		360	820	800	460	3,07	12	440			1,44	15,24	Argilla
1,60		300	610	650	310	2,07	15	350			1,20	16,21	Argilla
1,80		240	430	570	190	1,27	19	330			0,96	16,94	Argilla
2,00		240	460	580	220	1,47	16	340			0,96	16,94	Argilla
2,20		240	460	550	220	1,47	16	310			0,96	16,94	Argilla
2,40		310	560	570	250	1,67	19	260			1,24	16,06	Argilla
2,60		250	410	920	160	1,07	23	670			1,00	16,83	Argilla
2,80		510	680	820	170	1,13	45	310			1,70	12,39	Limo sabbioso
3,00		320	550	1180	230	1,53	21	860			1,28	15,91	Argilla
3,20		480	660	880	180	1,20	40	400			1,60	12,95	Limo sabbioso
3,40		230	440	900	210	1,40	16	670			0,92	17,04	Argilla
3,60		220	350	750	130	0,87	25	530			0,88	17,15	Argilla
3,80		260	390	770	130	0,87	30	510			1,04	16,72	Limo
4,00		210	370	900	160	1,07	20	690			0,84	17,25	Argilla
4,20		240	390	1010	150	1,00	24	770			0,96	16,94	Argilla
4,40		300	470	1270	170	1,13	26	970			1,20	16,21	Limo
4,60		390	560	1480	170	1,13	34	1090			1,56	14,69	Limo sabbioso
4,80		400	700	1750	300	2,00	20	1350			1,60	14,50	Argilla
5,00		360	590	1890	230	1,53	23	1530			1,44	15,24	Argilla
5,20		280	530	1960	250	1,67	17	1680			1,12	16,48	Argilla
5,40		320	510	2010	190	1,27	25	1690			1,28	15,91	Argilla
5,60		320	560	2070	240	1,60	20	1750			1,28	15,91	Argilla
5,80		230	380	2130	150	1,00	23	1900			0,92	17,04	Argilla
6,00		320	510	2220	190	1,27	25	1900			1,28	15,91	Argilla
6,20		240	420	2230	180	1,20	20	1990			0,96	16,94	Argilla
6,40		240	360	2410	120	0,80	30	2170			0,96	16,94	Limo
6,60		320	480	6800	160	1,07	30	6480			1,28	15,91	Limo
6,80		3390	3470	7600	80	0,53	636	4210	43	88		1,96	Sabbia con ghiaia
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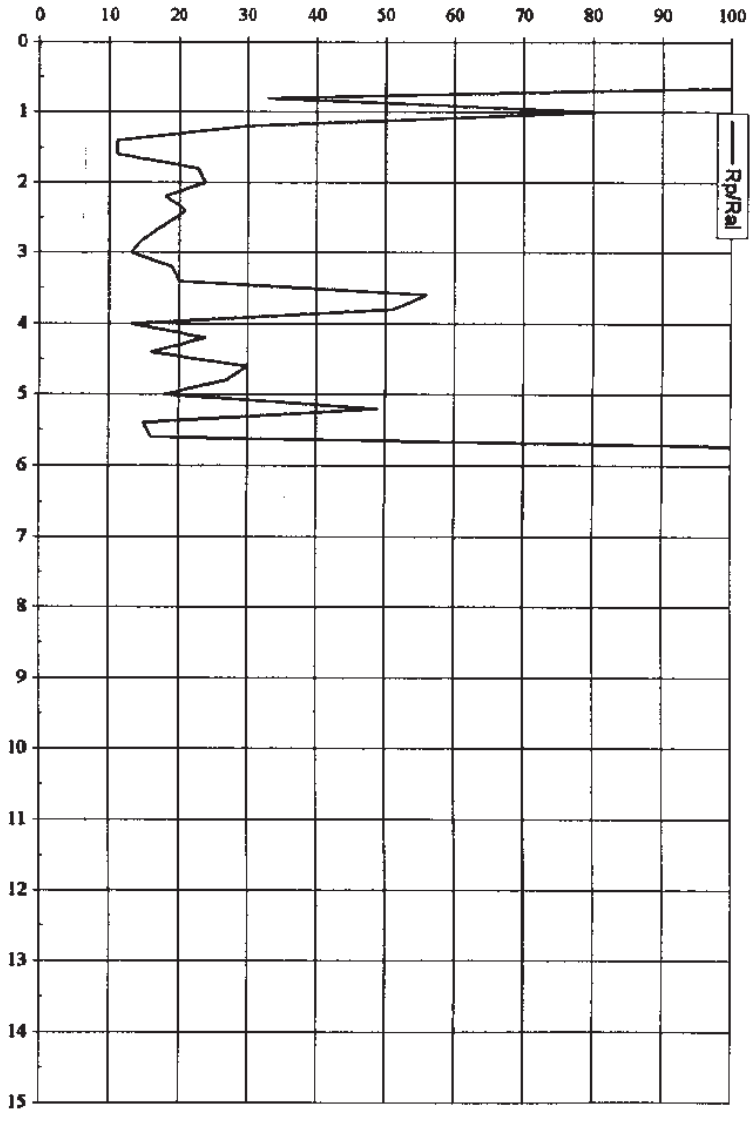

0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
0 0,5 1 1,5 2 2,5 3 3,5 4 4,5 5
Rp
Ral


0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp/Ral

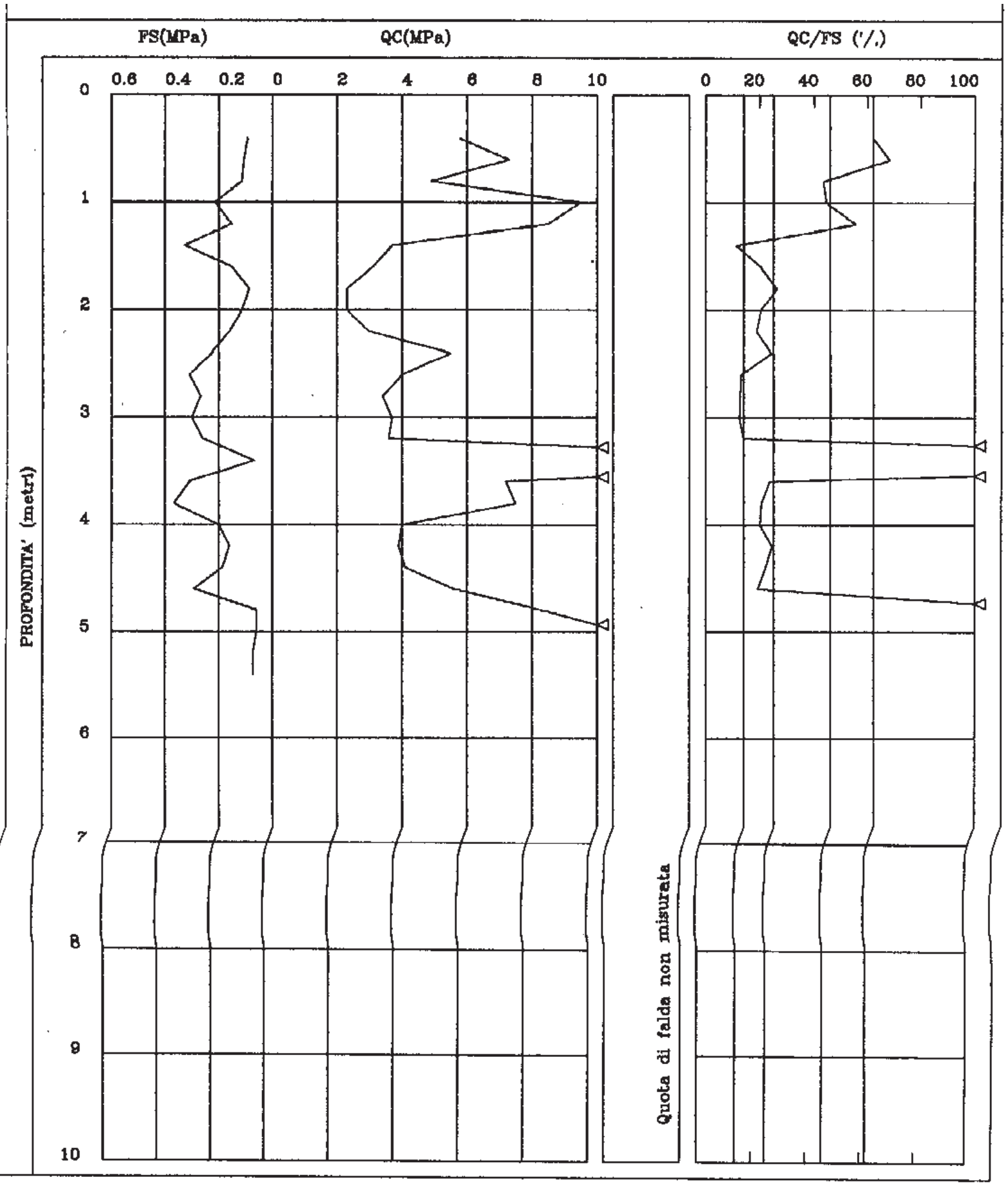
3895

Prof.	H2O	letture di campagna Rpt	Rat	Rt	valori derivati Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20				650									Terreno Vegetale
0,40				870									Terreno Vegetale
0,60		760	850	1310	90	0,60	127	550	38	51		8,72	Sabbia con ghiaia
0,80		610	890	1230	280	1,87	33	620			2,03	10,69	Limo sabbioso
1,00		650	770	1070	120	0,80	81	420	37	46		10,10	Sabbia con ghiaia
1,20		440	660	1070	220	1,47	30	630			1,47	13,72	Limo
1,40		180	430	710	250	1,67	11	530			0,90	17,60	Argilla
1,60		150	350	370	200	1,33	11	220			0,75	18,14	Argilla
1,80		150	250	380	100	0,67	23	230			0,75	18,14	Argilla
2,00		190	310	460	120	0,80	24	270			0,95	17,47	Argilla
2,20		270	490	730	220	1,47	18	460			1,08	16,60	Argilla
2,40		390	670	1010	280	1,87	21	620			1,56	14,69	Argilla
2,60		500	910	1130	410	2,73	18	630			1,67	12,57	Argilla
2,80		410	810	1240	400	2,67	15	830			1,37	14,30	Argilla
3,00		280	600	1260	320	2,13	13	980			1,12	16,48	Argilla
3,20		280	500	1240	220	1,47	19	960			1,12	16,48	Argilla
3,40		250	440	1530	190	1,27	20	1280			1,00	16,83	Argilla
3,60		520	660	1910	140	0,93	56	1390	36	39		12,20	Sabbia limosa
3,80		820	1060	1880	240	1,60	51	1060	38	54		8,10	Sabbia limosa
4,00		420	900	2270	480	3,20	13	1850			1,40	14,11	Argilla
4,20		400	650	1880	250	1,67	24	1480			1,60	14,50	Argilla
4,40		340	650	2080	310	2,07	16	1740			1,36	15,59	Argilla
4,60		580	870	1900	290	1,93	30	1320			1,93	11,16	Limo
4,80		380	590	2010	210	1,40	27	1630			1,52	14,87	Limo
5,00		540	1000	2040	460	3,07	18	1500			1,80	11,85	Argilla
5,20		360	470	2240	110	0,73	49	1880	36	30		15,24	Sabbia limosa
5,40		370	740	2060	370	2,47	15	1690			1,48	15,06	Argilla
5,60		410	800	7780	390	2,60	16	7370			1,37	14,30	Argilla
5,80		3000	3300	9500	300	2,00	150	6500	44	87		2,22	Sabbia con ghiaia
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0 0,5 1 1,5 2 2,5 3 3,5 4 4,5 5
Rp
Ral


0 10 20 30 40 50 60 70 80 90 100
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Rp/Ral

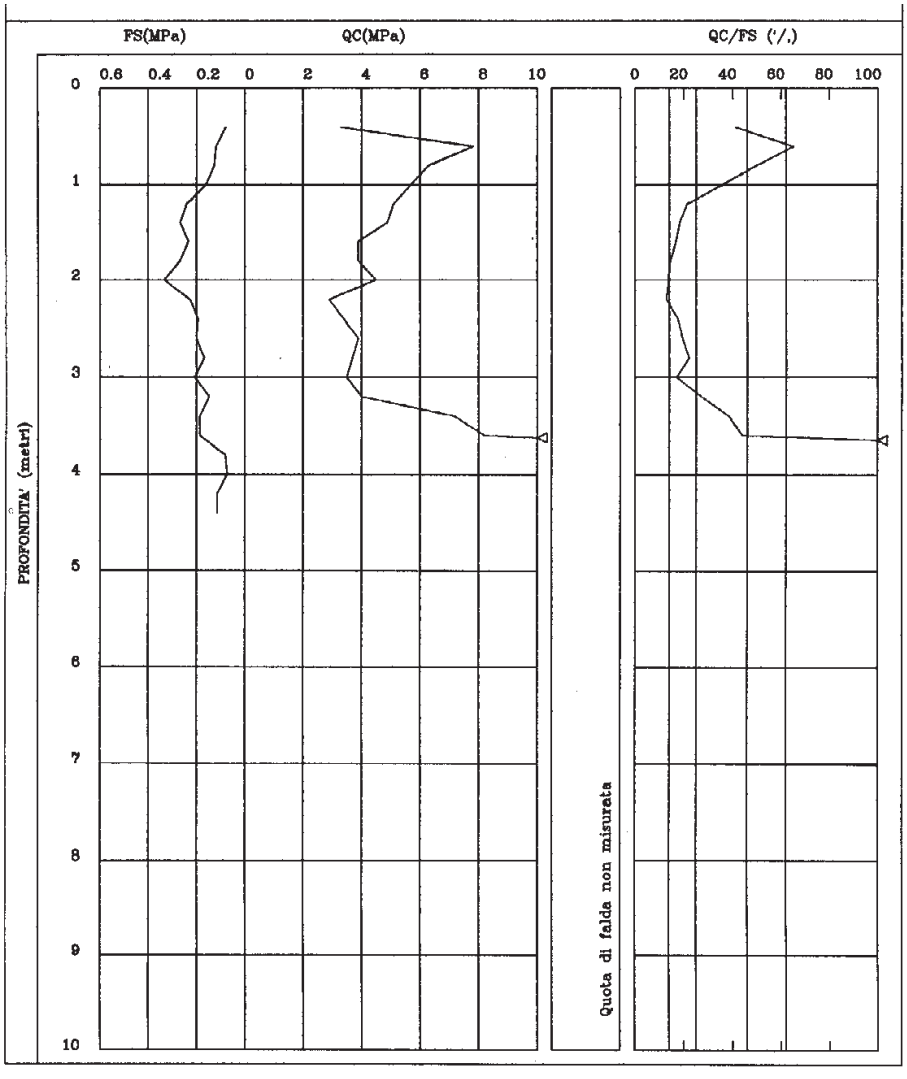
					parametri geotecnici stimati						
PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	C_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	58,1	,9	62	1080	1,89	,11	44	99	-	5,7	SG
0.8	73,3	1,1	69	1080	1,97	,15	44	100	-	4,5	SG
1.0	49,3	1,1	44	1590	1,85	,19	31	-	-	6,8	SL
1.2	95,3	2,1	45	1920	2,08	,23	33	-	-	3,5	SL
1.4	85,3	1,5	56	1830	2,03	,27	42	93	-	3,9	SG
1.6	37,3	3,3	11	1880	1,96	,31	-	-	1,48	10,7	A
1.8	31,4	1,5	20	1990	1,95	,35	-	-	1,24	12,7	A
2.0	23,4	,9	27	2340	1,93	,38	-	-	,92	17,1	AL
2.2	23,4	1,1	21	2470	1,93	,42	-	-	,92	17,1	A
2.4	30,4	1,6	19	3110	1,95	,46	-	-	1,20	13,2	A
2.6	55,4	2,3	24	3500	2,00	,50	-	-	2,20	7,2	AL
2.8	40,5	3,1	13	3730	1,97	,54	-	-	1,60	9,9	A
3.0	34,5	2,7	13	3640	1,95	,58	-	-	1,36	11,6	A
3.2	37,5	3	13	3590	1,96	,62	-	-	1,48	10,7	A
3.4	36,5	2,6	14	5530	1,96	,66	-	-	1,43	11,0	A
3.6	202,5	,7	304	4110	2,30	,71	42	100	-	1,6	SG
3.8	71,6	3,1	23	4460	2,04	,75	-	-	2,83	5,6	AL
4.0	74,6	3,7	20	4420	2,04	,79	-	-	2,95	5,4	AL
4.2	39,6	2	20	4320	1,97	,83	-	-	1,55	10,1	A
4.4	38,6	1,6	24	4160	1,96	,87	-	-	1,51	10,4	AL
4.6	40,6	1,9	22	4090	1,97	,90	-	-	1,59	9,9	AL
4.8	55,7	2,9	19	4420	2,00	,94	-	-	2,19	7,2	A
5.0	82,7	,6	138	4280	2,21	,99	36	62	-	4,0	SMA
5.2	108,7	,6	181	5280	2,30	1,04	37	71	-	3,1	SG
5.4	259,7	,7	354	7660	2,30	1,08	41	100	-	1,3	SG


FS(MPa)
QC(MPa)
QC/FS ('/.)
0.6
0.4
0.2
0
2
4
6
8
10
0
20
40
60
80
100
0
1
2
3
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7
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10
PROFONDITA' (metri)
Quota di falda non misurata

3928

parametri geotecnici stimati

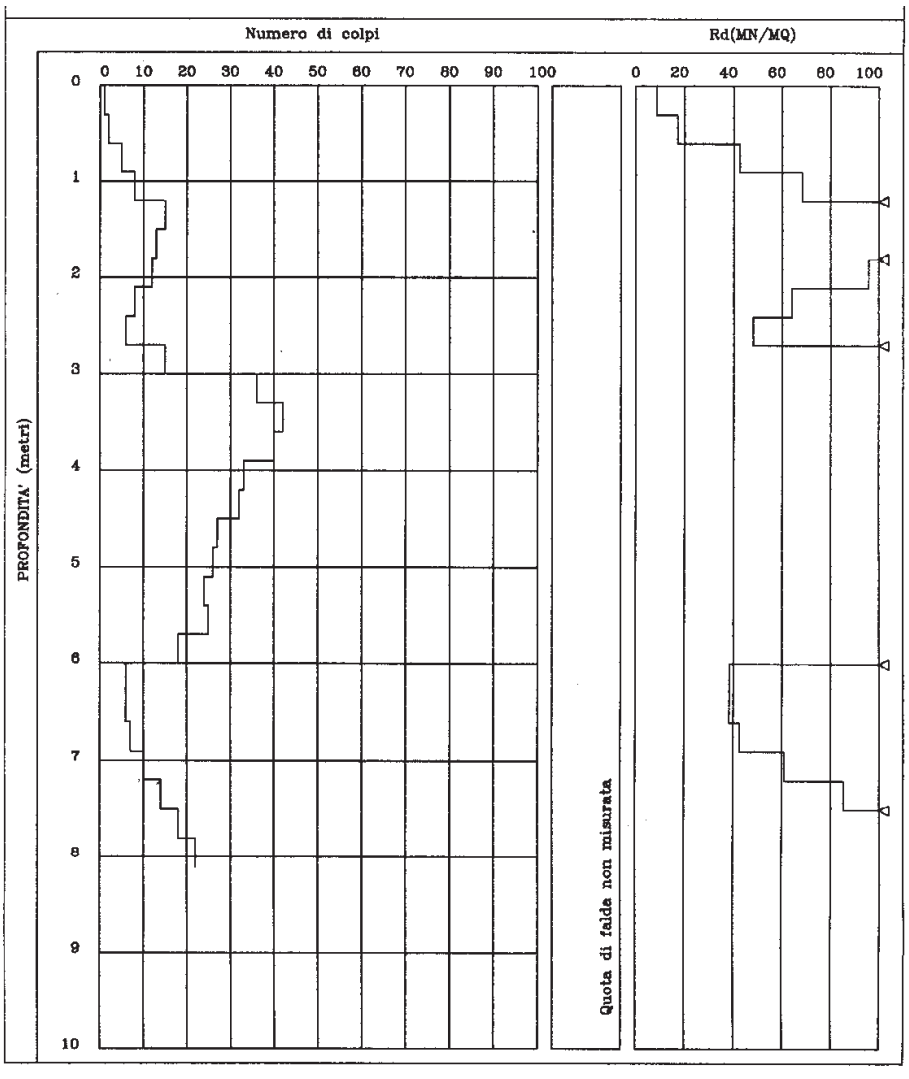
PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	Gamma [Kg/dmc]	Sigma VO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	33,1	,8	41	1030	1,77	,11	29	-	-	10,1	SL
0.8	78,3	1,2	65	1070	1,99	,15	44	100	-	4,3	SG
1.0	63,3	1,3	50	1310	1,92	,19	42	91	-	5,3	SG
1.2	57,3	1,6	36	1540	1,89	,22	31	-	-	5,8	SL
1.4	51,3	2,4	21	1660	1,99	,26	-	-	2,04	7,8	AL
1.6	49,3	2,7	18	1930	1,99	,30	-	-	1,96	8,1	A
1.8	39,4	2,3	17	2240	1,97	,34	-	-	1,56	10,2	A
2.0	39,4	2,7	15	2590	1,97	,38	-	-	1,56	10,2	A
2.2	45,4	3,3	14	2850	1,98	,42	-	-	1,80	8,8	A
2.4	29,4	2,3	13	3230	1,94	,46	-	-	1,16	13,6	A
2.6	34,4	1,9	18	3540	1,95	,50	-	-	1,36	11,6	A
2.8	39,5	2	20	3720	1,97	,54	-	-	1,56	10,1	A
3.0	37,5	1,7	23	3860	1,96	,58	-	-	1,48	10,7	AL
3.2	35,5	2,1	17	3940	1,96	,62	-	-	1,40	11,3	A
3.4	40,5	1,5	28	4140	1,97	,66	-	-	1,59	9,9	AL
3.6	72,5	1,9	39	5400	1,96	,70	32	-	-	4,6	SL
3.8	81,6	1,9	44	5920	2,01	,74	32	-	-	4,1	SL
4.0	236,6	1,5	161	6480	2,30	,78	42	100	-	1,4	SG
4.2	206,6	,7	282	7720	2,30	,83	41	98	-	1,6	SG
4.4	285,6	1,1	252	9050	2,30	,87	42	100	-	1,2	SG



PROF.	NC	RD.	PROF.	NC	RD.	PROF.
0.00	1	8.52				
0.30	2	17.04				
0.60	5	42.59				
0.90	8	68.15				
1.20	15	127.77				
1.50	13	110.74				
1.80	12	95.85				
2.10	8	63.90				
2.40	6	47.92				
2.70	15	112.78				
3.00	36	270.66				
3.30	42	315.77				
3.60	40	284.06				
3.90	33	234.35				
4.20	32	227.25				
4.50	27	191.74				
4.80	26	174.94				
5.10	24	161.48				
5.40	25	168.21				
5.70	18	115.07				
6.00	6	38.36				
6.30	6	38.36				
6.60	7	42.62				
6.90	10	60.89				
7.20	14	85.24				
7.50	18	109.60				
7.80	22	127.88				
8.10	22	127.88				

3929

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE m.
NC = NUMERO COLPI N.RO
RD = RESISTENZA DINAMICA daN/cmq

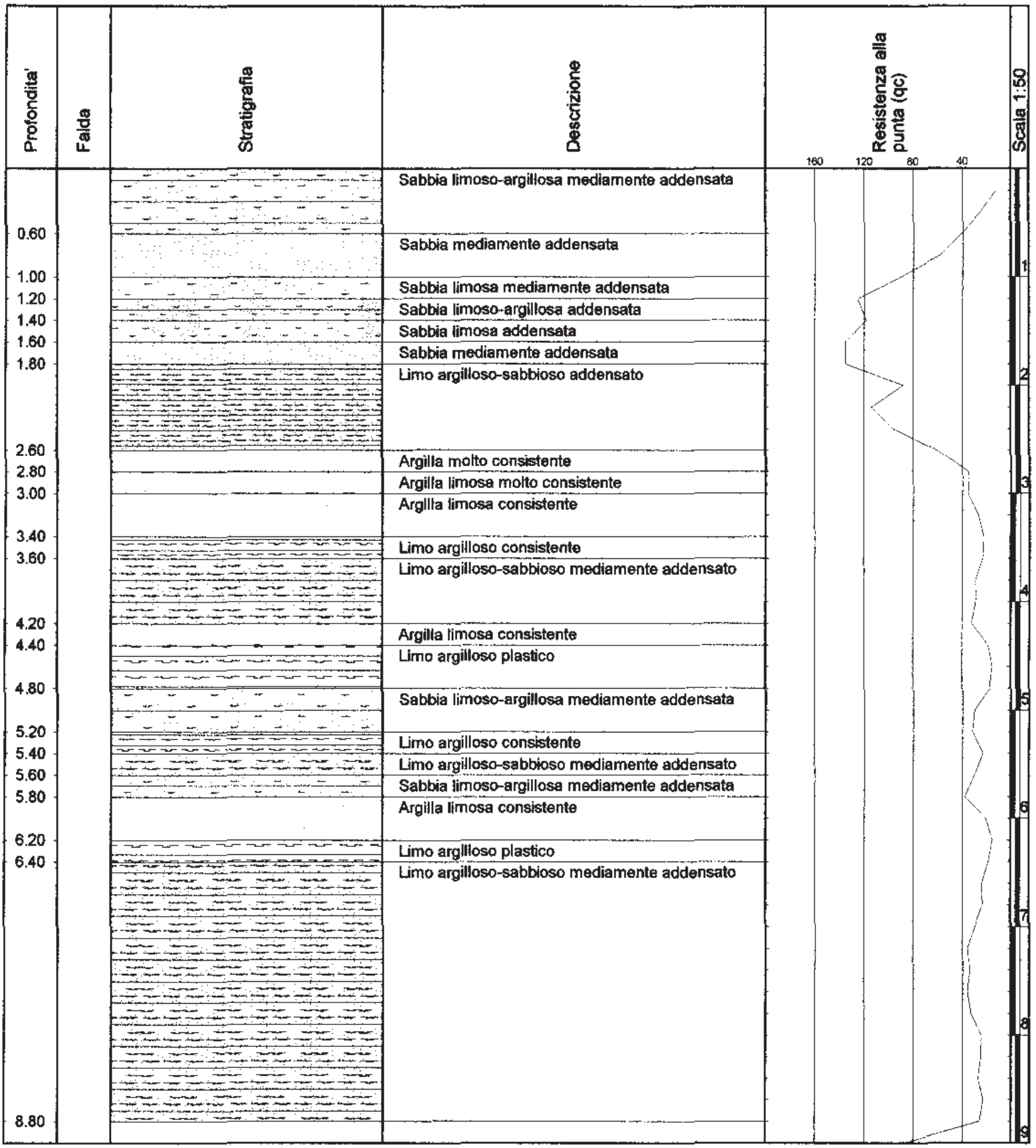


3939

m.	Qc (dN/cm²)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.00	12.00	14.00	0.13	92.31
0.20	12.00	14.00	0.13	92.31
0.40	25.00	28.00	0.20	125.00
0.60	41.00	60.00	1.27	32.28
0.80	58.00	71.00	0.87	66.67
1.00	90.00	111.00	1.40	64.29
1.20	125.00	160.00	2.33	53.65
1.40	118.00	164.00	3.07	38.44
1.60	135.00	176.00	2.73	49.45
1.80	135.00	161.00	1.73	78.03
2.00	88.00	145.00	3.80	23.16
2.20	114.00	160.00	3.07	37.13
2.40	96.00	152.00	3.73	25.74
2.60	61.00	104.00	2.87	21.25
2.80	34.00	91.00	3.80	8.95
3.00	35.00	73.00	2.53	13.83
3.20	27.00	58.00	2.07	13.04
3.40	22.00	45.00	1.53	14.38
3.60	23.00	42.00	1.27	18.11
3.80	29.00	48.00	1.27	22.83
4.00	29.00	49.00	1.33	21.80
4.20	32.00	50.00	1.20	26.67
4.40	18.00	38.00	1.33	13.53
4.60	15.00	28.00	0.87	17.24
4.80	17.00	30.00	0.87	19.54
5.00	30.00	44.00	0.93	32.26
5.20	32.00	46.00	0.93	34.41
5.40	23.00	45.00	1.47	15.65
5.60	30.00	51.00	1.40	21.43
5.80	38.00	56.00	1.20	31.67
6.00	21.00	42.00	1.40	15.00
6.20	15.00	32.00	1.13	13.27
6.40	19.00	35.00	1.07	17.76
6.60	24.00	39.00	1.00	24.00
6.80	24.00	39.00	1.00	24.00
7.00	30.00	48.00	1.20	25.00
7.20	36.00	52.00	1.07	33.64
7.40	34.00	53.00	1.27	26.77
7.60	36.00	53.00	1.13	31.86
7.80	33.00	53.00	1.33	24.81
8.00	24.00	47.00	1.53	15.69
8.20	25.00	40.00	1.00	25.00
8.40	27.00	45.00	1.20	22.50
8.60	23.00	39.00	1.07	21.50
8.80	26.00	45.00	1.27	20.47
9.00	87.00	112.00	1.67	52.10

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**: Rapporto Begemann

3939

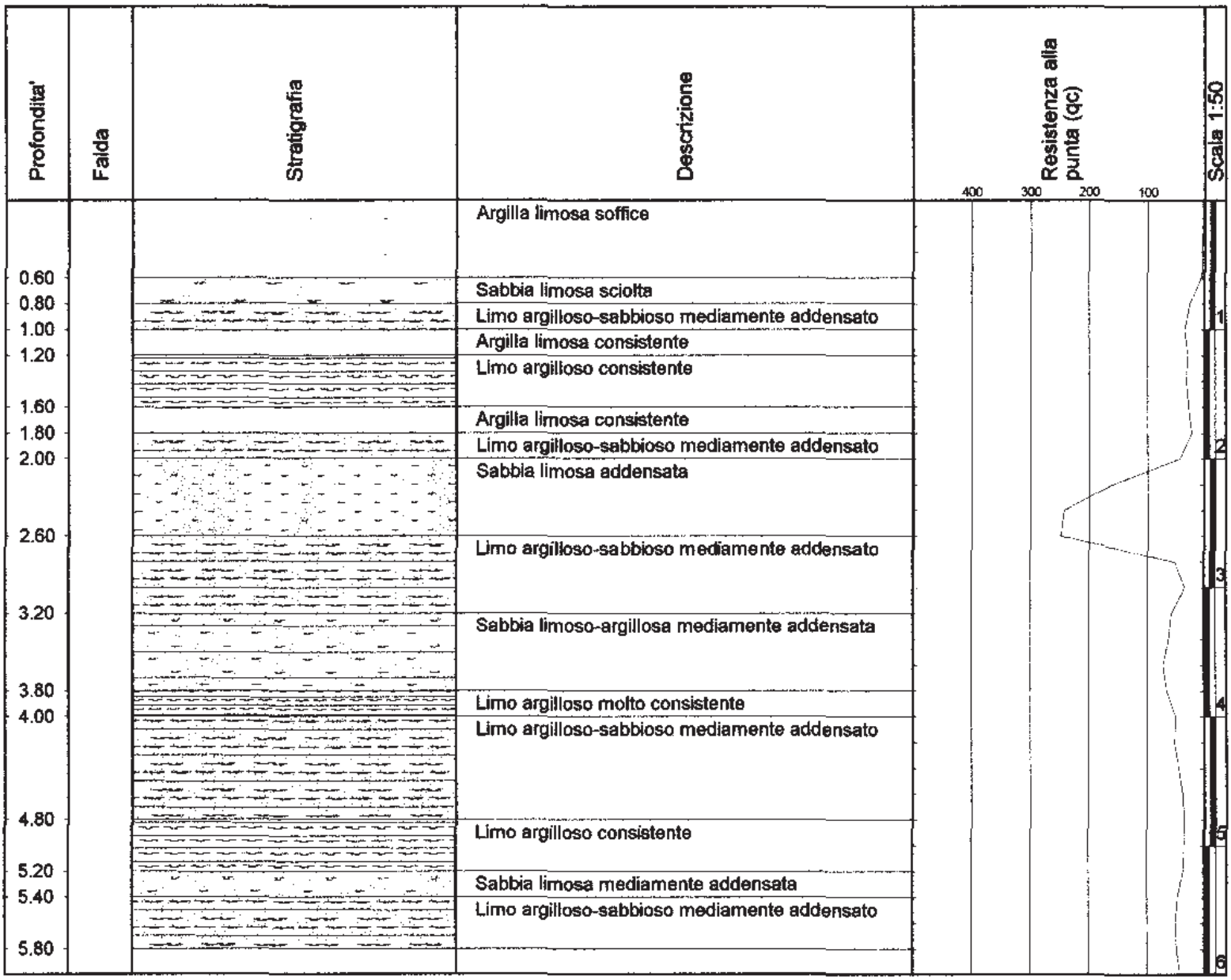

Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
160
120
80
40
Scala 1:50
Sabbia limoso-argillosa mediamente addensata
0.60
Sabbia mediamente addensata
1.00
Sabbia limosa mediamente addensata
1.20
Sabbia limoso-argillosa addensata
1.40
Sabbia limosa addensata
1.60
Sabbia mediamente addensata
1.80
Limo argilloso-sabbioso addensato
2.60
Argilla molto consistente
2.80
Argilla limosa molto consistente
3.00
Argilla limosa consistente
3.40
Limo argilloso consistente
3.60
Limo argilloso-sabbioso mediamente addensato
4.20
Argilla limosa consistente
4.40
Limo argilloso plastico
4.80
Sabbia limoso-argillosa mediamente addensata
5.20
Limo argilloso consistente
5.40
Limo argilloso-sabbioso mediamente addensato
5.60
Sabbia limoso-argillosa mediamente addensata
5.80
Argilla limosa consistente
6.20
Limo argilloso plastico
6.40
Limo argilloso-sabbioso mediamente addensato
8.80
1
2
3
4
5
6
7
8
9

Tipologia intervento: costruzione autorimessa interrata

m.	Qc (dN/cm^2)	Rl (dN/cm2)	Fs (dN/cm2)	Qc/Fs (%)
0.00	4.00	10.00	0.40	10.00
0.20	4.00	10.00	0.40	10.00
0.40	5.00	10.00	0.33	15.15
0.60	5.00	12.00	0.47	10.64
0.80	26.00	33.00	0.47	55.32
1.00	35.00	57.00	1.47	23.81
1.20	32.00	63.00	2.07	15.46
1.40	28.00	50.00	1.47	19.05
1.60	23.00	51.00	1.87	12.30
1.80	44.00	66.00	1.47	29.93
2.00	162.00	208.00	3.07	52.77
2.20	243.00	322.00	5.27	46.11
2.40	249.00	323.00	4.93	50.51
2.60	52.00	86.00	2.27	22.91
2.80	34.00	85.00	3.40	10.00
3.00	58.00	90.00	2.13	27.23
3.20	63.00	90.00	1.80	35.00
3.40	72.00	122.00	3.33	21.62
3.60	66.00	94.00	1.87	35.29
3.80	50.00	91.00	2.73	18.32
4.00	52.00	86.00	2.27	22.91
4.20	45.00	72.00	1.80	25.00
4.40	38.00	66.00	1.87	20.32
4.60	36.00	60.00	1.60	22.50
4.80	36.00	62.00	1.73	20.81
5.00	38.00	65.00	1.80	21.11
5.20	47.00	63.00	1.07	43.93
5.40	51.00	76.00	1.67	30.54
5.60	48.00	70.00	1.47	32.65
5.80	43.00	71.00	1.87	22.99
6.00	56.00	80.00	1.60	35.00

m.:Profondità; **Qc**:Resistenza alla Punta; **Rl**: Resistenza laterale totale; **Fs**:Resistenza specifica al Manicotto; **Qc/Fs**: Rapporto Begemann

3940

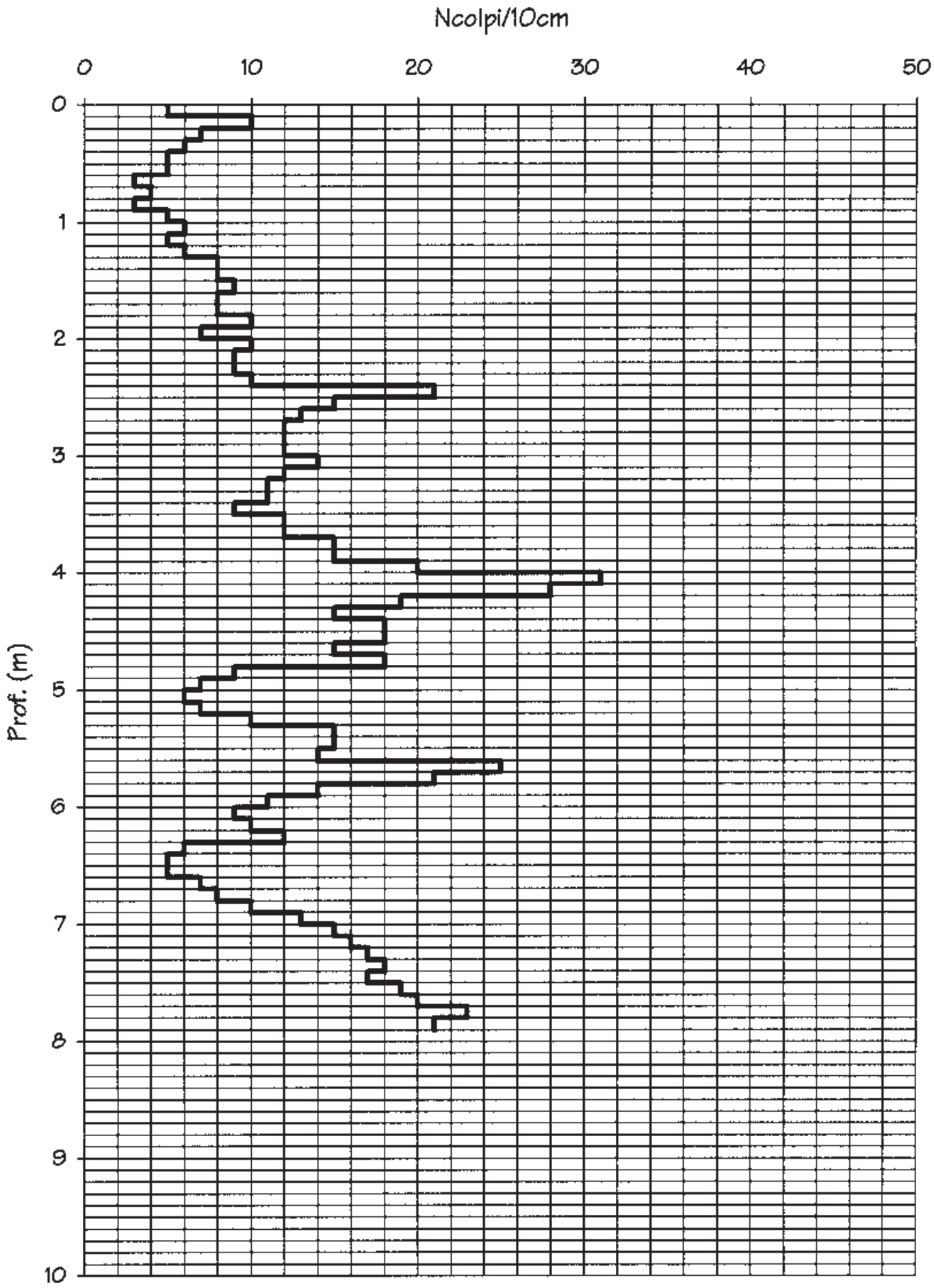

Profondita'
Falda
Stratigrafia
Descrizione
Resistenza alla punta (qc)
400
300
200
100
Scala 1:50
0.60
0.80
1.00
1.20
1.60
1.80
2.00
2.60
3.20
3.80
4.00
4.80
5.20
5.40
5.80
Argilla limosa soffice
Sabbia limosa sciolta
Limo argilloso-sabbioso mediamente addensato
Argilla limosa consistente
Limo argilloso consistente
Argilla limosa consistente
Limo argilloso-sabbioso mediamente addensato
Sabbia limosa addensata
Limo argilloso-sabbioso mediamente addensato
Sabbia limoso-argillosa mediamente addensata
Limo argilloso molto consistente
Limo argilloso-sabbioso mediamente addensato
Limo argilloso consistente
Sabbia limosa mediamente addensata
Limo argilloso-sabbioso mediamente addensato

4021

Prof. (m)	Npunta (Kg/cm²)	Rd (Kg/cm²)
0,0	-	-
0,1	5	20
0,2	10	39
0,3	7	27
0,4	6	24
0,5	5	20
0,6	5	20
0,7	3	12
0,8	4	16
0,9	3	12
1,0	5	20
1,1	6	22
1,2	5	18
1,3	6	22
1,4	8	30
1,5	8	30
1,6	9	33
1,7	8	30
1,8	8	30
1,9	10	37
2,0	7	26
2,1	10	35
2,2	9	31
2,3	9	31
2,4	10	35
2,5	21	73
2,6	15	52
2,7	13	45
2,8	12	42
2,9	12	42
3,0	12	42
3,1	14	46
3,2	12	40
3,3	11	36
3,4	11	36
3,5	9	30
3,6	12	40
3,7	12	40
3,8	15	49
3,9	15	49

Prof. (m)	Npunta (Kg/cm²)	Rd (Kg/cm²)
4,0	20	66
4,1	31	97
4,2	28	88
4,3	19	59
4,4	15	47
4,5	18	56
4,6	18	56
4,7	15	47
4,8	18	56
4,9	9	28
5,0	7	22
5,1	6	18
5,2	7	21
5,3	10	30
5,4	15	45
5,5	15	45
5,6	14	42
5,7	25	75
5,8	21	63
5,9	14	42
6,0	11	33
6,1	9	26
6,2	10	28
6,3	12	34
6,4	6	17
6,5	5	14
6,6	5	14
6,7	7	20
6,8	8	23
6,9	10	28
7,0	13	37
7,1	15	41
7,2	16	44
7,3	17	46
7,4	18	49
7,5	17	46
7,6	19	52
7,7	20	54
7,8	23	63
7,9	21	57

4021



LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

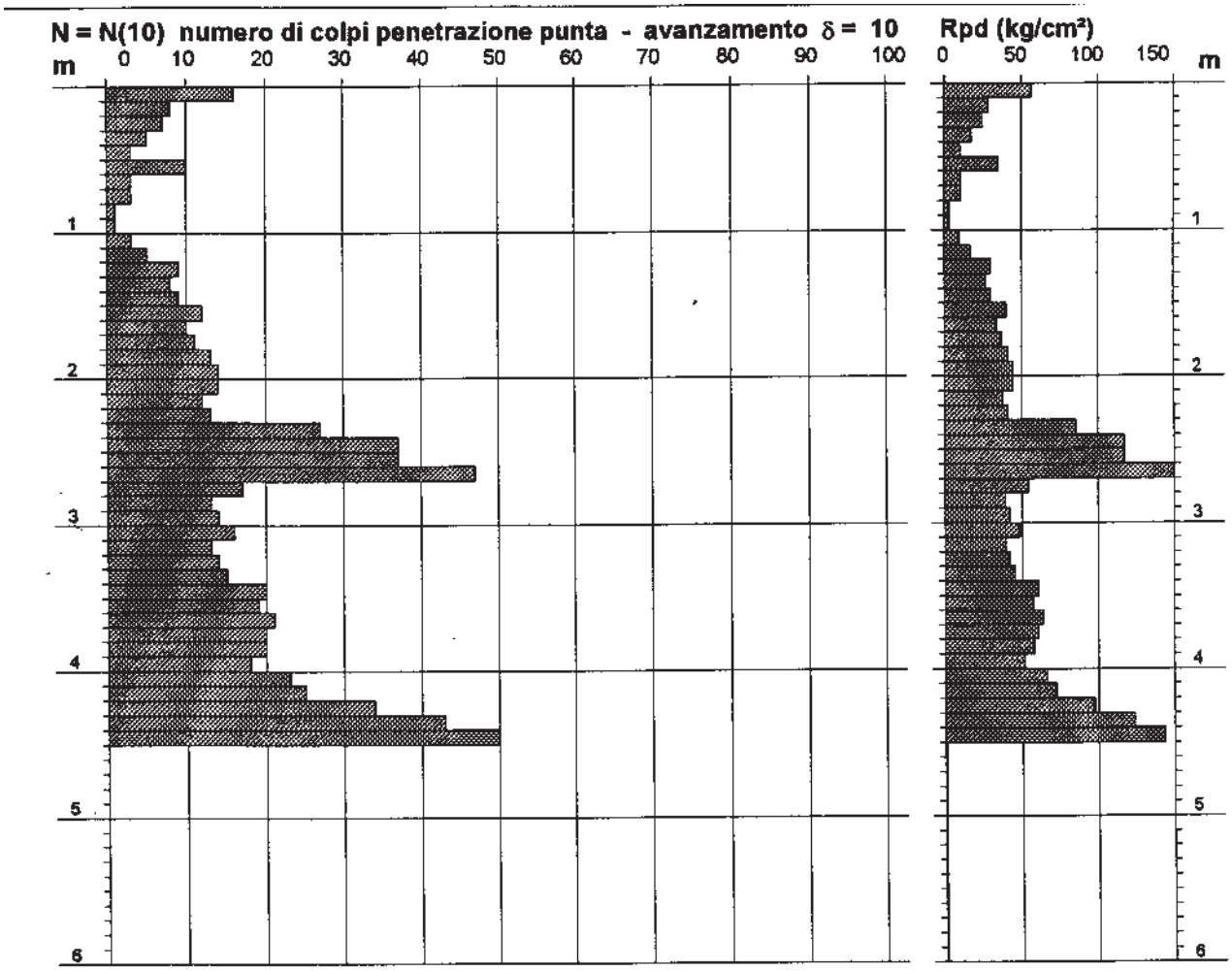
4074

Prof.	N	Rd	Nspt
0,1	7	28,1	5
0,2	12	48,1	9
0,3	6	24,1	5
0,4	9	36,1	7
0,5	9	36,1	7
0,6	10	40,1	8
0,7	12	48,1	9
0,8	12	48,1	9
0,9	15	60,1	11
1,0	13	52,1	10
1,1	13	52,1	10
1,2	13	52,1	10
1,3	14	56,1	11
1,4	16	64,1	12
1,5	27	108,2	20
1,6	20	80,2	15
1,7	14	56,1	11
1,8	21	84,2	16
1,9	19	76,2	14
2,0	16	64,1	12
2,1	15	60,1	11
2,2	15	60,1	11
2,3	17	68,2	13
2,4	10	40,1	8
2,5	10	40,1	8
2,6	11	44,1	8
2,7	8	32,1	6
2,8	11	44,1	8
2,9	14	56,1	11
3,0	15	60,1	11
3,1	12	48,1	9
3,2	10	40,1	8
3,3	11	44,1	8
3,4	10	40,1	8
3,5	13	52,1	10
3,6	16	64,1	12
3,7	12	48,1	9
3,8	10	40,1	8
3,9	9	36,1	7
4,0	9	36,1	7
4,1	-	-	-
4,2	-	-	-
4,3	-	-	-
4,4	-	-	-
4,5	-	-	-
4,6	-	-	-
4,7	-	-	-
4,8	-	-	-
4,9	-	-	-
5,0	-	-	-

4331

Prof.(m)	N(colpi p)	Rpd(kg/cm²)	asta
0,00 - 0,10	16	56,5	1
0,10 - 0,20	8	28,3	1
0,20 - 0,30	7	24,7	1
0,30 - 0,40	5	17,7	1
0,40 - 0,50	3	10,6	1
0,50 - 0,60	10	35,3	1
0,60 - 0,70	3	10,6	1
0,70 - 0,80	3	10,6	1
0,80 - 0,90	1	3,3	2
0,90 - 1,00	1	3,3	2
1,00 - 1,10	3	10,0	2
1,10 - 1,20	5	16,7	2
1,20 - 1,30	9	30,1	2
1,30 - 1,40	8	26,7	2
1,40 - 1,50	9	30,1	2
1,50 - 1,60	12	40,1	2
1,60 - 1,70	10	33,4	2
1,70 - 1,80	11	36,8	2
1,80 - 1,90	13	41,2	3
1,90 - 2,00	14	44,4	3
2,00 - 2,10	14	44,4	3
2,10 - 2,20	12	38,0	3
2,20 - 2,30	13	41,2	3
2,30 - 2,40	27	85,6	3
2,40 - 2,50	37	117,3	3
2,50 - 2,60	37	117,3	3
2,60 - 2,70	47	149,0	3
2,70 - 2,80	17	53,9	3
2,80 - 2,90	13	39,2	4
2,90 - 3,00	14	42,2	4
3,00 - 3,10	16	48,2	4
3,10 - 3,20	13	39,2	4
3,20 - 3,30	14	42,2	4
3,30 - 3,40	15	45,2	4
3,40 - 3,50	20	60,3	4
3,50 - 3,60	19	57,3	4
3,60 - 3,70	21	63,3	4
3,70 - 3,80	20	60,3	4
3,80 - 3,90	20	57,5	5
3,90 - 4,00	18	51,7	5
4,00 - 4,10	23	66,1	5
4,10 - 4,20	25	71,8	5
4,20 - 4,30	34	97,7	5
4,30 - 4,40	43	123,5	5
4,40 - 4,50	50	143,7	5

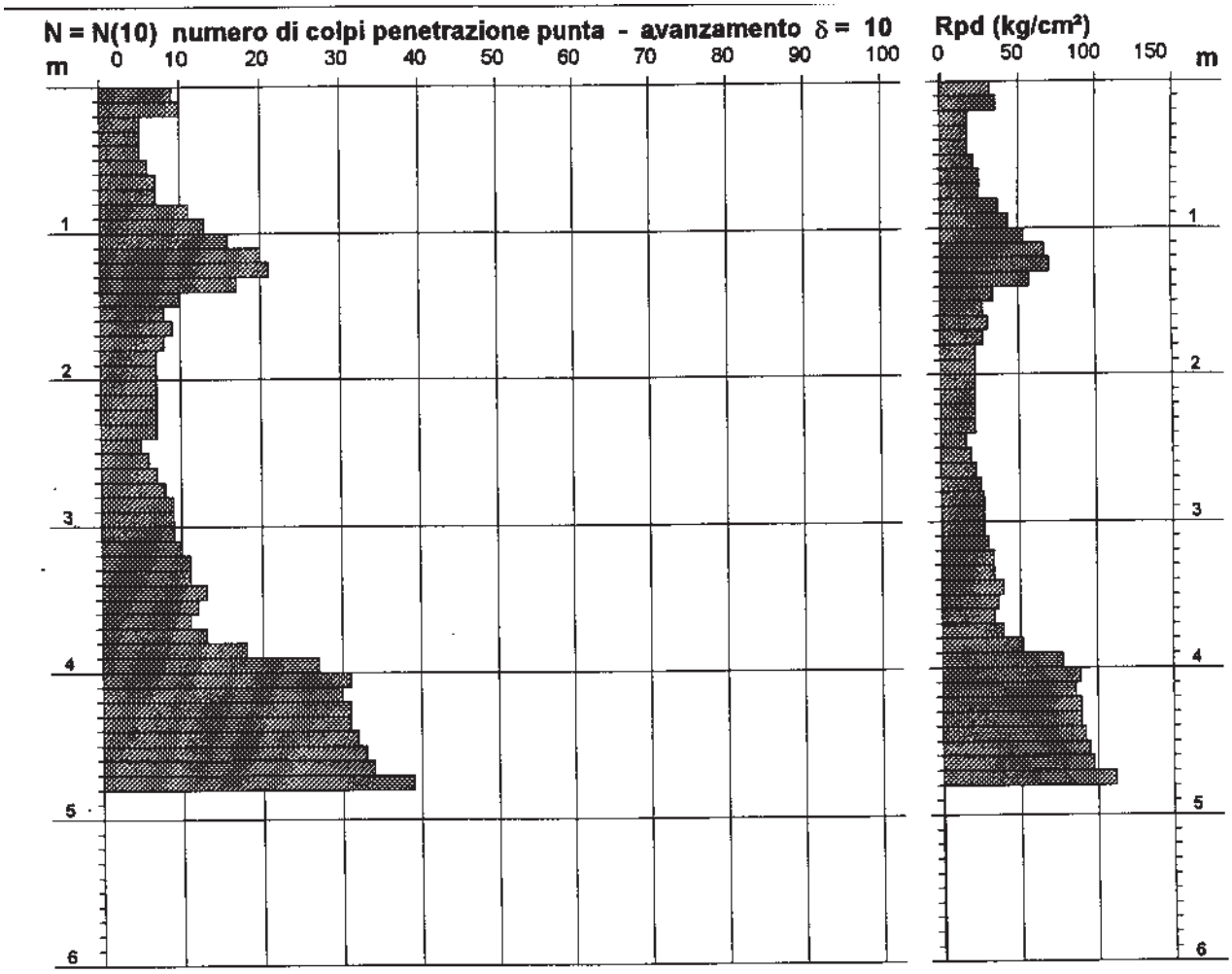
- PENETROMETRO DINAMICO tipo : **DL-30 (60°)**
- M (massa battente)= **30,00** kg - H (altezza caduta)= **0,20** m - A (area punta)= **10,00** cm² - D(diam. punta)= **35,70** mm
- Numero Colpi Punta N = N(**10**) [δ = 10 cm] - Uso rivestimento / fanghi iniezione : **NO**



4332

Prof.(m)	N(colpi p)	Rpd(kg/cm²)	asta	Prof.(m)	N(colpi p)	Rpd(kg/cm²)	asta
0,00 - 0,10	9	31,8	1	2,40 - 2,50	5	15,8	3
0,10 - 0,20	10	35,3	1	2,50 - 2,60	6	19,0	3
0,20 - 0,30	5	17,7	1	2,60 - 2,70	7	22,2	3
0,30 - 0,40	5	17,7	1	2,70 - 2,80	8	25,4	3
0,40 - 0,50	5	17,7	1	2,80 - 2,90	9	27,1	4
0,50 - 0,60	6	21,2	1	2,90 - 3,00	9	27,1	4
0,60 - 0,70	7	24,7	1	3,00 - 3,10	9	27,1	4
0,70 - 0,80	7	24,7	1	3,10 - 3,20	10	30,1	4
0,80 - 0,90	11	36,8	2	3,20 - 3,30	11	33,2	4
0,90 - 1,00	13	43,4	2	3,30 - 3,40	11	33,2	4
1,00 - 1,10	16	53,5	2	3,40 - 3,50	13	39,2	4
1,10 - 1,20	20	66,8	2	3,50 - 3,60	12	36,2	4
1,20 - 1,30	21	70,2	2	3,60 - 3,70	11	33,2	4
1,30 - 1,40	17	56,8	2	3,70 - 3,80	13	39,2	4
1,40 - 1,50	10	33,4	2	3,80 - 3,90	18	51,7	5
1,50 - 1,60	8	26,7	2	3,90 - 4,00	27	77,6	5
1,60 - 1,70	9	30,1	2	4,00 - 4,10	31	89,1	5
1,70 - 1,80	8	26,7	2	4,10 - 4,20	30	86,2	5
1,80 - 1,90	7	22,2	3	4,20 - 4,30	31	89,1	5
1,90 - 2,00	7	22,2	3	4,30 - 4,40	31	89,1	5
2,00 - 2,10	7	22,2	3	4,40 - 4,50	32	91,9	5
2,10 - 2,20	7	22,2	3	4,50 - 4,60	33	94,8	5
2,20 - 2,30	7	22,2	3	4,60 - 4,70	34	97,7	5
2,30 - 2,40	7	22,2	3	4,70 - 4,80	39	112,1	5

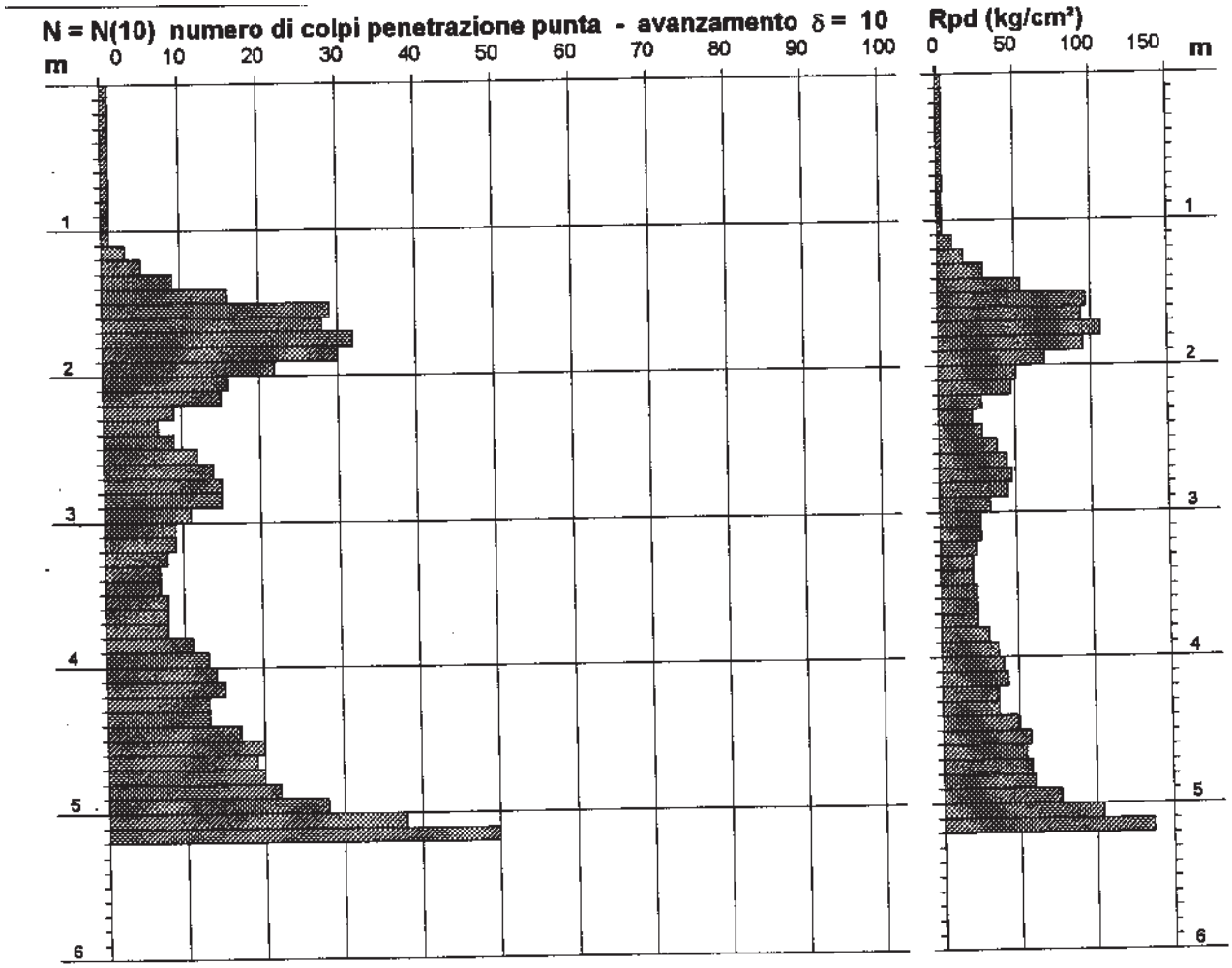
- PENETROMETRO DINAMICO tipo : **DL-30 (60°)**
- M (massa battente)= **30,00** kg - H (altezza caduta)= **0,20** m - A (area punta)= **10,00** cm² - D(diam. punta)= **35,70** mm
- Numero Colpi Punta N = N(10) [δ = 10 cm] - Uso rivestimento / fanghi iniezione : **NO**



4333

Prof.(m)	N(colpi p)	Rpd(kg/cm²)	asta	Prof.(m)	N(colpi p)	Rpd(kg/cm²)	asta
0,00 - 0,10	1	3,5	1	2,60 - 2,70	14	44,4	3
0,10 - 0,20	1	3,5	1	2,70 - 2,80	15	47,5	3
0,20 - 0,30	1	3,5	1	2,80 - 2,90	15	45,2	4
0,30 - 0,40	1	3,5	1	2,90 - 3,00	11	33,2	4
0,40 - 0,50	1	3,5	1	3,00 - 3,10	9	27,1	4
0,50 - 0,60	1	3,5	1	3,10 - 3,20	9	27,1	4
0,60 - 0,70	1	3,5	1	3,20 - 3,30	8	24,1	4
0,70 - 0,80	1	3,5	1	3,30 - 3,40	7	21,1	4
0,80 - 0,90	1	3,3	2	3,40 - 3,50	7	21,1	4
0,90 - 1,00	1	3,3	2	3,50 - 3,60	8	24,1	4
1,00 - 1,10	1	3,3	2	3,60 - 3,70	8	24,1	4
1,10 - 1,20	3	10,0	2	3,70 - 3,80	8	24,1	4
1,20 - 1,30	5	16,7	2	3,80 - 3,90	11	31,6	5
1,30 - 1,40	9	30,1	2	3,90 - 4,00	13	37,4	5
1,40 - 1,50	16	53,5	2	4,00 - 4,10	14	40,2	5
1,50 - 1,60	29	96,9	2	4,10 - 4,20	15	43,1	5
1,60 - 1,70	28	93,6	2	4,20 - 4,30	13	37,4	5
1,70 - 1,80	32	106,9	2	4,30 - 4,40	13	37,4	5
1,80 - 1,90	30	95,1	3	4,40 - 4,50	17	48,8	5
1,90 - 2,00	22	69,7	3	4,50 - 4,60	20	57,5	5
2,00 - 2,10	16	50,7	3	4,60 - 4,70	19	54,6	5
2,10 - 2,20	15	47,5	3	4,70 - 4,80	20	57,5	5
2,20 - 2,30	9	28,5	3	4,80 - 4,90	22	60,4	6
2,30 - 2,40	7	22,2	3	4,90 - 5,00	28	76,9	6
2,40 - 2,50	9	28,5	3	5,00 - 5,10	38	104,3	6
2,50 - 2,60	12	38,0	3	5,10 - 5,20	50	137,2	6

- PENETROMETRO DINAMICO tipo : **DL-30 (60°)**
- M (massa battente)= **30,00** kg - H (altezza caduta)= **0,20** m - A (area punta)= **10,00** cm² - D(diam. punta)= **35,70** mm
- Numero Colpi Punta N = N(10) [δ = 10 cm] - Uso rivestimento / fanghi iniezione : NO



5821

SCHEMA COSTRUTTIVO DEL POZZO

Scala delle larghezze 1:100
Scala delle lunghezze 1:200

Tav. 4

Particolari del foro e del tubo
Scala 1:10

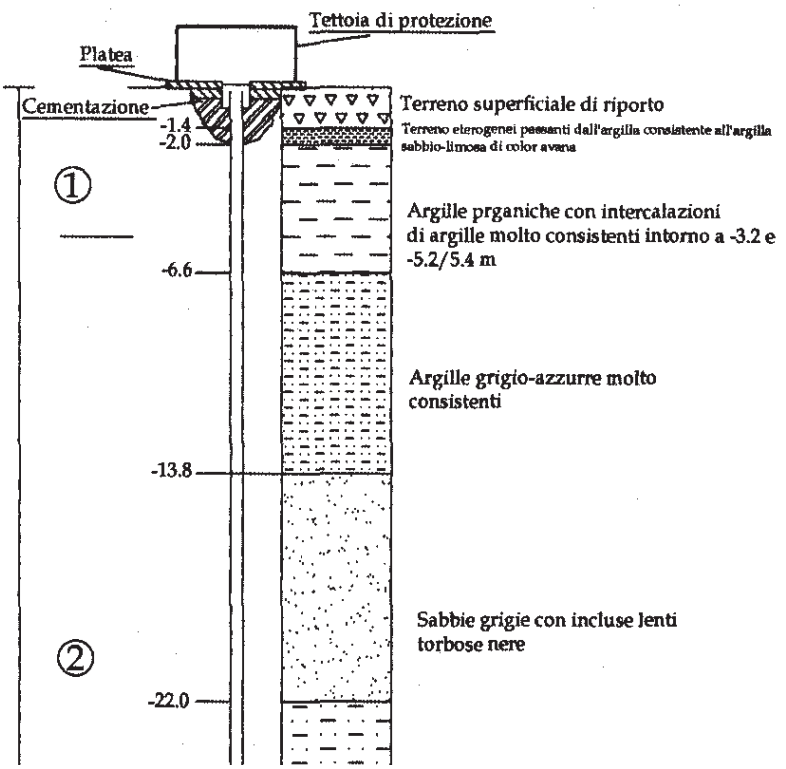
① da -2 m a -5.34 m

Tampone bentonitico

Foro ϕ = 200mm

Tubo ϕ = 150 mm.

② da -5.34 m a -44.04 m e
da -53.04 m a -70.0 m



Ghiaietto ϕ = 2,5/3 mm.

Foro ϕ = 200 mm

Tubo ϕ = 150 mm.

③ da -44.04 m a -53.04 m

Tubo fessurato con luce 0,8 mm.

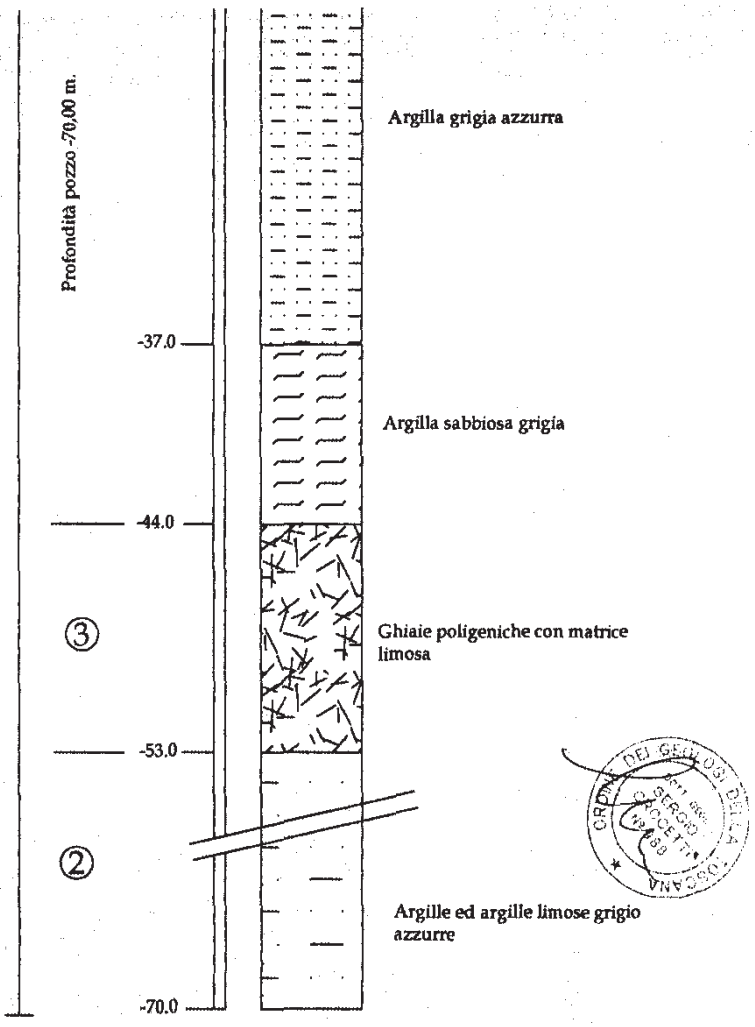
Foro ϕ = 200

Tubo ϕ = 150 mm.

NB:

-) Attualmente il pozzo, oltre la profondità di -40.0 m, risulta occluso.

-) Profondità pompa sommersa -22.0 m



5821

Certificato n. 1242 Del 12/06/03
Campione n. 1340/03 pervenuto il 5/06/03
Descrizione: ACQUA DI POZZO S.MARIA A MONTE (IMP.CARBURANTI) PI

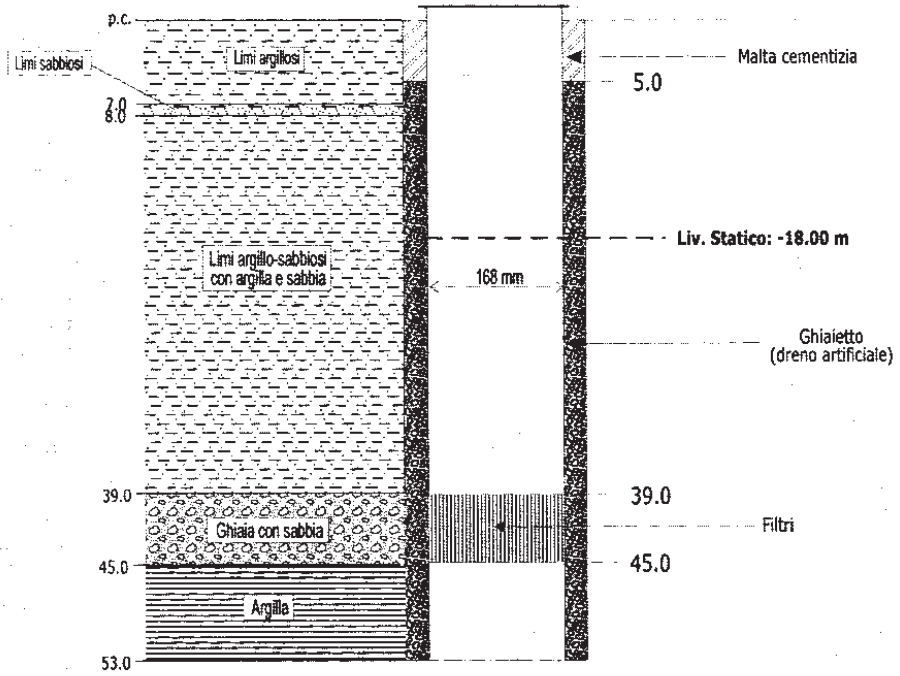
RISULTATI ANALITICI

Parametro	U.m.	Risultato	Limiti
pH	----------	7	
Durezza totale	°F	375	
Bicarbonati	mg/l HCO3	497,1	
Conducibilità	us/cm	915	
Cloruri	mg/l Cl	49,6	
Sodio	mg/l Na	67,5	
Calcio	mg/l Ca	43	
Potassio	mg/l K	1,97	
Manganese	ug/l Mn	2,6	
Solfati	mg/l SO4	45,3	
Magnesio	mg/l Mg	65	
Ferro	mg/l Fe	0,12	

I risultati analitici si riferiscono al campione come consegnato dal cliente.

Stratigrafia e
schema costruttivo del pozzo
Scala vericale1:500

5825



Richiedente	
Campione acqua di	**POZZO**
Analizzato il	**22—10—2003**

		RISULTATO ANALISI	VALORI MASSIMI
	Aspetto:	PAGLIERINO CON MATERIALE SOLIDO IN SOSPENSIONE	
Alcalinità m (HCO3)	mg/l	330	
pH		8.01	6.5—9.5
Durezza Totale	°F	29	
Ferro (FE)	mg/l	7	0.2 mg/l
Ammoniaca (NH3)	mg/l		0.5 mg/l
Manganese (Mn)	mg/l	0.6	0.05 mg/l
Nitrati (NO3)	mg/l	TRACCE	50 mg/l
Nitriti (NO2)	mg/l		0.1 mg/l
Cloruri (CL)	mg/l	42.7	
Solfati (SO4)	mg/l		250 mg/l
Conduttività a 20°C	mS/cm2	635	2500

5933

3) - *Stratigrafia*

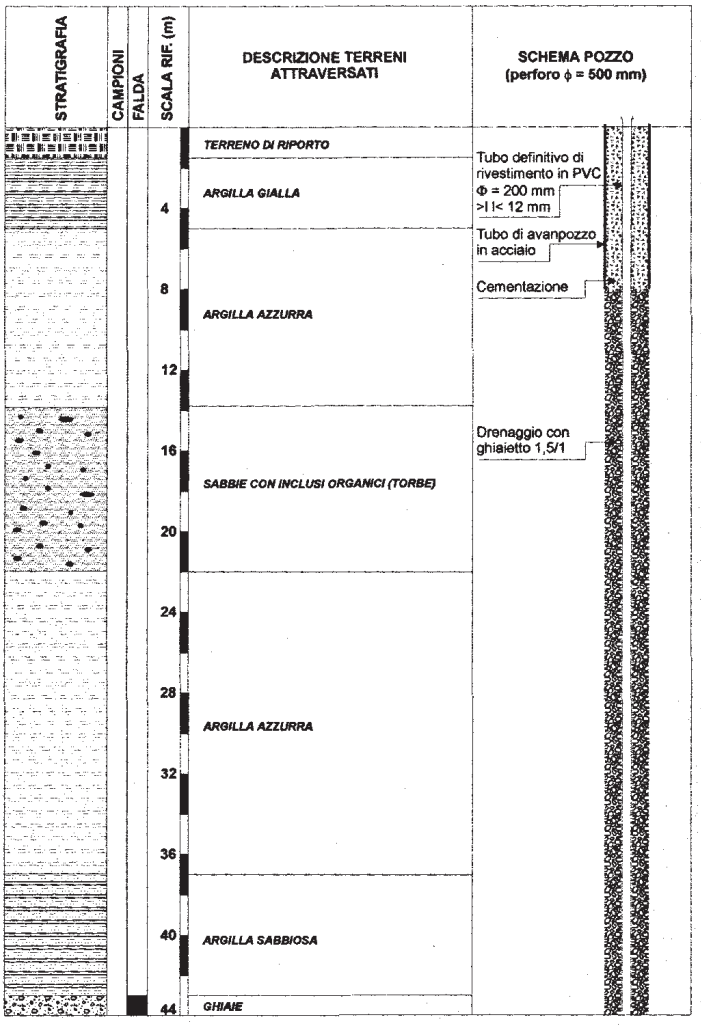
Stratigrafia pozzo - profondità -15 m

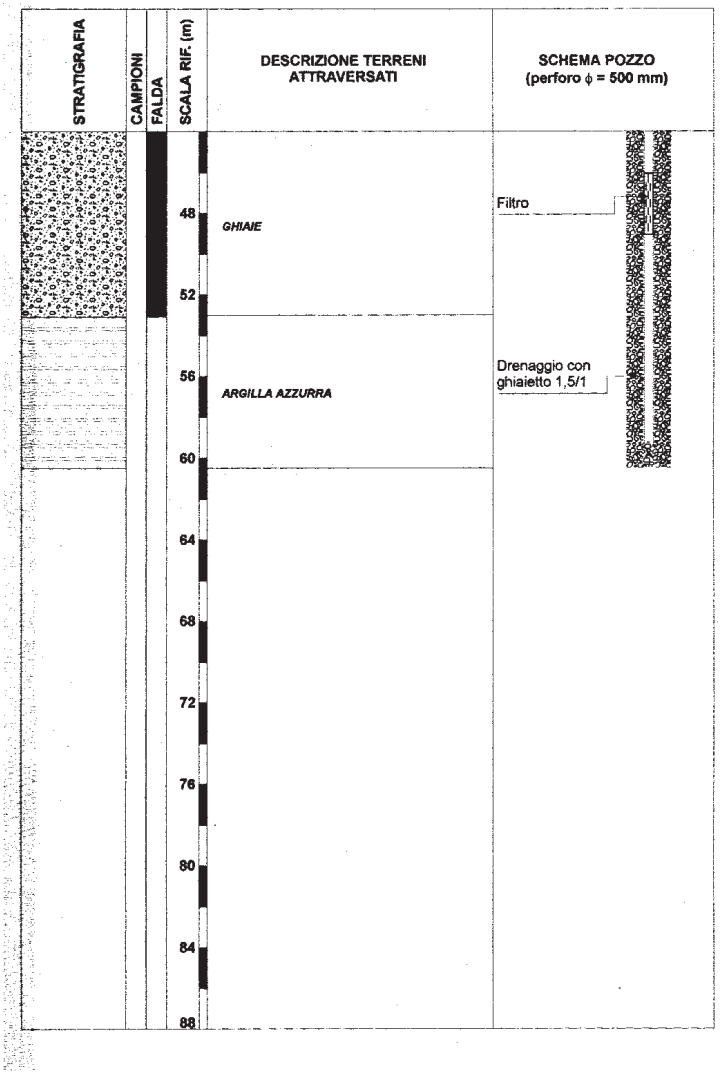
da	a	Descrizione litologica
0,0 m	-1,5 m	Terreno vegetale
-1,5 m	-7 m	Limo argilloso
-7 m	-9 m	Sabbia
-9 m	-15 m	Argilla

4) - *Caratteristiche tecniche del pozzo (ad anelli)*

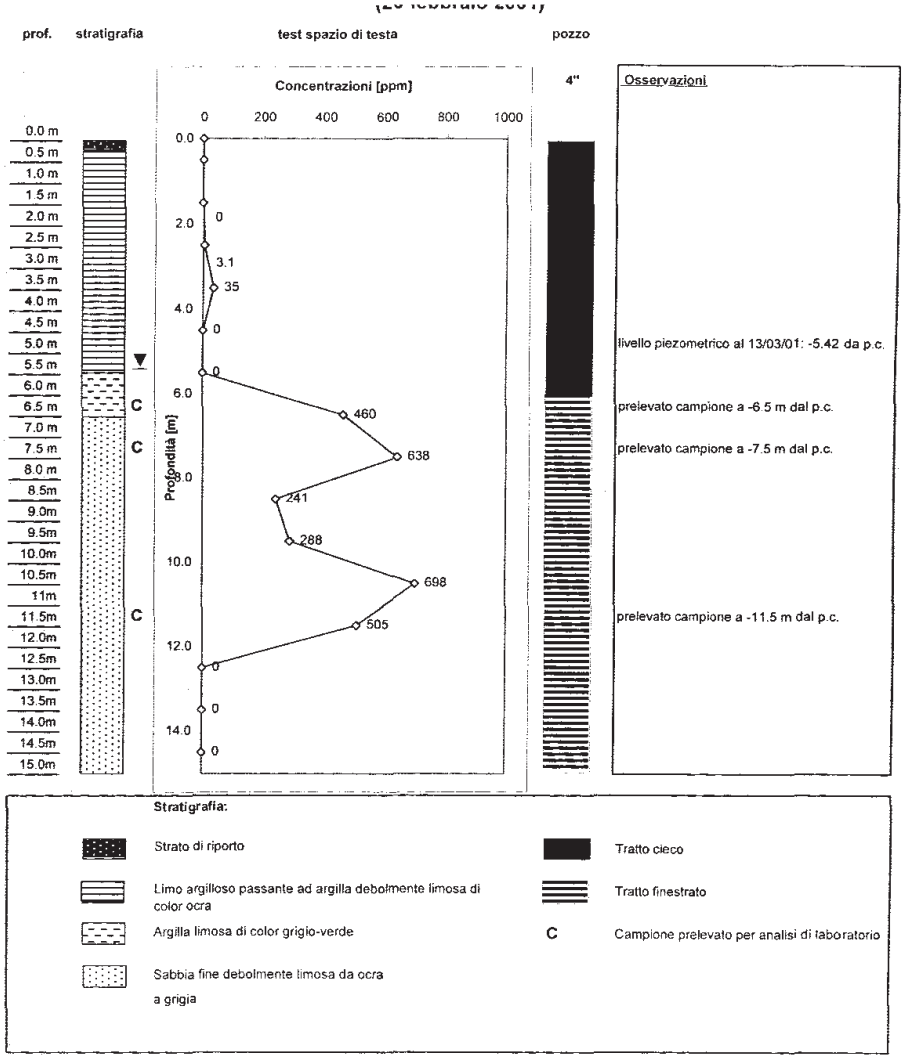
Sistema di perforazione:	Rotazione con trivelsonda dotata di fresa e cestello		
Profondità:	- 15 m		
Diametro Perforazione:	1200 mm		
Diametro tubazione definitiva:	1000 mm		
Filtri:	no		
Liv. Piez. Statico:	-1 m		
Portata massima del pozzo:	25 l/min		
Portata di esercizio:	20 l/min	**Liv. Piez. Dinamico:**	-3,5 m

5958


STRATIGRAFIA
CAMPIONI
FALDA
SCALA RIF. (m)
DESCRIZIONE TERRENI ATTRAVERSATI
SCHEMA POZZO (perforo ϕ = 500 mm)
TERRENO DI RIPORTO
ARGILLA GIALLA
ARGILLA AZZURRA
SABBIE CON INCLUSI ORGANICI (TORBE)
ARGILLA AZZURRA
ARGILLA SABBIOSA
GHIAIE
4
8
12
16
20
24
28
32
36
40
44
Tubo definitivo di rivestimento in PVC Φ = 200 mm >I I< 12 mm
Tubo di avanpozzo in acciaio
Cementazione
Drenaggio con ghiaietto 1,5/1

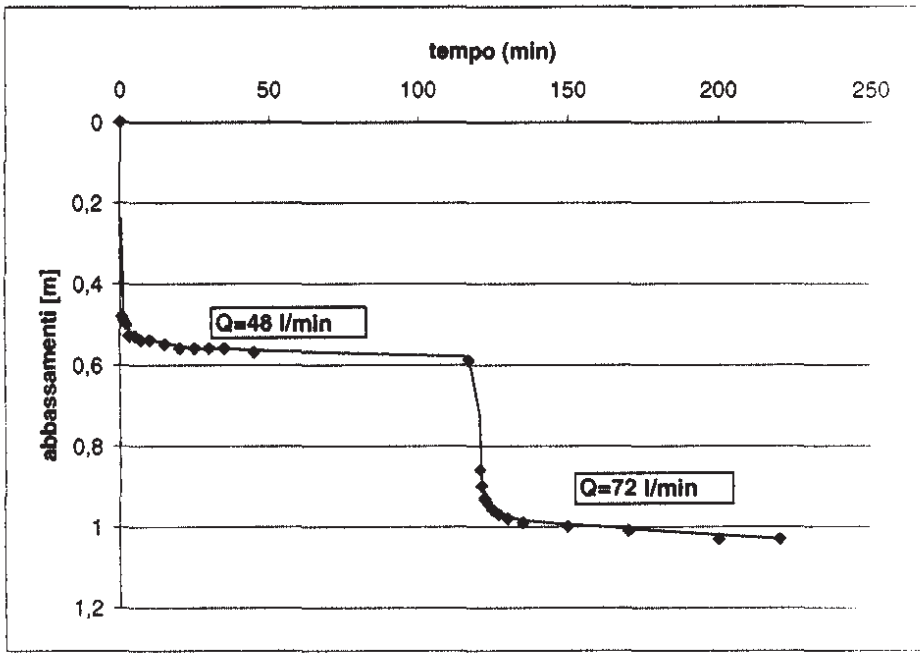

STRATIGRAFIA
CAMPIONI
FALDA
SCALA RIF. (m)
DESCRIZIONE TERRENI ATTRAVERSATI
SCHEMA POZZO (perforo ϕ = 500 mm)
GHIAIE
ARGILLA AZZURRA
48
52
56
60
64
68
72
76
80
84
88
Filtro
Drenaggio con ghiaietto 1,5/1

6501



Scheda 6 - PROVA DI POMPAGGIO IN PM1 A GRADINI DI PORTATA (14 marzo 2001)

Tempo [min]	soggiacenza da p.c. [m]	Abbassamenti s [m]
0	5,42	0
0,5	5,9	0,48
1,0	5,91	0,49
2,0	5,92	0,50
3,0	5,95	0,53
5,0	5,95	0,53
7,0	5,96	0,54
10,0	5,96	0,54
15,0	5,97	0,55
20,0	5,98	0,56
25,0	5,98	0,56
30,0	5,98	0,56
35,0	5,98	0,56
45,0	5,99	0,57
117,0	6,01	0,59
120,5	6,28	0,86
121,0	6,32	0,90
122,0	6,35	0,93
123,0	6,36	0,94
125,0	6,38	0,96
127,0	6,39	0,97
130,0	6,4	0,98
135,0	6,41	0,99
150,0	6,42	1,00
170,0	6,43	1,01
200,0	6,45	1,03
220,0	6,45	1,03
240,0	6,45	1,03

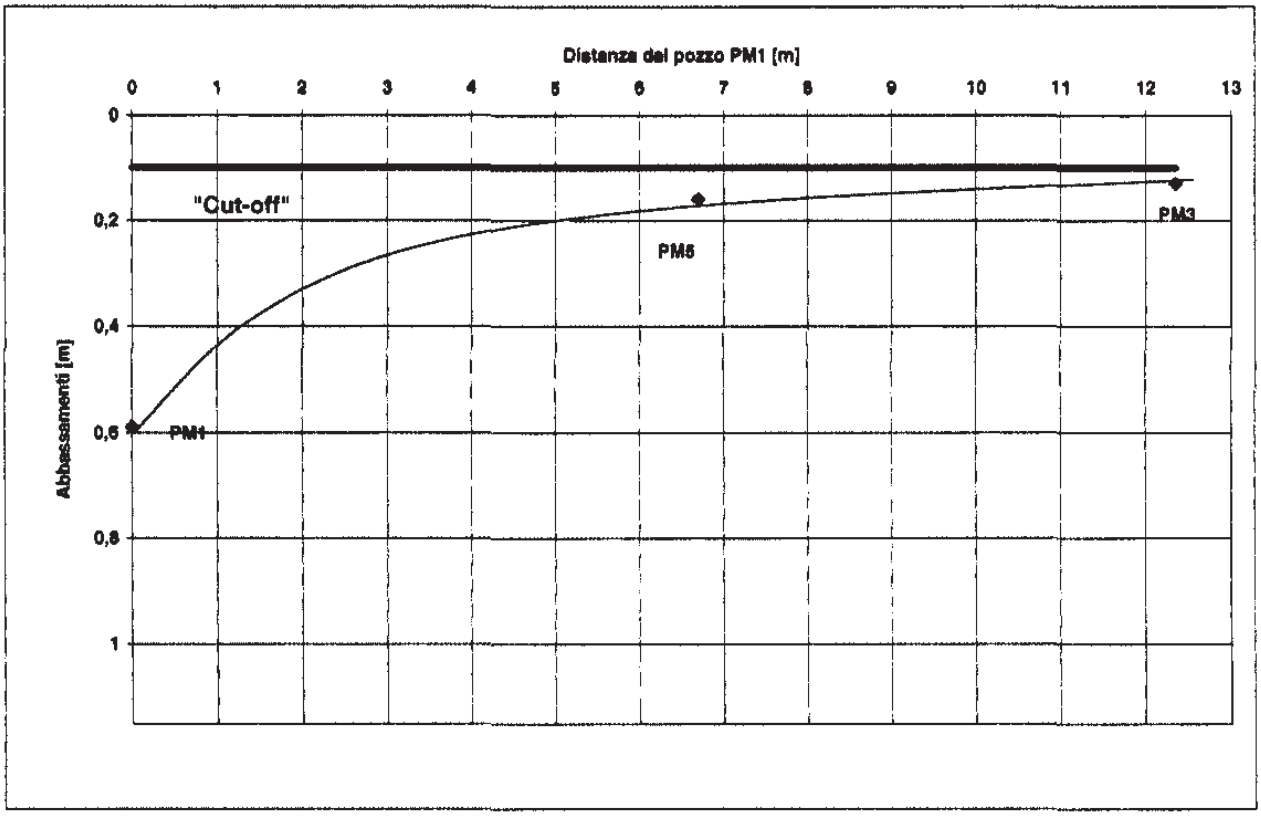


S. Maria a Monte (PI)

Scheda 7 - RAGGIO D'INFLUENZA DURANTE LA PROVA DI POMPAGGIO IN PM1 (Q = 48 litri/minuto)

6501

Distanza dal pozzo PM1		Abbassamenti [m]	"Cut-off"
PM1	0	0,59	0,1
PM5	6,7	0,16	0,1
PM3	12,35	0,13	0,1

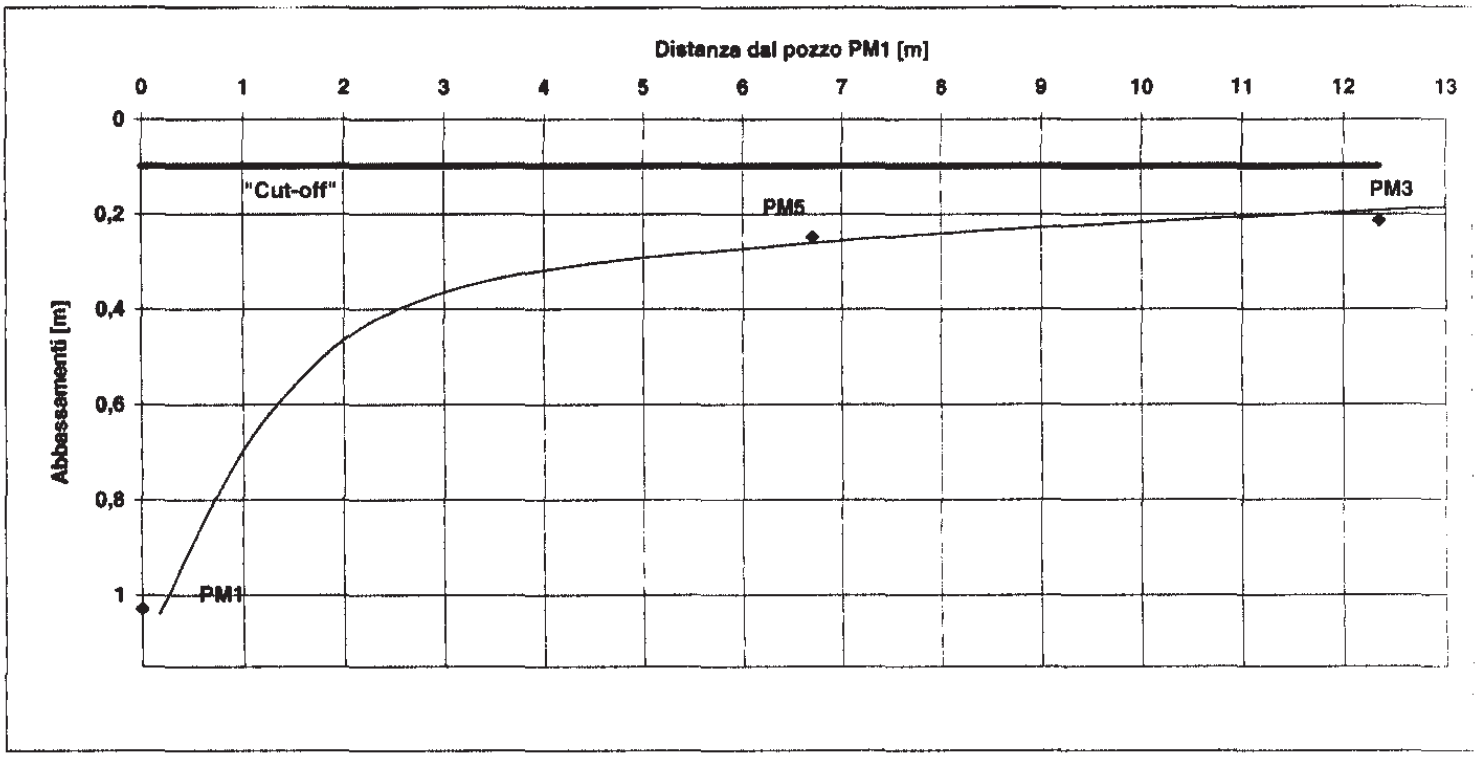


09 - S. Maria a Monte (PI)

Luglio

Scheda 8 - RAGGIO D'INFLUENZA DURANTE LA PROVA DI POMPAGGIO IN PM1 (Q = 72 litri/minuto)

	Distanza dal pozzo PM1	Abbassamenti [m]	"Cut-off"
PM1	0	1,03	0,1
PM5	6,7	0,25	0,1
PM3	12,35	0,215	0,1



Scheda 9 - PROVA DI RISALITA
EFFETTUATA NEL POZZO PM1

6501

tempo t' [s]	t/t'	s' [m]
1	14400	6,450
30	481	5,590
60	241	5,550
120	121	5,520
180	81	5,500
240	61	5,480
300	49	5,480
420	35	5,480
600	25	5,470
900	17	5,450
1800	9	5,440
2400	7	5,440
3600	5	5,440
4800	4	5,430
6000	3	5,440

K=T/spessore acquifero
T=Trasmissività

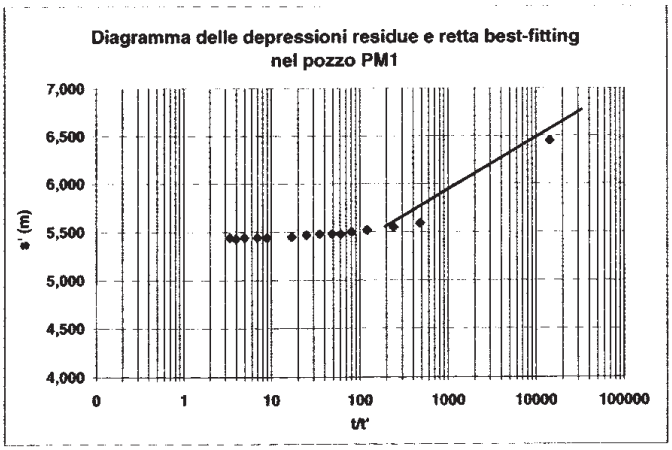
$$T = \frac{2.3*Q}{4\pi\Delta s'}$$

Dove:
Q= portata di emungimento (m^3/s)

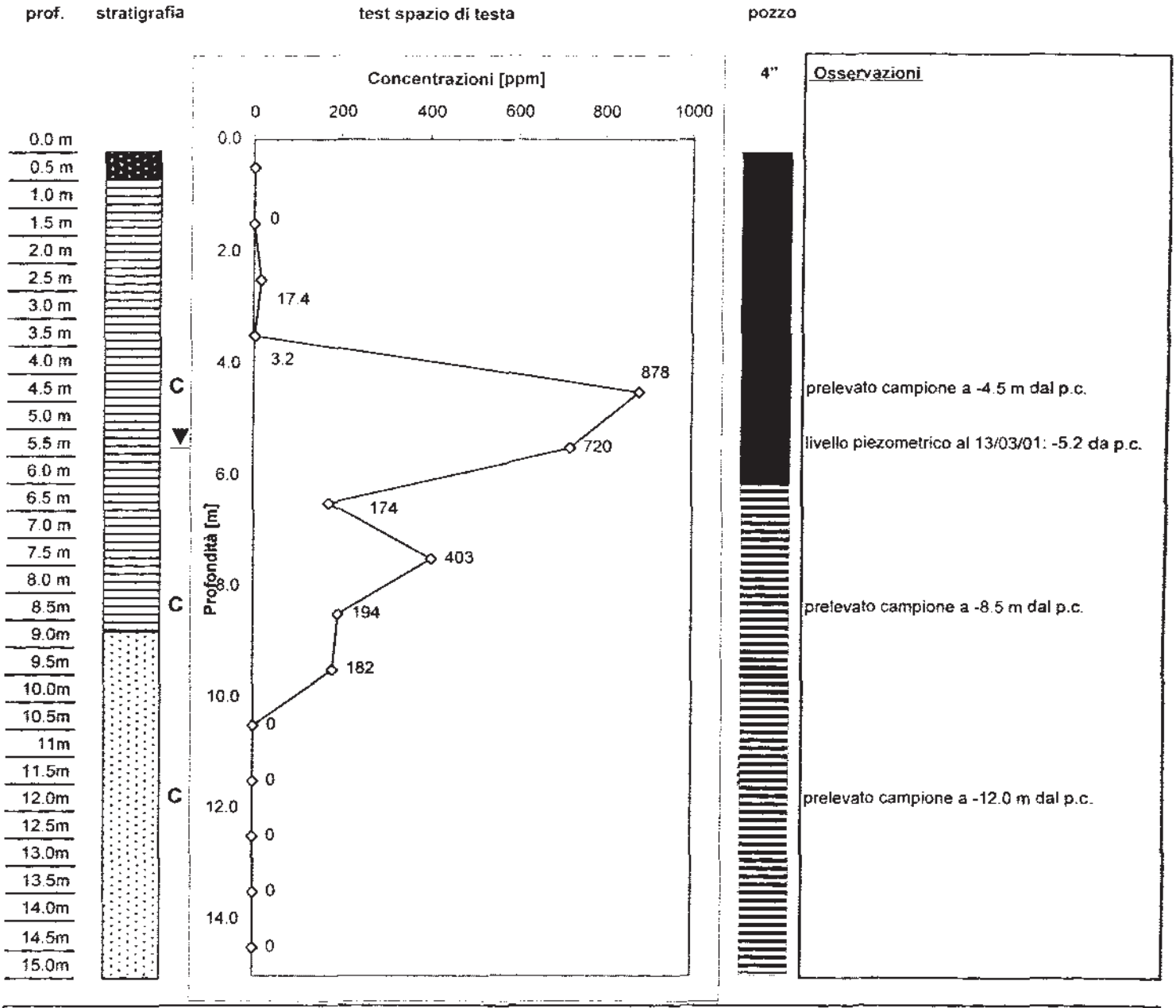
$\Delta s'$= tesa logaritmica $\Delta s'$ ottenuta graficamente dalla retta "best-fitting" (s'(1000)-s'(100))

Nel nostro caso ed in base al grafico:
Q= 1.2 10^{-3} m^3/s
$\Delta s'$= 0,52
T= 0,00036 m^2/s

K = 2,4E-05 m/s



6502

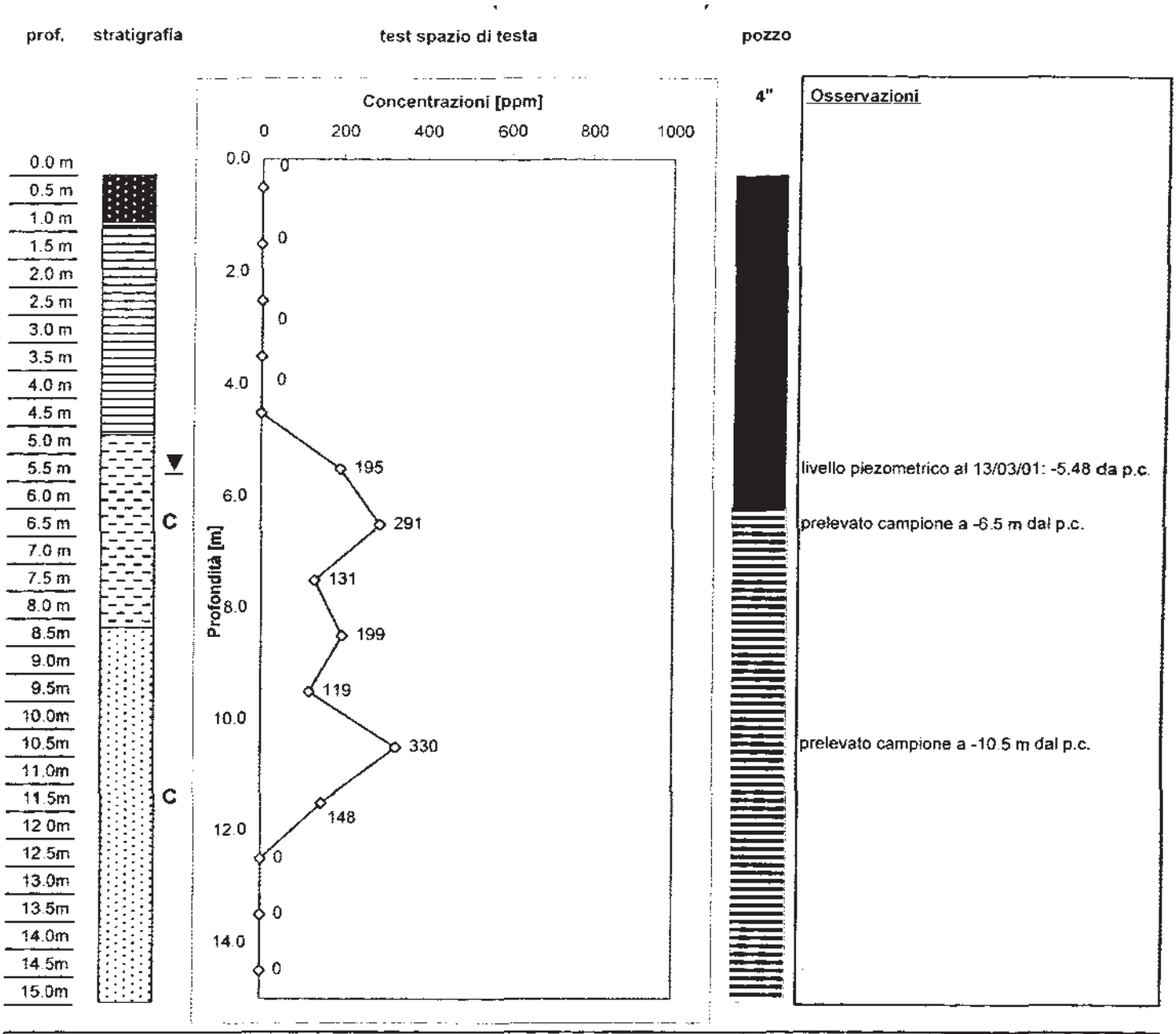


Stratigrafia:

- Strato di riporto
- Limo argilloso passante ad argilla debolmente limosa di color ocra
- Sabbia fine debolmente limosa da ocra a grigia

- Tratto cieco
- Tratto finestrato
- C — Campione prelevato per analisi di laboratorio

6503



Stratigrafia:

- Strato di riporto
- Limo argilloso passante ad argilla debolmente limosa di color ocra
- Sabbia fine debolmente limosa da ocra a grigia
- Argilla limosa di color grigio-verde
- Tratto cieco
- Tratto finestrato
- C — Campione prelevato per analisi di laboratorio

LEGENDA:

Prof. = profondità in metri

N = numero di colpi per 10 cm.

Rd = Resistenza dinamica [Kg/cmq]

Nspt = equivalente "standard penetration test"

Prof.	N	Rd	Nspt
0,1	4	16,0	3
0,2	4	16,0	3
0,3	11	44,1	8
0,4	13	52,1	10
0,5	13	52,1	10
0,6	18	72,2	14
0,7	17	68,2	13
0,8	15	60,1	11
0,9	17	68,2	13
1,0	23	92,2	17
1,1	36	144,3	27
1,2	57	228,5	43
1,3	60	240,5	45
1,4	-	-	-
1,5	-	-	-

LEGENDA:

7387

Prof. = profondità in metri

N = numero di colpi per 10 cm.

Rd = Resistenza dinamica [Kg/cmq]

Nspt = equivalente "standard penetration test"

Prof.	N	Rd	Nspt
0,1	5	20,0	4
0,2	4	16,0	3
0,3	4	16,0	3
0,4	7	28,1	5
0,5	15	60,1	11
0,6	21	84,2	16
0,7	29	116,3	22
0,8	18	72,2	14
0,9	19	76,2	14
1,0	25	100,2	19
1,1	38	152,3	29
1,2	45	180,4	34
1,3	60	240,5	45
1,4	44	176,4	33
1,5	46	184,4	35
1,6	68	272,6	52
1,7	75	300,7	57
1,8	-	-	-
1,9	-	-	-
2,0	-	-	-

LEGENDA:

7388

Prof. = profondità in metri

N = numero di colpi per 10 cm.

Rd = Resistenza dinamica [Kg/cmq]

Nspt = equivalente "standard penetration test"

Prof.	N	Rd	Nspt
0,1	4	16,0	3
0,2	4	16,0	3
0,3	4	16,0	3
0,4	6	24,1	5
0,5	8	32,1	6
0,6	12	48,1	9
0,7	22	88,2	17
0,8	35	140,3	27
0,9	19	76,2	14
1,0	16	64,1	12
1,1	16	64,1	12
1,2	32	128,3	24
1,3	48	192,4	36
1,4	60	240,5	45
1,5	51	204,5	39
1,6	55	220,5	42
1,7	69	276,6	52
1,8	78	312,7	59
1,9	-	-	-
2,0	-	-	-

PENETROMETRO DINAMICO DA 30 Kg

7698

Legenda

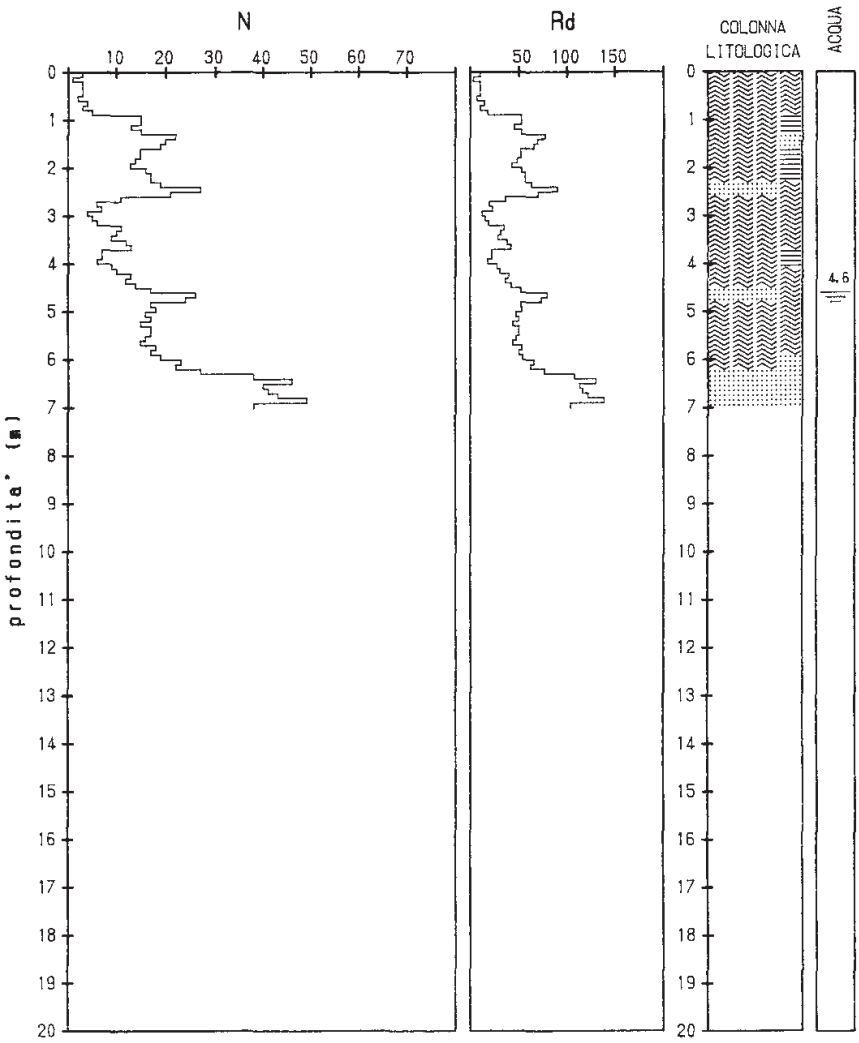
argilla
argilla limosa
limo argilloso
limo
limo sabbioso
sabbia limosa
sabbia
sabbia e ghiaia
ghiaia
riporto
rifiuto

12.8 livello acqua

N : numero di colpi/10 cm
Rd : resistenza di rottura dinamica (Kg/cmq)
Ø : angolo di attrito (°)
Dr : densita' relativa (%)
Cu : coesione utile (Kg/cmq)
mv : coefficiente di compressibilita' volumetrica (cmq/t)

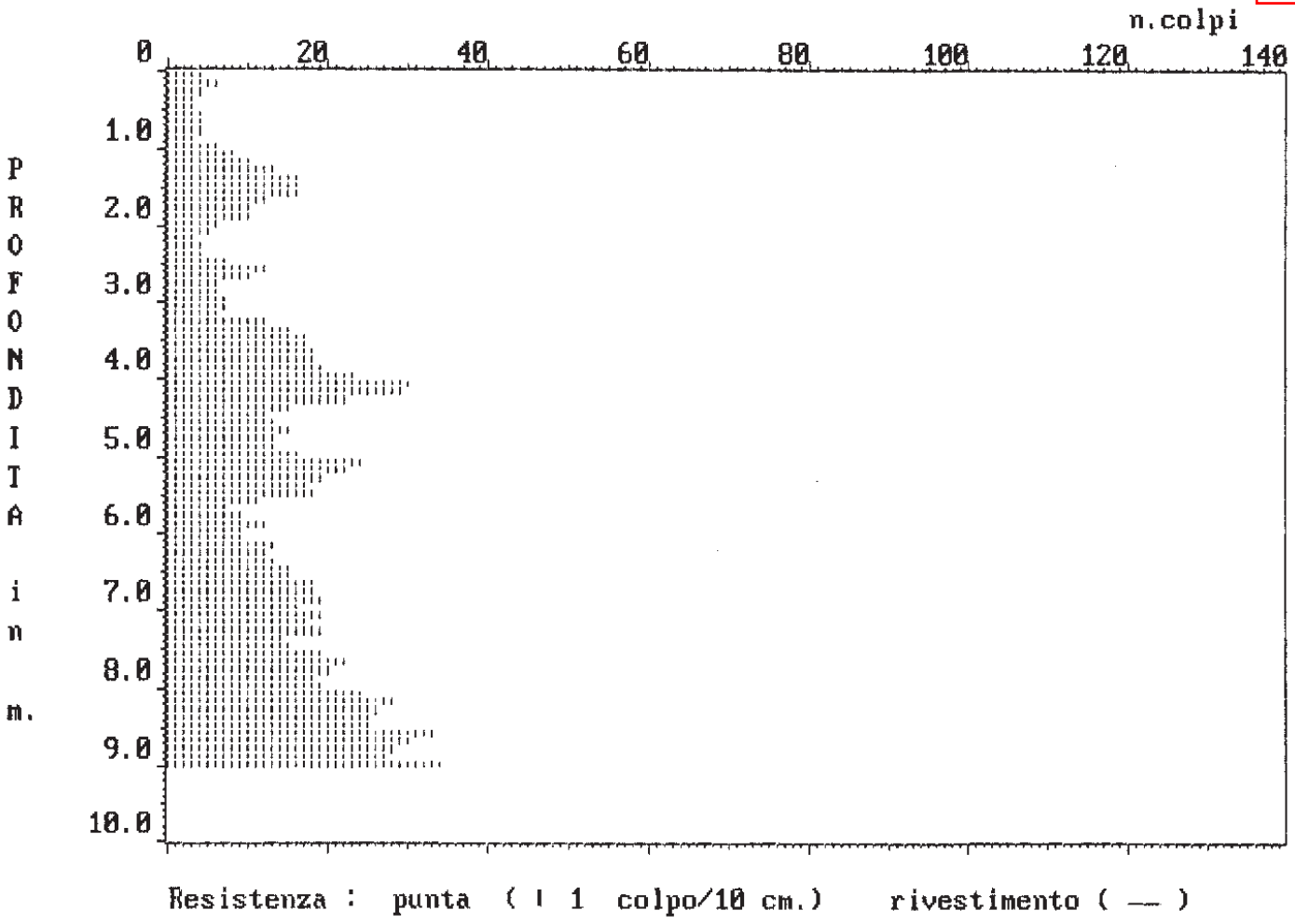
Prof	N	Rd	Ø	Dr	Cu	mv
0.1	3	11.0	.	.	0.2	12.0
0.2	1	3.7	.	.	0.1	36.0
0.3	3	11.0	.	.	0.2	12.0
0.4	3	11.0	.	.	0.2	12.0
0.5	3	11.0	.	.	0.2	12.0
0.6	2	7.3	.	.	0.1	18.0
0.7	4	14.7	.	.	0.3	9.0
0.8	3	11.0	.	.	0.2	12.0
0.9	5	18.3	.	.	0.3	7.2
1.0	15	52.4	.	.	1.0	2.4
1.1	15	52.4	.	.	1.0	2.4
1.2	13	45.4	.	.	0.9	2.8
1.3	15	52.4	.	.	1.0	2.4
1.4	22	76.9	33	99	.	1.6
1.5	20	69.9	32	99	.	1.8
1.6	19	66.4	32	99	.	1.9
1.7	15	52.4	.	.	1.0	2.4
1.8	15	52.4	.	.	1.0	2.4
1.9	14	48.9	.	.	0.9	2.6
2.0	13	43.4	.	.	0.9	2.8
2.1	16	53.4	.	.	1.1	2.3
2.2	17	56.8	.	.	1.1	2.1
2.3	17	56.8	.	.	1.1	2.1
2.4	19	63.5	32	92	.	1.9
2.5	27	90.2	35	99	.	1.3
2.6	21	70.1	33	94	.	1.7
2.7	11	36.7	.	.	0.7	3.3
2.8	6	20.0	.	.	0.4	6.0
2.9	7	23.4	.	.	0.5	5.1
3.0	4	12.8	.	.	0.3	9.0
3.1	5	16.0	.	.	0.3	7.2
3.2	6	19.2	.	.	0.4	6.0
3.3	11	35.2	.	.	0.7	3.3
3.4	10	32.0	.	.	0.7	3.6
3.5	9	28.8	.	.	0.6	4.0
3.6	12	38.4	.	.	0.8	3.0
3.7	13	41.6	.	.	0.9	2.8
3.8	7	22.4	.	.	0.5	5.1
3.9	7	22.4	.	.	0.5	5.1
4.0	6	18.4	.	.	0.4	6.0
4.1	9	27.6	.	.	0.6	4.0
4.2	10	30.7	.	.	0.7	3.6
4.3	13	39.9	.	.	0.9	2.8
4.4	12	36.8	.	.	0.8	3.0
4.5	14	42.9	.	.	0.9	2.6
4.6	17	52.1	31	78	.	2.1
4.7	26	79.7	35	90	.	1.4
4.8	24	73.6	34	87	.	1.5
4.9	17	52.1	.	.	1.1	2.1
5.0	18	53.0	.	.	1.2	2.0
5.1	16	45.4	.	.	1.1	2.3
5.2	17	46.4	.	.	1.1	2.1
5.3	15	39.5	.	.	1.0	2.4
5.4	17	43.3	.	.	1.1	2.1
5.5	17	41.9	.	.	1.1	2.1
5.6	16	38.1	.	.	1.1	2.3
5.7	15	34.7	.	.	1.0	2.4
5.8	18	40.3	.	.	1.2	2.0
5.9	17	37.0	.	.	1.1	2.1
6.0	19	40.2	32	78	.	1.9
6.1	23	47.3	34	83	.	1.6
6.2	22	44.0	33	82	.	1.6
6.3	27	52.7	35	88	.	1.3
6.4	38	72.2	39	98	.	0.9
6.5	46	85.3	41	99	.	0.8
6.6	40	72.4	39	99	.	0.9
6.7	41	72.4	40	99	.	0.9
6.8	43	74.2	40	99	.	0.8
6.9	49	82.7	42	99	.	0.7
7.0	38	62.7	39	97	.	0.9

7698


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA LITOLOGICA
ACQUA
4.6
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

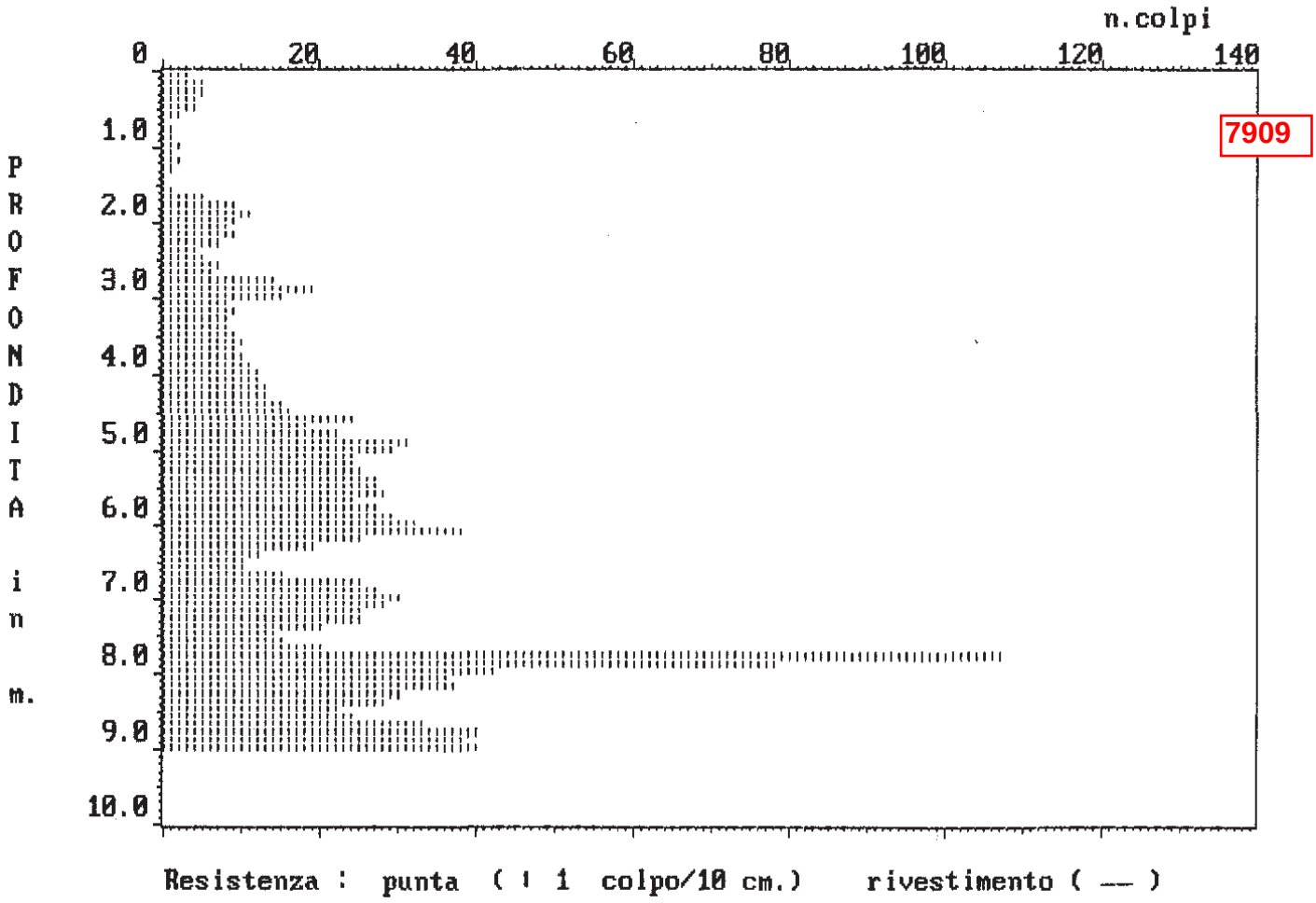
PROVA PENETROMETRICA [S.C.P.T.] N. 1

7908



Telef. (0571) 42.449 - 42.365
c.f. e p. I.V.A. 00449137 050 6

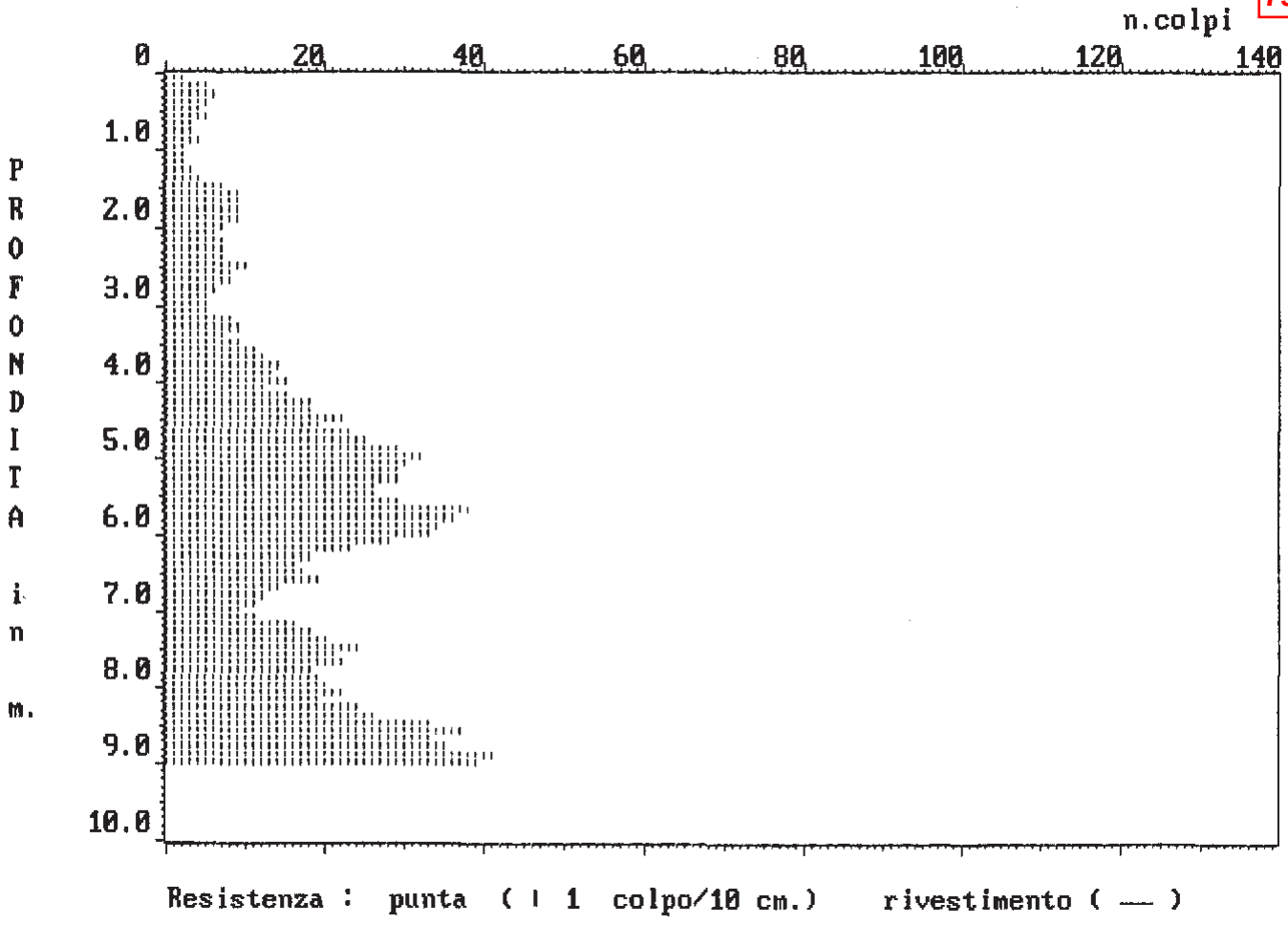
PROVA PENETROMETRICA [S.C.P.T.] N. 2



Resistenza : punta (¦ 1 colpo/10 cm.) rivestimento (—)

PROVA PENETROMETRICA [S.C.P.T.] N. 3

7910

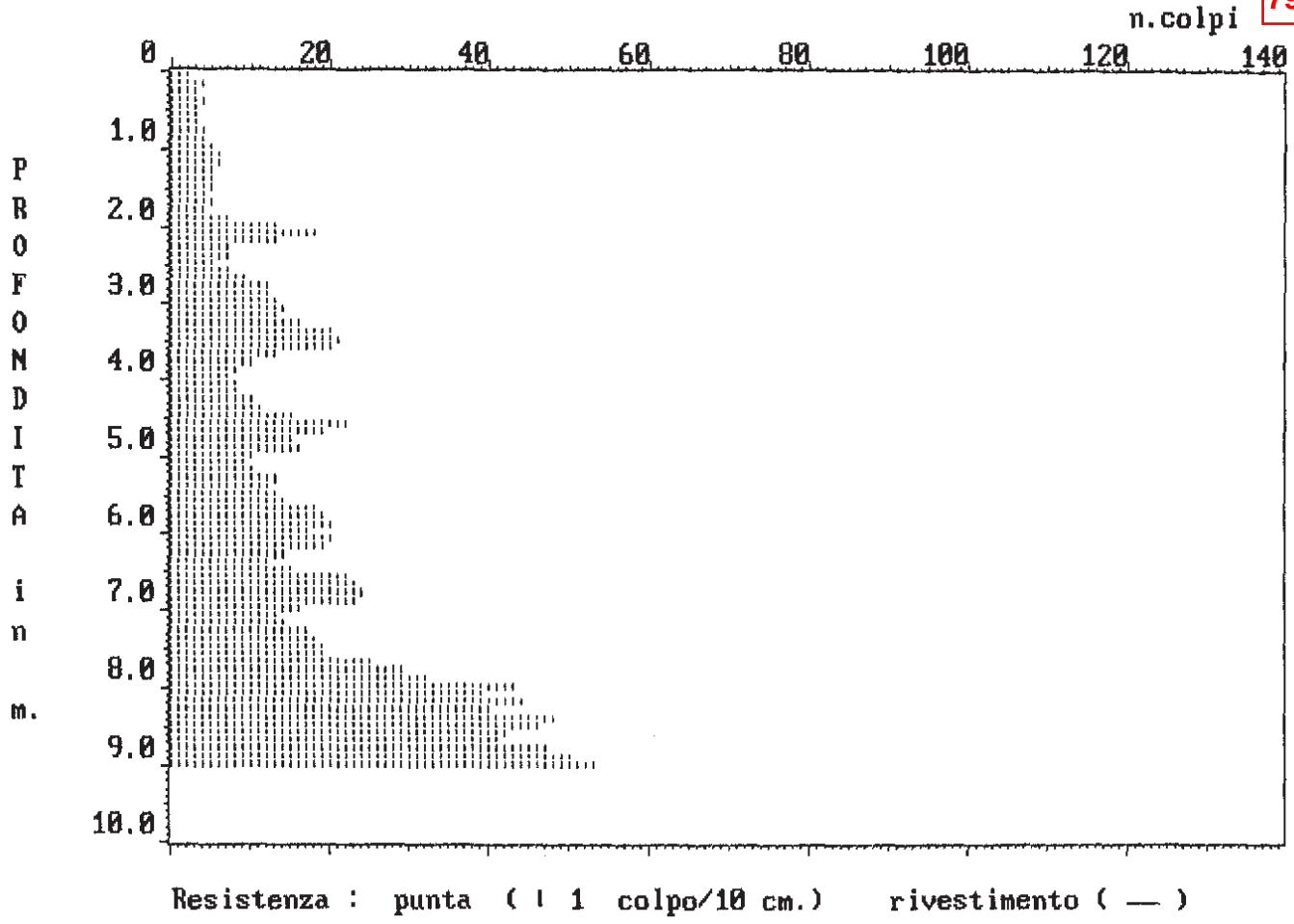


Resistenza : punta (| 1 colpo/10 cm.) rivestimento (—)

c.f. e p. I.V.A. 0035137 050 6

PROVA PENETROMETRICA [S.C.P.T.] N. 4

7911



Resistenza : punta (ı 1 colpo/10 cm.) rivestimento (—)

7919

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	70	86	1.07	65.42										
0.20	70	86	1.07	65.42										
0.40	78	85	0.47	165.96										
0.60	110	132	1.47	74.83										
0.80	23	42	1.27	18.11										
1.00	10	32	1.47	6.80										
1.20	17	35	1.20	14.17										
1.40	11	21	0.67	16.42										
1.60	7	12	0.33	21.21										
1.80	26	33	0.47	55.32										
2.00	39	46	0.47	82.98										
2.20	30	48	1.20	25.00										
2.40	22	48	1.73	12.72										
2.60	45	93	3.20	14.06										
2.80	33	60	1.80	18.33										
3.00	25	51	1.73	14.45										
3.20	26	44	1.20	21.67										
3.40	21	42	1.40	15.00										
3.60	17	33	1.07	15.89										
3.80	21	32	0.73	28.77										
4.00	25	41	1.07	23.36										
4.20	27	53	1.73	15.61										
4.40	105	124	1.27	82.68										
4.60	53	89	2.40	22.08										
4.80	53	84	2.07	25.60										
5.00	49	85	2.40	20.42										
5.20	109	120	0.73	149.32										
5.40	222	275	3.53	62.89										
5.60	200	253	3.53	56.66										
5.80	110	125	1.00	110.00										
6.00	89	103	0.93	95.70										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

7920

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	10	13	0.20	50.00										
0.20	10	13	0.20	50.00										
0.40	11	15	0.27	40.74										
0.60	15	25	0.67	22.39										
0.80	16	26	0.67	23.88										
1.00	17	29	0.80	21.25										
1.20	80	92	0.80	100.00										
1.40	41	86	3.00	13.67										
1.60	22	43	1.40	15.71										
1.80	25	52	1.80	13.89										
2.00	29	54	1.67	17.37										
2.20	31	52	1.40	22.14										
2.40	32	51	1.27	25.20										
2.60	27	45	1.20	22.50										
2.80	25	38	0.87	28.74										
3.00	25	41	1.07	23.36										
3.20	29	44	1.00	29.00										
3.40	27	42	1.00	27.00										
3.60	23	35	0.80	28.75										
3.80	21	37	1.07	19.63										
4.00	33	48	1.00	33.00										
4.20	38	65	1.80	21.11										
4.40	71	97	1.73	41.04										
4.60	55	87	2.13	25.82										
4.80	88	101	0.87	101.15										
5.00	290	310	1.33	218.05										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

7921

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	13	18	0.33	39.39										
0.20	13	18	0.33	39.39										
0.40	18	30	0.80	22.50										
0.60	18	37	1.27	14.17										
0.80	18	46	1.87	9.63										
1.00	46	59	0.87	52.87										
1.20	31	51	1.33	23.31										
1.40	36	64	1.87	19.25										
1.60	108	125	1.13	95.58										
1.80	27	57	2.00	13.50										
2.00	33	50	1.13	29.20										
2.20	27	48	1.40	19.29										
2.40	35	48	0.87	40.23										
2.60	16	31	1.00	16.00										
2.80	24	45	1.40	17.14										
3.00	18	35	1.13	15.93										
3.20	22	33	0.73	30.14										
3.40	19	29	0.67	28.36										
3.60	14	26	0.80	17.50										
3.80	13	23	0.67	19.40										
4.00	19	32	0.87	21.84										
4.20	31	47	1.07	28.97										
4.40	32	47	1.00	32.00										
4.60	21	42	1.40	15.00										
4.80	23	41	1.20	19.17										
5.00	19	39	1.33	14.29										
5.20	29	40	0.73	39.73										
5.40	22	41	1.27	17.32										
5.60	19	36	1.13	16.81										
5.80	30	47	1.13	26.55										
6.00	34	52	1.20	28.33										
6.20	29	48	1.27	22.83										
6.40	26	43	1.13	23.01										
6.60	38	61	1.53	24.84										
6.80	56	78	1.47	38.10										
7.00	85	114	1.93	44.04										
7.20	55	89	2.27	24.23										
7.40	98	118	1.33	73.68										
7.60	105	126	1.40	75.00										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

7922

CERTIFICATO N.RO : 67-AA CANTIERE :RISTRUTTURAZIONE ED AMPLIAMENTO DI FABBRICATI ESISTENTI 18

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	22	26	0.27	81.48										
0.20	22	26	0.27	81.48										
0.40	38	43	0.33	115.15										
0.60	20	31	0.73	27.40										
0.80	23	36	0.87	26.44										
1.00	24	42	1.20	20.00										
1.20	18	36	1.20	15.00										
1.40	17	32	1.00	17.00										
1.60	31	42	0.73	42.47										
1.80	33	59	1.73	19.08										
2.00	30	56	1.73	17.34										
2.20	16	26	0.67	23.88										
2.40	16	26	0.67	23.88										
2.60	23	37	0.93	24.73										
2.80	37	54	1.13	32.74										
3.00	32	56	1.60	20.00										
3.20	23	44	1.40	16.43										
3.40	18	35	1.13	15.93										
3.60	29	38	0.60	48.33										
3.80	29	39	0.67	43.28										
4.00	33	45	0.80	41.25										
4.20	36	49	0.87	41.38										
4.40	46	57	0.73	63.01										
4.60	46	56	0.67	68.66										
4.80	36	51	1.00	36.00										
5.00	37	57	1.33	27.82										
5.20	36	51	1.00	36.00										
5.40	40	52	0.80	50.00										
5.60	49	64	1.00	49.00										
5.80	22	46	1.60	13.75										
6.00	11	25	0.93	11.83										
6.20	17	28	0.73	23.29										
6.40	22	33	0.73	30.14										
6.60	29	48	1.27	22.83										
6.80	25	47	1.47	17.01										
7.00	29	50	1.40	20.71										
7.20	31	52	1.40	22.14										
7.40	36	62	1.73	20.81										
7.60	27	58	2.07	13.04										
7.80	40	65	1.67	23.95										
8.00	89	110	1.40	63.57										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T:TORBE A:ARGILLA LA:LIMI ARGILLOSI LS:LIMI SABBIOSI SL:SABBIE LIMOSE
S:SABBIE SG:SABBIE E GHIAIA AG:TERRENO AGRICOLO

7932

PENETROMETRO DINAMICO tipo MEDIO - (DPM) M

M = 30.0 kg - H = 0.20 m - A = 10.00 cm² - D = 35.7 mm

Cantiere : Via A. Volta

Località : S. Maria a Monte

note : -

uso rivestimento/fanghi iniezione : SI

N = N(10) °δ = 10 cm

quota inizio : p.c.

prof. falda = 1.30 m da quota inizio

data : 28 Giugno 1995

prof.(m)	N (colpi)	Rpd(kg/cm²)	asta
0.00- 0.10	7.0	26.8	1
0.10- 0.20	12.0	46.0	1
0.20- 0.30	6.0	23.0	1
0.30- 0.40	4.0	15.3	1
0.40- 0.50	2.0	7.7	1
0.50- 0.60	3.0	11.5	1
0.60- 0.70	3.0	11.5	1
0.70- 0.80	2.0	7.7	1
0.80- 0.90	4.0	14.4	2
0.90- 1.00	3.0	10.8	2
1.00- 1.10	2.0	7.2	2
1.10- 1.20	2.0	7.2	2
1.20- 1.30	1.0	3.6	2
1.30- 1.40	2.0	7.2	2
1.40- 1.50	3.0	10.8	2
1.50- 1.60	4.0	14.4	2
1.60- 1.70	4.0	14.4	2
1.70- 1.80	4.0	14.4	2
1.80- 1.90	3.0	10.2	3
1.90- 2.00	3.0	10.2	3
2.00- 2.10	3.0	10.2	3
2.10- 2.20	4.0	13.6	3
2.20- 2.30	3.0	10.2	3
2.30- 2.40	4.0	13.6	3
2.40- 2.50	4.0	13.6	3
2.50- 2.60	4.0	13.6	3
2.60- 2.70	4.0	13.6	3
2.70- 2.80	2.0	6.8	3
2.80- 2.90	3.0	9.7	4
2.90- 3.00	3.0	9.7	4
3.00- 3.10	2.0	6.5	4
3.10- 3.20	3.0	9.7	4
3.20- 3.30	3.0	9.7	4
3.30- 3.40	3.0	9.7	4
3.40- 3.50	4.0	12.9	4
3.50- 3.60	4.0	12.9	4
3.60- 3.70	5.0	16.2	4
3.70- 3.80	5.0	16.2	4
3.80- 3.90	6.0	18.4	5
3.90- 4.00	6.0	18.4	5
4.00- 4.10	7.0	21.5	5
4.10- 4.20	7.0	21.5	5
4.20- 4.30	8.0	24.6	5
4.30- 4.40	9.0	27.6	5
4.40- 4.50	7.0	21.5	5
4.50- 4.60	8.0	24.6	5
4.60- 4.70	8.0	24.6	5
4.70- 4.80	8.0	24.6	5
4.80- 4.90	8.0	23.4	6
4.90- 5.00	9.0	26.3	6
5.00- 5.10	9.0	26.3	6
5.10- 5.20	9.0	26.3	6
5.20- 5.30	9.0	26.3	6
5.30- 5.40	10.0	29.2	6
5.40- 5.50	12.0	35.1	6
5.50- 5.60	14.0	40.9	6
5.60- 5.70	13.0	38.0	6
5.70- 5.80	14.0	40.9	6
5.80- 5.90	15.0	41.9	7
5.90- 6.00	17.0	47.4	7
6.00- 6.10	16.0	44.6	7
6.10- 6.20	16.0	44.6	7
6.20- 6.30	17.0	47.4	7
6.30- 6.40	18.0	50.2	7
6.40- 6.50	17.0	47.4	7
6.50- 6.60	18.0	50.2	7
6.60- 6.70	19.0	53.0	7
6.70- 6.80	22.0	61.4	7
6.80- 6.90	23.0	61.4	8
6.90- 7.00	24.0	64.1	8
7.00- 7.10	26.0	69.4	8
7.10- 7.20	26.0	69.4	8

7933

PENETROMETRO DINAMICO tipo MEDIO - (DPM)

M = 30.0 kg - H = 0.20 m - A = 10.00 cm² - D = 35.7 mm

Cantiere : Via A. Volta

Località : S. Maria a Monte

note : -

uso rivestimento/fanghi iniezione : SI

N = N(10) °δ = 10 cm

quota inizio : p.c.

prof. falda = 1.50 m da quota inizio

data : 28 Giugno 1995

prof.(m)	N (colpi)	Rpd(kg/cm²)	asta
0.00- 0.10	10.0	38.4	1
0.10- 0.20	10.0	38.4	1
0.20- 0.30	8.0	30.7	1
0.30- 0.40	10.0	38.4	1
0.40- 0.50	8.0	30.7	1
0.50- 0.60	5.0	19.2	1
0.60- 0.70	2.0	7.7	1
0.70- 0.80	3.0	11.5	1
0.80- 0.90	1.0	3.6	2
0.90- 1.00	1.0	3.6	2
1.00- 1.10	2.0	7.2	2
1.10- 1.20	2.0	7.2	2
1.20- 1.30	4.0	14.4	2
1.30- 1.40	3.0	10.8	2
1.40- 1.50	3.0	10.8	2
1.50- 1.60	3.0	10.8	2
1.60- 1.70	3.0	10.8	2
1.70- 1.80	3.0	10.8	2
1.80- 1.90	4.0	13.6	3
1.90- 2.00	4.0	13.6	3
2.00- 2.10	3.0	10.2	3
2.10- 2.20	4.0	13.6	3
2.20- 2.30	3.0	10.2	3
2.30- 2.40	5.0	17.0	3
2.40- 2.50	4.0	13.6	3
2.50- 2.60	4.0	13.6	3
2.60- 2.70	3.0	10.2	3
2.70- 2.80	3.0	10.2	3
2.80- 2.90	2.0	6.5	4
2.90- 3.00	2.0	6.5	4
3.00- 3.10	2.0	6.5	4
3.10- 3.20	2.0	6.5	4
3.20- 3.30	2.0	6.5	4
3.30- 3.40	3.0	9.7	4
3.40- 3.50	3.0	9.7	4
3.50- 3.60	4.0	12.9	4
3.60- 3.70	4.0	12.9	4
3.70- 3.80	5.0	16.2	4
3.80- 3.90	4.0	12.3	5
3.90- 4.00	4.0	12.3	5
4.00- 4.10	3.0	9.2	5
4.10- 4.20	4.0	12.3	5
4.20- 4.30	3.0	9.2	5
4.30- 4.40	5.0	15.3	5
4.40- 4.50	4.0	12.3	5
4.50- 4.60	5.0	15.3	5
4.60- 4.70	5.0	15.3	5
4.70- 4.80	6.0	18.4	5
4.80- 4.90	8.0	23.4	6
4.90- 5.00	8.0	23.4	6
5.00- 5.10	8.0	23.4	6
5.10- 5.20	7.0	20.5	6
5.20- 5.30	5.0	14.6	6
5.30- 5.40	5.0	14.6	6
5.40- 5.50	5.0	14.6	6
5.50- 5.60	6.0	17.5	6
5.60- 5.70	6.0	17.5	6
5.70- 5.80	6.0	17.5	6
5.80- 5.90	6.0	16.7	7
5.90- 6.00	7.0	19.5	7
6.00- 6.10	7.0	19.5	7
6.10- 6.20	7.0	19.5	7
6.20- 6.30	8.0	22.3	7
6.30- 6.40	8.0	22.3	7
6.40- 6.50	8.0	22.3	7
6.50- 6.60	10.0	27.9	7
6.60- 6.70	11.0	30.7	7
6.70- 6.80	11.0	30.7	7
6.80- 6.90	13.0	34.7	8
6.90- 7.00	16.0	42.7	8
7.00- 7.10	16.0	42.7	8
7.10- 7.20	17.0	45.4	8
7.20- 7.30	17.0	45.4	8
7.30- 7.40	17.0	45.4	8
7.40- 7.50	17.0	45.4	8
7.50- 7.60	19.0	50.7	8
7.60- 7.70	19.0	50.7	8
7.70- 7.80	20.0	53.4	8

7935

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	14	36	1.47	9.52										
0.20	14	36	1.47	9.52										
0.40	30	46	1.07	28.04										
0.60	24	45	1.40	17.14										
0.80	31	47	1.07	28.97										
1.00	17	42	1.67	10.18										
1.20	11	29	1.20	9.17										
1.40	11	22	0.73	15.07										
1.60	16	27	0.73	21.92										
1.80	23	36	0.87	26.44										
2.00	26	49	1.53	16.99										
2.20	25	45	1.33	18.80										
2.40	26	42	1.07	24.30										
2.60	21	37	1.07	19.63										
2.80	15	31	1.07	14.02										
3.00	14	26	0.80	17.50										
3.20	13	23	0.67	19.40										
3.40	12	20	0.53	22.64										
3.60	10	18	0.53	18.87										
3.80	14	20	0.40	35.00										
4.00	12	18	0.40	30.00										
4.20	19	23	0.27	70.37										
4.40	16	24	0.53	30.19										
4.60	16	23	0.47	34.04										
4.80	11	20	0.60	18.33										
5.00	10	17	0.47	21.28										
5.20	9	16	0.47	19.15										
5.40	11	19	0.53	20.75										
5.60	13	22	0.60	21.67										
5.80	9	16	0.47	19.15										
6.00	6	10	0.27	22.22										
6.20	9	13	0.27	33.33										
6.40	11	18	0.47	23.40										
6.60	10	19	0.60	16.67										
6.80	10	17	0.47	21.28										
7.00	9	15	0.40	22.50										
7.20	7	12	0.33	21.21										
7.40	9	14	0.33	27.27										
7.60	9	13	0.27	33.33										
7.80	7	13	0.40	17.50										
8.00	8	11	0.20	40.00										
8.20	8	12	0.27	29.63										
8.40	9	15	0.40	22.50										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	14	28	0.93	15.05										
0.20	14	28	0.93	15.05										
0.40	36	57	1.40	25.71										
0.60	59	78	1.27	46.46										
0.80	74	108	2.27	32.60										
1.00	72	112	2.67	26.97										
1.20	59	88	1.93	30.57										
1.40	26	53	1.80	14.44										
1.60	18	45	1.80	10.00										
1.80	24	53	1.93	12.44										
2.00	22	53	2.07	10.63										
2.20	23	49	1.73	13.29										
2.40	23	45	1.47	15.65										
2.60	17	37	1.33	12.78										
2.80	12	30	1.20	10.00										
3.00	13	24	0.73	17.81										
3.20	12	20	0.53	22.64										
3.40	10	15	0.33	30.30										
3.60	10	16	0.40	25.00										
3.80	11	16	0.33	33.33										
4.00	13	18	0.33	39.39										
4.20	16	21	0.33	48.48										
4.40	9	16	0.47	19.15										
4.60	10	17	0.47	21.28										
4.80	7	14	0.47	14.89										
5.00	8	16	0.53	15.09										
5.20	9	14	0.33	27.27										
5.40	6	12	0.40	15.00										
5.60	6	8	0.13	46.15										
5.80	5	8	0.20	25.00										
6.00	8	11	0.20	40.00										
6.20	11	16	0.33	33.33										
6.40	10	19	0.60	16.67										
6.60	9	17	0.53	16.98										
6.80	11	17	0.40	27.50										
7.00	10	19	0.60	16.67										
7.20	7	15	0.53	13.21										
7.40	6	10	0.27	22.22										
7.60	6	9	0.20	30.00										
7.80	8	10	0.13	61.54										
8.00	8	11	0.20	40.00										
8.20	8	12	0.27	29.63										
8.40	8	12	0.27	29.63										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM.
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq
RL = RESISTENZA LATERALE TOTALE dN/cmq
FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
X = RAPPORTO QC/FS %

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	23	30	0.47	48.94										
0.20	23	30	0.47	48.94										
0.40	32	50	1.20	26.67										
0.60	29	43	0.93	31.18										
0.80	14	32	1.20	11.67										
1.00	13	27	0.93	13.98										
1.20	13	22	0.60	21.67										
1.40	8	21	0.87	9.20										
1.60	10	16	0.40	25.00										
1.80	17	27	0.67	25.37										
2.00	23	35	0.80	28.75										
2.20	24	47	1.53	15.69										
2.40	24	46	1.47	16.33										
2.60	22	42	1.33	16.54										
2.80	14	30	1.07	13.08										
3.00	11	20	0.60	18.33										
3.20	10	16	0.40	25.00										
3.40	8	14	0.40	20.00										
3.60	8	14	0.40	20.00										
3.80	8	12	0.27	29.63										
4.00	9	14	0.33	27.27										
4.20	10	15	0.33	30.30										
4.40	10	17	0.47	21.28										
4.60	7	13	0.40	17.50										
4.80	8	13	0.33	24.24										
5.00	10	16	0.40	25.00										
5.20	10	17	0.47	21.28										
5.40	8	14	0.40	20.00										
5.60	6	12	0.40	15.00										
5.80	6	9	0.20	30.00										
6.00	8	12	0.27	29.63										
6.20	8	13	0.33	24.24										
6.40	7	14	0.47	14.89										
6.60	24	32	0.53	45.28										
6.80	17	21	0.27	62.96										
7.00	12	18	0.40	30.00										
7.20	7	11	0.27	25.93										
7.40	7	11	0.27	25.93										
7.60	9	13	0.27	33.33										
7.80	14	26	0.80	17.50										
8.00	12	16	0.27	44.44										
8.20	7	16	0.60	11.67										
8.40	10	13	0.20	50.00										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

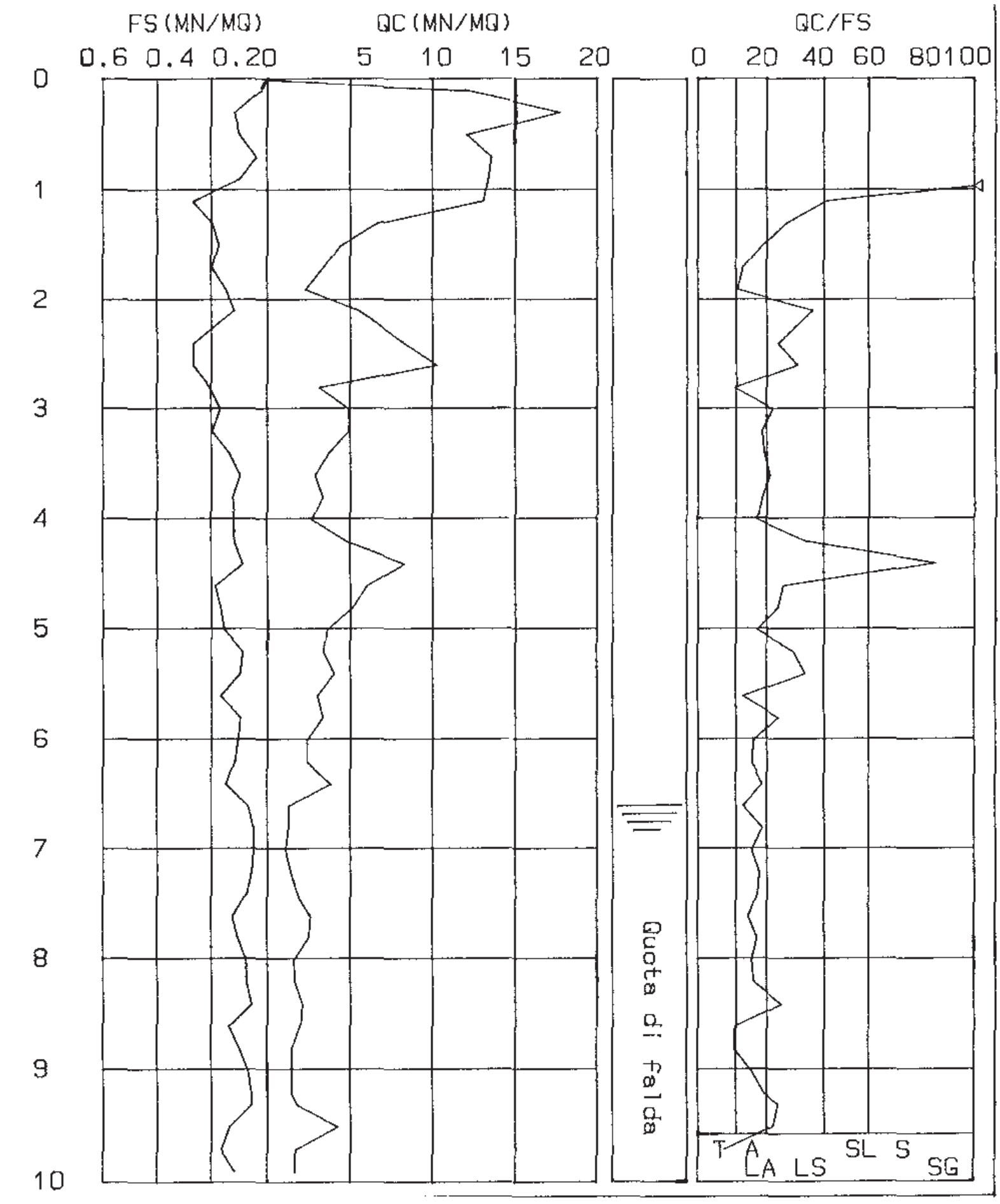
7944

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	37	39	0.13	284.62										
0.40	36	44	0.53	67.92										
0.60	49	59	0.67	73.13										
0.80	45	53	0.53	84.91										
1.00	36	41	0.33	109.09										
1.20	51	66	1.00	51.00										
1.40	47	83	2.40	19.58										
1.60	38	73	2.33	16.31										
1.80	44	70	1.73	25.43										
2.00	43	69	1.73	24.86										
2.20	70	97	1.80	38.89										
2.40	92	138	3.07	29.97										
2.60	55	96	2.73	20.15										
2.80	98	140	2.80	35.00										
3.00	66	98	2.13	30.99										
3.20	88	119	2.07	42.51										
3.40	91	120	1.93	47.15										
3.60	81	113	2.13	38.03										
3.80	99	135	2.40	41.25										
4.00	83	120	2.47	33.60										
4.20	95	128	2.20	43.18										
4.40	65	90	1.67	38.92										
4.60	53	101	3.20	16.56										
4.80	44	68	1.60	27.50										
5.00	33	58	1.67	19.76										
5.20	13	24	0.73	17.81										
5.40	12	19	0.47	25.53										
5.60	14	21	0.47	29.79										
5.80	17	29	0.80	21.25										
6.00	12	21	0.60	20.00										
6.20	16	24	0.53	30.19										
6.40	20	32	0.80	25.00										
6.60	15	26	0.73	20.55										
6.80	12	18	0.40	30.00										
7.00	11	15	0.27	40.74										
7.20	14	21	0.47	29.79										

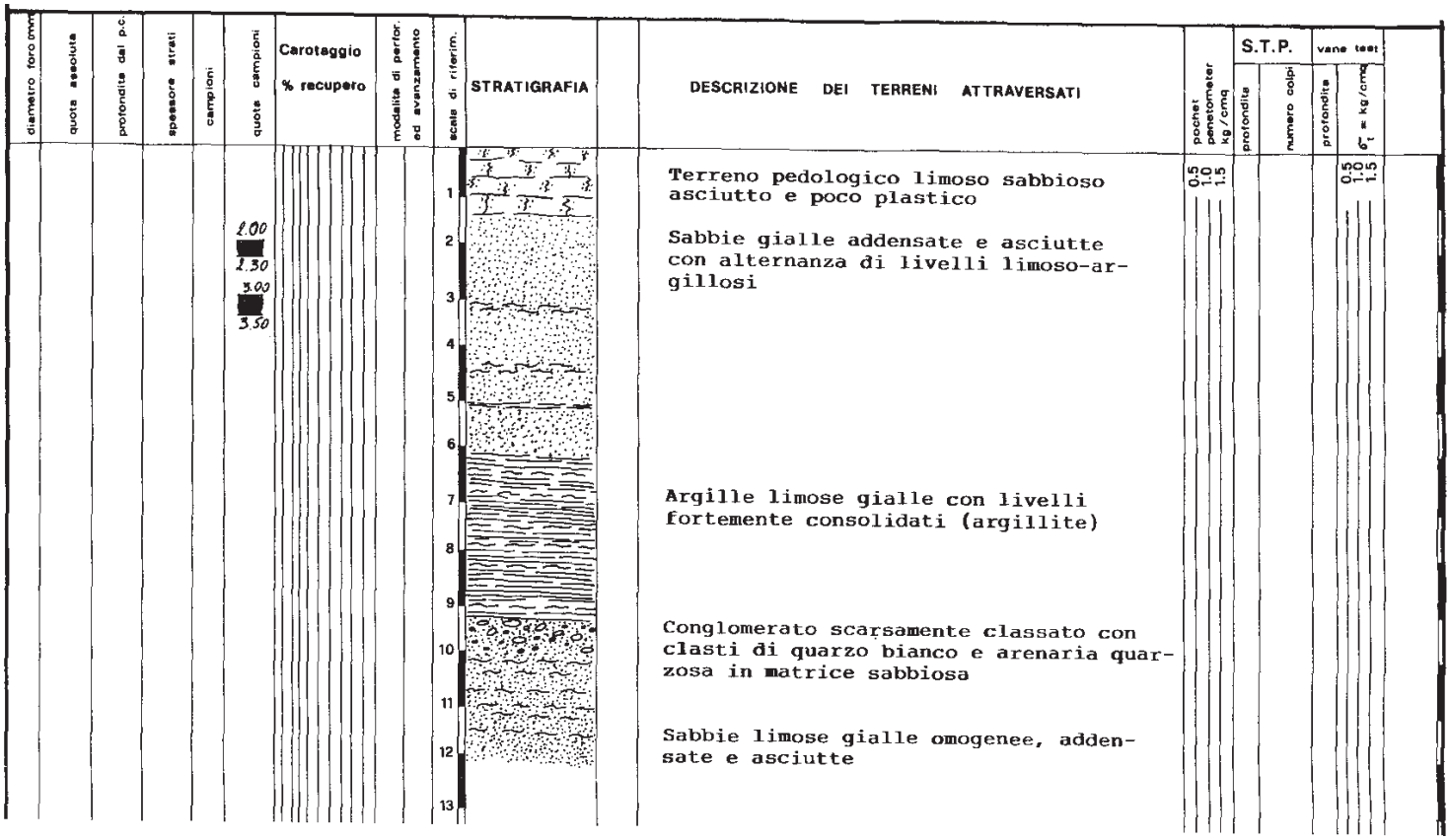
LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

7945


FS (MN/MQ)
0.6 0.4 0.20
QC (MN/MQ)
5 10 15 20
QC/FS
0 20 40 60 80100
0
1
2
3
4
5
6
7
8
9
10
Quota di falda
T
A
LA
LS
SL
S
SG

7946

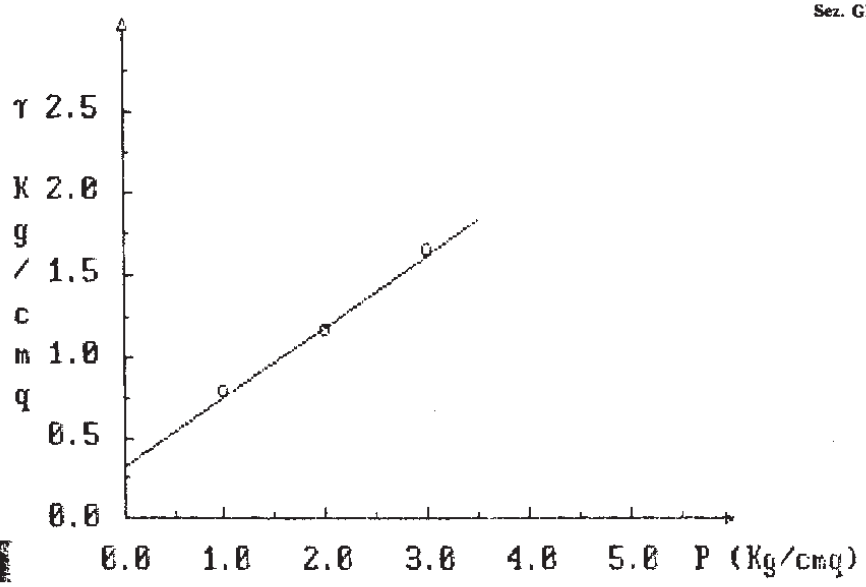


TAGLIO RAPIDO NON DRENATO

Sez. GEO1

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.790
2.000	1.160
3.000	1.650



[redacted]

Sondaggio n° 1

Committente :

Cantiere : S.M.MONTE Via di Bientina

Campione n° 1 da mt. 2.00 a mt. 2.30

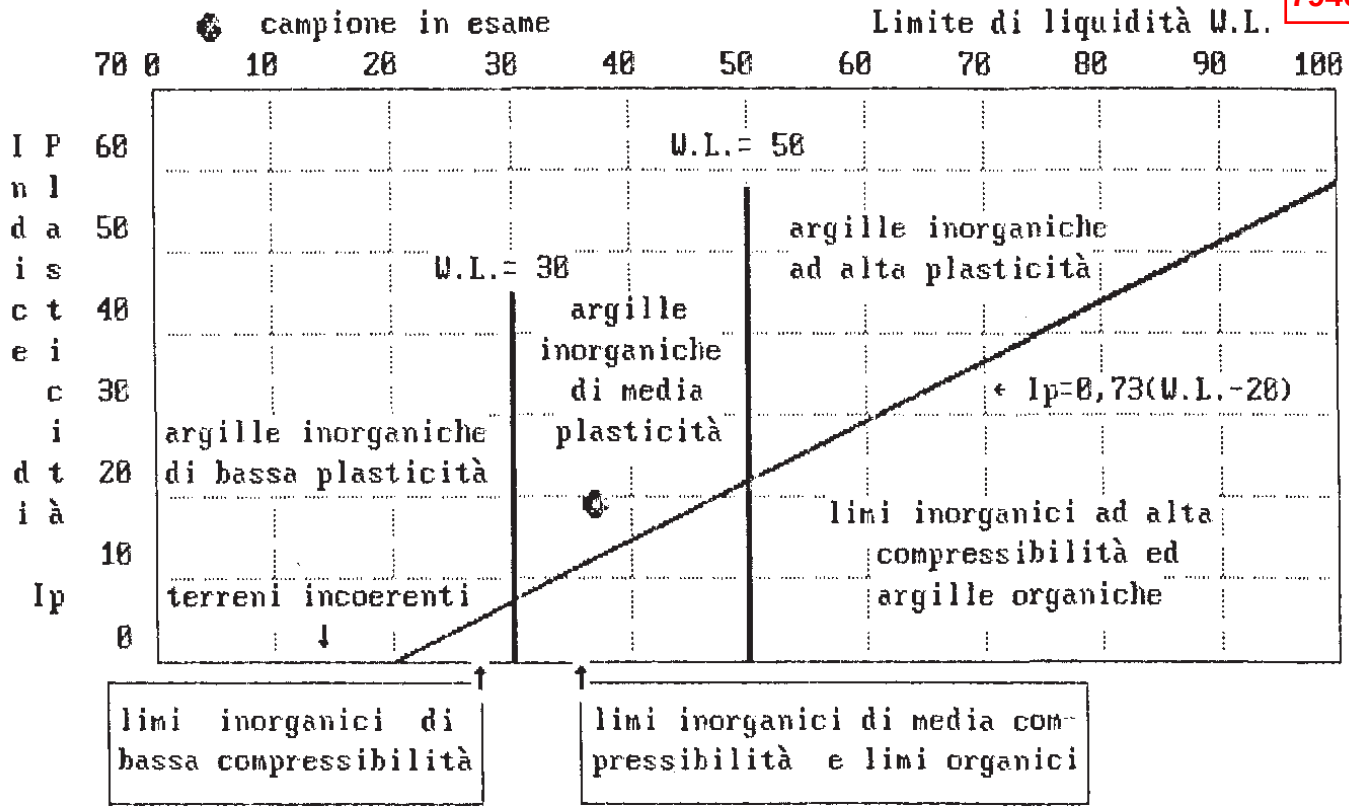
Umidità naturale = 17.41 %

Peso di volume = 1.980 kg/dmc

DIAGRAMMA DI PLASTICITA' di Casagrande

Sez. G

7946



LIMITI : liquidità (W.L.) = 37.0 ; plasticità (W.P.) = 18.0 ; ritiro (W.I.) = 0.0

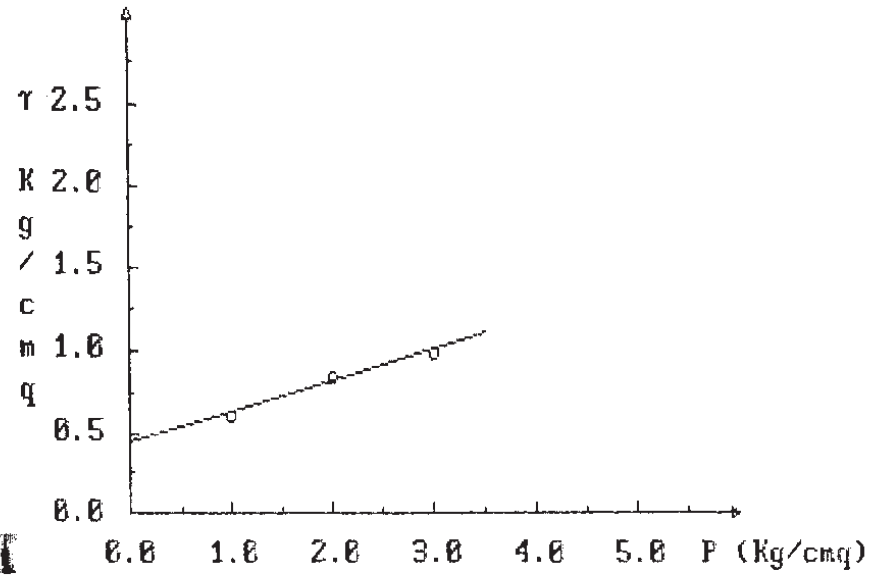
INDICI : plasticità (Ip) = 19.0 ; consistenza (Cr) = 1.03

TAGLIO RAPIDO NON DRENATO

Sez. GE

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.600
2.000	0.840
3.000	0.980



[redacted] [redacted] 0.44 Kg/cmq

Sondaggio n° 1

Committente :

Cantiere : S.M.MONTE Via di Bientina

Campione n° 2 da mt. 3.00 a mt. 3.50

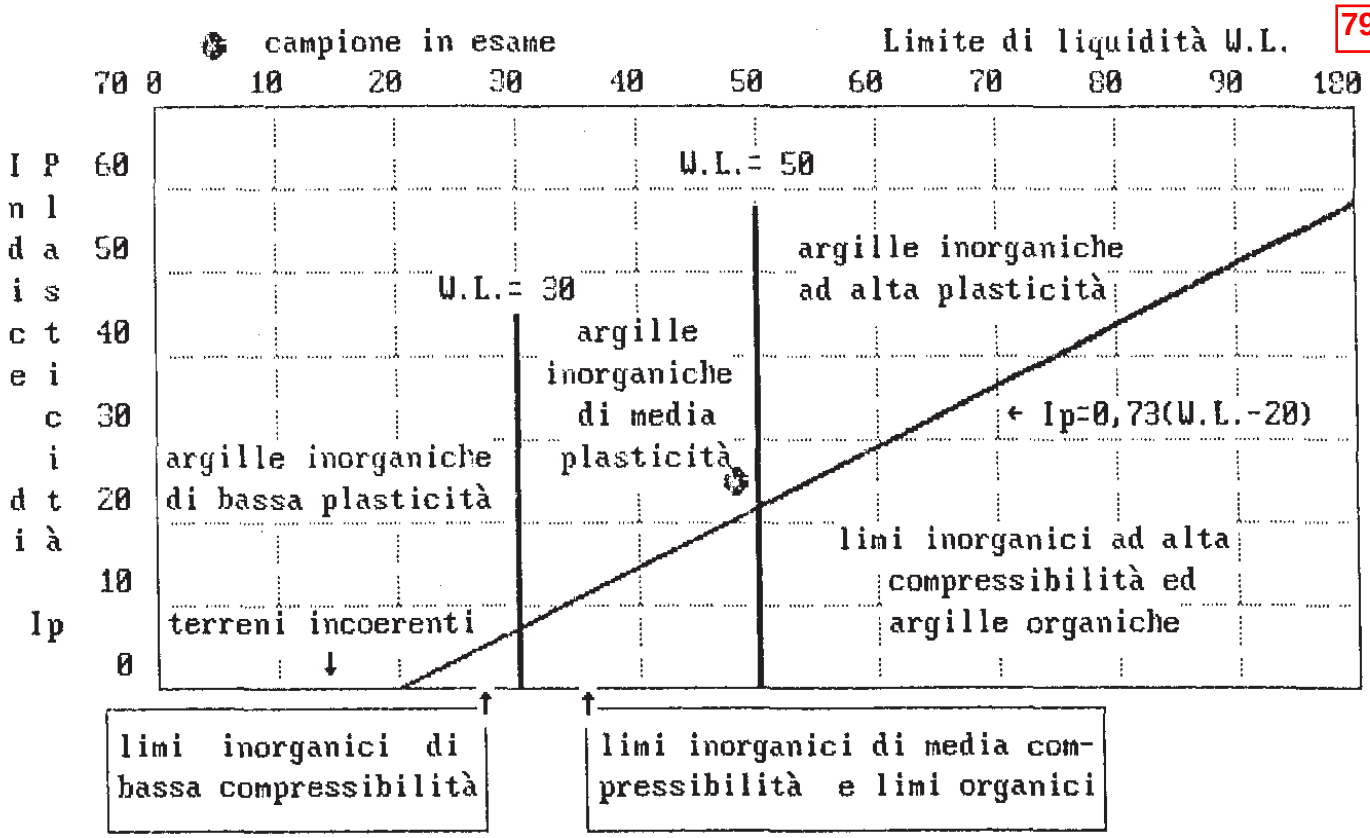
Umidità naturale = 25.54 %

Peso di volume = 1.970 kg/dmc

DIAGRAMMA DI PLASTICITA' di Casagrande

Sez. GEO

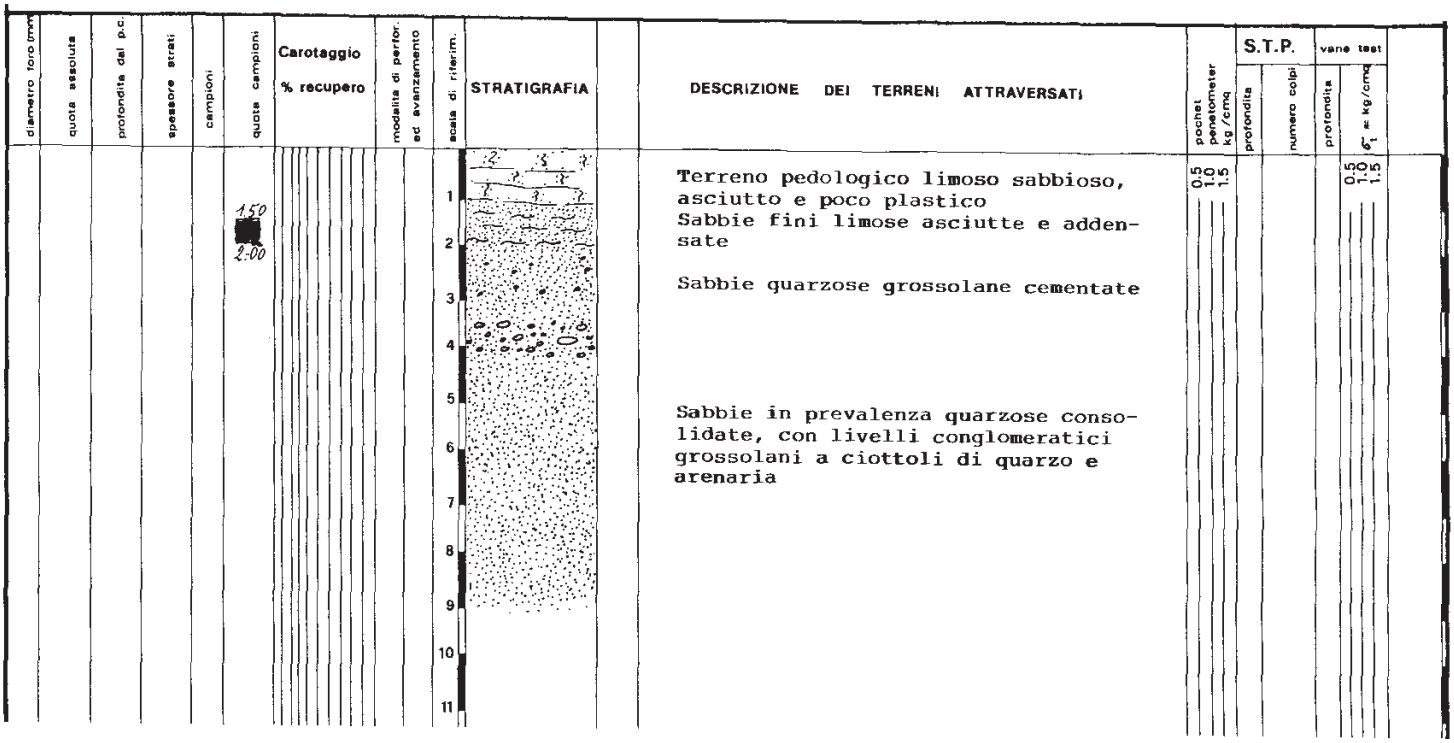
7946



LIMITI : liquidità (W.L.) = 48.0 ; plasticità (W.P.) = 23.0 ; ritiro (W.I.) = 0.0

INDICI : plasticità (Ip) = 25.0 ; consistenza (Cr) = 0.90

7947

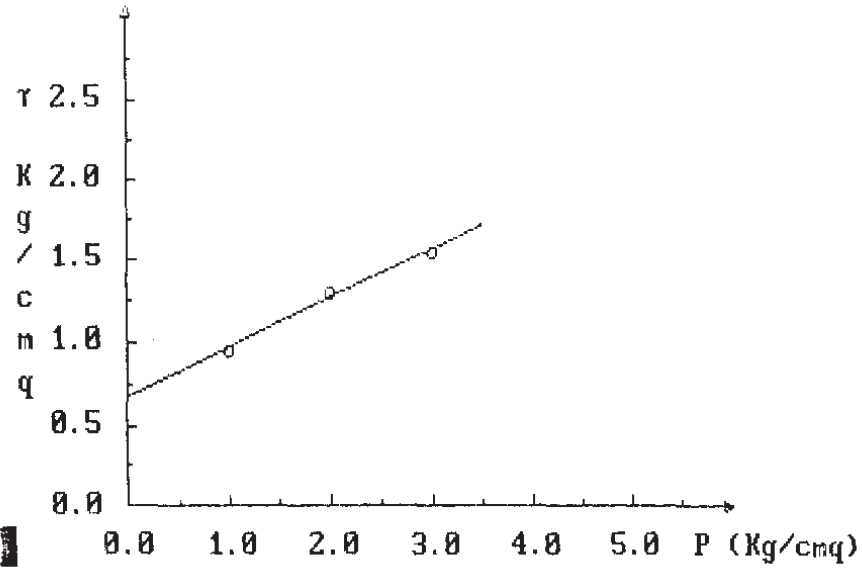


TAGLIO RAPIDO NON DRENATO

Sez. GE

Valori misurati

P Kg/cmq	τ Kg/cmq
1.000	0.950
2.000	1.290
3.000	1.540



φ = 16° c = 0.60 Kg/cmq

Sondaggio n° 2

Committente :

Cantiere : S.M.MONTE Via di Bientina

Campione n° 1 da mt. 1.50 a mt. 2.00

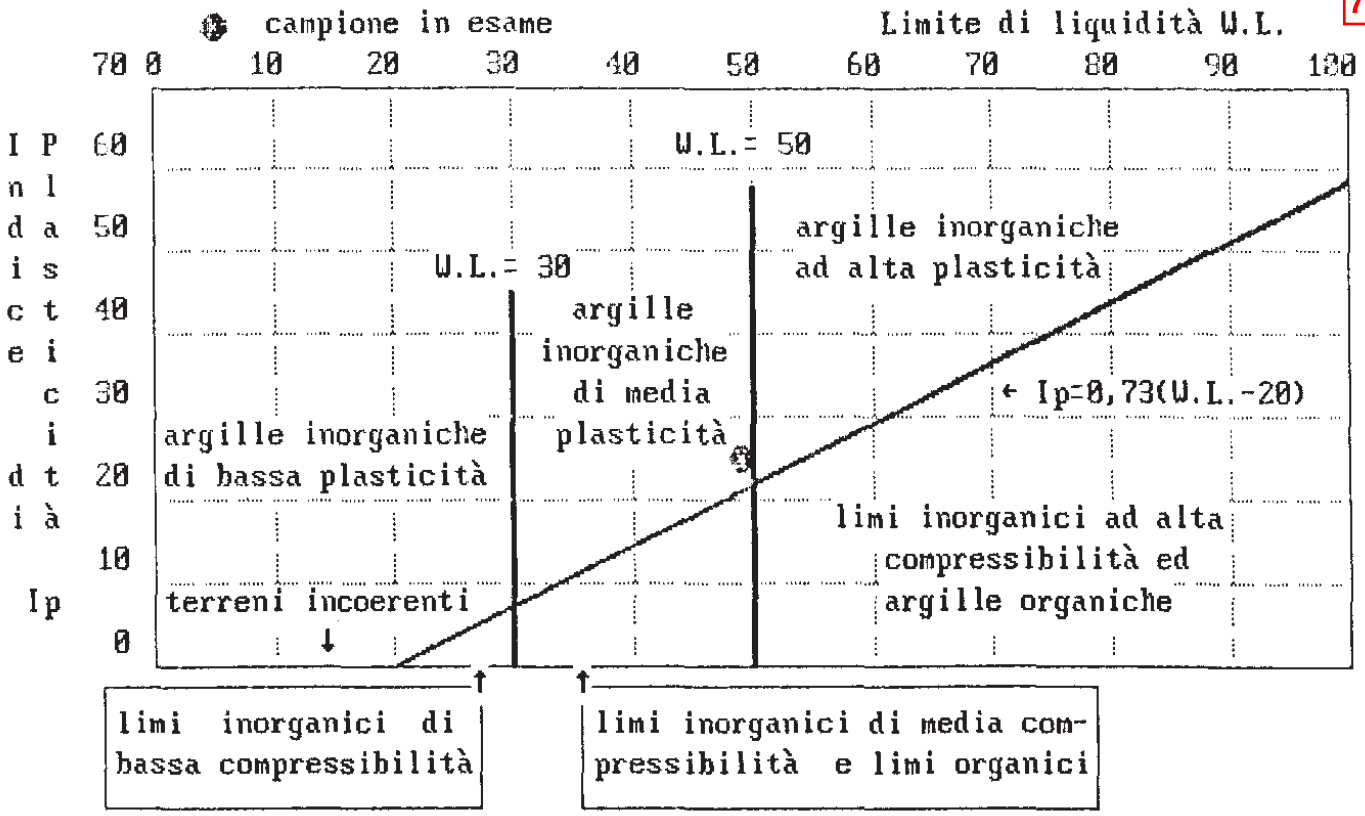
Umidità naturale = 19.84 %

Peso di volume = 2.040 kg/dmc

DIAGRAMMA DI PLASTICITA' di Casagrande

Sez. GEOTE

7947



LIMITI : liquidità (W.L.) = 49.0 ; plasticità (W.P.) = 24.0 ; ritiro (W.I.) = 0.0

INDICI : plasticità (Ip) = 25.0 ; consistenza (Cr) = 1.17

7948

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	19	22	0.20	95.00										
0.40	28	36	0.53	52.83										
0.60	31	39	0.53	58.49										
0.80	29	36	0.47	61.70										
1.00	11	19	0.53	20.75										
1.20	8	16	0.53	15.09										
1.40	5	9	0.27	18.52										
1.60	6	10	0.27	22.22										
1.80	6	11	0.33	18.18										
2.00	8	14	0.40	20.00										
2.20	11	18	0.47	23.40										
2.40	13	20	0.47	27.66										
2.60	19	26	0.47	40.43										
2.80	17	27	0.67	25.37										
3.00	36	52	1.07	33.64										
3.20	58	70	0.80	72.50										
3.40	54	68	0.93	58.06										
3.60	34	49	1.00	34.00										
3.80	30	55	1.67	17.96										
4.00	33	58	1.67	19.76										
4.20	28	46	1.20	23.33										
4.40	25	39	0.93	26.88										
4.60	38	54	1.07	35.51										
4.80	46	62	1.07	42.99										
5.00	58	70	0.80	72.50										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
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7949

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	103	112	0.60	171.67										
0.40	52	78	1.73	30.06										
0.60	40	49	0.60	66.67										
0.80	51	75	1.60	31.87										
1.00	83	108	1.67	49.70										
1.20	193	229	2.40	80.42										
1.40	139	190	3.40	40.88										
1.60	47	78	2.07	22.71										
1.80	47	70	1.53	30.72										
2.00	69	89	1.33	51.88										
2.20	85	111	1.73	49.13										
2.40	68	89	1.40	48.57										
2.60	73	85	0.80	91.25										
2.80	73	83	0.67	108.96										
3.00	61	73	0.80	76.25										
3.20	41	55	0.93	44.09										
3.40	30	45	1.00	30.00										
3.60	29	54	1.67	17.37										
3.80	23	43	1.33	17.29										
4.00	21	37	1.07	19.63										
4.20	21	34	0.87	24.14										
4.40	30	44	0.93	32.26										
4.60	41	56	1.00	41.00										
4.80	54	73	1.27	42.52										
5.00	43	72	1.93	22.28										
5.20	64	101	2.47	25.91										
5.40	46	67	1.40	32.86										
5.60	48	72	1.60	30.00										
5.80	51	76	1.67	30.54										
6.00	139	167	1.87	74.33										
6.20	165	198	2.20	75.00										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

[redacted] part. IVA

8159

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	80	140	200	60	.4	20	120			.32	22.29
.4	130	200	500	70	.46	28	370			.52	16.72
.6	530	700	900	170	1.13	47	370	30	40		12.02
.8	660	930	1300	270	1.8	37	640			3.3	9.98
1	650	1100	1600	450	3	22	950			3.25	10.1
1.2	560	1040	1850	480	3.2	17	1290			2.8	11.5
1.4	450	930	2050	480	3.2	14	1600			1.8	13.53
1.6	400	850	2250	450	3	13	1850			1.6	14.5
1.8	390	750	2300	360	2.4	16	1910			1.56	14.69
2	270	680	2750	410	2.73	10	2480			1.08	16.6
2.2	250	630	3150	380	2.53	10	2900			1	16.83
2.4	280	470	3550	190	1.26	22	3270			1.12	16.48
2.6	270	430	3650	160	1.06	25	3380			1.08	16.6
2.8	230	380	3850	150	1	23	3620			.92	17.04
3	220	370	4050	150	1	22	3830			.88	17.15
3.2	220	380	4200	160	1.06	21	3980			.88	17.15
3.4	220	370	4350	150	1	22	4130			.88	17.15
3.6	290	480	4550	190	1.26	23	4260			1.16	16.35
3.8	230	470	4550	240	1.6	14	4320			.92	17.04
4	150	330	4400	180	1.2	12	4250			.6	18.14
4.2	110	250	4350	140	.93	12	4240			.44	19.64
4.4	100	170	4250	70	.46	21	4150			.4	20.3
4.6	100	150	4200	50	.33	30	4100			.4	20.3
4.8	110	150	4150	40	.26	41	4040			.44	19.64
5	120	170	4050	50	.33	36	3930			.48	19.13
5.2	180	270	3900	90	.6	30	3720			.72	17.6
5.4	150	260	3550	110	.73	20	3400			.6	18.14
5.6	120	240	3450	120	.8	15	3330			.48	19.13
5.8	170	250	3250	80	.53	32	3080			.68	17.75
6	170	290	3250	120	.8	21	3080			.68	17.75
6.2	180	300	3400	120	.8	23	3220			.72	17.6
6.4	110	240	3400	130	.86	13	3290			.44	19.64
6.6	110	200	3350	90	.6	18	3240			.44	19.64
6.8	110	160	3300	50	.33	33	3190			.44	19.64
7	120	180	3200	60	.4	30	3080			.48	19.13
7.2	230	310	3250	80	.53	43	3020			.92	17.04
7.4	260	340	3150	80	.53	49	2890	29	23		16.72
7.6	200	350	3050	150	1	20	2850			.8	17.36
7.8	260	340	3100	80	.53	49	2840	29	23		16.72
8	260	350	3200	90	.6	43	2940			1.04	16.72

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	260	420	3300	160	1.06	24	3040			1.04	16.72
8.4	150	310	3300	160	1.06	14	3150			.6	18.14
8.6	120	170	3300	50	.33	36	3180			.48	19.13
8.8	290	390	3900	100	.66	43	3610			1.16	16.35
9	460	520	4400	60	.4	115	3940	35	36		13.33
9.2	580	680	4800	100	.66	87	4220	36	43		11.16
9.4	480	620	4800	140	.93	51	4320	30	37		12.95
9.6	170	380	4900	210	1.4	12	4730			.68	17.75
9.8	160	280	4850	120	.8	20	4690			.64	17.93
10	120	180	4800	60	.4	30	4680			.48	19.13

LEGENDA : Rpt = res. totale di punta Rat = res. lat. totale del manicotto + res.totale di punta Rt = res. totale Ral = res. laterale Rp = res. di punta
Rp/Ral = rapporto Begemann Fi = angolo di attrito Dr = densita' relativa Cu = coesione utile av = coeff. di compressibilita' volumetrica

8160

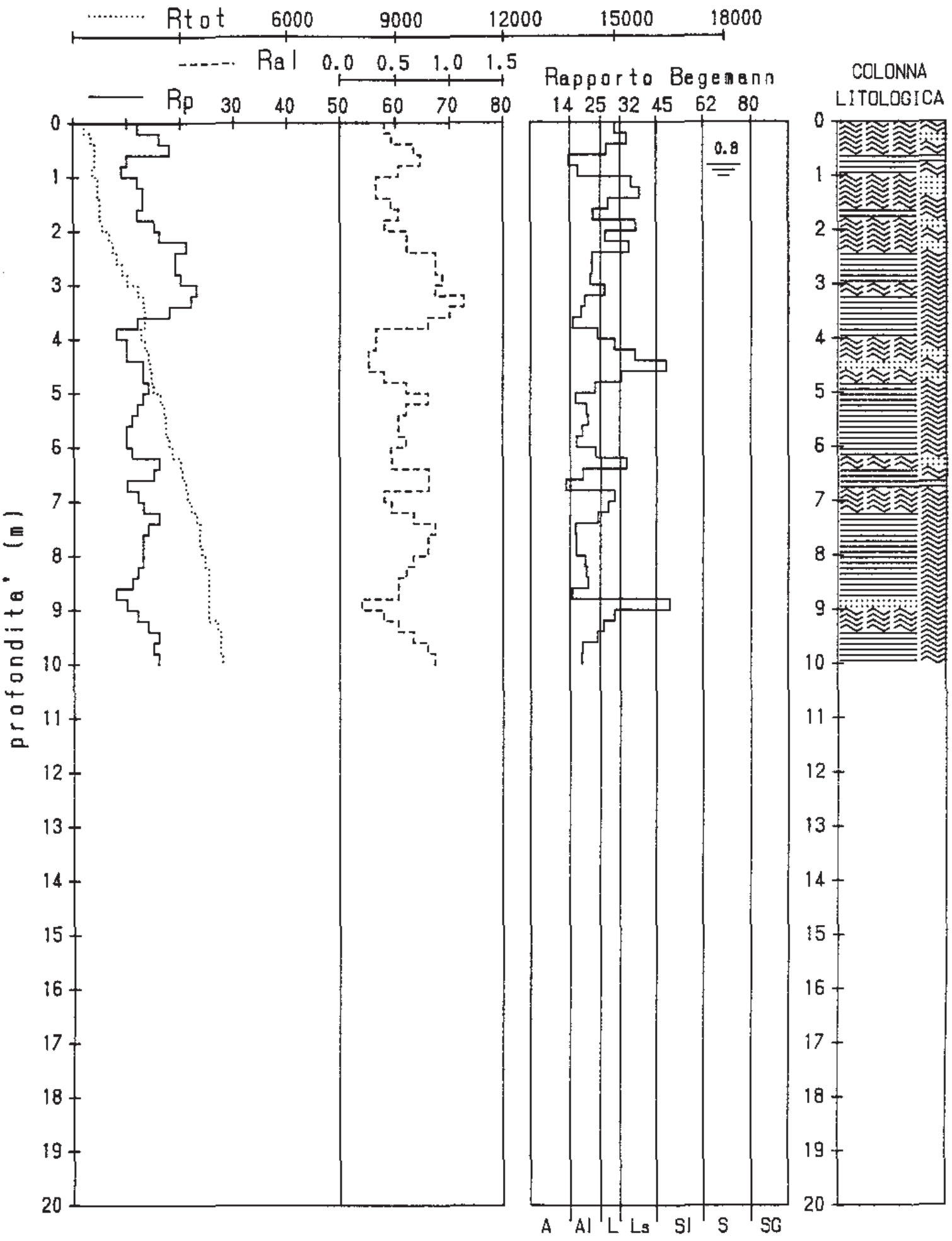
PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	40	80	100	40	.26	15	60			.16	33.74
.4	60	80	200	20	.13	45	140			.24	25.93
.6	120	150	300	30	.2	60	180	25	11		19.13
.8	110	230	500	120	.8	14	390			.44	19.64
1	180	340	700	160	1.06	17	520			.72	17.6
1.2	310	510	1200	200	1.33	23	890			1.24	16.06
1.4	330	600	1550	270	1.8	18	1220			1.32	15.75
1.6	270	700	1800	430	2.86	9	1530			1.08	16.6
1.8	200	640	1850	440	2.93	7	1650			.8	17.36
2	200	520	2000	320	2.13	9	1800			.8	17.36
2.2	210	430	1950	220	1.46	14	1740			.84	17.25
2.4	210	330	1900	120	.8	26	1690			.84	17.25
2.6	210	300	2050	90	.6	35	1840			.84	17.25
2.8	200	320	2100	120	.8	25	1900			.8	17.36
3	180	320	2200	140	.93	19	2020			.72	17.6
3.2	200	320	2400	120	.8	25	2200			.8	17.36
3.4	230	380	2550	150	1	23	2320			.92	17.04
3.6	260	450	2700	190	1.26	21	2440			1.04	16.72
3.8	230	400	2650	170	1.13	20	2420			.92	17.04
4	140	310	2650	170	1.13	12	2510			.56	18.4
4.2	130	230	2750	100	.66	19	2620			.52	18.72
4.4	100	170	2750	70	.46	21	2650			.4	20.3
4.6	100	140	2650	40	.26	38	2550			.4	20.3
4.8	130	170	2600	40	.26	49	2470	25	12		18.72
5	140	190	2550	50	.33	42	2410			.56	18.4
5.2	180	290	2650	110	.73	25	2470			.72	17.6
5.4	170	280	2600	110	.73	23	2430			.68	17.75
5.6	150	270	2550	120	.8	19	2400			.6	18.14
5.8	150	280	2550	130	.86	17	2400			.6	18.14
6	180	270	2500	90	.6	30	2320			.72	17.6
6.2	160	300	2650	140	.93	17	2490			.64	17.93
6.4	140	220	2550	80	.53	26	2410			.56	18.4
6.6	110	180	2550	70	.46	24	2440			.44	19.64
6.8	140	180	2500	40	.26	53	2360	25	13		18.4
7	170	260	2700	90	.6	28	2530			.68	17.75
7.2	320	450	3100	130	.86	37	2780			1.28	15.91
7.4	500	620	3200	120	.8	62	2700	30	38		12.57
7.6	310	430	3200	120	.8	39	2890			1.24	16.06
7.8	340	630	3300	290	1.93	18	2960			1.36	15.59
8	340	520	3300	180	1.2	28	2960			1.36	15.59

PROFONDITA' [metri]	letture di campagna Rpt [Kg]	Rat [Kg]	Rt [Kg]	valori derivati Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	Fi [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	150	450	3350	300	2	8	3200			.6	18.14
8.4	150	230	3650	80	.53	28	3500			.6	18.14
8.6	290	360	4000	70	.46	62	3710	29	25		16.35
8.8	380	490	4200	110	.73	52	3820	30	31		14.87
9	340	500	4200	160	1.06	32	3860			1.36	15.59
9.2	400	590	4300	190	1.26	32	3900			1.6	14.5
9.4	260	490	4200	230	1.53	17	3940			1.04	16.72
9.6	170	290	4200	120	.8	21	4030			.68	17.75
9.8	140	250	4100	110	.73	19	3960			.56	18.4
10	160	240	4100	80	.53	30	3940			.64	17.93

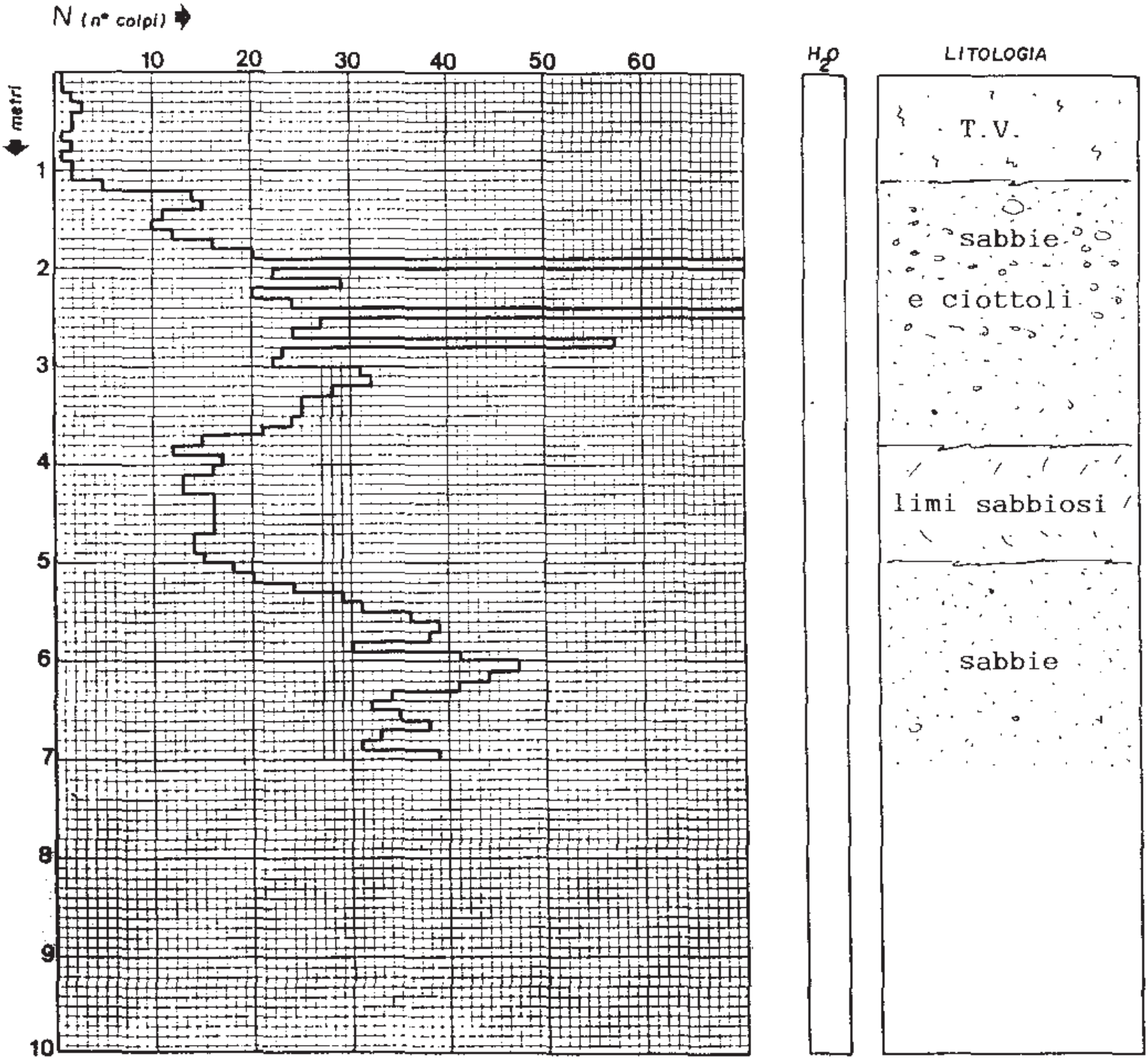
LEGENDA : Rpt = res. totale di punta Rat = res. lat. totale del manicotto + res.totale di punta Rt = res. totale Ral = res. laterale Rp = res. di punta
Rp/Ral = rapporto Begemann Fi = angolo di attrito Dr = densita' relativa Cu = coesione utile av = coeff. di compressibilita' volumetrica

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Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	120	180	300	12	0.40	30	3.33	.	.	0.60	20.0
0.4	160	230	500	16	0.47	34	2.92	23	65	.	20.0
0.6	180	280	600	18	0.67	27	3.70	.	.	0.90	13.9
0.8	100	210	600	10	0.73	14	7.33	.	.	0.50	20.0
1.0	90	170	550	9	0.53	17	5.93	.	.	0.45	22.2
1.2	120	170	700	12	0.33	36	2.78	22	32	.	27.8
1.4	130	180	700	13	0.33	39	2.56	22	33	.	25.6
1.6	130	200	750	13	0.47	28	3.59	.	.	0.65	19.2
1.8	120	200	750	12	0.53	22	4.44	.	.	0.60	16.7
2.0	150	210	800	15	0.40	37	2.67	23	31	.	22.2
2.2	160	250	1000	16	0.60	27	3.75	.	.	0.80	15.6
2.4	210	300	1100	21	0.60	35	2.86	24	39	.	15.9
2.6	190	320	1200	19	0.87	22	4.56	.	.	0.95	10.5
2.8	190	320	1350	19	0.87	22	4.56	.	.	0.95	10.5
3.0	200	340	1500	20	0.93	21	4.67	.	.	1.00	10.0
3.2	230	360	1800	23	0.87	27	3.77	.	.	1.15	10.9
3.4	220	390	1950	22	1.13	19	5.15	.	.	1.10	9.1
3.6	180	330	2000	18	1.00	18	5.56	.	.	0.90	11.1
3.8	120	240	2000	12	0.80	15	6.67	.	.	0.60	16.7
4.0	80	130	1900	8	0.33	24	4.17	.	.	0.40	25.0
4.2	100	150	2000	10	0.33	30	3.33	.	.	0.50	25.0
4.4	100	140	2100	10	0.27	37	2.67	20	10	.	33.3
4.6	130	170	2150	13	0.27	49	2.05	23	10	.	38.5
4.8	130	190	2200	13	0.40	32	3.08	.	.	0.65	25.6
5.0	140	230	2250	14	0.60	23	4.29	.	.	0.70	14.3
5.2	130	250	2450	13	0.80	16	6.15	.	.	0.65	15.4
5.4	120	210	2550	12	0.60	20	5.00	.	.	0.60	16.7
5.6	110	190	2600	11	0.53	21	4.85	.	.	0.55	18.2
5.8	100	180	2600	10	0.53	19	5.33	.	.	0.50	20.0
6.0	100	190	2700	10	0.60	17	6.00	.	.	0.50	20.0
6.2	110	180	2800	11	0.47	24	4.24	.	.	0.55	18.2
6.4	160	230	3000	16	0.47	34	2.92	23	10	.	20.0
6.6	150	270	3050	15	0.80	19	5.33	.	.	0.75	13.3
6.8	100	220	3150	10	0.80	12	8.00	.	.	0.50	25.0
7.0	120	180	3200	12	0.40	30	3.33	.	.	0.60	20.0
7.2	130	200	3300	13	0.47	28	3.59	.	.	0.65	19.2
7.4	160	260	3450	16	0.67	24	4.17	.	.	0.80	12.5
7.6	140	270	3550	14	0.87	16	6.19	.	.	0.70	14.3
7.8	130	250	3550	13	0.80	16	6.15	.	.	0.65	15.4
8.0	130	250	3600	13	0.80	16	6.15	.	.	0.65	15.4
8.2	130	230	3700	13	0.67	19	5.13	.	.	0.65	15.4
8.4	120	210	3800	12	0.60	20	5.00	.	.	0.60	16.7
8.6	110	190	3800	11	0.53	21	4.85	.	.	0.55	18.2
8.8	80	160	3800	8	0.53	15	6.67	.	.	0.40	25.0
9.0	100	130	3800	10	0.20	50	2.00	22	10	.	50.0
9.2	120	180	3800	12	0.40	30	3.33	.	.	0.60	20.0
9.4	140	220	4050	14	0.53	26	3.81	.	.	0.70	17.9
9.6	160	260	4150	16	0.67	24	4.17	.	.	0.80	12.5
9.8	150	270	4150	15	0.80	19	5.33	.	.	0.75	13.3
10.0	160	290	4200	16	0.87	18	5.42	.	.	0.80	12.5


Rtot
6000
9000
12000
15000
18000
Ral
0.0
0.5
1.0
1.5
Rp
30
40
50
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70
80
Rapporto Begemann
14
25
32
45
62
80
0.8
COLONNA LITOLOGICA
profondita' (m)
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8163



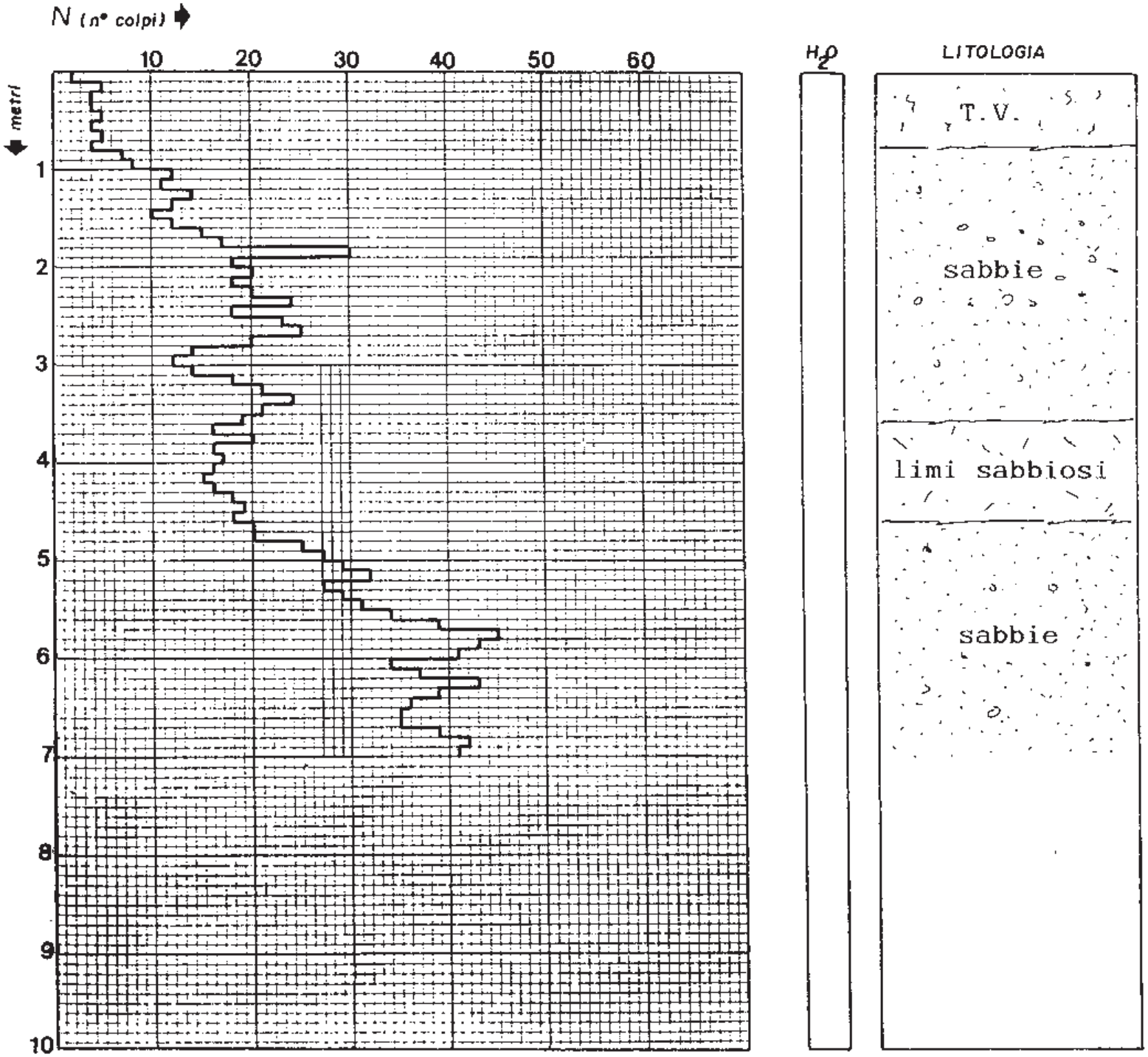
CARATTERISTICHE STRUMENTALI

A.G.I. - ISSMFE 1988

Maglio: peso = 30 Kg , altezza di caduta = 20 cm – Testata d'infissione: 13 Kg

Aste: peso = 2.9 Kg/m , Ø = 20 mm – Punta: apertura del cono = 60°, sezione = 10 cmq , Ø max = 35.7 mm, altezza della parte cilindrica = 9 mm – Avanzamento = 10 cm

8164



CARATTERISTICHE STRUMENTALI

A.G.I. - ISSMFE 1988

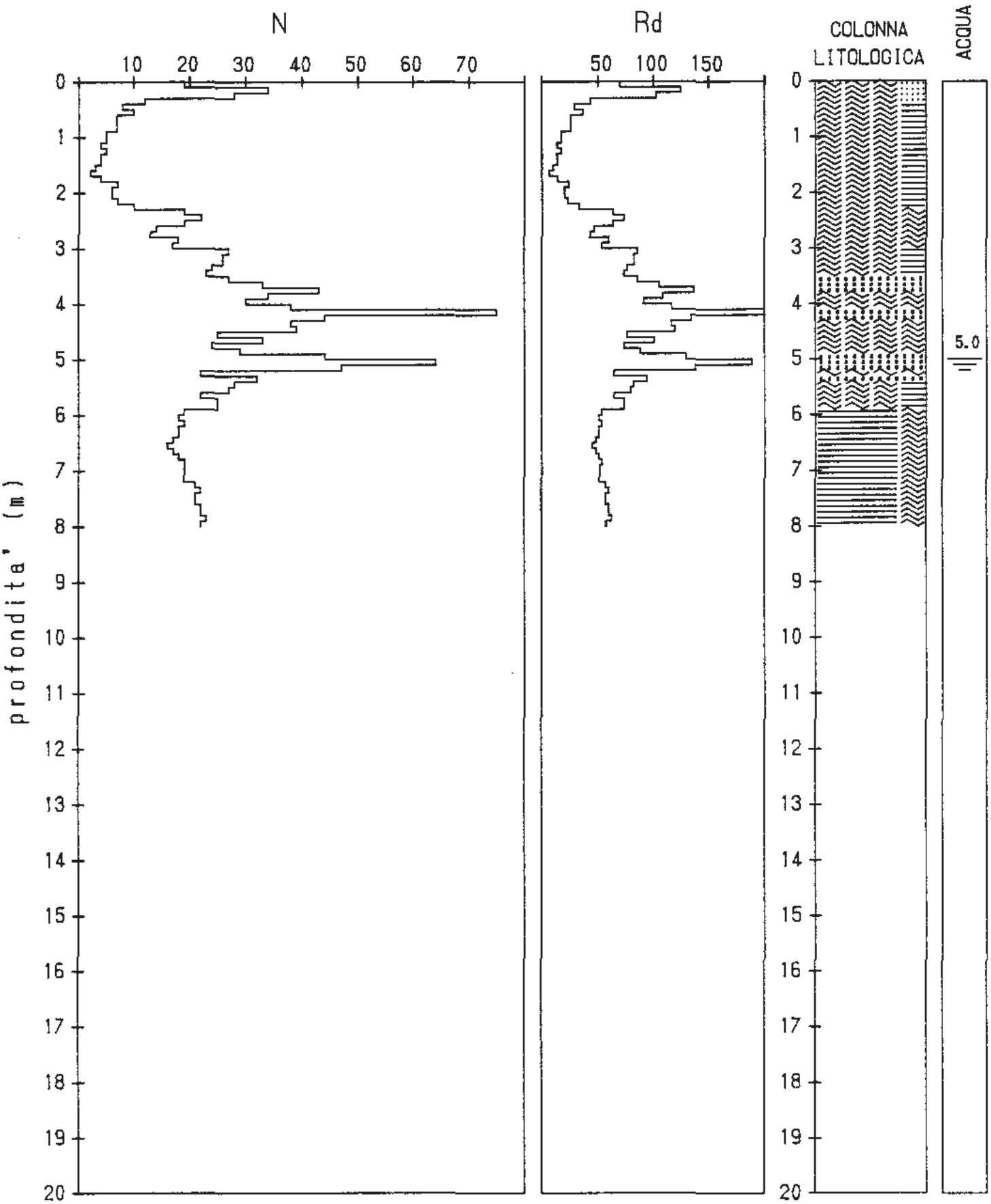
Maglio: peso = 30 Kg , altezza di caduta = 20 cm - Testata d'infissione: 13 Kg

Aste: peso = 2.9 Kg/m , Ø = 20 mm - Punta: apertura del cono = 60°, sezione = 10 cmq , Ø max = 35.7 mm , altezza della parte cilindrica = 9 mm - Avanzamento = 10 cm

8165

Prof	N	Rd	ø	Dr	Cu	mv
0.1	19	69.7	32	99	.	1.9
0.2	34	124.6	38	99	.	1.1
0.3	28	102.6	35	99	.	1.3
0.4	12	44.0	28	99	.	3.0
0.5	8	29.3	.	.	0.5	4.5
0.6	10	36.7	.	.	0.7	3.6
0.7	7	25.7	.	.	0.5	5.1
0.8	7	25.7	.	.	0.5	5.1
0.9	7	25.7	.	.	0.5	5.1
1.0	5	17.5	.	.	0.3	7.2
1.1	5	17.5	.	.	0.3	7.2
1.2	4	14.0	.	.	0.3	9.0
1.3	5	17.5	.	.	0.3	7.2
1.4	4	14.0	.	.	0.3	9.0
1.5	4	14.0	.	.	0.3	9.0
1.6	3	10.5	.	.	0.2	12.0
1.7	2	7.0	.	.	0.1	18.0
1.8	4	14.0	.	.	0.3	9.0
1.9	7	24.5	.	.	0.5	5.1
2.0	6	20.0	.	.	0.4	6.0
2.1	6	20.0	.	.	0.4	6.0
2.2	7	23.4	.	.	0.5	5.1
2.3	10	33.4	.	.	0.7	3.6
2.4	19	63.5	.	.	1.3	1.9
2.5	22	73.5	.	.	1.5	1.6
2.6	19	63.5	.	.	1.3	1.9
2.7	14	46.8	.	.	0.9	2.6
2.8	13	43.4	.	.	0.9	2.8
2.9	18	60.1	.	.	1.2	2.0
3.0	17	54.4	.	.	1.1	2.1
3.1	27	86.3	.	.	1.8	1.3
3.2	26	83.1	.	.	1.7	1.4
3.3	26	83.1	.	.	1.7	1.4
3.4	24	76.7	.	.	1.6	1.5
3.5	23	73.5	.	.	1.5	1.6
3.6	27	86.3	35	96	.	1.3
3.7	33	105.5	37	99	.	1.1
3.8	43	137.5	40	99	.	0.8
3.9	34	108.7	.	.	2.3	1.1
4.0	30	92.0	.	.	2.0	1.2
4.1	38	116.5	.	.	2.5	0.9
4.2	75	230.0	49	99	.	0.5
4.3	44	134.9	41	99	.	0.8
4.4	38	116.5	.	.	2.5	0.9
4.5	39	119.6	.	.	2.6	0.9
4.6	25	76.7	.	.	1.7	1.4
4.7	33	101.2	.	.	2.2	1.1
4.8	24	73.6	.	.	1.6	1.5
4.9	29	88.9	.	.	1.9	1.2
5.0	44	129.6	41	99	.	0.8
5.1	64	181.4	46	99	.	0.6
5.2	47	128.4	42	99	.	0.8
5.3	22	58.0	.	.	1.5	1.6
5.4	32	81.5	37	94	.	1.1
5.5	28	68.9	.	.	1.9	1.3
5.6	27	64.4	.	.	1.8	1.3
5.7	22	50.8	.	.	1.5	1.6
5.8	25	56.0	.	.	1.7	1.4
5.9	25	54.4	.	.	1.7	1.4
6.0	19	40.2	.	.	1.3	1.9
6.1	18	37.0	.	.	1.2	2.0
6.2	19	38.0	.	.	1.3	1.9
6.3	18	35.1	.	.	1.2	2.0
6.4	18	34.2	.	.	1.2	2.0
6.5	17	31.5	.	.	1.1	2.1
6.6	16	28.9	.	.	1.1	2.3
6.7	17	30.0	.	.	1.1	2.1
6.8	18	31.1	.	.	1.2	2.0
6.9	19	32.1	.	.	1.3	1.9
7.0	19	31.3	.	.	1.3	1.9
7.1	19	30.7	.	.	1.3	1.9
7.2	19	30.0	.	.	1.3	1.9
7.3	21	32.5	.	.	1.4	1.7
7.4	22	33.4	.	.	1.5	1.6
7.5	21	31.2	.	.	1.4	1.7
7.6	21	30.6	.	.	1.4	1.7
7.7	22	31.5	.	.	1.5	1.6
7.8	22	30.9	.	.	1.5	1.6
7.9	23	31.7	.	.	1.5	1.6
8.0	22	29.8	.	.	1.5	1.6

8165


N
10 20 30 40 50 60 70
Rd
50 100 150
COLONNA
LITOLOGICA
ACQUA
5.0
profondita' (m)
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

8166

Prof	N	Rd	⌀	Dr	Cu	mv
0.1	10	36.7	27	99	.	3.6
0.2	11	40.3	28	99	.	3.3
0.3	9	33.0	27	99	.	4.0
0.4	7	25.7	25	92	.	5.1
0.5	5	18.3	.	.	0.3	7.2
0.6	3	11.0	.	.	0.2	12.0
0.7	2	7.3	.	.	0.1	18.0
0.8	3	11.0	.	.	0.2	12.0
0.9	2	7.3	.	.	0.1	18.0
1.0	2	7.0	.	.	0.1	18.0
1.1	3	10.5	.	.	0.2	12.0
1.2	4	14.0	.	.	0.3	9.0
1.3	6	21.0	.	.	0.4	6.0
1.4	5	17.5	.	.	0.3	7.2
1.5	5	17.5	.	.	0.3	7.2
1.6	4	14.0	.	.	0.3	9.0
1.7	5	17.5	.	.	0.3	7.2
1.8	4	14.0	.	.	0.3	9.0
1.9	2	7.0	.	.	0.1	18.0
2.0	3	10.0	.	.	0.2	12.0
2.1	7	23.4	.	.	0.5	5.1
2.2	12	40.1	.	.	0.8	3.0
2.3	12	40.1	.	.	0.8	3.0
2.4	9	30.1	.	.	0.6	4.0
2.5	10	33.4	.	.	0.7	3.6
2.6	10	33.4	.	.	0.7	3.6
2.7	15	50.1	.	.	1.0	2.4
2.8	19	63.5	.	.	1.3	1.9
2.9	18	60.1	.	.	1.2	2.0
3.0	18	57.5	.	.	1.2	2.0
3.1	20	63.9	.	.	1.3	1.8
3.2	21	67.1	.	.	1.4	1.7
3.3	88	281.3	51	99	.	0.4
3.4	50	159.9	42	99	.	0.7
3.5	34	108.7	.	.	2.3	1.1
3.6	36	115.1	.	.	2.4	1.0
3.7	32	102.3	.	.	2.1	1.1
3.8	49	156.7	42	99	.	0.7
3.9	36	115.1	38	99	.	1.0
4.0	27	82.8	.	.	1.8	1.3
4.1	29	88.9	.	.	1.9	1.2
4.2	30	92.0	.	.	2.0	1.2
4.3	39	119.6	39	99	.	0.9
4.4	44	134.9	41	99	.	0.8
4.5	28	85.9	.	.	1.9	1.3
4.6	30	92.0	.	.	2.0	1.2
4.7	27	82.8	.	.	1.8	1.3
4.8	21	64.4	.	.	1.4	1.7
4.9	24	73.6	.	.	1.6	1.5
5.0	50	147.3	42	99	.	0.7
5.1	42	119.1	40	99	.	0.9
5.2	30	81.9	.	.	2.0	1.2
5.3	27	71.2	.	.	1.8	1.3
5.4	21	53.5	.	.	1.4	1.7
5.5	24	59.1	.	.	1.6	1.5
5.6	23	54.8	.	.	1.5	1.6
5.7	22	50.8	.	.	1.5	1.6
5.8	22	49.3	.	.	1.5	1.6
5.9	20	43.5	.	.	1.3	1.8
6.0	20	42.3	.	.	1.3	1.8
6.1	19	39.1	.	.	1.3	1.9
6.2	19	38.0	.	.	1.3	1.9
6.3	20	39.0	.	.	1.3	1.8
6.4	18	34.2	.	.	1.2	2.0
6.5	17	31.5	.	.	1.1	2.1
6.6	17	30.8	.	.	1.1	2.1
6.7	16	28.3	.	.	1.1	2.3
6.8	15	25.9	.	.	1.0	2.4
6.9	16	27.0	.	.	1.1	2.3
7.0	17	28.0	.	.	1.1	2.1
7.1	17	27.4	.	.	1.1	2.1
7.2	18	28.4	.	.	1.2	2.0
7.3	18	27.9	.	.	1.2	2.0
7.4	19	28.8	.	.	1.3	1.9
7.5	20	29.7	.	.	1.3	1.8
7.6	21	30.6	.	.	1.4	1.7
7.7	20	28.6	.	.	1.3	1.8
7.8	20	28.1	.	.	1.3	1.8
7.9	21	28.9	.	.	1.4	1.7
8.0	20	27.0	.	.	1.3	1.8

parametri geotecnici stimati

PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	141,1	,6	235	1500	2,30	,12	45	100	-	2,4	SG
0.8	89,3	2,6	34	1390	2,05	,16	33	-	-	3,7	SL
1.0	42,3	1,9	22	1390	1,97	,20	-	-	1,68	9,5	AL
1.2	27,3	2,2	12	1570	1,94	,24	-	-	1,08	14,7	A
1.4	24,3	1,9	13	1750	1,93	,28	-	-	,96	16,5	A
1.6	19,3	,9	22	1910	1,92	,31	-	-	,76	19,7	A
1.8	14,4	1,1	14	2160	1,57	,35	-	-	,56	25,7	T
2.0	18,4	1,5	12	2010	1,61	,38	-	-	,72	20,1	T
2.2	18,4	1,5	13	2130	1,61	,41	-	-	,72	20,1	T
2.4	18,4	1	18	2160	1,92	,45	-	-	,72	19,5	A
2.6	18,4	1,1	17	2330	1,92	,49	-	-	,72	19,5	A
2.8	20,5	1,4	15	2360	1,92	,53	-	-	,80	19,5	A
3.0	14,5	1,2	12	2250	1,58	,56	-	-	,56	25,5	T
3.2	15,5	1,1	14	2180	1,59	,59	-	-	,60	23,9	T
3.4	13,5	,9	16	2160	1,91	,63	-	-	,51	20,3	A
3.6	13,5	,9	16	2250	1,91	,66	-	-	,51	20,3	A
3.8	13,6	,8	17	2370	1,91	,70	-	-	,52	20,2	A
4.0	13,6	,9	15	2350	1,91	,74	-	-	,51	20,2	A
4.2	15,6	,9	17	2320	1,91	,78	-	-	,59	19,5	A
4.4	17,6	1,1	17	2430	1,92	,82	-	-	,67	19,4	A
4.6	15,6	1,1	15	2610	1,91	,86	-	-	,59	19,5	A
4.8	14,7	1,1	13	2520	1,58	,89	-	-	,55	25,2	T
5.0	10,7	1	11	2450	1,54	,92	-	-	,39	34,6	T
5.2	11,7	,9	14	2230	1,55	,93	-	-	,43	31,7	T
5.4	13,7	,8	17	2160	1,91	,95	-	-	,51	20,2	A
5.6	9,7	,5	21	2320	1,89	,97	-	-	,35	23,8	A
5.8	11,9	,7	16	2410	1,90	,98	-	-	,44	21,3	A
6.0	13,9	,8	17	2590	1,91	1,00	-	-	,52	20,1	A
6.2	13,9	,9	15	2700	1,91	1,02	-	-	,52	20,1	A
6.4	11,9	1	12	2790	1,55	1,03	-	-	,43	31,1	T
6.6	10,9	,9	13	3010	1,54	1,04	-	-	,39	34,0	T
6.8	19	1,2	16	3230	1,92	1,06	-	-	,72	19,7	A
7.0	20	,9	21	3260	1,92	1,08	-	-	,76	20	A
7.2	15	1,3	12	3300	1,58	1,09	-	-	,56	24,7	T
7.4	14	1,1	13	3360	1,57	1,10	-	-	,52	26,5	T
7.6	14	1,1	13	3440	1,57	1,11	-	-	,52	26,5	T
7.8	12,2	,9	13	3460	1,55	1,12	-	-	,44	30,4	T
8.0	16,2	1,1	15	3650	1,91	1,14	-	-	,60	19,4	A
8.2	14,2	1,2	12	3720	1,57	1,15	-	-	,52	26,1	T
8.4	12,2	1,1	11	3800	1,55	1,16	-	-	,44	30,4	T
8.6	12,2	1	12	4030	1,55	1,18	-	-	,44	30,4	T
8.8	13,3	,9	14	4090	1,56	1,19	-	-	,48	27,8	T
9.0	13,3	1,1	12	4070	1,56	1,20	-	-	,48	27,8	T
9.2	13,3	1,1	12	4080	1,56	1,21	-	-	,48	27,8	T
9.4	13,3	,8	17	4150	1,91	1,23	-	-	,48	20,4	A
9.6	14,3	1	14	4270	1,91	1,25	-	-	,52	19,9	A
9.8	15,4	1,2	13	4470	1,58	1,26	-	-	,57	24,1	T
10.0	17,4	,9	20	4580	1,92	1,28	-	-	,64	19,4	A

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PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	parametri geotecnici stimati						
					Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	90,1	1,7	52	1210	2,05	,11	45	100	-	3,7	SG
0.8	102,3	1,3	77	1130	2,10	,16	45	100	-	3,3	SG
1.0	41,3	2,7	15	1310	1,97	,19	-	-	1,64	9,7	A
1.2	30,3	1,5	20	1020	1,95	,23	-	-	1,20	13,2	A
1.4	16,3	1,2	14	1080	1,59	,27	-	-	,64	22,7	T
1.6	13,3	1,3	11	1070	1,56	,30	-	-	,52	27,8	T
1.8	15,4	,7	23	1010	1,91	,33	-	-	,60	19,6	A
2.0	16,4	,8	21	1210	1,91	,37	-	-	,64	19,4	A
2.2	17,4	,6	29	1270	1,92	,41	-	-	,68	19,4	AL
2.4	23,4	1,1	21	1270	1,93	,45	-	-	,92	17,1	A
2.6	23,4	1,6	15	1400	1,93	,49	-	-	,92	17,1	A
2.8	18,5	1,7	11	1580	1,62	,52	-	-	,72	20,0	T
3.0	17,5	1,4	13	1810	1,61	,55	-	-	,68	21,2	T
3.2	17,5	,9	19	1870	1,92	,59	-	-	,68	19,4	A
3.4	18,5	1,1	16	1990	1,92	,63	-	-	,71	19,5	A
3.6	19,5	1,2	16	2010	1,92	,67	-	-	,75	19,8	A
3.8	18,6	1,2	16	2120	1,92	,71	-	-	,72	19,6	A
4.0	20,6	1,2	17	2400	1,92	,74	-	-	,79	19,4	A
4.2	23,6	1,6	15	2600	1,93	,78	-	-	,91	16,9	A
4.4	31,6	,9	34	2810	1,76	,82	29	-	-	10,5	SL
4.6	35,6	1,7	21	3090	1,96	,86	-	-	1,39	11,2	A
4.8	34,7	2,1	17	3420	1,95	,90	-	-	1,35	11,5	A
5.0	32,7	2,3	14	3810	1,95	,94	-	-	1,27	12,2	A
5.2	31,7	1,4	23	4040	1,95	,95	-	-	1,23	12,6	AL
5.4	20,7	1,5	14	4020	1,92	,97	-	-	,79	19,3	A
5.6	15,7	1,1	15	4010	1,91	,99	-	-	,59	19,5	A
5.8	10,9	,5	20	3940	1,90	1,01	-	-	,40	22,3	A
6.0	10,9	,6	18	4170	1,90	1,03	-	-	,39	22,3	A
6.2	15,9	,7	22	4180	1,91	1,05	-	-	,59	19,5	A
6.4	16,9	,9	18	4150	1,92	1,06	-	-	,63	19,4	A
6.6	14,9	,9	16	4140	1,91	1,08	-	-	,55	19,7	A
6.8	14	,6	23	4080	1,91	1,10	-	-	,52	20,0	A
7.0	12	,4	30	4260	1,90	1,12	-	-	,44	21,2	AL
7.2	12	,5	26	4230	1,90	1,14	-	-	,43	21,2	A
7.4	12	,1	90	4280	1,66	1,15	28	2	-	16,7	SS
7.6	42	,9	45	4400	1,81	1,17	30	-	-	7,9	SL
7.8	37,2	,5	70	4370	1,79	1,18	31	31	-	9,0	SS
8.0	32,2	,3	97	4330	1,76	1,20	30	26	-	10,4	SS
8.2	20,2	1,3	16	4320	1,92	1,22	-	-	,76	19,8	A
8.4	19,2	,7	29	4280	1,92	1,23	-	-	,72	19,7	AL
8.6	16,2	,8	20	4280	1,91	1,25	-	-	,60	19,4	A
8.8	16,3	,5	35	4340	1,68	1,27	-	-	,60	17,3	L
9.0	17,3	,4	43	4480	1,69	1,28	-	-	,64	17,0	L
9.2	14,3	,7	21	4450	1,91	1,30	-	-	,52	19,9	A
9.4	18,3	,6	31	4440	1,92	1,32	-	-	,68	19,5	AL
9.6	23,3	,7	35	4420	1,72	1,33	-	-	,88	14,3	L
9.8	24,4	1,1	23	4530	1,93	1,35	-	-	,92	16,4	A
10.0	31,4	1	31	4700	1,76	1,36	29	-	-	10,6	SL

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PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	parametri geotecnici stimati						
					Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	81,1	2,4	34	1220	2,01	,11	32	-	-	4,1	SL
0.8	70,3	2,1	33	1200	1,95	,15	32	-	-	4,7	SL
1.0	38,3	1,5	26	1150	1,96	,19	-	-	1,52	10,4	AL
1.2	23,3	1,3	18	1300	1,93	,23	-	-	,92	17,2	A
1.4	22,3	1,6	14	1480	1,93	,27	-	-	,88	17,9	A
1.6	17,3	,9	19	1560	1,92	,31	-	-	,68	19,4	A
1.8	23,4	,9	25	1710	1,93	,34	-	-	,92	17,1	AL
2.0	19,4	1,2	16	1720	1,92	,38	-	-	,76	19,8	A
2.2	21,4	1,2	18	1760	1,93	,42	-	-	,84	18,7	A
2.4	27,4	1,8	15	1870	1,94	,46	-	-	1,08	14,6	A
2.6	23,4	,9	27	2080	1,93	,50	-	-	,92	17,1	AL
2.8	19,5	1,5	13	2310	1,63	,53	-	-	,76	19,0	T
3.0	16,5	1,1	15	2320	1,91	,57	-	-	,64	19,4	A
3.2	14,5	1,4	10	2360	1,58	,60	-	-	,56	25,5	T
3.4	16,5	1,1	15	2430	1,91	,64	-	-	,63	19,4	A
3.6	19,5	1,1	17	2600	1,92	,68	-	-	,75	19,8	A
3.8	18,6	1,6	12	2660	1,62	,71	-	-	,72	19,9	T
4.0	18,6	1,3	15	2670	1,92	,75	-	-	,71	19,6	A
4.2	17,6	1,2	15	2650	1,92	,77	-	-	,67	19,4	A
4.4	16,6	1	17	2630	1,91	,79	-	-	,63	19,4	A
4.6	18,6	1	19	2820	1,92	,80	-	-	,71	19,6	A
4.8	25,7	1,4	18	3090	1,93	,82	-	-	1,00	15,6	A
5.0	26,7	1,7	15	3450	1,94	,84	-	-	1,03	15,0	A
5.2	29,7	2	15	3790	1,94	,86	-	-	1,15	13,5	A
5.4	30,7	2,1	14	4120	1,95	,88	-	-	1,19	13,0	A
5.6	37,7	1,6	24	3470	1,96	,90	-	-	1,47	10,6	AL
5.8	33,9	2,2	15	4780	1,95	,92	-	-	1,32	11,8	A
6.0	32,9	2,3	14	5040	1,95	,94	-	-	1,28	12,2	A
6.2	35,9	2,3	16	5200	1,96	,96	-	-	1,40	11,1	A
6.4	28,9	2,5	12	5460	1,94	,97	-	-	1,12	13,8	A
6.6	32,9	2	16	5600	1,95	,99	-	-	1,28	12,2	A
6.8	27	1,7	16	5820	1,94	1,01	-	-	1,04	14,8	A
7.0	24	1,9	13	6030	1,93	1,03	-	-	,92	16,7	A
7.2	22	1,6	14	6000	1,93	1,05	-	-	,84	18,2	A
7.4	13	,9	14	6100	1,56	1,06	-	-	,48	28,5	T
7.6	14	,7	21	6120	1,91	1,08	-	-	,52	20,0	A
7.8	19,2	,9	21	6190	1,92	1,10	-	-	,72	19,7	A
8.0	38,2	1,4	27	6330	1,96	1,12	-	-	1,48	10,5	AL
8.2	33,2	,5	71	6090	1,77	1,13	30	28	-	10,0	SS
8.4	13,2	1,1	12	6140	1,56	1,14	-	-	,48	28,1	T
8.6	18,2	,8	23	6060	1,92	1,16	-	-	,68	19,5	A
8.8	19,3	,9	22	5900	1,92	1,18	-	-	,72	19,7	A
9.0	20,3	1,3	16	5900	1,92	1,20	-	-	,76	19,7	A
9.2	21,3	1,2	18	5850	1,93	1,22	-	-	,80	18,8	A
9.4	37,3	1,5	24	5920	1,96	1,24	-	-	1,44	10,7	AL
9.6	37,3	1,7	22	6020	1,96	1,25	-	-	1,44	10,7	A
9.8	40,4	1,3	30	6000	1,80	1,27	30	-	-	8,3	SL
10.0	19,4	1,7	12	5750	1,62	1,28	-	-	,72	19,1	T

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letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	190	300	500	110	.73	26	310			.76	17.47
.4	140	320	700	180	1.2	12	560			.56	18.4
.6	160	400	800	240	1.6	10	640			.64	17.93
.8	150	330	900	180	1.2	13	750			.6	18.14
1	120	250	1000	130	.86	14	880			.48	19.13
1.2	170	300	1200	130	.86	20	1030			.68	17.75
1.4	180	320	1300	140	.93	19	1120			.72	17.6
1.6	170	350	1400	180	1.2	14	1230			.68	17.75
1.8	180	370	1600	190	1.26	14	1420			.72	17.6
2	220	410	1850	190	1.26	17	1630			.88	17.15
2.2	230	460	2200	230	1.53	15	1970			.92	17.04
2.4	240	500	2450	260	1.73	14	2210			.96	16.94
2.6	180	440	2650	260	1.73	10	2470			.72	17.6
2.8	200	400	2700	200	1.33	15	2500			.8	17.36
3	150	330	2750	190	1.2	13	2600			.6	18.14
3.2	120	270	2950	150	1	12	2830			.48	19.13
3.4	110	230	3000	120	.8	14	2890			.44	19.64
3.6	120	200	2900	80	.53	23	2780			.48	19.13
3.8	80	180	2900	100	.66	12	2820			.32	22.29
4	80	160	2900	90	.53	15	2820			.32	22.29
4.2	100	170	3000	70	.46	21	2900			.4	20.3
4.4	60	120	2950	60	.4	15	2890			.24	25.93
4.6	140	190	3100	50	.33	42	2960			.56	18.4
4.8	170	200	3200	30	.2	85	3030	30	15		17.75
5	200	260	3200	60	.4	50	3000	27	18		17.36
5.2	190	270	3200	80	.53	36	3010			.76	17.47
5.4	170	240	3200	70	.46	36	3030			.68	17.75
5.6	210	270	3100	60	.4	53	2890	27	19		17.25
5.8	260	350	3200	90	.6	43	2940			1.04	16.72
6	300	380	3200	80	.53	56	2900	29	26		16.21
6.2	280	370	3300	90	.6	47	3020	29	24		16.48
6.4	320	450	3300	130	.96	37	2980			1.28	15.91
6.6	190	310	3100	120	.8	24	2910			.76	17.47
6.8	220	330	3200	110	.73	30	2980			.88	17.15
7	350	420	3250	70	.46	75	2900	30	29		15.42
7.2	260	360	3300	100	.66	39	3040			1.04	16.72
7.4	210	330	3300	120	.8	26	3090			.84	17.25
7.6	280	420	3400	140	.93	30	3120			1.12	16.48
7.8	270	410	3550	140	.93	29	3280			1.08	16.6
8	320	450	3500	130	.86	37	3180			1.28	15.91

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	280	380	3550	100	.66	42	3270			1.12	16.48
8.4	270	390	3600	120	.8	34	3330			1.08	16.6
8.6	250	390	3590	140	.93	27	3250			1	16.83
8.8	250	450	3300	200	1.33	19	3050			1	16.83
9	210	330	3350	120	.8	26	3140			.84	17.25
9.2	330	440	3500	110	.73	45	3170			1.32	15.75
9.4	340	510	3600	170	1.13	30	3260			1.36	15.59
9.6	420	580	3850	160	1.06	39	3430			1.68	14.11
9.8	410	600	4150	190	1.26	32	3740			1.64	14.3
10	350	620	4150	270	1.8	19	3800			1.4	15.42

LEGENDA : Rpt = res. totale di punta Rat = res. lat. totale del manicotto + res.totale di punta Rt = res. totale Ral = res. laterale Rp = res. di punta
Rp/Ral = rapporto Begemann FI = angolo di attrito Dr = densita' relativa Cu = coesione utile av = coeff. di compressibilita' volumetrica

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letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
.2	360	620	700	60	.4	140	140	36	42		11.5
.4	150	260	600	110	.73	20	450			.6	18.14
.6	140	270	600	130	.86	16	460			.56	18.4
.8	120	290	700	170	1.13	11	580			.48	19.13
1	120	280	850	160	1.06	11	730			.48	19.13
1.2	160	280	1050	120	.8	20	890			.64	17.93
1.4	180	330	1300	150	1	18	1120			.72	17.6
1.6	230	380	1400	150	1	23	1170			.92	17.04
1.8	260	460	1500	200	1.33	20	1240			1.04	16.72
2	270	470	1550	200	1.33	20	1280			1.08	16.6
2.2	250	470	1750	220	1.46	17	1500			1	16.83
2.4	240	400	1800	160	1.06	23	1560			.96	16.94
2.6	260	420	1800	160	1.06	24	1540			1.04	16.72
2.8	210	360	1800	150	1	21	1590			.84	17.25
3	180	330	1700	150	1	18	1520			.72	17.6
3.2	160	300	1700	140	.93	17	1540			.64	17.93
3.4	170	260	1550	90	.6	28	1380			.68	17.75
3.6	150	250	1300	100	.66	23	1150			.6	18.14
3.8	210	270	1200	60	.4	53	990	27	19		17.25
4	90	170	950	80	.53	17	860			.36	21.16
4.2	70	140	900	70	.46	15	830			.28	23.81
4.4	140	160	800	20	.13	105	660	30	13		18.4
4.6	90	150	700	60	.4	23	610			.36	21.16
4.8	80	120	650	40	.26	30	570			.32	22.29
5	100	130	600	30	.2	50	500	25	9		20.3
5.2	140	200	750	60	.4	35	610			.56	18.4
5.4	110	160	700	50	.33	33	590			.44	19.64
5.6	140	200	750	60	.4	35	610			.56	18.4
5.8	260	350	800	90	.6	43	540			1.04	16.72
6	140	220	950	80	.53	26	810			.56	18.4
6.2	260	320	900	60	.4	65	640	29	23		16.72
6.4	140	280	1100	140	.93	15	960			.56	18.4
6.6	340	440	1200	100	.66	51	860	29	28		15.59
6.8	220	380	1100	160	1.06	21	880			.88	17.15
7	320	430	1500	110	.73	44	1180			1.28	15.91
7.2	700	860	1800	160	1.06	66	1100	32	49		9.43
7.4	470	580	2000	110	.73	64	1530	30	37		13.14
7.6	340	560	1700	220	1.46	23	1360			1.36	15.59
7.8	320	520	2200	200	1.33	24	1880			1.28	15.91
8	370	480	2300	110	.73	50	1930	30	30		15.06

letture di campagna / valori derivati

PROFONDITA' [metri]	Rpt [Kg]	Rat [Kg]	Rt [Kg]	Rat-Rpt [Kg]	Ral [Kg/cmq]	Rp/Ral	Rt-Rpt [Kg]	FI [gradi]	Dr [%]	Cu [Kg/cmq]	av [cmq/t]
8.2	520	840	1800	320	2.13	24	1280			2.6	12.2
8.4	350	570	2200	220	1.46	24	1850			1.4	15.42
8.6	390	460	2300	70	.46	84	1910	34	32		14.69
8.8	620	740	2000	120	.8	78	1380	31	45		10.53
9	350	550	2000	200	1.33	26	1650			1.4	15.42
9.2	360	540	2200	180	1.2	30	1840			1.44	15.24
9.4	500	660	2500	160	1.06	47	2000	39	38		12.57
9.6	770	890	2700	120	.8	96	1930	37	52		9.61
9.8	400	620	2400	220	1.46	27	2000			1.6	14.3
10	370	580	2100	210	1.4	26	1730			1.48	15.06

LEGENDA : Rpt = res. totale di punta Rat = res. lat. totale del manicotto + res.totale di punta Rt = res. totale Ral = res. laterale Rp = res. di punta
Rp/Ral = rapporto Begemann FI = angolo di attrito Dr = densita' relativa Cu = coesione utile av = coeff. di compressibilita' volumetrica

8180

		letture di campagna			valori derivati								
Prof.	H2O	Rpt	Rat	Rt	Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20		10	20	30	10	0,07	15	20			0,05	107,97	Argilla
0,40		30	40	70	10	0,07	45	40			0,15	41,81	Limo sabbioso
0,60		80	110	250	30	0,20	40	170			0,40	22,29	Limo sabbioso
0,80		260	310	370	50	0,33	78	110	29	23		16,72	Sabbia
1,00		360	500	890	140	0,93	39	530			1,44	15,24	Limo sabbioso
1,20		620	770	810	150	1,00	62	190	36	45		10,53	Sabbia limosa
1,40		480	610	1180	130	0,87	55	700	36	37		12,95	Sabbia limosa
1,60		380	670	1150	290	1,93	20	770			1,52	14,87	Argilla
1,80		500	820	1210	320	2,13	23	710			1,67	12,57	Argilla
2,00		570	950	1310	380	2,53	23	740			1,90	11,33	Argilla
2,20		580	1010	1220	430	2,87	20	640			1,93	11,16	Argilla
2,40		430	630	1290	200	1,33	32	860			1,43		Limo
2,60		810	1310	1620	500	3,33	24	810			2,70	8,20	Argilla
2,80		1020	1400	2020	380	2,53	40	1000			3,40	6,53	Limo sabbioso
3,00		1640	2020	3200	380	2,53	65	1560	41	75		4,06	Sabbia
3,20		1670	2100	5720	430	2,87	58	4050	42	76		3,99	Sabbia limosa
3,40													
3,60													
3,80													
4,00													

8183

Prof	N	Rd	ø	Dr	Cu	mv
0.1	4	14.7	.	.	0.3	9.0
0.2	10	36.7	.	.	0.7	3.6
0.3	7	25.7	.	.	0.5	5.1
0.4	6	22.0	.	.	0.4	6.0
0.5	7	25.7	.	.	0.5	5.1
0.6	10	36.7	.	.	0.7	3.6
0.7	11	40.3	.	.	0.7	3.3
0.8	12	44.0	.	.	0.8	3.0
0.9	14	51.3	.	.	0.9	2.6
1.0	12	41.9	.	.	0.8	3.0
1.1	9	31.5	.	.	0.6	4.0
1.2	6	21.0	.	.	0.4	6.0
1.3	11	38.4	.	.	0.7	3.3
1.4	19	66.4	32	99	.	1.9
1.5	17	59.4	31	99	.	2.1
1.6	9	31.5	.	.	0.6	4.0
1.7	6	21.0	.	.	0.4	6.0
1.8	7	24.5	.	.	0.5	5.1
1.9	11	38.4	.	.	0.7	3.3
2.0	12	40.1	.	.	0.8	3.0
2.1	19	63.5	.	.	1.3	1.9
2.2	17	56.8	.	.	1.1	2.1
2.3	16	53.4	.	.	1.1	2.3
2.4	15	50.1	.	.	1.0	2.4
2.5	16	53.4	.	.	1.1	2.3
2.6	15	50.1	.	.	1.0	2.4
2.7	14	46.8	.	.	0.9	2.6
2.8	12	40.1	.	.	0.8	3.0
2.9	9	30.1	.	.	0.6	4.0
3.0	10	32.0	.	.	0.7	3.6
3.1	12	38.4	.	.	0.8	3.0
3.2	12	38.4	.	.	0.8	3.0
3.3	14	44.8	.	.	0.9	2.6
3.4	93	265.4	50	99	.	0.4
3.5	103	329.3	54	99	.	0.3
3.6	60	191.8	45	99	.	0.6
3.7	33	105.5	37	99	.	1.1
3.8	28	89.5	35	99	.	1.3
3.9	21	67.1	.	.	1.4	1.7
4.0	20	61.3	.	.	1.3	1.8
4.1	19	58.3	.	.	1.3	1.9
4.2	17	52.1	.	.	1.1	2.1
4.3	15	46.0	.	.	1.0	2.4
4.4	13	39.9	.	.	0.9	2.8
4.5	16	49.1	.	.	1.1	2.3
4.6	19	58.3	.	.	1.3	1.9
4.7	24	73.6	34	95	.	1.5
4.8	27	82.8	35	98	.	1.3
4.9	29	88.9	36	99	.	1.2
5.0	19	56.0	.	.	1.3	1.9

Prof	N	Rd	ø	Dr	Cu	mv
5.1	14	39.7	.	.	0.9	2.6
5.2	13	35.5	.	.	0.9	2.8
5.3	12	31.6	.	.	0.8	3.0
5.4	17	43.3	.	.	1.1	2.1
5.5	22	54.2	33	89	.	1.6
5.6	38	90.6	39	99	.	0.9
5.7	44	101.7	41	99	.	0.8
5.8	31	69.5	37	99	.	1.2
5.9	19	41.4	.	.	1.3	1.9
6.0	17	36.0	.	.	1.1	2.1
6.1	28	57.6	.	.	1.9	1.3
6.2	49	98.1	42	99	.	0.7
6.3	121	236.0	58	99	.	0.3

8184

Prof	N	Rd	ø	Dr	Cu	mv
0.1	3	11.0	.	.	0.2	12.0
0.2	3	11.0	.	.	0.2	12.0
0.3	3	11.0	.	.	0.2	12.0
0.4	3	11.0	.	.	0.2	12.0
0.5	3	11.0	.	.	0.2	12.0
0.6	4	14.7	.	.	0.3	9.0
0.7	7	25.7	.	.	0.5	5.1
0.8	11	40.3	.	.	0.7	3.3
0.9	21	77.0	33	99	.	1.7
1.0	31	108.3	37	99	.	1.2
1.1	41	143.3	40	99	.	0.9
1.2	43	150.3	40	99	.	0.8
1.3	29	101.4	36	99	.	1.2
1.4	26	90.9	35	99	.	1.4
1.5	22	76.9	.	.	1.5	1.6
1.6	20	69.9	.	.	1.3	1.8
1.7	19	66.4	.	.	1.3	1.9
1.8	18	62.9	.	.	1.2	2.0
1.9	14	48.9	.	.	0.9	2.6
2.0	11	36.7	.	.	0.7	3.3
2.1	14	46.8	.	.	0.9	2.6
2.2	15	50.1	.	.	1.0	2.4
2.3	17	56.8	.	.	1.1	2.1
2.4	14	46.8	.	.	0.9	2.6
2.5	17	56.8	.	.	1.1	2.1
2.6	35	116.9	38	99	.	1.0
2.7	35	116.9	38	99	.	1.0
2.8	46	153.6	41	99	.	0.8
2.9	23	76.8	.	.	1.5	1.6
3.0	24	76.7	.	.	1.6	1.5
3.1	45	143.9	41	99	.	0.8
3.2	28	89.5	35	99	.	1.3
3.3	22	70.3	.	.	1.5	1.6
3.4	16	51.2	.	.	1.1	2.3
3.5	23	73.5	.	.	1.5	1.6
3.6	15	48.0	.	.	1.0	2.4
3.7	12	38.4	.	.	0.8	3.0
3.8	19	60.7	.	.	1.3	1.9
3.9	11	35.2	.	.	0.7	3.3
4.0	43	131.9	40	99	.	0.8
4.1	22	67.5	.	.	1.5	1.6
4.2	24	73.6	.	.	1.6	1.5
4.3	19	58.3	.	.	1.3	1.9
4.4	17	52.1	.	.	1.1	2.1
4.5	22	67.5	.	.	1.5	1.6
4.6	17	52.1	.	.	1.1	2.1
4.7	15	46.0	.	.	1.0	2.4
4.8	16	49.1	.	.	1.1	2.3
4.9	20	61.3	.	.	1.3	1.8
5.0	26	76.6	35	96	.	1.4
5.1	27	76.5	35	97	.	1.3
5.2	24	65.6	.	.	1.6	1.5
5.3	23	60.6	.	.	1.5	1.6
5.4	20	50.9	.	.	1.3	1.8
5.5	24	59.1	.	.	1.6	1.5
5.6	49	116.8	42	99	.	0.7
5.7	87	201.0	51	99	.	0.4
5.8	32	71.7	.	.	2.1	1.1
5.9	22	47.9	.	.	1.5	1.6
6.0	30	63.5	36	97	.	1.2
6.1	22	45.3	33	88	.	1.6
6.2	48	96.1	42	99	.	0.8
6.3	95	185.3	53	99	.	0.4
6.4	78	148.3	49	99	.	0.5
6.5	42	77.9	40	99	.	0.9
6.6	22	39.8	.	.	1.5	1.6
6.7	18	31.8	.	.	1.2	2.0
6.8	12	20.7	.	.	0.8	3.0
6.9	11	18.6	.	.	0.7	3.3
7.0	14	23.1	.	.	0.9	2.6
7.1	17	27.4	.	.	1.1	2.1
7.2	28	44.2	35	92	.	1.3
7.3	33	51.1	37	97	.	1.1
7.4	20	30.3	.	.	1.3	1.8
7.5	18	26.8	.	.	1.2	2.0
7.6	19	27.7	.	.	1.3	1.9
7.7	74	105.8	48	99	.	0.5
7.8	117	164.1	57	99	.	0.3

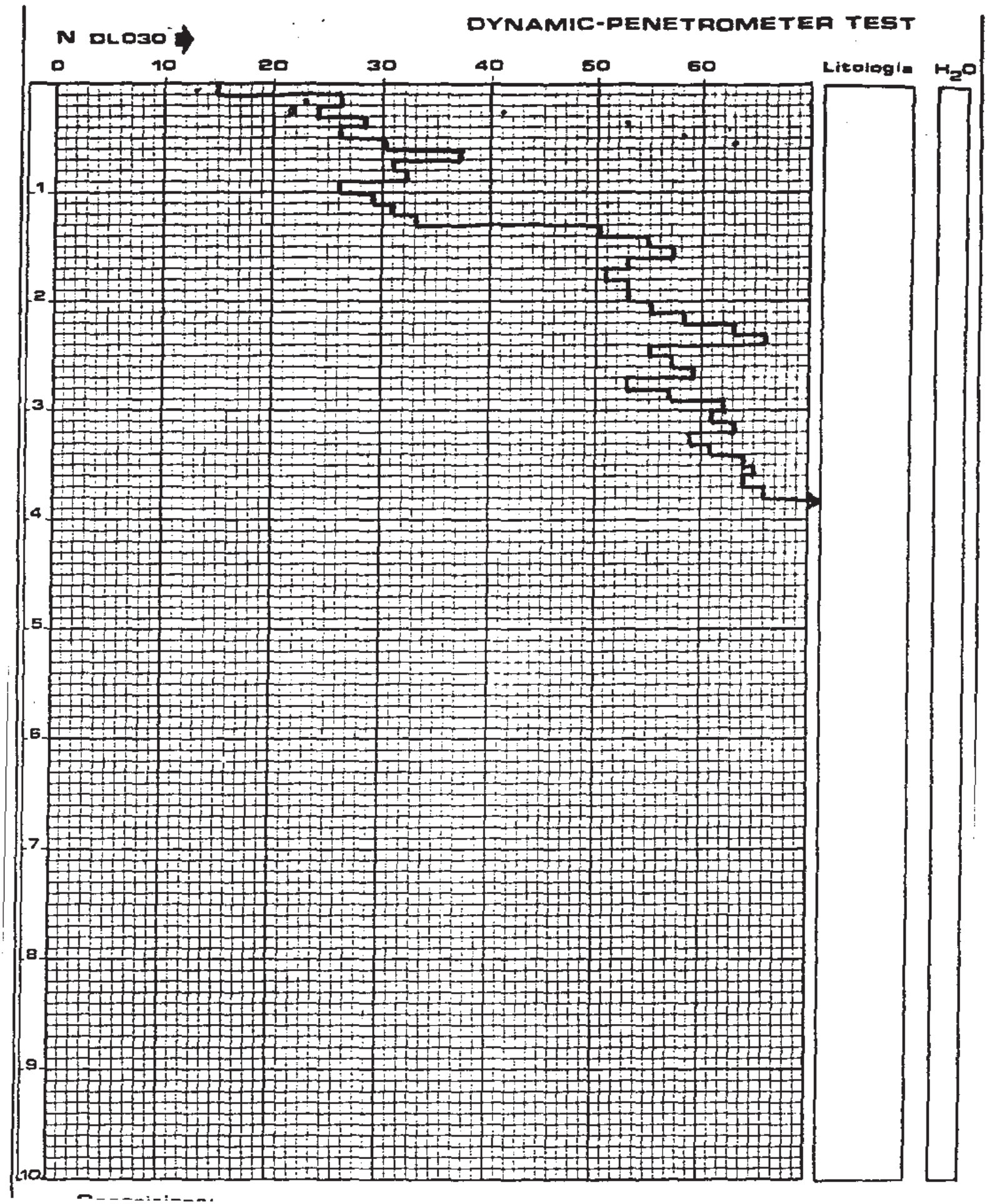
8187

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	1	4	3.10	12	33
0.20	3	11	3.20	12	33
0.30	3	11	3.30	13	35
0.40	4	15	3.40	17	46
0.50	3	11	3.50	18	49
0.60	3	11	3.60	18	49
0.70	3	11	3.70	13	35
0.80	7	25	3.80	17	46
0.90	8	29	3.90	29	78
1.00	7	25	4.00	33	89
1.10	6	20	4.10	45	113
1.20	5	16	4.20	40	101
1.30	6	20	4.30	48	121
1.40	8	26	4.40	54	136
1.50	10	33	4.50	70	176
1.60	13	42	4.60	57	142
1.70	13	42	4.70	98	245
1.80	10	32	4.80	103	257
1.90	8	26	4.90	60	150
2.00	7	23	5.00	39	97
2.10	9	27	5.10	42	98
2.20	8	24	5.20	48	112
2.30	10	30	5.30	46	108
2.40	9	27	5.40	61	143
2.50	11	33	5.50	59	138
2.60	10	29	5.60	74	172
2.70	11	32	5.70	68	158
2.80	10	29	5.80	52	121
2.90	9	26	5.90	107	249
3.00	11	32	6.00	Rif.	Rif.

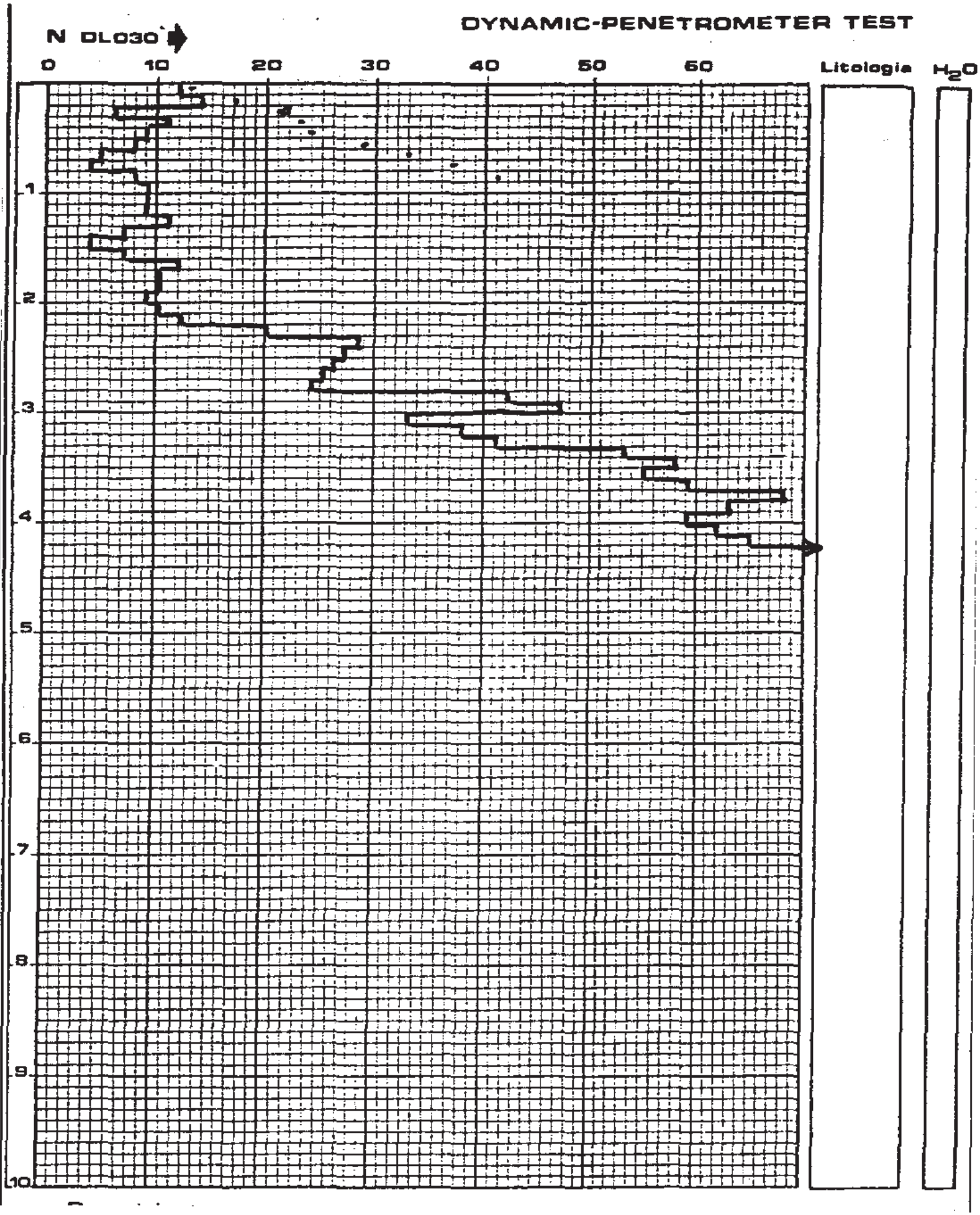
8188

PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².	PROFONDITA' IN M.	N. COLPI ogni 10 cm.	RES. ROT. DIN. PUNTA Kg/cm².
0.10	11	40	3.10	12	33
0.20	12	44	3.20	9	25
0.30	11	40	3.30	12	33
0.40	8	29	3.40	12	33
0.50	4	15	3.50	15	41
0.60	5	18	3.60	15	41
0.70	6	21	3.70	14	38
0.80	8	29	3.80	16	43
0.90	6	21	3.90	29	78
1.00	4	14	4.00	41	111
1.10	4	13	4.10	80	202
1.20	5	16	4.20	89	224
1.30	5	16	4.30	66	166
1.40	5	16	4.40	55	139
1.50	7	23	4.50	57	144
1.60	6	19	4.60	32	80
1.70	8	26	4.70	34	85
1.80	9	29	4.80	48	120
1.90	9	29	4.90	54	135
2.00	8	26	5.00	59	147
2.10	8	24	5.10	51	120
2.20	9	27	5.20	47	110
2.30	9	27	5.30	53	124
2.40	8	24	5.40	84	197
2.50	8	24	5.50	79	185
2.60	8	23	5.60	50	116
2.70	8	23	5.70	38	88
2.80	11	32	5.80	32	74
2.90	11	32	5.90	90	209
3.00	11	32	6.00	129	300

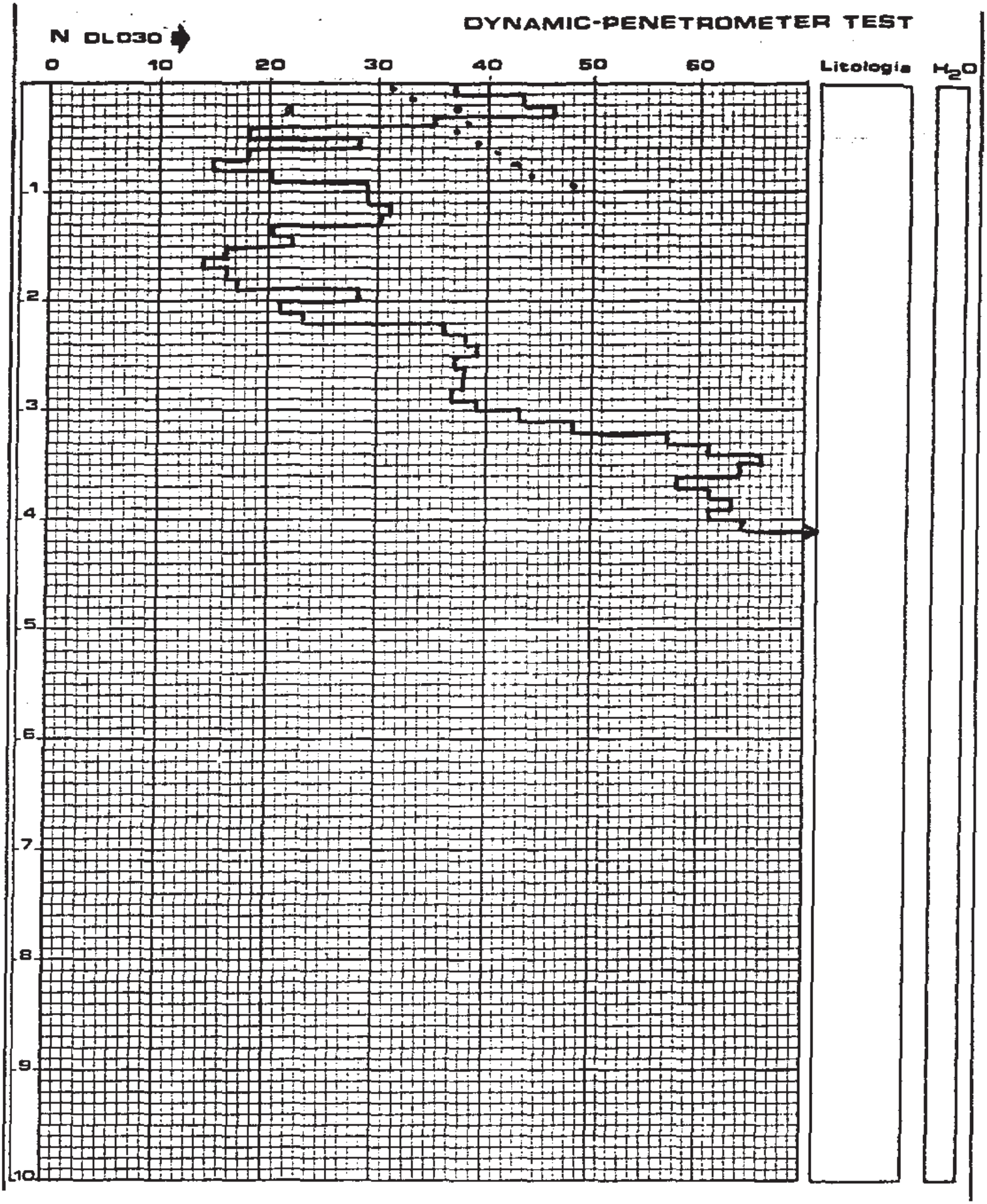
8191


DYNAMIC-PENETROMETER TEST
N DL030
0
10
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60
Litologia
H_2O
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3
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10

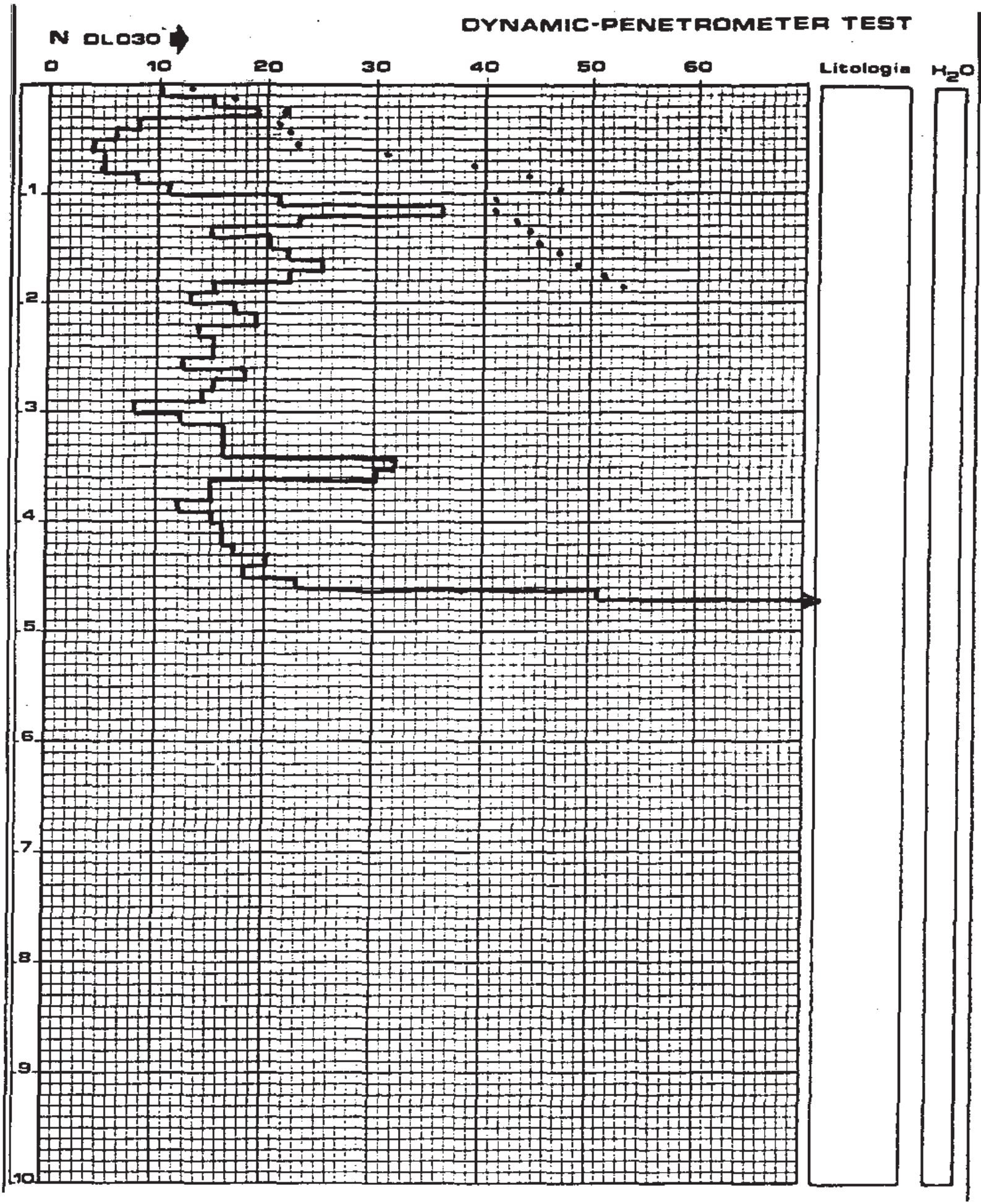
8192


DYNAMIC-PENETROMETER TEST
N DL030
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Litologia
H_2O
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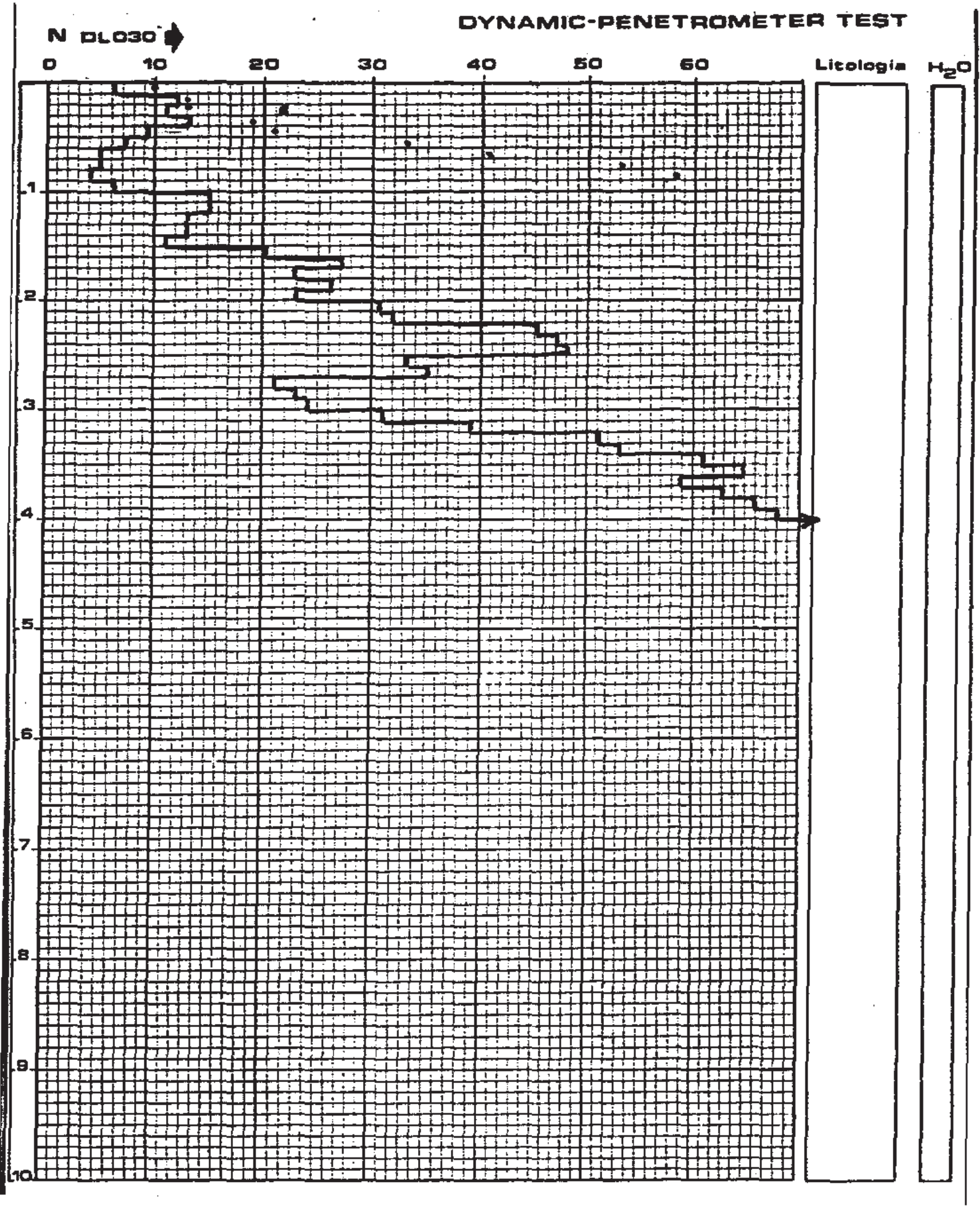
8193


DYNAMIC-PENETROMETER TEST
N DL030
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Litologia
H_2O
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8194


DYNAMIC-PENETROMETER TEST
N OL030
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Litologia
H_2O
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8195


DYNAMIC-PENETROMETER TEST
N DL030
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Litologia
H_2O
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8196

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	63	70	0.47	134.04										
0.40	33	51	1.20	27.50										
0.60	19	29	0.67	28.36										
0.80	13	19	0.40	32.50										
1.00	17	29	0.80	21.25										
1.20	15	24	0.60	25.00										
1.40	24	35	0.73	32.88										
1.60	27	34	0.47	57.45										
1.80	36	44	0.53	67.92										
2.00	23	33	0.67	34.33										
2.20	12	17	0.33	36.36										
2.40	12	16	0.27	44.44										
2.60	12	18	0.40	30.00										
2.80	12	17	0.33	36.36										
3.00	15	22	0.47	31.91										
3.20	13	18	0.33	39.39										
3.40	13	19	0.40	32.50										
3.60	13	17	0.27	48.15										
3.80	18	25	0.47	38.30										
4.00	24	39	1.00	24.00										
4.20	29	55	1.73	16.76										
4.40	21	43	1.47	14.29										
4.60	12	25	0.87	13.79										
4.80	14	22	0.53	26.42										
5.00	11	19	0.53	20.75										
5.20	12	18	0.40	30.00										
5.40	16	23	0.47	34.04										
5.60	18	25	0.47	38.30										
5.80	18	26	0.53	33.96										
6.00	20	31	0.73	27.40										
6.20	23	37	0.93	24.73										
6.40	19	32	0.87	21.84										
6.60	17	29	0.80	21.25										
6.80	17	28	0.73	23.29										
7.00	19	32	0.87	21.84										
7.20	18	35	1.13	15.93										
7.40	16	30	0.93	17.20										
7.60	10	20	0.67	14.93										
7.80	8	11	0.20	40.00										
8.00	10	13	0.20	50.00										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE cm. FS = RESISTENZA SPECIFICA AL MANICOTTO daN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA daN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE LOCALE daN/cmq

LITOLOGIA : T=TORBE A=ARGILLE LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIE AG=COPERTURA SUPERFICIALE

Eurosonda 89 12 A 240

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	52	81	1.93	26.94										
0.40	22	40	1.20	18.33										
0.60	17	26	0.60	28.33										
0.80	15	23	0.53	28.30										
1.00	19	33	0.93	20.43										
1.20	18	27	0.60	30.00										
1.40	23	35	0.80	28.75										
1.60	28	37	0.60	46.67										
1.80	35	46	0.73	47.95										
2.00	25	37	0.80	31.25										
2.20	14	19	0.33	42.42										
2.40	15	19	0.27	55.56										
2.60	13	18	0.33	39.39										
2.80	13	17	0.27	48.15										
3.00	16	25	0.60	26.67										
3.20	16	21	0.33	48.48										
3.40	15	21	0.40	37.50										
3.60	14	19	0.33	42.42										
3.80	20	28	0.53	37.74										
4.00	26	41	1.00	26.00										
4.20	31	58	1.80	17.22										
4.40	23	46	1.53	15.03										
4.60	15	26	0.73	20.55										
4.80	15	23	0.53	28.30										
5.00	13	21	0.53	24.53										
5.20	13	20	0.47	27.66										
5.40	18	26	0.53	33.96										
5.60	17	25	0.53	32.08										
5.80	19	25	0.40	47.50										
6.00	23	33	0.67	34.33										
6.20	25	38	0.87	28.74										
6.40	20	35	1.00	20.00										
6.60	19	30	0.73	26.03										
6.80	18	29	0.73	24.66										
7.00	20	32	0.80	25.00										
7.20	23	39	1.07	21.50										
7.40	19	32	0.87	21.84										
7.60	12	24	0.80	15.00										
7.80	10	14	0.27	37.04										
8.00	8	12	0.27	29.63										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

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Prof	N	Rd	ø	Dr	Cu	mv
0.1	5	18.3	24	99	.	7.2
0.2	11	40.3	28	99	.	3.3
0.3	16	58.7	30	99	.	2.3
0.4	24	88.0	34	99	.	1.5
0.5	32	117.3	37	99	.	1.1
0.6	36	132.0	38	99	.	1.0
0.7	24	88.0	.	.	1.6	1.5
0.8	26	95.3	.	.	1.7	1.4
0.9	26	95.3	.	.	1.7	1.4
1.0	22	76.9	.	.	1.5	1.6
1.1	23	80.4	.	.	1.5	1.6
1.2	24	83.9	.	.	1.6	1.5
1.3	16	55.9	.	.	1.1	2.3
1.4	14	48.9	.	.	0.9	2.6
1.5	23	80.4	.	.	1.5	1.6
1.6	22	76.9	.	.	1.5	1.6
1.7	23	80.4	.	.	1.5	1.6
1.8	23	80.4	.	.	1.5	1.6
1.9	22	76.9	.	.	1.5	1.6
2.0	26	86.8	.	.	1.7	1.4
2.1	18	60.1	.	.	1.2	2.0
2.2	7	23.4	.	.	0.5	5.1
2.3	6	20.0	.	.	0.4	6.0
2.4	5	16.7	.	.	0.3	7.2
2.5	4	13.4	.	.	0.3	9.0
2.6	5	16.7	.	.	0.3	7.2
2.7	7	23.4	.	.	0.5	5.1
2.8	8	26.7	.	.	0.5	4.5
2.9	6	20.0	.	.	0.4	6.0
3.0	6	19.2	.	.	0.4	6.0
3.1	7	22.4	.	.	0.5	5.1
3.2	4	12.8	.	.	0.3	9.0
3.3	4	12.8	.	.	0.3	9.0
3.4	5	16.0	.	.	0.3	7.2
3.5	5	16.0	.	.	0.3	7.2
3.6	4	12.8	.	.	0.3	9.0
3.7	3	9.6	.	.	0.2	12.0
3.8	3	9.6	.	.	0.2	12.0
3.9	3	9.6	.	.	0.2	12.0
4.0	2	6.1	.	.	0.1	18.0
4.1	4	12.3	.	.	0.3	9.0
4.2	3	9.2	.	.	0.2	12.0
4.3	4	12.3	.	.	0.3	9.0
4.4	3	9.2	.	.	0.2	12.0
4.5	3	9.2	.	.	0.2	12.0
4.6	3	9.2	.	.	0.2	12.0
4.7	4	12.3	.	.	0.3	9.0
4.8	4	12.3	.	.	0.3	9.0
4.9	5	15.3	.	.	0.3	7.2
5.0	8	23.6	.	.	0.5	4.5

Prof	N	Rd	ø	Dr	Cu	mv
5.1	8	22.7	.	.	0.5	4.5
5.2	8	21.9	.	.	0.5	4.5
5.3	9	23.7	.	.	0.6	4.0
5.4	7	17.8	.	.	0.5	5.1
5.5	7	17.2	.	.	0.5	5.1
5.6	6	14.3	.	.	0.4	6.0
5.7	7	16.2	.	.	0.5	5.1
5.8	6	13.4	.	.	0.4	6.0
5.9	5	10.9	.	.	0.3	7.2
6.0	10	21.2	.	.	0.7	3.6
6.1	11	22.6	.	.	0.7	3.3
6.2	9	18.0	.	.	0.6	4.0
6.3	9	17.6	.	.	0.6	4.0
6.4	8	15.2	.	.	0.5	4.5
6.5	10	18.5	.	.	0.7	3.6
6.6	13	23.5	29	64	.	2.8
6.7	17	30.8	31	72	.	2.1
6.8	33	57.0	37	92	.	1.1
6.9	43	72.5	40	99	.	0.8
7.0	31	51.1	37	89	.	1.2
7.1	39	63.0	39	96	.	0.9
7.2	34	53.7	38	92	.	1.1
7.3	33	51.1	37	91	.	1.1
7.4	34	51.6	38	92	.	1.1
7.5	38	56.5	39	95	.	0.9
7.6	28	40.8	35	85	.	1.3
7.7	30	42.9	36	87	.	1.2
7.8	22	30.9	33	78	.	1.6
7.9	18	24.8	31	72	.	2.0
8.0	24	32.5	34	80	.	1.5
8.1	53	70.4	43	99	.	0.7
8.2	42	54.8	40	97	.	0.9
8.3	27	34.6	35	83	.	1.3
8.4	20	25.2	.	.	1.3	1.8
8.5	17	21.1	.	.	1.1	2.1
8.6	16	19.5	.	.	1.1	2.3
8.7	18	21.6	.	.	1.2	2.0
8.8	16	18.9	.	.	1.1	2.3
8.9	17	19.8	.	.	1.1	2.1
9.0	20	22.9	.	.	1.3	1.8
9.1	19	21.4	.	.	1.3	1.9
9.2	20	22.2	.	.	1.3	1.8
9.3	14	15.3	.	.	0.9	2.6
9.4	9	9.7	.	.	0.6	4.0
9.5	11	11.7	.	.	0.7	3.3
9.6	10	10.5	.	.	0.7	3.6
9.7	7	7.2	.	.	0.5	5.1
9.8	8	8.2	.	.	0.5	4.5
9.9	9	9.1	.	.	0.6	4.0
10.0	11	10.9	.	.	0.7	3.3

Prof	N	Rd	ø	Dr	Cu	mv
10.1	9	22.2	.	.	0.6	4.0
10.2	8	19.7	.	.	0.5	4.5
10.3	7	17.2	.	.	0.5	5.1
10.4	16	39.4	30	65	.	2.3
10.5	29	71.4	36	82	.	1.2
10.6	84	206.8	50	99	.	0.4
10.7	103	253.6	54	99	.	0.3
10.8	91	224.1	52	99	.	0.4
10.9	76	187.1	49	99	.	0.5
11.0	109	259.9	55	99	.	0.3

Prof	N	Rd	ø	Dr	Cu	mv

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Prof	N	Rd	ø	Dr	Cu	mv
0.1	4	14.7	23	99	.	9.0
0.2	5	18.3	24	94	.	7.2
0.3	8	29.3	26	99	.	4.5
0.4	13	47.7	29	99	.	2.8
0.5	46	168.6	41	99	.	0.8
0.6	60	220.0	45	99	.	0.6
0.7	35	128.3	38	99	.	1.0
0.8	21	77.0	33	99	.	1.7
0.9	17	62.3	.	.	1.1	2.1
1.0	21	73.4	.	.	1.4	1.7
1.1	19	66.4	.	.	1.3	1.9
1.2	17	59.4	.	.	1.1	2.1
1.3	19	66.4	.	.	1.3	1.9
1.4	13	45.4	.	.	0.9	2.8
1.5	15	52.4	.	.	1.0	2.4
1.6	16	55.9	.	.	1.1	2.3
1.7	16	55.9	.	.	1.1	2.3
1.8	15	52.4	.	.	1.0	2.4
1.9	9	31.5	.	.	0.6	4.0
2.0	11	36.7	.	.	0.7	3.3
2.1	10	33.4	.	.	0.7	3.6
2.2	8	26.7	.	.	0.5	4.5
2.3	10	33.4	.	.	0.7	3.6
2.4	7	23.4	.	.	0.5	5.1
2.5	9	30.1	.	.	0.6	4.0
2.6	8	26.7	.	.	0.5	4.5
2.7	13	43.4	.	.	0.9	2.8
2.8	13	43.4	.	.	0.9	2.8
2.9	9	30.1	.	.	0.6	4.0
3.0	10	32.0	.	.	0.7	3.6
3.1	10	32.0	.	.	0.7	3.6
3.2	11	35.2	.	.	0.7	3.3
3.3	10	32.0	.	.	0.7	3.6
3.4	11	35.2	.	.	0.7	3.3
3.5	12	38.4	.	.	0.8	3.0
3.6	12	38.4	.	.	0.8	3.0
3.7	12	38.4	.	.	0.8	3.0
3.8	13	41.6	.	.	0.9	2.8
3.9	13	41.6	.	.	0.9	2.8
4.0	9	27.6	.	.	0.6	4.0
4.1	8	24.5	.	.	0.5	4.5
4.2	7	21.5	.	.	0.5	5.1
4.3	7	21.5	.	.	0.5	5.1
4.4	8	24.5	.	.	0.5	4.5
4.5	11	33.7	.	.	0.7	3.3
4.6	14	42.9	.	.	0.9	2.6
4.7	13	39.9	.	.	0.9	2.8
4.8	10	30.7	.	.	0.7	3.6
4.9	6	18.4	.	.	0.4	6.0
5.0	6	17.7	.	.	0.4	6.0
5.1	7	19.8	.	.	0.5	5.1
5.2	6	16.4	.	.	0.4	6.0
5.3	7	18.4	.	.	0.5	5.1
5.4	10	25.5	.	.	0.7	3.6
5.5	11	27.1	.	.	0.7	3.3
5.6	9	21.5	.	.	0.6	4.0
5.7	10	23.1	.	.	0.7	3.6
5.8	13	29.1	.	.	0.9	2.8
5.9	10	21.8	.	.	0.7	3.6
6.0	9	19.0	.	.	0.6	4.0
6.1	10	20.6	.	.	0.7	3.6
6.2	11	22.0	.	.	0.7	3.3
6.3	13	25.4	.	.	0.9	2.8
6.4	14	26.6	.	.	0.9	2.6
6.5	13	24.1	.	.	0.9	2.8
6.6	16	28.9	.	.	1.1	2.3
6.7	21	37.1	33	80	.	1.7
6.8	32	55.2	37	92	.	1.1
6.9	45	75.9	41	99	.	0.8
7.0	57	94.0	44	99	.	0.6
7.1	43	69.4	40	99	.	0.8
7.2	40	63.2	39	98	.	0.9
7.3	45	69.6	41	99	.	0.8
7.4	33	50.0	37	92	.	1.1
7.5	29	43.1	36	88	.	1.2
7.6	28	40.8	35	87	.	1.3
7.7	33	47.2	37	91	.	1.1
7.8	39	54.7	39	96	.	0.9
7.9	34	46.8	38	92	.	1.1
8.0	46	62.2	41	99	.	0.8
8.1	50	66.4	42	99	.	0.7
8.2	49	64.0	42	99	.	0.7
8.3	33	42.3	37	90	.	1.1
8.4	30	37.8	36	87	.	1.2
8.5	18	22.3	.	.	1.2	2.0
8.6	16	19.5	.	.	1.1	2.3
8.7	19	22.8	.	.	1.3	1.9
8.8	21	24.8	.	.	1.4	1.7
8.9	22	25.6	.	.	1.5	1.6
9.0	17	19.5	.	.	1.1	2.1
9.1	18	20.3	.	.	1.2	2.0
9.2	22	24.5	.	.	1.5	1.6
9.3	20	21.9	.	.	1.3	1.8
9.4	16	17.3	.	.	1.1	2.3
9.5	12	12.8	.	.	0.8	3.0
9.6	10	10.5	.	.	0.7	3.6
9.7	11	11.4	.	.	0.7	3.3
9.8	8	8.2	.	.	0.5	4.5
9.9	9	9.1	.	.	0.6	4.0
10.0	10	9.9	.	.	0.7	3.6

Prof	N	Rd	ø	Dr	Cu	mv
10.1	9	22.2	.	.	0.6	4.0
10.2	12	29.5	.	.	0.8	3.0
10.3	15	36.9	.	.	1.0	2.4
10.4	18	44.3	.	.	1.2	2.0
10.5	24	59.1	34	78	.	1.5
10.6	37	91.1	39	91	.	1.0
10.7	58	142.8	44	99	.	0.6
10.8	93	229.0	52	99	.	0.4
10.9	77	189.6	49	99	.	0.5
11.0	89	212.2	52	99	.	0.4

Prof	N	Rd	ø	Dr	Cu	mv

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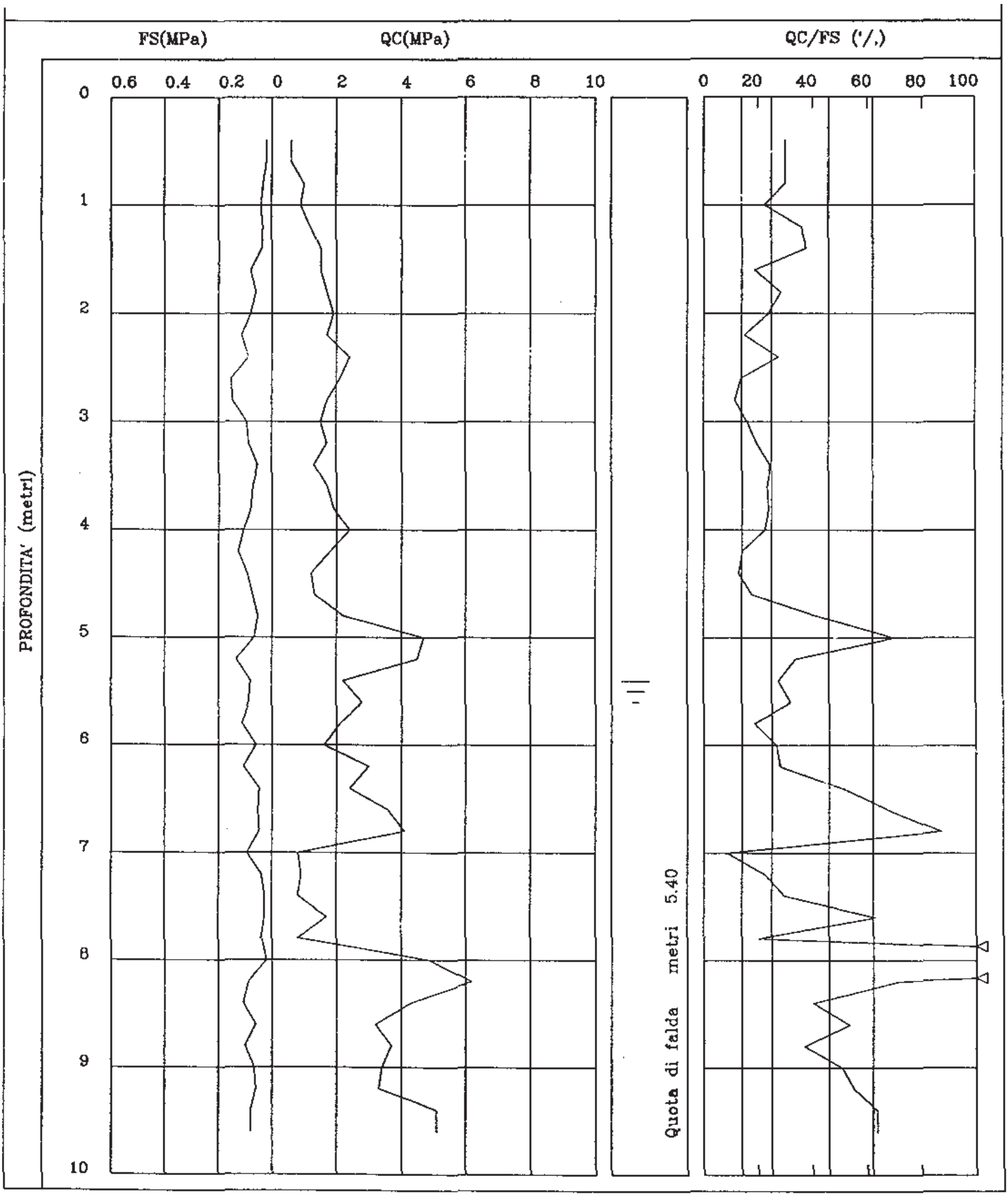
	A	B	C	D	E	F
1	Profondità (m)	Numero colpi	Rd (kg/cmq)	Profondità (m)	Numero colpi	Rd (kg/cmq)
2	0,10	0,2	0,74	4,60	7	21,72
3	0,20	0,2	0,74	4,70	8	24,83
4	0,30	0,2	0,74	4,80	10	31,03
5	0,40	0,2	0,74	4,90	7	21,72
6	0,50	2	7,44	5,00		0,00
7	0,60	2	7,44	5,10		0,00
8	0,70	3	11,16	5,20		0,00
9	0,80	2	7,44	5,30		0,00
10	0,90	4	14,88	5,40		0,00
11	1,00	4	14,17	5,50		0,00
12	1,10	2	7,09	5,60		0,00
13	1,20	3	10,63	5,70		0,00
14	1,30	3	10,63	5,80		0,00
15	1,40	4	14,17	5,90		0,00
16	1,50	3	10,63	6,00		0,00
17	1,60	1	3,54	6,10		0,00
18	1,70	3	10,63	6,20		0,00
19	1,80	3	10,63	6,30		0,00
20	1,90	2	7,09	6,40		0,00
21	2,00	2	6,77	6,50		0,00
22	2,10	2	6,77	6,60		0,00
23	2,20	3	10,15	6,70		0,00
24	2,30	3	10,15	6,80		0,00
25	2,40	5	16,92	6,90		0,00
26	2,50	5	16,92	7,00		0,00
27	2,60	4	13,53	7,10		0,00
28	2,70	6	20,30	7,20		0,00
29	2,80	6	20,30	7,30		0,00
30	2,90	5	16,92	7,40		0,00
31	3,00	4	12,95	7,50		0,00
32	3,10	5	16,19	7,60		0,00
33	3,20	4	12,95	7,70		0,00
34	3,30	4	12,95	7,80		0,00
35	3,40	5	16,19	7,90		0,00
36	3,50	4	12,95	8,00		0,00
37	3,60	6	19,42	8,10		0,00
38	3,70	6	19,42	8,20		0,00
39	3,80	5	16,19	8,30		0,00
40	3,90	5	16,19	8,40		0,00
41	4,00	4	12,41	8,50		0,00
42	4,10	4	12,41	8,60		0,00
43	4,20	5	15,52	8,70		0,00
44	4,30	4	12,41	8,80		0,00
45	4,40	4	12,41	8,90		0,00
46	4,50	5	15,52	9,00		0,00

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Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	100	160	200	10	0.40	25	4.00	.	.	0.50	25.0
0.4	110	220	500	11	0.73	15	6.67	.	.	0.55	18.2
0.6	100	220	500	10	0.80	12	8.00	.	.	0.50	25.0
0.8	110	210	500	11	0.67	16	6.06	.	.	0.55	18.2
1.0	130	240	600	13	0.73	18	5.64	.	.	0.65	15.4
1.2	210	330	800	21	0.80	26	3.81	.	.	1.05	11.9
1.4	200	390	950	20	1.27	16	6.33	.	.	1.00	10.0
1.6	180	400	1100	18	1.47	12	8.15	.	.	0.90	13.9
1.8	200	410	1300	20	1.40	14	7.00	.	.	1.00	10.0
2.0	230	440	1600	23	1.40	16	6.09	.	.	1.15	8.7
2.2	230	500	1800	23	1.80	13	7.83	.	.	1.15	10.0
2.4	200	450	2050	20	1.67	12	8.33	.	.	1.00	12.5
2.6	220	420	2200	22	1.33	16	6.06	.	.	1.10	9.1
2.8	190	370	2300	19	1.20	16	6.32	.	.	0.95	10.5
3.0	130	330	2500	13	1.33	10	10.26	.	.	0.65	15.2
3.2	150	310	2550	15	1.07	14	7.11	.	.	0.75	13.3
3.4	140	250	2650	14	0.73	19	5.24	.	.	0.70	14.3
3.6	150	240	2700	15	0.60	25	4.00	.	.	0.75	16.7
3.8	150	270	2750	15	0.80	19	5.33	.	.	0.75	13.3
4.0	140	230	2850	14	0.60	23	4.29	.	.	0.70	14.3
4.2	180	250	2900	18	0.47	39	2.59	23	22	.	18.5
4.4	130	200	2800	13	1.00	13	7.69	.	.	0.65	15.2
4.6	150	230	2800	15	0.53	28	3.56	.	.	0.75	16.7
4.8	160	220	2800	16	0.40	40	2.50	23	15	.	20.8
5.0	130	200	2800	13	0.47	28	3.59	.	.	0.65	15.2
5.2	90	170	2800	9	0.53	17	5.93	.	.	0.45	22.2
5.4	70	130	2850	7	0.40	17	5.71	.	.	0.35	28.6
5.6	80	110	2800	8	0.20	40	2.50	20	10	.	41.7
5.8	30	70	2800	3	0.27	11	8.89	.	.	0.15	83.3
6.0	40	60	2800	4	0.13	30	3.33	.	.	0.20	62.5
6.2	90	110	2950	9	0.13	67	1.48	23	19	.	55.6
6.4	90	140	3000	9	0.33	27	3.70	.	.	0.45	27.8
6.6	120	160	3050	12	0.27	45	2.22	22	10	.	41.7
6.8	140	220	3100	14	0.53	26	3.81	.	.	0.70	17.9
7.0	160	260	3250	16	0.67	24	4.17	.	.	0.80	12.5
7.2	170	300	3400	17	0.87	20	5.10	.	.	0.85	11.8
7.4	180	320	3500	18	0.93	19	5.19	.	.	0.90	11.1
7.6	130	270	3500	13	0.93	14	7.18	.	.	0.65	15.4
7.8	120	230	3550	12	0.73	16	6.11	.	.	0.60	16.7
8.0	130	210	3550	13	0.53	24	4.10	.	.	0.65	15.4
8.2	130	220	3700	13	0.67	19	5.13	.	.	0.65	15.4
8.4	150	250	3650	15	0.67	22	4.44	.	.	0.75	13.3
8.6	120	220	3600	12	0.67	18	5.36	.	.	0.60	16.7
8.8	110	180	3600	11	0.47	24	4.24	.	.	0.55	18.2
9.0	120	180	3600	12	0.40	30	3.33	.	.	0.60	20.8
9.2	180	280	3700	18	0.67	27	3.79	.	.	0.90	13.9
9.4	170	310	3750	17	0.93	18	5.49	.	.	0.85	11.8
9.6	110	260	3750	11	1.00	11	9.09	.	.	0.55	22.7
9.8	170	250	3800	17	0.33	52	3.14	.	.	0.85	19.6
10.0	150	290	3750	15	0.93	16	6.22	.	.	0.75	13.3

PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [KgF]	parametri geotecnici stimati: Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	6,1	,2	31	90	1,71	,11	-	-	,24	33,0	AL
0.8	6,3	,2	32	140	1,72	,14	-	-	,25	32,2	AL
1.0	10,3	,3	31	240	1,90	,18	-	-	,40	23,0	AL
1.2	9,3	,4	23	290	1,87	,22	-	-	,36	24,4	A
1.4	12,3	,3	37	380	1,66	,25	-	-	,48	19,6	L
1.6	15,3	,4	38	500	1,68	,28	-	-	,60	17,6	L
1.8	15,4	,8	19	580	1,91	,32	-	-	,60	19,6	A
2.0	17,4	,6	29	710	1,92	,36	-	-	,68	19,4	AL
2.2	19,4	,8	24	850	1,93	,40	-	-	,76	19,8	AL
2.4	17,4	1,1	15	1070	1,92	,44	-	-	,68	19,4	A
2.6	24,4	,9	28	1310	1,93	,47	-	-	,96	16,4	L
2.8	21,5	1,5	14	1490	1,93	,51	-	-	,84	18,6	A
3.0	17,5	1,5	12	1650	1,61	,55	-	-	,68	21,2	T
3.2	15,5	,9	17	1780	1,91	,58	-	-	,60	19,6	A
3.4	17,5	,9	20	1870	1,92	,62	-	-	,68	19,4	A
3.6	13,5	,5	25	1960	1,91	,66	-	-	,51	20,3	A
3.8	16,6	,7	23	2080	1,91	,70	-	-	,64	19,4	A
4.0	18,6	,8	23	2230	1,92	,74	-	-	,71	19,6	A
4.2	23,6	1,1	22	2390	1,93	,78	-	-	,91	16,9	A
4.4	17,6	1,3	14	2500	1,92	,81	-	-	,67	19,4	A
4.6	11,6	,9	12	2630	1,55	,84	-	-	,43	31,9	T
4.8	12,7	,7	17	2840	1,91	,88	-	-	,47	20,7	A
5.0	21,7	,5	41	3070	1,71	,92	-	-	,83	15,4	L
5.2	46,7	,7	70	3190	1,83	,95	33	43	-	7,1	SMA
5.4	44,7	1,3	34	3290	1,82	,99	30	-	-	7,5	SL
5.6	21,7	,8	27	3260	1,93	1,01	-	-	,83	18,4	AL
5.8	27,9	,9	32	3170	1,74	1,02	28	-	-	11,9	SL
6.0	20,9	1,1	18	3230	1,92	1,04	-	-	,79	19,1	A
6.2	15,9	,6	27	3390	1,91	1,06	-	-	,59	19,5	AL
6.4	29,9	1,1	28	3350	1,94	1,08	-	-	1,15	13,4	AL
6.6	23,9	,5	51	3570	1,72	1,09	28	17	-	13,9	SS
6.8	36	,5	68	3680	1,78	1,11	31	31	-	9,3	SS
7.0	41	,5	88	3410	1,81	1,12	31	35	-	8,1	SMA
7.2	8	,9	9	3380	1,51	1,13	-	-	,27	42,2	T
7.4	9	,4	23	3370	1,85	1,15	-	-	,31	24,9	A
7.6	8	,3	30	3440	1,80	1,17	-	-	,27	27,0	AL
7.8	17,2	,3	64	3480	1,69	1,18	28	4	-	16,7	SS
8.0	8,2	,4	21	4010	1,81	1,20	-	-	,28	26,5	A
8.2	49,2	,2	246	4180	2,05	1,22	32	40	-	6,8	SMA
8.4	62,2	,9	72	4160	1,91	1,24	33	48	-	5,4	SMA
8.6	43,2	1,1	40	4340	1,82	1,25	30	-	-	7,7	SL
8.8	32,3	,6	54	4270	1,76	1,27	29	24	-	10,3	SS
9.0	37,3	1	37	4280	1,79	1,28	30	-	-	8,9	SL
9.2	34,3	,7	51	4460	1,77	1,30	29	26	-	9,7	SS
9.4	33,3	,6	56	4420	1,77	1,32	29	25	-	10,0	SS
9.6	51,3	,8	64	4450	1,86	1,33	32	39	-	6,5	SMA

8527


FS(MPa)
QC(MPa)
QC/FS (%)
0.6
0.4
0.2
0
2
4
6
8
10
0
20
40
60
80
100
0
1
2
3
4
5
6
7
8
9
10
PROFONDITA' (metri)
Quota di falda metri 5.40

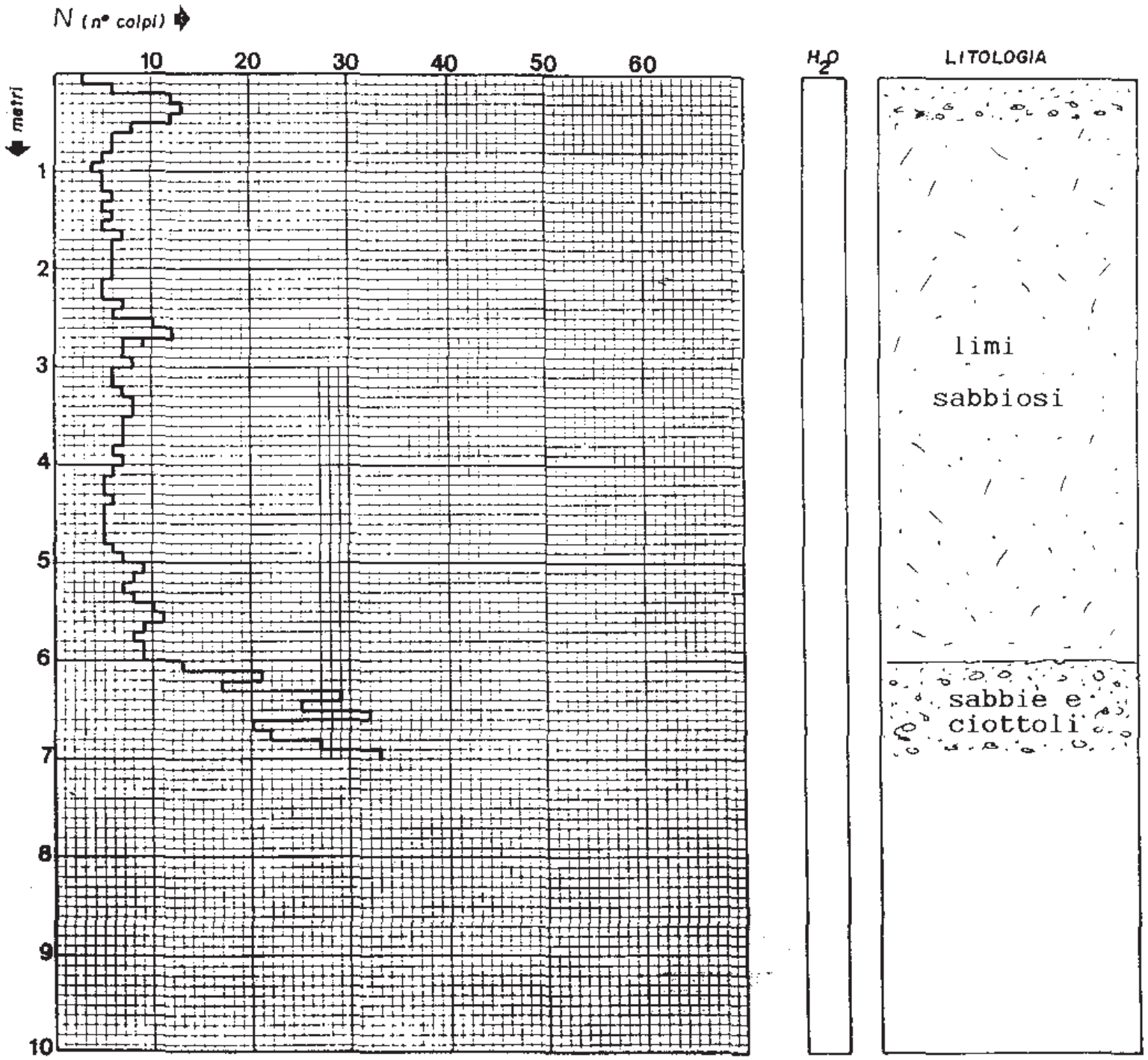
8530

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	78	90	0.80	97.50										
0.40	91	106	1.00	91.00										
0.60	53	60	0.47	112.77										
0.80	20	28	0.53	37.74										
1.00	14	21	0.47	29.79										
1.20	31	40	0.60	51.67										
1.40	36	55	1.27	28.35										
1.60	40	57	1.13	35.40										
1.80	53	84	2.07	25.60										
2.00	60	92	2.13	28.17										
2.20	51	65	0.93	54.84										
2.40	50	81	2.07	24.15										
2.60	38	60	1.47	25.85										
2.80	35	66	2.07	16.91										
3.00	30	45	1.00	30.00										
3.20	29	50	1.40	20.71										
3.40	26	43	1.13	23.01										
3.60	31	60	1.93	16.06										
3.80	35	61	1.73	20.23										
4.00	42	59	1.13	37.17										
4.20	50	73	1.53	32.68										
4.40	47	71	1.60	29.37										
4.60	40	70	2.00	20.00										
4.80	38	63	1.67	22.75										
5.00	56	73	1.13	49.56										
5.20	62	84	1.47	42.18										
5.40	70	96	1.73	40.46										
5.60	83	109	1.73	47.98										
5.80	91	122	2.07	43.96										
6.00	110	147	2.47	44.53										
6.20	131	163	2.13	61.50										
6.40	106	128	1.47	72.11										
6.60	54	89	2.33	23.18										
6.80	39	56	1.13	34.51										
7.00	43	60	1.13	38.05										
7.20	49	73	1.60	30.62										
7.40	57	88	2.07	27.54										
7.60	69	91	1.47	46.94										
7.80	83	100	1.13	73.45										
8.00	100	138	2.53	39.53										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

8531



CARATTERISTICHE STRUMENTALI

P.O.M. – ISSMFE 1988

Maglio: peso = 30 Kg , altezza di caduta = 20 cm – Testata d'infissione: 13 Kg

Aste: peso = 2.9 Kg/m , Ø = 20 mm – Punta: apertura del cono = 60°, sezione = 10 cmq, Ø max = 35.7 mm, altezza della parte cilindrica = 9 mm – Avanzamento = 10 cm

8532

Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	280	600	700	28	2.13	13	7.62	.	.	1.40	8.9
0.4	330	500	900	33	1.13	29	3.43	.	.	1.65	7.6
0.6	410	620	950	41	1.40	29	3.41	.	.	2.05	6.1
0.8	300	500	800	30	1.33	22	4.44	.	.	1.50	6.7
1.0	150	380	700	15	1.53	10	10.22	.	.	0.75	16.7
1.2	130	330	750	13	1.33	10	10.26	.	.	0.65	19.2
1.4	110	250	800	11	0.93	12	8.48	.	.	0.55	22.7
1.6	150	230	850	15	0.53	28	3.56	.	.	0.75	16.7
1.8	190	360	1000	19	1.13	17	5.96	.	.	0.95	10.5
2.0	230	410	1200	23	1.20	19	5.22	.	.	1.15	8.7
2.2	240	500	1550	24	1.73	14	7.22	.	.	1.20	8.3
2.4	210	440	1650	21	1.53	14	7.30	.	.	1.05	9.5
2.6	170	380	1850	17	1.40	12	8.24	.	.	0.85	14.7
2.8	140	280	2000	14	0.93	15	6.67	.	.	0.70	14.3
3.0	110	210	2050	11	0.67	16	6.06	.	.	0.55	18.2
3.2	100	180	2250	10	0.53	19	5.33	.	.	0.50	20.0
3.4	90	130	2500	9	0.27	34	2.96	20	10	.	37.0
3.6	80	120	2800	8	0.27	30	3.33	.	.	0.40	31.3
3.8	100	120	3000	10	0.13	75	1.33	24	10	.	50.0
4.0	120	150	3000	12	0.20	60	1.67	23	10	.	41.7
4.2	140	210	3250	14	0.47	30	3.33	.	.	0.70	17.9
4.4	160	220	3400	16	0.40	40	2.50	23	17	.	20.8
4.6	120	170	3450	12	0.33	36	2.78	22	10	.	27.8
4.8	80	150	3400	8	0.47	17	5.83	.	.	0.40	25.0
5.0	80	120	3200	8	0.27	30	3.33	.	.	0.40	31.3
5.2	90	130	3250	9	0.27	34	2.96	20	10	.	37.0
5.4	40	90	3350	4	0.33	12	8.33	.	.	0.20	62.5
5.6	60	80	3350	6	0.13	45	2.22	20	10	.	83.3
5.8	50	80	3400	5	0.20	25	4.00	.	.	0.25	50.0
6.0	80	100	3450	8	0.13	60	1.67	22	10	.	62.5
6.2	60	100	3500	6	0.27	22	4.44	.	.	0.30	33.3
6.4	50	80	3600	5	0.20	25	4.00	.	.	0.25	50.0
6.6	60	80	3800	6	0.13	45	2.22	20	10	.	83.3
6.8	70	100	4000	7	0.20	35	2.86	20	10	.	47.6
7.0	100	140	4100	10	0.27	37	2.67	20	10	.	33.3
7.2	80	140	4100	8	0.40	20	5.00	.	.	0.40	25.0
7.4	200	240	4250	20	0.27	75	1.33	27	14	.	25.0
7.6	290	360	4300	29	0.47	62	1.61	27	26	.	17.2
7.8	130	180	4200	13	0.33	39	2.56	22	10	.	25.6
8.0	70	140	3900	7	0.47	15	6.67	.	.	0.35	28.6
8.2	60	110	3650	6	0.33	18	5.56	.	.	0.30	33.3
8.4	70	110	3700	7	0.27	26	3.81	.	.	0.35	35.7
8.6	90	130	3800	9	0.27	34	2.96	20	10	.	37.0
8.8	120	180	3800	12	0.40	30	3.33	.	.	0.60	20.8
9.0	60	150	4100	6	0.60	10	10.00	.	.	0.30	41.7
9.2	100	140	4200	10	0.27	37	2.67	20	10	.	33.3
9.4	50	90	4300	5	0.27	19	5.33	.	.	0.25	40.0
9.6	260	300	4400	26	0.27	97	1.03	29	18	.	25.6
9.8	130	180	4400	13	0.33	39	2.56	22	10	.	25.6
10.0	100	160	4350	10	0.40	25	4.00	.	.	0.50	25.0

8533

Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	200	340	400	20	0.93	21	4.67	.	.	1.00	10.0
0.4	220	350	700	22	0.87	25	3.94	.	.	1.10	11.4
0.6	310	430	700	31	0.80	39	2.58	26	79	.	10.8
0.8	120	250	700	12	0.87	14	7.22	.	.	0.60	16.7
1.0	90	200	700	9	0.73	12	8.15	.	.	0.45	27.8
1.2	150	250	950	15	0.67	22	4.44	.	.	0.75	13.3
1.4	130	240	1050	13	0.73	18	5.64	.	.	0.65	15.4
1.6	120	230	1150	12	0.73	16	6.11	.	.	0.60	16.7
1.8	170	260	1300	17	0.60	28	3.53	.	.	0.85	14.7
2.0	210	370	1500	21	1.07	20	5.08	.	.	1.05	9.5
2.2	260	450	1700	26	1.27	21	4.87	.	.	1.30	7.7
2.4	220	400	1900	22	1.20	18	5.45	.	.	1.10	9.1
2.6	150	270	1950	15	0.80	19	5.33	.	.	0.75	13.3
2.8	90	170	2000	9	0.53	17	5.93	.	.	0.45	22.2
3.0	70	120	2000	7	0.33	21	4.76	.	.	0.35	28.6
3.2	80	130	2150	8	0.33	24	4.17	.	.	0.40	25.0
3.4	90	130	2300	9	0.27	34	2.96	20	10	.	37.0
3.6	170	220	2400	17	0.33	51	1.96	24	23	.	29.4
3.8	180	230	2500	18	0.33	54	1.85	24	24	.	27.8
4.0	150	220	2500	15	0.47	32	3.11	.	.	0.75	22.2
4.2	300	370	2550	30	0.47	64	1.56	30	40	.	16.7
4.4	170	290	2500	17	0.80	21	4.71	.	.	0.85	11.8
4.6	130	210	2600	13	0.53	24	4.10	.	.	0.65	15.4
4.8	100	170	2600	10	0.47	21	4.67	.	.	0.50	20.0
5.0	120	180	2600	12	0.40	30	3.33	.	.	0.60	20.8
5.2	110	170	2750	11	0.40	27	3.64	.	.	0.55	22.7
5.4	70	130	2700	7	0.40	17	5.71	.	.	0.35	28.6
5.6	60	100	2800	6	0.27	22	4.44	.	.	0.30	33.3
5.8	60	90	2750	6	0.20	30	3.33	.	.	0.30	41.7
6.0	50	80	2700	5	0.20	25	4.00	.	.	0.25	50.0
6.2	70	100	2850	7	0.20	35	2.86	20	10	.	47.6
6.4	80	120	2950	8	0.27	30	3.33	.	.	0.40	31.3
6.6	70	120	3050	7	0.33	21	4.76	.	.	0.35	28.6
6.8	50	100	3100	5	0.33	15	6.67	.	.	0.25	40.0
7.0	50	80	3100	5	0.20	25	4.00	.	.	0.25	50.0
7.2	70	80	3200	7	0.07	105	0.95	23	10	.	95.2
7.4	50	80	3200	5	0.20	25	4.00	.	.	0.25	50.0
7.6	60	70	3200	6	0.07	90	1.11	22	10	.	111.1
7.8	60	70	3100	6	0.07	90	1.11	22	10	.	111.1
8.0	90	140	3100	9	0.33	27	3.70	.	.	0.45	27.8
8.2	130	160	3200	13	0.20	65	1.54	24	10	.	38.5
8.4	80	160	3100	8	0.53	15	6.67	.	.	0.40	25.0
8.6	70	110	3150	7	0.27	26	3.81	.	.	0.35	35.7
8.8	90	140	3400	9	0.33	27	3.70	.	.	0.45	27.8
9.0	100	180	3400	10	0.53	19	5.33	.	.	0.50	20.0
9.2	100	210	3500	10	0.73	14	7.33	.	.	0.50	20.0
9.4	80	160	3450	8	0.53	15	6.67	.	.	0.40	25.0
9.6	120	180	3600	12	0.40	30	3.33	.	.	0.60	20.8
9.8	130	170	4000	13	0.27	49	2.05	23	10	.	38.5
10.0	330	390	4000	33	0.40	82	1.21	30	25	.	20.2

8534

Prof	Rpt	Rat	Rtot	Rp	Ral	Rp/Ral	Fr	ø	Dr	Cu	mv
0.2	210	290	400	21	0.53	39	2.54	24	90	.	15.9
0.4	740	920	1100	74	1.20	62	1.62	34	99	.	6.8
0.6	570	710	900	57	0.93	61	1.64	32	99	.	8.8
0.8	280	390	700	28	0.73	38	2.62	25	69	.	11.9
1.0	230	370	700	23	0.93	25	4.06	.	.	1.15	10.9
1.2	270	440	800	27	1.13	24	4.20	.	.	1.35	7.4
1.4	120	400	800	12	1.87	6	15.56	.	.	0.60	20.8
1.6	120	240	800	12	0.80	15	6.67	.	.	0.60	16.7
1.8	140	230	900	14	0.60	23	4.29	.	.	0.70	14.3
2.0	200	330	1050	20	0.87	23	4.33	.	.	1.00	10.0
2.2	260	440	1200	26	1.20	22	4.62	.	.	1.30	7.7
2.4	270	480	1400	27	1.40	19	5.19	.	.	1.35	7.4
2.6	180	360	1600	18	1.20	15	6.67	.	.	0.90	11.1
2.8	100	230	1600	10	0.87	12	8.67	.	.	0.50	25.0
3.0	80	130	1550	8	0.33	24	4.17	.	.	0.40	25.0
3.2	110	160	1700	11	0.33	33	3.03	22	10	.	30.3
3.4	100	140	1700	10	0.27	37	2.67	20	10	.	33.3
3.6	130	200	1750	13	0.47	28	3.59	.	.	0.65	19.2
3.8	130	180	1850	13	0.33	39	2.56	22	12	.	25.6
4.0	150	200	1800	15	0.33	45	2.22	23	16	.	33.3
4.2	150	250	2000	15	0.67	22	4.44	.	.	0.75	13.3
4.4	180	250	2000	18	0.47	39	2.59	23	20	.	18.5
4.6	160	250	2050	16	0.60	27	3.75	.	.	0.80	15.6
4.8	90	200	2150	9	0.73	12	8.15	.	.	0.45	27.8
5.0	100	160	2200	10	0.40	25	4.00	.	.	0.50	25.0
5.2	100	160	2250	10	0.40	25	4.00	.	.	0.50	25.0
5.4	100	140	2250	10	0.27	37	2.67	20	10	.	33.3
5.6	70	100	2300	7	0.20	35	2.86	20	10	.	47.6
5.8	60	80	2350	6	0.13	45	2.22	20	10	.	83.3
6.0	60	80	2350	6	0.13	45	2.22	20	10	.	83.3
6.2	80	90	2450	8	0.07	120	0.83	23	10	.	83.3
6.4	50	70	2500	5	0.13	37	2.67	19	10	.	66.7
6.6	60	80	2650	6	0.13	45	2.22	20	10	.	83.3
6.8	70	90	2750	7	0.13	52	1.90	20	10	.	71.4
7.0	80	120	2800	8	0.27	30	3.33	.	.	0.40	31.3
7.2	80	130	2900	8	0.33	24	4.17	.	.	0.40	25.0
7.4	50	100	3100	5	0.33	15	6.67	.	.	0.25	40.0
7.6	40	70	3300	4	0.20	20	5.00	.	.	0.20	50.0
7.8	70	100	3500	7	0.20	35	2.86	20	10	.	47.6
8.0	90	120	3400	9	0.20	45	2.22	20	10	.	55.6
8.2	80	150	3200	8	0.47	17	5.83	.	.	0.40	25.0
8.4	70	100	3100	7	0.20	35	2.86	20	10	.	47.6
8.6	70	100	3050	7	0.20	35	2.86	20	10	.	47.6
8.8	70	120	3250	7	0.33	21	4.76	.	.	0.35	28.6
9.0	120	190	3200	12	0.47	26	3.89	.	.	0.60	20.8
9.2	120	250	3300	12	0.87	14	7.22	.	.	0.60	16.7
9.4	140	260	3400	14	0.80	17	5.71	.	.	0.70	14.3
9.6	90	200	3800	9	0.73	12	8.15	.	.	0.45	27.8
9.8	50	120	3900	5	0.47	11	9.33	.	.	0.25	50.0
10.0	50	80	3900	5	0.20	25	4.00	.	.	0.25	50.0

PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	41	47	0.40	102.50										
0.40	31	39	0.53	58.49										
0.60	25	34	0.60	41.67										
0.80	17	24	0.47	36.17										
1.00	14	20	0.40	35.00										
1.20	13	22	0.60	21.67										
1.40	16	30	0.93	17.20										
1.60	15	30	1.00	15.00										
1.80	17	33	1.07	15.89										
2.00	17	34	1.13	15.04										
2.20	16	31	1.00	16.00										
2.40	14	29	1.00	14.00										
2.60	10	20	0.67	14.93										
2.80	7	13	0.40	17.50										
3.00	7	11	0.27	25.93										
3.20	8	13	0.33	24.24										
3.40	8	12	0.27	29.63										
3.60	13	17	0.27	48.15										
3.80	13	20	0.47	27.66										
4.00	12	18	0.40	30.00										
4.20	10	14	0.27	37.04										
4.40	11	14	0.20	55.00										
4.60	6	8	0.13	46.15										
4.80	4	6	0.13	30.77										
5.00	6	10	0.27	22.22										
5.20	7	11	0.27	25.93										
5.40	5	9	0.27	18.52										
5.60	5	7	0.13	38.46										
5.80	9	11	0.13	69.23										
6.00	6	8	0.13	46.15										
6.20	7	9	0.13	53.85										
6.40	9	13	0.27	33.33										
6.60	8	13	0.33	24.24										
6.80	9	15	0.40	22.50										
7.00	11	18	0.47	23.40										
7.20	10	17	0.47	21.28										
7.40	9	15	0.40	22.50										
7.60	10	14	0.27	37.04										
7.80	9	12	0.20	45.00										
8.00	8	10	0.13	61.54										
8.20	8	10	0.13	61.54										
8.40	14	18	0.27	51.85										
8.60	10	14	0.27	37.04										
8.80	10	15	0.33	30.30										
9.00	10	15	0.33	30.30										
9.20	11	17	0.40	27.50										
9.40	11	17	0.40	27.50										
9.60	9	15	0.40	22.50										
9.80	10	14	0.27	37.04										
10.00	11	18	0.47	23.40										

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS	X
0.20	29	34	0.33	87.88										
0.40	18	24	0.40	45.00										
0.60	17	24	0.47	36.17										
0.80	14	21	0.47	29.79										
1.00	12	17	0.33	36.36										
1.20	12	16	0.27	44.44										
1.40	10	16	0.40	25.00										
1.60	7	14	0.47	14.89										
1.80	9	16	0.47	19.15										
2.00	12	24	0.80	15.00										
2.20	13	28	1.00	13.00										
2.40	13	26	0.87	14.94										
2.60	9	21	0.80	11.25										
2.80	8	15	0.47	17.02										
3.00	7	13	0.40	17.50										
3.20	9	16	0.47	19.15										
3.40	8	15	0.47	17.02										
3.60	5	9	0.27	18.52										
3.80	4	7	0.20	20.00										
4.00	6	9	0.20	30.00										
4.20	14	20	0.40	35.00										
4.40	8	18	0.67	11.94										
4.60	4	8	0.27	14.81										
4.80	8	12	0.27	29.63										
5.00	1	3	0.13	7.69										
5.20	2	4	0.13	15.38										
5.40	4	7	0.20	20.00										
5.60	4	8	0.27	14.81										
5.80	4	8	0.27	14.81										
6.00	6	12	0.40	15.00										
6.20	4	11	0.47	8.51										
6.40	3	6	0.20	15.00										
6.60	2	3	0.07	28.57										
6.80	2	4	0.13	15.38										
7.00	9	10	0.07	128.57										
7.20	5	6	0.07	71.43										
7.40	3	5	0.13	23.08										
7.60	6	10	0.27	22.22										
7.80	8	14	0.40	20.00										
8.00	7	13	0.40	17.50										
8.20	6	11	0.33	18.18										
8.40	4	7	0.20	20.00										
8.60	4	6	0.13	30.77										
8.80	4	6	0.13	30.77										
9.00	4	6	0.13	30.77										
9.20	5	7	0.13	38.46										
9.40	6	9	0.20	30.00										
9.60	6	10	0.27	22.22										
9.80	5	9	0.27	18.52										
10.00	4	7	0.20	20.00										

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	28	32	0.27	103.70	10.20	6	10	0.27	22.22					
0.40	44	51	0.47	93.62										
0.60	36	50	0.93	38.71										
0.80	22	31	0.60	36.67										
1.00	20	28	0.53	37.74										
1.20	14	23	0.60	23.33										
1.40	11	17	0.40	27.50										
1.60	7	12	0.33	21.21										
1.80	7	11	0.27	25.93										
2.00	9	15	0.40	22.50										
2.20	11	22	0.73	15.07										
2.40	10	21	0.73	13.70										
2.60	9	18	0.60	15.00										
2.80	10	19	0.60	16.67										
3.00	5	13	0.53	9.43										
3.20	3	6	0.20	15.00										
3.40	4	6	0.13	30.77										
3.60	4	7	0.20	20.00										
3.80	2	4	0.13	15.38										
4.00	6	8	0.13	46.15										
4.20	7	11	0.27	25.93										
4.40	8	11	0.20	40.00										
4.60	5	7	0.13	38.46										
4.80	4	5	0.07	57.14										
5.00	4	6	0.13	30.77										
5.20	4	6	0.13	30.77										
5.40	4	6	0.13	30.77										
5.60	4	7	0.20	20.00										
5.80	5	9	0.27	18.52										
6.00	7	12	0.33	21.21										
6.20	6	13	0.47	12.77										
6.40	4	8	0.27	14.81										
6.60	4	6	0.13	30.77										
6.80	6	9	0.20	30.00										
7.00	8	14	0.40	20.00										
7.20	8	15	0.47	17.02										
7.40	8	14	0.40	20.00										
7.60	9	16	0.47	19.15										
7.80	9	16	0.47	19.15										
8.00	7	14	0.47	14.89										
8.20	7	12	0.33	21.21										
8.40	6	9	0.20	30.00										
8.60	7	9	0.13	53.85										
8.80	6	8	0.13	46.15										
9.00	8	12	0.27	29.63										
9.20	7	12	0.33	21.21										
9.40	6	9	0.20	30.00										
9.60	7	10	0.20	35.00										
9.80	8	12	0.27	29.63										
10.00	6	10	0.27	22.22										

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.20	36	39	0.20	180.00										
0.40	45	54	0.60	75.00										
0.60	38	50	0.80	47.50										
0.80	29	37	0.53	54.72										
1.00	27	36	0.60	45.00										
1.20	19	29	0.67	28.36										
1.40	19	32	0.87	21.84										
1.60	14	26	0.80	17.50										
1.80	11	23	0.80	13.75										
2.00	12	22	0.67	17.91										
2.20	14	25	0.73	19.18										
2.40	15	27	0.80	18.75										
2.60	16	31	1.00	16.00										
2.80	14	27	0.87	16.09										
3.00	14	27	0.87	16.09										
3.20	13	25	0.80	16.25										
3.40	11	20	0.60	18.33										
3.60	10	16	0.40	25.00										
3.80	9	15	0.40	22.50										
4.00	9	14	0.33	27.27										
4.20	9	13	0.27	33.33										
4.40	11	16	0.33	33.33										
4.60	7	11	0.27	25.93										
4.80	8	10	0.13	61.54										
5.00	7	9	0.13	53.85										
5.20	6	8	0.13	46.15										
5.40	8	11	0.20	40.00										
5.60	7	11	0.27	25.93										
5.80	8	12	0.27	29.63										
6.00	7	12	0.33	21.21										
6.20	10	15	0.33	30.30										
6.40	9	14	0.33	27.27										
6.60	5	7	0.13	38.46										
6.80	4	5	0.07	57.14										
7.00	7	10	0.20	35.00										
7.20	8	12	0.27	29.63										
7.40	9	14	0.33	27.27										
7.60	10	16	0.40	25.00										
7.80	11	17	0.40	27.50										
8.00	12	18	0.40	30.00										
8.20	11	17	0.40	27.50										
8.40	10	14	0.27	37.04										
8.60	9	12	0.20	45.00										
8.80	11	15	0.27	40.74										
9.00	9	14	0.33	27.27										
9.20	9	13	0.27	33.33										
9.40	10	13	0.20	50.00										
9.60	10	14	0.27	37.04										
9.80	10	15	0.33	30.30										
10.00	11	17	0.40	27.50										

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00	10.00	9	14	0.33	27.27					
0.20	45	48	0.20	225.00										
0.40	67	84	1.13	59.29										
0.60	44	61	1.13	38.94										
0.80	24	35	0.73	32.88										
1.00	23	31	0.53	43.40										
1.20	14	20	0.40	35.00										
1.40	10	17	0.47	21.28										
1.60	8	14	0.40	20.00										
1.80	7	12	0.33	21.21										
2.00	11	20	0.60	18.33										
2.20	10	19	0.60	16.67										
2.40	11	21	0.67	16.42										
2.60	14	25	0.73	19.18										
2.80	17	30	0.87	19.54										
3.00	11	22	0.73	15.07										
3.20	9	18	0.60	15.00										
3.40	5	9	0.27	18.52										
3.60	5	8	0.20	25.00										
3.80	6	9	0.20	30.00										
4.00	6	8	0.13	46.15										
4.20	6	9	0.20	30.00										
4.40	5	6	0.07	71.43										
4.60	6	8	0.13	46.15										
4.80	6	9	0.20	30.00										
5.00	6	8	0.13	46.15										
5.20	6	8	0.13	46.15										
5.40	6	9	0.20	30.00										
5.60	6	10	0.27	22.22										
5.80	5	9	0.27	18.52										
6.00	6	7	0.07	85.71										
6.20	23	24	0.07	328.57										
6.40	9	10	0.07	128.57										
6.60	5	6	0.07	71.43										
6.80	6	7	0.07	85.71										
7.00	7	11	0.27	25.93										
7.20	8	13	0.33	24.24										
7.40	7	12	0.33	21.21										
7.60	7	11	0.27	25.93										
7.80	8	13	0.33	24.24										
8.00	8	11	0.20	40.00										
8.20	8	10	0.13	61.54										
8.40	9	13	0.27	33.33										
8.60	8	11	0.20	40.00										
8.80	7	9	0.13	53.85										
9.00	8	10	0.13	61.54										
9.20	8	11	0.20	40.00										
9.40	10	15	0.33	30.30										
9.60	9	14	0.33	27.27										
9.80	10	14	0.27	37.04										

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00	10.00	10	13	0.20	50.00					
0.20	46	56	0.67	68.66										
0.40	45	65	1.33	33.83										
0.60	24	37	0.87	27.59										
0.80	16	28	0.80	20.00										
1.00	14	16	0.13	107.69										
1.20	13	16	0.20	65.00										
1.40	13	16	0.20	65.00										
1.60	13	17	0.27	48.15										
1.80	14	17	0.20	70.00										
2.00	12	23	0.73	16.44										
2.20	9	18	0.60	15.00										
2.40	8	18	0.67	11.94										
2.60	8	18	0.67	11.94										
2.80	10	20	0.67	14.93										
3.00	7	14	0.47	14.89										
3.20	6	9	0.20	30.00										
3.40	6	9	0.20	30.00										
3.60	6	8	0.13	46.15										
3.80	5	8	0.20	25.00										
4.00	5	9	0.27	18.52										
4.20	6	8	0.13	46.15										
4.40	5	8	0.20	25.00										
4.60	5	9	0.27	18.52										
4.80	6	9	0.20	30.00										
5.00	6	8	0.13	46.15										
5.20	6	8	0.13	46.15										
5.40	7	10	0.20	35.00										
5.60	8	12	0.27	29.63										
5.80	8	13	0.33	24.24										
6.00	7	11	0.27	25.93										
6.20	7	12	0.33	21.21										
6.40	9	13	0.27	33.33										
6.60	10	14	0.27	37.04										
6.80	11	15	0.27	40.74										
7.00	10	15	0.33	30.30										
7.20	8	12	0.27	29.63										
7.40	9	13	0.27	33.33										
7.60	10	14	0.27	37.04										
7.80	9	13	0.27	33.33										
8.00	10	14	0.27	37.04										
8.20	8	12	0.27	29.63										
8.40	10	14	0.27	37.04										
8.60	9	13	0.27	33.33										
8.80	9	13	0.27	33.33										
9.00	8	12	0.27	29.63										
9.20	10	14	0.27	37.04										
9.40	11	15	0.27	40.74										
9.60	11	14	0.20	55.00										
9.80	10	13	0.20	50.00										

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		letture di campagna			valori derivati								
Prof.	H2O	Rpt	Rat	Rt	Rat-Rpt	Ral	Rp/Ral	Rt-Rpt	fi	Dr	Cu	mv	Tipo litologico
0,20		310	420	430	110	0,73	42	120			1,24	16,06	Limo sabbioso
0,40		930	970	980	40	0,27	349	50	33	58		7,15	Sabbia con ghiaia
0,60		70	130	130	60	0,40	18	60			0,35	23,81	Argilla
0,80		80	130	170	50	0,33	24	90			0,40	22,29	Argilla
1,00		100	140	140	40	0,27	38	40			0,50	20,30	Limo sabbioso
1,20		90	160	420	70	0,47	19	330			0,45	21,16	Argilla
1,40		340	350	740	10	0,07	510	400	29	28		15,59	Sabbia con ghiaia
1,60		500	720	980	220	1,47	34	480			1,67	12,57	Limo sabbioso
1,80		770	1000	1140	230	1,53	50	370	38	52		8,61	Sabbia limosa
2,00		440	740	1240	300	2,00	22	800			1,47	13,72	Argilla
2,20		400	670	1260	270	1,80	22	860			1,60	14,50	Argilla
2,40		430	690	1340	260	1,73	25	910			1,43	13,92	Argilla
2,60		550	870	1900	320	2,13	26	1350			1,83	11,67	Limo
2,80		700	940	1980	240	1,60	44	1280			2,33	9,43	Limo sabbioso
3,00		300	640	2050	340	2,27	13	1750			1,20	16,21	Argilla
3,20		340	580	2020	240	1,60	21	1680			1,36	15,59	Argilla
3,40		400	560	2330	160	1,07	38	1930			1,60	14,50	Limo sabbioso
3,60		450	650	2550	200	1,33	34	2100			1,50	13,53	Limo sabbioso
3,80		310	560	2770	250	1,67	19	2460			1,24	16,06	Argilla
4,00		270	430	2900	160	1,07	25	2630			1,08	16,60	Argilla
4,20		250	420	3210	170	1,13	22	2960			1,00	16,83	Argilla
4,40		470	610	3660	140	0,93	50	3190	36	37		13,14	Sabbia limosa
4,60		620	950	4020	330	2,20	28	3400			2,07	10,53	Limo
4,80		440	800	4260	360	2,40	18	3820			1,47	13,72	Argilla
5,00		380	750	4340	370	2,47	15	3960			1,52	14,87	Argilla
5,20		270	500	4440	230	1,53	18	4170			1,08	16,60	Argilla
5,40		200	350	4510	150	1,00	20	4310			1,00	17,36	Argilla
5,60		260	350	4650	90	0,60	43	4390			1,04	16,72	Limo sabbioso
5,80		310	390	4610	80	0,53	58	4300	29	26		16,06	Sabbia limosa
6,00		280	400	4670	120	0,80	35	4390			1,12	16,48	Limo sabbioso
6,20		180	310	4700	130	0,87	21	4520			0,90	17,60	Argilla
6,40		250	420	4820	170	1,13	22	4570			1,00	16,83	Argilla
6,60		260	420	5130	160	1,07	24	4870			1,04	16,72	Argilla
6,80		330	520	5390	190	1,27	26	5060			1,32	15,75	Limo
7,00		280	450	5490	170	1,13	25	5210			1,12	16,48	Argilla
7,20		420	760	5790	340	2,27	19	5370			1,40	14,11	Argilla
7,40		430	730	6150	300	2,00	22	5720			1,43	13,92	Argilla
7,60		400	750	6480	350	2,33	17	6080			1,60	14,50	Argilla
7,80		310	610	6930	300	2,00	16	6620			1,24	16,06	Argilla
8,00		340	540	7330	200	1,33	26	6990			1,36	15,59	Limo
8,20		540	660	7510	120	0,80	68	6970	36	41		11,85	Sabbia
8,40		550	770	7730	220	1,47	38	7180			1,83	11,67	Limo sabbioso
8,60		480	780	8000	300	2,00	24	7520			1,60	12,95	Argilla
8,80		410	730	8200	320	2,13	19	7790			1,37	14,30	Argilla
9,00		410	660	8290	250	1,67	25	7880			1,37	14,30	Argilla
9,20		370	610	8800	240	1,60	23	8430			1,48	15,06	Argilla
9,40		680	770	8900	90	0,60	113	8220	37	48		9,69	Sabbia con ghiaia
9,60													
9,80													
10,00													

8914

PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	parametri geotecnici stimati						
					Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	15,1	1,1	14	490	1,91	,11	-	-	,60	19,6	A
0.8	14,3	1,3	11	660	1,57	,14	-	-	,57	25,9	T
1.0	15,3	1,5	10	830	1,58	,17	-	-	,61	24,2	T
1.2	16,3	1,3	12	1110	1,59	,21	-	-	,64	22,7	T
1.4	19,3	1,8	11	1420	1,62	,24	-	-	,76	19,2	T
1.6	26,3	2,2	12	1790	1,94	,28	-	-	1,04	15,2	A
1.8	27,4	2,3	12	2200	1,94	,32	-	-	1,08	14,6	A
2.0	29,4	2,5	12	2540	1,94	,35	-	-	1,16	13,6	A
2.2	26,4	2,1	13	2900	1,94	,39	-	-	1,04	15,2	A
2.4	25,4	1,9	13	3130	1,93	,43	-	-	1,00	15,7	A
2.6	23,4	1,9	13	3210	1,93	,45	-	-	,92	17,1	A
2.8	22,5	1,8	13	3430	1,93	,47	-	-	,88	17,8	A
3.0	22,5	1,8	13	3610	1,93	,49	-	-	,88	17,8	A
3.2	20,5	1,4	15	3700	1,92	,51	-	-	,80	19,5	A
3.4	15,5	1,7	9	3810	1,59	,52	-	-	,60	23,9	T
3.6	15,5	1,4	11	3850	1,59	,53	-	-	,60	23,9	T
3.8	13,6	1,5	9	3940	1,57	,54	-	-	,52	27,2	T
4.0	13,6	1,1	13	3940	1,57	,55	-	-	,52	27,2	T
4.2	9,6	,8	12	3950	1,53	,56	-	-	,36	37,9	T
4.4	9,6	,9	11	3920	1,53	,57	-	-	,36	37,9	T
4.6	7,6	,9	9	3870	1,51	,58	-	-	,28	43,7	T
4.8	5,7	,7	9	3810	1,49	,59	-	-	,20	53,8	T
5.0	9,7	,5	18	3840	1,89	,61	-	-	,36	23,8	A
5.2	9,7	,5	21	3760	1,89	,63	-	-	,36	23,8	A
5.4	10,7	,3	40	3690	1,65	,64	-	-	,40	21,3	L
5.6	15,7	,7	24	3760	1,91	,66	-	-	,60	19,5	A
5.8	23,9	,3	72	3760	1,72	,67	31	28	-	13,9	SS
6.0	21,9	1,2	18	3570	1,93	,69	-	-	,85	18,3	A
6.2	19,9	,7	30	3420	1,92	,71	-	-	,77	20,0	AL
6.4	23,9	,9	26	3410	1,93	,73	-	-	,93	16,7	AL
6.6	26,9	,6	45	3390	1,73	,74	28	-	-	12,4	SL
6.8	24	,7	36	3370	1,72	,76	-	-	,93	13,9	L
7.0	43	,7	59	3260	1,82	,77	34	45	-	7,8	SMA
7.2	38	1,1	34	3310	1,79	,79	30	-	-	8,8	SL
7.4	25	,7	34	3420	1,73	,80	28	-	-	13,3	SL
7.6	50	1,1	47	3390	1,85	,82	31	-	-	6,7	SL
7.8	26,2	1,1	25	3580	1,94	,84	-	-	1,01	15,3	AL
8.0	47,2	1,3	35	3200	1,84	,86	30	-	-	7,1	SL
8.2	21,2	,8	27	3360	1,92	,88	-	-	,81	18,9	AL
8.4	18,2	,8	23	3210	1,92	,89	-	-	,69	19,5	A
8.6	26,2	1,1	25	3260	1,94	,91	-	-	1,01	15,3	AL
8.8	33,3	,3	125	3100	1,77	,93	31	32	-	10,0	SS
9.0	10,3	1	10	3220	1,53	,94	-	-	,37	36,0	T
9.2	25,3	,8	32	3190	1,73	,95	28	-	-	13,2	SL
9.4	31,3	,9	36	3330	1,76	,97	29	-	-	10,6	SL
9.6	30,3	,7	45	3320	1,75	,98	29	-	-	11,0	SL
9.8	24,4	,8	31	3300	1,72	1,00	-	-	,94	13,7	L
10.0	22,4	,9	26	3310	1,93	1,02	-	-	,86	17,9	AL

8915

					parametri geotecnici stimati						
PROFONDITA' [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Qt [Kgf]	Gamma [Kg/dmc]	Sigma IVO [Kg/cmq]	Fi [gradi]	D_R [%]	c_u [Kg/cmq]	m_v [cmq/t]	Colonna Stratig.
0.2					1,80	,04	-	-	-	-	
0.4					1,80	,07	-	-	-	-	
0.6	9,1	,5	20	240	1,86	,11	-	-	,36	24,8	A
0.8	10,3	,8	13	340	1,53	,14	-	-	,41	36,0	T
1.0	10,3	,8	13	490	1,53	,17	-	-	,41	36,0	T
1.2	11,3	1,1	11	660	1,54	,20	-	-	,44	32,8	T
1.4	13,3	1,1	12	910	1,56	,23	-	-	,52	27,8	T
1.6	15,3	1,2	13	1180	1,58	,26	-	-	,60	24,2	T
1.8	18,4	1,1	16	1440	1,92	,30	-	-	,72	19,5	A
2.0	20,4	1,2	17	1730	1,92	,34	-	-	,80	19,6	A
2.2	27,4	1,4	20	1950	1,94	,38	-	-	1,08	14,6	A
2.4	27,4	1,5	19	2160	1,94	,42	-	-	1,08	14,6	A
2.6	25,4	1,3	19	2310	1,93	,44	-	-	1,00	15,7	A
2.8	25,5	1,1	24	2460	1,93	,46	-	-	1,00	15,7	AL
3.0	18,5	1,3	15	2700	1,92	,47	-	-	,72	19,5	A
3.2	22,5	1	23	2830	1,93	,49	-	-	,88	17,8	A
3.4	21,5	1,2	18	3030	1,93	,51	-	-	,84	18,6	A
3.6	19,5	1,2	16	3080	1,92	,53	-	-	,76	19,8	A
3.8	16,6	,9	18	3210	1,91	,55	-	-	,64	19,4	A
4.0	13,6	,8	17	3310	1,91	,57	-	-	,52	20,2	A
4.2	9,6	,8	12	3450	1,53	,58	-	-	,36	37,9	T
4.4	9,6	,6	16	3450	1,88	,59	-	-	,36	24,0	A
4.6	8,6	,5	16	3730	1,83	,61	-	-	,32	25,7	A
4.8	27,7	,6	46	3730	1,74	,63	28	-	-	12,0	SL
5.0	22,7	,6	38	3690	1,71	,64	-	-	,88	14,7	L
5.2	19,7	,5	37	3680	1,70	,65	-	-	,76	16,7	L
5.4	21,7	,5	47	3630	1,71	,67	-	-	,84	15,4	L
5.6	17,7	,4	44	3740	1,69	,68	-	-	,68	16,9	L
5.8	26,9	,7	40	3700	1,73	,70	28	-	-	12,4	SL
6.0	25,9	,7	35	3540	1,73	,71	28	-	-	12,9	SL
6.2	20,9	,6	35	3490	1,70	,73	-	-	,81	15,9	L
6.4	17,9	,6	30	3580	1,92	,74	-	-	,69	19,4	AL
6.6	29,9	,8	37	3490	1,75	,76	28	-	-	11,1	SL
6.8	28	,6	47	3480	1,74	,77	28	-	-	11,9	SL
7.0	33	,7	50	3420	1,77	,79	32	36	-	10,1	SMA
7.2	31	1	31	3230	1,76	,80	29	-	-	10,8	SL
7.4	17	,9	20	3100	1,92	,82	-	-	,65	19,4	A
7.6	23	,8	29	3030	1,93	,84	-	-	,89	17,4	L
7.8	19,2	,2	96	2940	1,70	,85	28	15	-	16,7	SS
8.0	26,2	,8	33	2840	1,73	,87	28	-	-	12,7	SL
8.2	27,2	,8	34	2970	1,74	,88	28	-	-	12,3	SL
8.4	26,2	1,4	19	2990	1,94	,90	-	-	1,01	15,3	A
8.6	28,2	1,6	18	2810	1,94	,92	-	-	1,09	14,2	A
8.8	26,3	,7	39	2780	1,73	,94	28	-	-	12,7	SL
9.0	28,3	,6	47	2790	1,74	,95	28	-	-	11,8	SL
9.2	32,3	1	32	2880	1,76	,97	29	-	-	10,3	SL
9.4	45,3	,8	57	3030	1,83	,98	33	42	-	7,4	SMA
9.6	58,3	1,1	55	3000	1,89	1,00	34	>50	-	5,7	SMA
9.8	28,4	1,1	27	3020	1,94	1,02	-	-	1,10	14,1	AL
10.0	29,4	1	29	3030	1,94	1,04	-	-	1,13	13,6	AL

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00										
0.20	15	18	0.20	75.00										
0.40	11	21	0.67	16.42										
0.60	20	37	1.13	17.70										
0.80	27	52	1.67	16.17										
1.00	41	71	2.00	20.50										
1.20	56	86	2.00	28.00										
1.40	21	50	1.93	10.88										
1.60	37	67	2.00	18.50										
1.80	56	85	1.93	29.02										
2.00	40	70	2.00	20.00										
2.20	48	78	2.00	24.00										
2.40	52	82	2.00	26.00										
2.60	65	95	2.00	32.50										
2.80	110	140	2.00	55.00										
3.00	85	115	2.00	42.50										
3.20	52	82	2.00	26.00										
3.40	59	89	2.00	29.50										
3.60	40	70	2.00	20.00										
3.80	67	97	2.00	33.50										
4.00	71	101	2.00	35.50										
4.20	93	123	2.00	46.50										
4.40	80	110	2.00	40.00										
4.60	63	90	1.80	35.00										
4.80	50	76	1.73	28.90										
5.00	36	65	1.93	18.65										
5.20	30	53	1.53	19.61										
5.40	38	61	1.53	24.84										
5.60	47	73	1.73	27.17										
5.80	51	92	2.73	18.68										
6.00	62	108	3.07	20.20										
6.20	81	118	2.47	32.79										
6.40	115	137	1.47	78.23										
6.60	96	120	1.60	60.00										
6.80	51	80	1.93	26.42										
7.00	36	70	2.27	15.86										
7.20	32	60	1.87	17.11										
7.40	40	79	2.60	15.38										
7.60	78	114	2.40	32.50										
7.80	83	117	2.27	36.56										
8.00	62	113	3.40	18.24										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

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PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X	PROF.	QC	RL.	FS.	X
0.00	1	1	0.00	0.00	10.00	11	17	0.40	27.50					
0.20	36	39	0.20	180.00										
0.40	45	54	0.60	75.00										
0.60	38	50	0.80	47.50										
0.80	29	37	0.53	54.72										
1.00	27	36	0.60	45.00										
1.20	19	29	0.67	28.36										
1.40	19	32	0.87	21.84										
1.60	14	26	0.80	17.50										
1.80	11	23	0.80	13.75										
2.00	12	22	0.67	17.91										
2.20	14	25	0.73	19.18										
2.40	15	27	0.80	18.75										
2.60	16	31	1.00	16.00										
2.80	14	27	0.87	16.09										
3.00	14	27	0.87	16.09										
3.20	13	25	0.80	16.25										
3.40	11	20	0.60	18.33										
3.60	10	16	0.40	25.00										
3.80	9	15	0.40	22.50										
4.00	9	14	0.33	27.27										
4.20	9	13	0.27	33.33										
4.40	11	16	0.33	33.33										
4.60	7	11	0.27	25.93										
4.80	8	10	0.13	61.54										
5.00	7	9	0.13	53.85										
5.20	6	8	0.13	46.15										
5.40	8	11	0.20	40.00										
5.60	7	11	0.27	25.93										
5.80	8	12	0.27	29.63										
6.00	7	12	0.33	21.21										
6.20	10	15	0.33	30.30										
6.40	9	14	0.33	27.27										
6.60	5	7	0.13	38.46										
6.80	4	5	0.07	57.14										
7.00	7	10	0.20	35.00										
7.20	8	12	0.27	29.63										
7.40	9	14	0.33	27.27										
7.60	10	16	0.40	25.00										
7.80	11	17	0.40	27.50										
8.00	12	18	0.40	30.00										
8.20	11	17	0.40	27.50										
8.40	10	14	0.27	37.04										
8.60	9	12	0.20	45.00										
8.80	11	15	0.27	40.74										
9.00	9	14	0.33	27.27										
9.20	9	13	0.27	33.33										
9.40	10	13	0.20	50.00										
9.60	10	14	0.27	37.04										
9.80	10	15	0.33	30.30										

LEGENDA : PROF. = PROFONDITA' DI INFISSIONE CM. FS = RESISTENZA SPECIFICA AL MANICOTTO dN/cmq
QC = RESISTENZA SPECIFICA ALLA PUNTA dN/cmq X = RAPPORTO QC/FS %
RL = RESISTENZA LATERALE TOTALE dN/cmq

LITOLOGIA : T=TORBE A=ARGILLA LA=LIMI ARGILLOSI LS=LIMI SABBIOSI SL=SABBIE LIMOSE
S=SABBIE SG=SABBIE E GHIAIA AG=TERRENO AGRICOLO

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

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Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	1	4,0	1	5,1	8	32,1	-
0,2	3	12,0	2	5,2	8	-	-
0,3	2	8,0	2	5,3	10	-	-
0,4	2	8,0	2	5,4	12	-	-
0,5	2	8,0	2	5,5	12	-	-
0,6	3	12,0	2	5,6	13	-	-
0,7	5	20,0	4	5,7	16	-	-
0,8	4	16,0	3	5,8	15	-	-
0,9	5	20,0	4	5,9	15	-	-
1,0	3	12,0	2	6,0	15	-	-
1,1	3	12,0	2	6,1	-	-	-
1,2	5	20,0	4	6,2	-	-	-
1,3	4	16,0	3	6,3	-	-	-
1,4	7	28,1	5	6,4	-	-	-
1,5	8	32,1	6	6,5			-
1,6	6	24,1	5	6,6			-
1,7	6	24,1	5	6,7			-
1,8	5	20,0	4	6,8			-
1,9	7	28,1	5	6,9			-
2,0	7	28,1	5	7,0			-
2,1	8	32,1	6	7,1			-
2,2	7	28,1	5	7,2			-
2,3	8	32,1	6	7,3			-
2,4	6	24,1	5	7,4	-	-	-
2,5	7	28,1	5	7,5	-	-	-
2,6	8	32,1	6	7,6	-	-	-
2,7	6	24,1	5	7,7	-	-	-
2,8	5	20,0	4	7,8	-	-	-
2,9	6	24,1	5	7,9	-	-	-
3,0	6	24,1	5	8,0	-	-	-
3,1	7	28,1	5	8,1	-	-	-
3,2	7	28,1	5	8,2	-	-	-
3,3	6	24,1	5	8,3	-	-	-
3,4	8	32,1	6	8,4	-	-	-
3,5	7	28,1	5	8,5	-	-	-
3,6	6	24,1	5	8,6	-	-	-
3,7	5	20,0	4	8,7	-	-	-
3,8	5	20,0	4	8,8	-	-	-
3,9	5	20,0	4	8,9	-	-	-
4,0	4	16,0	3	9,0	-	-	-
4,1	4	16,0	3	9,1	-	-	-
4,2	5	20,0	4	9,2	-	-	-
4,3	4	16,0	3	9,3	-	-	-
4,4	4	16,0	3	9,4	-	-	-
4,5	4	16,0	3	9,5	-	-	-
4,6	4	16,0	3	9,6	-	-	-
4,7	6	24,1	5	9,7	-	-	-
4,8	7	-	-	9,8	-	-	-
4,9	7	-	-	9,9	-	-	-
5,0	7	-	-	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8931

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	0	0,0	0	5,1	31	124,3	23
0,2	0	0,0	0	5,2	33	132,3	25
0,3	0	0,0	0	5,3	35	140,3	27
0,4	0	0,0	0	5,4	30	120,3	23
0,5	6	24,1	5	5,5	31	124,3	23
0,6	2	8,0	2	5,6	36	144,3	27
0,7	2	8,0	2	5,7	32	128,3	24
0,8	2	8,0	2	5,8	32	128,3	24
0,9	2	8,0	2	5,9	31	124,3	23
1,0	3	12,0	2	6,0	35	140,3	27
1,1	2	8,0	2	6,1	-	-	-
1,2	3	12,0	2	6,2	-	-	-
1,3	3	12,0	2	6,3	-	-	-
1,4	3	12,0	2	6,4	-	-	-
1,5	3	12,0	2	6,5	-	-	-
1,6	2	8,0	2	6,6	-	-	-
1,7	2	8,0	2	6,7	-	-	-
1,8	2	8,0	2	6,8	-	-	-
1,9	2	8,0	2	6,9	-	-	-
2,0	2	8,0	2	7,0	-	-	-
2,1	2	8,0	2	7,1	-	-	-
2,2	2	8,0	2	7,2	-	-	-
2,3	4	16,0	3	7,3	-	-	-
2,4	6	24,1	5	7,4	-	-	-
2,5	5	20,0	4	7,5	-	-	-
2,6	5	20,0	4	7,6	-	-	-
2,7	4	16,0	3	7,7	-	-	-
2,8	4	16,0	3	7,8	-	-	-
2,9	5	20,0	4	7,9	-	-	-
3,0	9	36,1	7	8,0	-	-	-
3,1	9	36,1	7	8,1	-	-	-
3,2	12	48,1	9	8,2	-	-	-
3,3	13	52,1	10	8,3	-	-	-
3,4	16	64,1	12	8,4	-	-	-
3,5	17	68,2	13	8,5	-	-	-
3,6	22	88,2	17	8,6	-	-	-
3,7	23	92,2	17	8,7	-	-	-
3,8	23	92,2	17	8,8	-	-	-
3,9	25	100,2	19	8,9	-	-	-
4,0	27	108,2	20	9,0	-	-	-
4,1	27	108,2	20	9,1	-	-	-
4,2	29	116,3	22	9,2	-	-	-
4,3	32	128,3	24	9,3	-	-	-
4,4	31	124,3	23	9,4	-	-	-
4,5	33	132,3	25	9,5	-	-	-
4,6	33	132,3	25	9,6	-	-	-
4,7	33	132,3	25	9,7	-	-	-
4,8	32	128,3	24	9,8	-	-	-
4,9	33	132,3	25	9,9	-	-	-
5,0	35	140,3	27	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8932

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	0	0,0	0	5,1	32	128,3	24
0,2	0	0,0	0	5,2	33	132,3	25
0,3	0	0,0	0	5,3	32	128,3	24
0,4	3	12,0	2	5,4	33	132,3	25
0,5	3	12,0	2	5,5	31	124,3	23
0,6	2	8,0	2	5,6	34	136,3	26
0,7	1	4,0	1	5,7	33	132,3	25
0,8	1	4,0	1	5,8	32	128,3	24
0,9	1	4,0	1	5,9	31	124,3	23
1,0	2	8,0	2	6,0	33	132,3	25
1,1	2	8,0	2	6,1	-	-	-
1,2	4	16,0	3	6,2	-	-	-
1,3	3	12,0	2	6,3	-	-	-
1,4	4	16,0	3	6,4	-	-	-
1,5	4	16,0	3	6,5	-	-	-
1,6	5	20,0	4	6,6	-	-	-
1,7	5	20,0	4	6,7	-	-	-
1,8	5	20,0	4	6,8	-	-	-
1,9	5	20,0	4	6,9	-	-	-
2,0	6	24,1	5	7,0	-	-	-
2,1	10	40,1	8	7,1	-	-	-
2,2	8	32,1	6	7,2	-	-	-
2,3	10	40,1	8	7,3	-	-	-
2,4	11	44,1	8	7,4	-	-	-
2,5	12	48,1	9	7,5	-	-	-
2,6	12	48,1	9	7,6	-	-	-
2,7	11	44,1	8	7,7	-	-	-
2,8	11	44,1	8	7,8	-	-	-
2,9	12	48,1	9	7,9	-	-	-
3,0	11	44,1	8	8,0	-	-	-
3,1	13	52,1	10	8,1	-	-	-
3,2	17	68,2	13	8,2	-	-	-
3,3	21	84,2	16	8,3	-	-	-
3,4	25	100,2	19	8,4	-	-	-
3,5	30	120,3	23	8,5	-	-	-
3,6	34	136,3	26	8,6	-	-	-
3,7	30	120,3	23	8,7	-	-	-
3,8	32	128,3	24	8,8	-	-	-
3,9	30	120,3	23	8,9	-	-	-
4,0	27	108,2	20	9,0	-	-	-
4,1	29	116,3	22	9,1	-	-	-
4,2	31	124,3	23	9,2	-	-	-
4,3	32	128,3	24	9,3	-	-	-
4,4	35	140,3	27	9,4	-	-	-
4,5	33	132,3	25	9,5	-	-	-
4,6	34	136,3	26	9,6	-	-	-
4,7	32	128,3	24	9,7	-	-	-
4,8	31	124,3	23	9,8	-	-	-
4,9	32	128,3	24	9,9	-	-	-
5,0	34	136,3	26	10,0	-	-	-

8935

Prof. [metri]	Qc [Kg/cmq]	Fs [Kg/cmq]	Qc/Fs	Rt [Kgf]	parametri geotecnici stimati γ [Kg/dmc]	σ'vo [Kg/cmq]	ϕ [gradi]	Dr [%]	Cu [Kg/cmq]	mv [cmq/t]	Colonna stratig.	lito_logia
0,2	8,0	0,3	24		1,80	0,04	-	-	-	-		a
0,4	16,0	0,3	59		1,80	0,07	41	64	-	-		ss
0,6	22,0	0,9	25		1,93	0,11	-	-	0,88	18,2		al
0,8	37,0	1,1	35		1,79	0,15	30	-	-	9,0		sl
1	43,0	2,4	25		1,97	0,19	-	-	1,71	9,3		al
1,2	52,0	3,5	15		1,99	0,23	-	-	2,07	7,7		a
1,4	44,0	3,6	12		1,98	0,27	-	-	1,75	9,1		a
1,6	30,0	3,1	10		1,94	0,30	-	-	1,19	12,3		a
1,8	65,0	0,6	108		1,93	0,34	40	78	-	5,1		sm
2	42,0	5,1	8		1,97	0,38	-	-	1,66	8,8		a
2,2	36,0	3,0	12		1,96	0,42	-	-	1,42	11,1		a
2,4	51,0	1,5	35		1,86	0,46	31	-	-	6,5		sl
2,6	36,0	2,8	13		1,96	0,50	-	-	1,42	11,1		a
2,8	36,0	2,2	16		1,96	0,54	-	-	1,42	11,1		a
3	82,0	2,7	31		2,01	0,58	32	-	-	4,1		sl
3,2	58,0	2,5	23		2,01	0,62	-	-	2,30	6,9		al
3,4	49,0	3,6	14		1,99	0,66	-	-	1,93	8,2		a
3,6	40,0	3,5	11		1,97	0,70	-	-	1,57	10,0		a
3,8	60,0	2,5	24		2,01	0,74	-	-	2,37	6,7		al
4	62,0	3,1	20		2,02	0,78	-	-	2,45	6,5		al
4,2	39,0	2,9	14		1,96	0,82	-	-	1,53	10,3		a
4,4	39,0	2,7	14		1,96	0,85	-	-	1,53	10,3		a
4,6	69,0	0,6	115		1,95	0,89	36	58	-	4,8		sm
4,8	94,0	2,0	47		2,07	0,94	33	-	-	3,5		sl
5	46,0	3,3	14		1,98	0,97	-	-	1,80	8,7		a
5,2	48,0	1,5	31		1,84	1,01	30	-	-	6,9		sl
5,4	23,0	2,4	10		1,93	1,05	-	-	0,88	16,1		a
5,6	23,0	1,2	19		1,93	1,09	-	-	0,88	17,4		a
5,8	32,0	1,1	28		1,95	1,13	-	-	1,23	12,5		al
6	39,0	1,1	36		1,80	1,16	30	-	-	8,5		sl
6,2	17,0	1,7	10		1,60	1,20	-	-	0,63	21,8	######	aot
6,4	10,0	0,7	14		1,53	1,23	-	-	0,35	37,0	######	aot
6,6	9,0	0,5	19		1,85	1,26	-	-	0,31	24,9		a
6,8	9,0	0,5	17		1,85	1,30	-	-	0,31	24,9		a
7	14,0	0,5	30		1,91	1,34	-	-	0,51	20,0		al
7,2	18,0	0,6	30		1,92	1,38	-	-	0,66	19,5		al
7,4	23,0	1,4	16		1,93	1,42	-	-	0,86	17,4		a
7,6	31,0	1,2	26		1,95	1,45	-	-	1,18	12,9		al
7,8	25,0	1,2	21		1,93	1,49	-	-	0,94	16,0		a
8	19,0	1,5	12		1,62	1,53	-	-	0,70	19,5	######	aot
8,2	27,0	1,7	16		1,94	1,56	-	-	1,02	14,8		a
8,4	26,0	0,9	28		1,94	1,60	-	-	0,98	15,4		al
8,6	32,0	1,4	23		1,95	1,64	-	-	1,21	12,5		al
8,8	20,0	1,7	12		1,92	1,68	-	-	0,73	18,5		a
9	18,0	0,9	21		1,92	1,72	-	-	0,65	19,5		a
9,2	19,0	0,7	28		1,92	1,76	-	-	0,69	19,7		al
9,4	16,0	0,9	17		1,91	1,80	-	-	0,57	19,5		a
9,6	17,0	0,9	20		1,92	1,83	-	-	0,61	19,4		a
9,8	18,0	0,8	23		1,92	1,87	-	-	0,65	19,5		a
10	16,0	0,3	48		1,68	1,91	28	2	-	1,0		ss

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8939

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	11	44,1	8	5,1	-	-	-
0,2	19	76,2	14	5,2	-	-	-
0,3	20	80,2	15	5,3	-	-	-
0,4	23	92,2	17	5,4	-	-	-
0,5	26	104,2	20	5,5	-	-	-
0,6	24	96,2	18	5,6	-	-	-
0,7	26	104,2	20	5,7	-	-	-
0,8	25	100,2	19	5,8	-	-	-
0,9	20	80,2	15	5,9	-	-	-
1,0	14	56,1	11	6,0	-	-	-
1,1	21	84,2	16	6,1	-	-	-
1,2	23	92,2	17	6,2	-	-	-
1,3	18	72,2	14	6,3	-	-	-
1,4	22	88,2	17	6,4	-	-	-
1,5	16	64,1	12	6,5	-	-	-
1,6	18	72,2	14	6,6	-	-	-
1,7	26	104,2	20	6,7	-	-	-
1,8	22	88,2	17	6,8	-	-	-
1,9	13	52,1	10	6,9	-	-	-
2,0	10	40,1	8	7,0	-	-	-
2,1	12	48,1	9	7,1	-	-	-
2,2	10	40,1	8	7,2	-	-	-
2,3	13	52,1	10	7,3	-	-	-
2,4	9	36,1	7	7,4	-	-	-
2,5	9	36,1	7	7,5	-	-	-
2,6	12	48,1	9	7,6	-	-	-
2,7	11	44,1	8	7,7	-	-	-
2,8	9	36,1	7	7,8	-	-	-
2,9	10	40,1	8	7,9	-	-	-
3,0	10	40,1	8	8,0	-	-	-
3,1	13	52,1	10	8,1	-	-	-
3,2	14	56,1	11	8,2	-	-	-
3,3	70	280,6	53	8,3	-	-	-
3,4	40	160,4	30	8,4	-	-	-
3,5	15	60,1	11	8,5	-	-	-
3,6	26	104,2	20	8,6	-	-	-
3,7	60	240,5	45	8,7	-	-	-
3,8	80	320,7	61	8,8	-	-	-
3,9	-	-	-	8,9	-	-	-
4,0	-	-	-	9,0	-	-	-
4,1	-	-	-	9,1	-	-	-
4,2	-	-	-	9,2	-	-	-
4,3	-	-	-	9,3	-	-	-
4,4	-	-	-	9,4	-	-	-
4,5	-	-	-	9,5	-	-	-
4,6	-	-	-	9,6	-	-	-
4,7	-	-	-	9,7	-	-	-
4,8	-	-	-	9,8	-	-	-
4,9	-	-	-	9,9	-	-	-
5,0	-	-	-	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
Rpt = Resistenza alla punta (kg/cmq)*10
Rat = Resistenza attrito laterale (Kg/cmq)*150
Rt = Resistenza totale sulle aste (kg)
Begemann = Rapporto Begemann

8966

Prof.	Rpt	Rat	Rt	Begemann	Rp (Kg/cmq)	Cu	mv
0,2	80	140	200	20	8	0,3	17
0,4	120	220	300	18	12	0,5	21
0,6	160	280	500	20	16	0,7	16
0,8	110	210	500	17	11	0,5	23
1,0	170	280	700	23	17	0,7	15
1,2	170	300	900	20	17	0,7	15
1,4	160	280	1100	20	16	0,7	16
1,6	160	310	1200	16	16	0,7	16
1,8	140	220	1300	26	14	0,6	18
2,0	100	180	1300	19	10	0,4	25
2,2	130	220	1250	22	13	0,5	19
2,4	100	200	1300	15	10	0,4	25
2,6	150	270	1250	19	15	0,6	17
2,8	150	240	1300	25	15	0,6	17
3,0	130	210	1400	24	13	0,5	19
3,2	110	160	1400	33	11	0,5	23
3,4	100	140	1450	38	10	0,4	25
3,6	100	160	1350	25	10	0,4	25
3,8	120	210	1400	20	12	0,5	21
4,0	150	270	1500	19	15	0,6	17
4,2	140	240	1600	21	14	0,6	18
4,4	160	300	1600	17	16	0,7	16
4,6	150	300	1700	15	15	0,6	17
4,8	180	340	1900	17	18	0,7	14
5,0	180	280	2100	27	18	0,7	14
5,2	200	360	2200	19	20	0,8	13
5,4	210	320	2400	29	21	0,9	12
5,6	250	370	2500	31	25	1,0	10
5,8	180	300	2650	23	18	0,7	14
6,0	250	350	2700	38	25	1,0	10
6,2	210	340	2750	24	21	0,9	12
6,4	190	290	2800	29	19	0,8	13
6,6	240	350	3000	33	24	1,0	10
6,8	310	440	3050	36	31	1,3	8
7,0	250	370	3100	31	25	1,0	10
7,2	220	340	3200	28	22	0,9	11
7,4	240	400	3300	23	24	1,0	10
7,6	220	440	3400	15	22	0,9	11
7,8	200	400	3400	15	20	0,8	13
8,0	210	370	3550	20	21	0,9	12
8,2	280	380	3550	42	28	1,2	9
8,4	270	390	3550	34	27	1,1	9
8,6	250	390	3500	27	25	1,0	10
8,8	250	450	3300	19	25	1,0	10
9,0	210	330	3350	26	21	0,9	12
9,2	330	440	3500	45	33	1,4	8
9,4	340	510	3600	30	34	1,4	7
9,6	290	510	3850	20	29	1,2	9
9,8	250	490	4150	16	25	1,0	10
10,0	270	520	4300	16	27	1,1	9

LEGENDA:
Prof. = profondità in metri
Rpt = Resistenza alla punta (kg/cmq)*10
Rat = Resistenza attrito laterale (Kg/cmq)*150
Rt = Resistenza totale sulle aste (kg)
Begemann = Rapporto Begemann

8967

Prof.	Rpt	Rat	Rt	Begemann	Rp (Kg/cmq)	Cu	mv
0,2	100	160	200	25	10	0,4	17
0,4	110	220	500	15	11	0,5	23
0,6	100	220	500	13	10	0,4	25
0,8	110	210	500	17	11	0,5	23
1,0	130	240	600	18	13	0,5	19
1,2	210	330	800	26	21	0,9	12
1,4	200	390	950	16	20	0,8	13
1,6	180	400	1100	12	18	0,7	14
1,8	200	410	1300	14	20	0,8	13
2,0	230	440	1600	16	23	1,0	11
2,2	230	500	1800	13	23	1,0	11
2,4	200	450	2050	12	20	0,8	13
2,6	220	420	2200	17	22	0,9	11
2,8	190	370	2300	16	19	0,8	13
3,0	130	330	2500	10	13	0,5	19
3,2	150	310	2550	14	15	0,6	17
3,4	140	250	2650	19	14	0,6	18
3,6	150	240	2700	25	15	0,6	17
3,8	150	270	2750	19	15	0,6	17
4,0	140	230	2850	23	14	0,6	18
4,2	180	250	2900	39	18	0,7	14
4,4	130	280	2800	13	13	0,5	19
4,6	150	230	2800	28	15	0,6	17
4,8	160	220	2800	40	16	0,7	16
5,0	130	200	2800	28	13	0,5	19
5,2	90	170	2800	17	9	0,4	28
5,4	70	130	2850	18	7	0,3	36
5,6	80	110	2800	40	8	0,3	31
5,8	30	70	2800	11	3	0,1	83
6,0	40	60	2800	30	4	0,2	63
6,2	90	110	2950	68	9	0,4	28
6,4	90	140	3000	27	9	0,4	28
6,6	120	160	3050	45	12	0,5	21
6,8	140	220	3100	26	14	0,6	18
7,0	160	260	3250	24	16	0,7	16
7,2	170	300	3400	20	17	0,7	15
7,4	180	320	3500	19	18	0,7	14
7,6	130	270	3500	14	13	0,5	19
7,8	120	230	3550	16	12	0,5	21
8,0	130	210	3550	24	13	0,5	19
8,2	130	230	3700	20	13	0,5	19
8,4	150	250	3650	23	15	0,6	17
8,6	120	220	3600	18	12	0,5	21
8,8	110	180	3600	24	11	0,5	23
9,0	120	180	3600	30	12	0,5	21
9,2	180	280	3700	27	18	0,7	14
9,4	170	310	3750	18	17	0,7	15
9,6	110	260	3750	11	11	0,5	23
9,8	170	250	3800	32	17	0,7	15
10,0	150	290	3750	16	15	0,6	17

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8971

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	5	20,0	4	5,1	-	-	-
0,2	7	28,1	5	5,2	-	-	-
0,3	6	24,1	5	5,3	-		
0,4	3	12,0	2	5,4	-		
0,5	3	12,0	2	5,5	-		
0,6	3	12,0	2	5,6	-		
0,7	4	16,0	3	5,7	-		
0,8	5	20,0	4	5,8	-		
0,9	5	20,0	4	5,9	-		
1,0	4	16,0	3	6,0	-		
1,1	5	20,0	4	6,1	-	-	-
1,2	10	40,1	8	6,2	-	-	-
1,3	13	52,1	10	6,3	-	-	-
1,4	10	40,1	8	6,4	-	-	-
1,5	7	28,1	5	6,5	-	-	-
1,6	12	48,1	9	6,6	-	-	-
1,7	11	44,1	8	6,7	-	-	-
1,8	8	32,1	6	6,8	-	-	-
1,9	14	56,1	11	6,9	-	-	-
2,0	14	56,1	11	7,0	-	-	-
2,1	17	68,2	13	7,1	-	-	-
2,2	22	88,2	17	7,2	-	-	-
2,3	24	96,2	18	7,3	-	-	-
2,4	25	100,2	19	7,4	-	-	-
2,5	21	84,2	16	7,5	-	-	-
2,6	22	88,2	17	7,6	-	-	-
2,7	28	112,2	21	7,7	-	-	-
2,8	23	92,2	17	7,8	-	-	-
2,9	21	84,2	16	7,9	-	-	-
3,0	33	132,3	25	8,0	-	-	-
3,1	37	148,3	28	8,1	-	-	-
3,2	28	112,2	21	8,2	-	-	-
3,3	33	132,3	25	8,3	-	-	-
3,4	36	144,3	27	8,4	-	-	-
3,5	32	128,3	24	8,5	-	-	-
3,6	40	160,4	30	8,6	-	-	-
3,7	43	172,4	33	8,7	-	-	-
3,8	37	148,3	28	8,8	-	-	-
3,9	35	140,3	27	8,9	-	-	-
4,0	39	156,3	30	9,0	-	-	-
4,1	48	192,4	36	9,1	-	-	-
4,2	51	204,5	39	9,2	-	-	-
4,3	55	220,5	42	9,3	-	-	-
4,4	57	228,5	43	9,4	-	-	-
4,5	57	228,5	43	9,5	-	-	-
4,6	51	204,5	39	9,6	-	-	-
4,7	63	252,6	48	9,7	-	-	-
4,8	61	244,5	46	9,8	-	-	-
4,9	67	268,6	51	9,9	-	-	-
5,0	70	280,6	53	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8972

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	0	0,0	0	5,1	10	40,1	8
0,2	0	0,0	0	5,2	10	40,1	8
0,3	0	0,0	0	5,3	11	44,1	8
0,4	0	0,0	0	5,4	13	52,1	10
0,5	0	0,0	0	5,5	15	60,1	11
0,6	0	0,0	0	5,6	16	64,1	12
0,7	10	40,1	8	5,7	17	68,2	13
0,8	11	44,1	8	5,8	18	72,2	14
0,9	11	44,1	8	5,9	18	72,2	14
1,0	9	36,1	7	6,0	20	80,2	15
1,1	10	40,1	8	6,1	-	-	-
1,2	10	40,1	8	6,2	-	-	-
1,3	12	48,1	9	6,3	-	-	-
1,4	10	40,1	8	6,4	-	-	-
1,5	7	28,1	5	6,5	-	-	-
1,6	8	32,1	6	6,6	-	-	-
1,7	7	28,1	5	6,7	-	-	-
1,8	8	32,1	6	6,8	-	-	-
1,9	6	24,1	5	6,9	-	-	-
2,0	5	20,0	4	7,0	-	-	-
2,1	5	20,0	4	7,1	-	-	-
2,2	6	24,1	5	7,2	-	-	-
2,3	6	24,1	5	7,3	-	-	-
2,4	7	28,1	5	7,4	-	-	-
2,5	6	24,1	5	7,5	-	-	-
2,6	6	24,1	5	7,6	-	-	-
2,7	6	24,1	5	7,7	-	-	-
2,8	6	24,1	5	7,8	-	-	-
2,9	6	24,1	5	7,9	-	-	-
3,0	4	16,0	3	8,0	-	-	-
3,1	3	12,0	2	8,1	-	-	-
3,2	3	12,0	2	8,2	-	-	-
3,3	3	12,0	2	8,3	-	-	-
3,4	3	12,0	2	8,4	-	-	-
3,5	5	20,0	4	8,5	-	-	-
3,6	6	24,1	5	8,6	-	-	-
3,7	7	28,1	5	8,7	-	-	-
3,8	9	36,1	7	8,8	-	-	-
3,9	6	24,1	5	8,9	-	-	-
4,0	7	28,1	5	9,0	-	-	-
4,1	9	36,1	7	9,1	-	-	-
4,2	9	36,1	7	9,2	-	-	-
4,3	8	32,1	6	9,3	-	-	-
4,4	8	32,1	6	9,4	-	-	-
4,5	7	28,1	5	9,5	-	-	-
4,6	7	28,1	5	9,6	-	-	-
4,7	7	28,1	5	9,7	-	-	-
4,8	8	32,1	6	9,8	-	-	-
4,9	7	28,1	5	9,9	-	-	-
5,0	10	40,1	8	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8973

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	0	0,0	0	5,1	15	60,1	11
0,2	0	0,0	0	5,2	12	48,1	9
0,3	0	0,0	0	5,3	15	60,1	11
0,4	0	0,0	0	5,4	15	60,1	11
0,5	0	0,0	0	5,5	16	64,1	12
0,6	10	40,1	8	5,6	15	60,1	11
0,7	13	52,1	10	5,7	16	64,1	12
0,8	13	52,1	10	5,8	18	72,2	14
0,9	12	48,1	9	5,9	19	76,2	14
1,0	10	40,1	8	6,0	22	88,2	17
1,1	12	48,1	9	6,1	-	-	-
1,2	16	64,1	12	6,2	-	-	-
1,3	19	76,2	14	6,3	-	-	-
1,4	18	72,2	14	6,4	-	-	-
1,5	22	88,2	17	6,5	-	-	-
1,6	18	72,2	14	6,6	-	-	-
1,7	16	64,1	12	6,7	-	-	-
1,8	13	52,1	10	6,8	-	-	-
1,9	14	56,1	11	6,9	-	-	-
2,0	13	52,1	10	7,0	-	-	-
2,1	10	40,1	8	7,1	-	-	-
2,2	10	40,1	8	7,2	-	-	-
2,3	6	24,1	5	7,3	-	-	-
2,4	4	16,0	3	7,4	-	-	-
2,5	4	16,0	3	7,5	-	-	-
2,6	3	12,0	2	7,6	-	-	-
2,7	3	12,0	2	7,7	-	-	-
2,8	3	12,0	2	7,8	-	-	-
2,9	3	12,0	2	7,9	-	-	-
3,0	3	12,0	2	8,0	-	-	-
3,1	3	12,0	2	8,1	-	-	-
3,2	3	12,0	2	8,2	-	-	-
3,3	4	16,0	3	8,3	-	-	-
3,4	4	16,0	3	8,4	-	-	-
3,5	4	16,0	3	8,5	-	-	-
3,6	3	12,0	2	8,6	-	-	-
3,7	4	16,0	3	8,7	-	-	-
3,8	4	16,0	3	8,8	-	-	-
3,9	7	28,1	5	8,9	-	-	-
4,0	13	52,1	10	9,0	-	-	-
4,1	8	32,1	6	9,1	-	-	-
4,2	8	32,1	6	9,2	-	-	-
4,3	11	44,1	8	9,3	-	-	-
4,4	10	40,1	8	9,4	-	-	-
4,5	12	48,1	9	9,5	-	-	-
4,6	12	48,1	9	9,6	-	-	-
4,7	10	40,1	8	9,7	-	-	-
4,8	12	48,1	9	9,8	-	-	-
4,9	13	52,1	10	9,9	-	-	-
5,0	16	64,1	12	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
N = numero di colpi per 10 cm.
Rd = Resistenza dinamica [Kg/cmq]
Nspt = equivalente "standard penetration test"

8976

Prof.	N	Rd	Nspt	Prof.	N	Rd	Nspt
0,1	0	0,0	0	5,1	22	88,2	17
0,2	0	0,0	0	5,2	21	84,2	16
0,3	5	20,0	4	5,3	24	96,2	18
0,4	4	16,0	3	5,4	23	92,2	17
0,5	6	24,1	5	5,5	23	92,2	17
0,6	4	16,0	3	5,6	24	96,2	18
0,7	5	20,0	4	5,7	27	108,2	20
0,8	5	20,0	4	5,8	32	128,3	24
0,9	6	24,1	5	5,9	31	124,3	23
1,0	4	16,0	3	6,0	35	140,3	27
1,1	3	12,0	2	6,1	-	-	-
1,2	5	20,0	4	6,2	-	-	-
1,3	5	20,0	4	6,3	-	-	-
1,4	7	28,1	5	6,4	-	-	-
1,5	7	28,1	5	6,5	-	-	-
1,6	8	32,1	6	6,6	-	-	-
1,7	8	32,1	6	6,7	-	-	-
1,8	10	40,1	8	6,8	-	-	-
1,9	9	36,1	7	6,9	-	-	-
2,0	8	32,1	6	7,0	-	-	-
2,1	8	32,1	6	7,1	-	-	-
2,2	9	36,1	7	7,2	-	-	-
2,3	7	28,1	5	7,3	-	-	-
2,4	10	40,1	8	7,4	-	-	-
2,5	11	44,1	8	7,5	-	-	-
2,6	12	48,1	9	7,6	-	-	-
2,7	12	48,1	9	7,7	-	-	-
2,8	10	40,1	8	7,8	-	-	-
2,9	10	40,1	8	7,9	-	-	-
3,0	9	36,1	7	8,0	-	-	-
3,1	10	40,1	8	8,1	-	-	-
3,2	12	48,1	9	8,2	-	-	-
3,3	13	52,1	10	8,3	-	-	-
3,4	16	64,1	12	8,4	-	-	-
3,5	17	68,2	13	8,5	-	-	-
3,6	22	88,2	17	8,6	-	-	-
3,7	21	84,2	16	8,7	-	-	-
3,8	23	92,2	17	8,8	-	-	-
3,9	24	96,2	18	8,9	-	-	-
4,0	27	108,2	20	9,0	-	-	-
4,1	28	112,2	21	9,1	-	-	-
4,2	29	116,3	22	9,2	-	-	-
4,3	25	100,2	19	9,3	-	-	-
4,4	23	92,2	17	9,4	-	-	-
4,5	21	84,2	16	9,5	-	-	-
4,6	21	84,2	16	9,6	-	-	-
4,7	27	108,2	20	9,7	-	-	-
4,8	29	116,3	22	9,8	-	-	-
4,9	25	100,2	19	9,9	-	-	-
5,0	23	92,2	17	10,0	-	-	-

LEGENDA:
Prof. = profondità in metri
Rpt = Resistenza alla punta (kg/cmq)*10
Rat = Resistenza attrito laterale (Kg/cmq)*150
Rt = Resistenza totale sulle aste (kg)
Begemann = Rapporto Begemann

8977

Prof.	Rpt	Rat	Rt	Begemann	Rp (Kg/cmq)	Cu	mv
0,2	80	140	200	20	8	0,3	42
0,4	90	170	300	17	9	0,3	37
0,6	120	240	450	15	12	0,4	28
0,8	130	250	600	16	13	0,4	26
1,0	110	230	700	14	11	0,4	30
1,2	150	280	850	17	15	0,5	22
1,4	140	300	1000	13	14	0,5	24
1,6	130	270	1100	14	13	0,4	26
1,8	110	180	1300	24	11	0,4	30
2,0	120	180	1400	30	12	0,4	28
2,2	150	310	1450	14	15	0,5	22
2,4	180	320	1600	19	18	0,6	19
2,6	210	440	1800	14	21	0,7	16
2,8	200	430	1900	13	20	0,7	17
3,0	180	350	2000	16	18	0,6	19
3,2	150	270	2100	19	15	0,5	22
3,4	140	280	2250	15	14	0,5	24
3,6	120	200	2200	23	12	0,4	28
3,8	110	150	2250	41	11	0,4	30
4,0	80	120	2300	30	8	0,3	42
4,2	100	130	2350	50	10	0,3	33
4,4	110	180	2500	24	11	0,4	30
4,6	140	180	2600	53	14	0,5	24
4,8	160	280	2800	20	16	0,5	21
5,0	150	320	3000	13	15	0,5	22
5,2	210	370	3200	20	21	0,7	16
5,4	200	400	3350	15	20	0,7	17
5,6	170	250	3400	32	17	0,6	20
5,8	150	250	3400	23	15	0,5	22
6,0	120	200	3500	23	12	0,4	28
6,2	110	160	3600	33	11	0,4	30
6,4	140	220	3700	26	14	0,5	24
6,6	180	340	4000	17	18	0,6	19
6,8	220	450	4200	14	22	0,7	15
7,0	240	470	4500	16	24	0,8	14
7,2	200	410	4600	14	20	0,7	17
7,4	250	520	4700	14	25	0,8	13
7,6	270	570	4800	14	27	0,9	12
7,8	230	550	4950	11	23	0,8	14
8,0	180	400	4950	12	18	0,6	19
8,2	190	360	4900	17	19	0,6	18
8,4	140	260	5100	18	14	0,5	24
8,6	110	200	5300	18	11	0,4	30
8,8	150	220	5400	32	15	0,5	22
9,0	170	300	5500	20	17	0,6	20
9,2	140	200	5600	35	14	0,5	24
9,4	160	270	5600	22	16	0,5	21
9,6	220	390	5700	19	22	0,7	15
9,8	220	430	5800	16	22	0,7	15
10,0	190	400	5800	14	19	0,6	18

LEGENDA:
Prof. = profondità in metri
Rpt = Resistenza alla punta (kg/cmq)*10
Rat = Resistenza attrito laterale (Kg/cmq)*150
Rt = Resistenza totale sulle aste (kg)
Begemann = Rapporto Begemann

9017

Prof.	Rpt	Rat	Rt	Begemann	Rp (Kg/cmq)	Cu	mv
0,2	20	40	200	15	2	0,1	125
0,4	80	120	300	30	8	0,3	31
0,6	110	210	350	17	11	0,5	23
0,8	110	210	350	17	11	0,5	23
1,0	140	230	500	23	14	0,6	18
1,2	140	250	650	19	14	0,6	18
1,4	170	290	700	21	17	0,7	15
1,6	160	320	950	15	16	0,7	16
1,8	150	370	1100	10	15	0,6	17
2,0	170	370	1350	13	17	0,7	15
2,2	200	380	1450	17	20	0,8	13
2,4	200	410	1700	14	20	0,8	13
2,6	220	380	1850	21	22	0,9	11
2,8	210	400	2000	17	21	0,9	12
3,0	180	380	2100	14	18	0,7	14
3,2	180	380	2150	14	18	0,7	14
3,4	200	390	2350	16	20	0,8	13
3,6	200	360	2350	19	20	0,8	13
3,8	120	290	2550	11	12	0,5	21
4,0	160	270	2600	22	16	0,7	16
4,2	110	250	2600	12	11	0,5	23
4,4	110	210	2650	17	11	0,5	23
4,6	110	180	2650	24	11	0,5	23
4,8	40	160	2650	5	4	0,2	63
5,0	80	140	2650	20	8	0,3	31
5,2	60	140	2650	11	6	0,2	42
5,4	60	120	2700	15	6	0,2	42
5,6	70	130	2700	18	7	0,3	36
5,8	70	120	2650	21	7	0,3	36
6,0	70	110	2750	26	7	0,3	36
6,2	70	140	2800	15	7	0,3	36
6,4	60	120	2850	15	6	0,2	42
6,6	60	100	2950	23	6	0,2	42
6,8	60	100	3000	23	6	0,2	42
7,0	70	100	3050	35	7	0,3	36
7,2	70	120	3100	21	7	0,3	36
7,4	60	110	3150	18	6	0,2	42
7,6	90	130	3150	34	9	0,4	28
7,8	70	140	3200	15	7	0,3	36
8,0	80	130	3250	24	8	0,3	31
8,2	90	160	3400	19	9	0,4	28
8,4	40	150	3400	5	4	0,2	63
8,6	150	210	3550	38	15	0,6	17
8,8	200	310	3600	27	20	0,8	13
9,0	170	320	3700	17	17	0,7	15
9,2	170	330	3800	16	17	0,7	15
9,4	190	370	4000	16	19	0,8	13
9,6	180	320	4100	19	18	0,7	14
9,8	160	320	4150	15	16	0,7	16
10,0	170	280	4200	23	17	0,7	15

LEGENDA:
Prof. = profondità in metri
Rpt = Resistenza alla punta (kg/cmq)*10
Rat = Resistenza attrito laterale (Kg/cmq)*150
Rt = Resistenza totale sulle aste (kg)
Begemann = Rapporto Begemann

9018

Prof.	Rpt	Rat	Rt	Begemann	Rp (Kg/cmq)	Cu	mv
0,2	20	60	200	8	2	0,1	125
0,4	80	130	250	24	8	0,3	31
0,6	40	110	250	9	4	0,2	63
0,8	30	80	300	9	3	0,1	83
1,0	130	180	300	39	13	0,5	19
1,2	110	160	400	33	11	0,5	23
1,4	150	210	500	38	15	0,6	17
1,6	210	290	600	39	21	0,9	12
1,8	230	350	850	29	23	1,0	11
2,0	250	380	1000	29	25	1,0	10
2,2	250	400	1200	25	25	1,0	10
2,4	230	370	1450	25	23	1,0	11
2,6	240	370	1600	28	24	1,0	10
2,8	210	350	1700	23	21	0,9	12
3,0	180	320	1800	19	18	0,7	14
3,2	140	270	1900	16	14	0,6	18
3,4	120	230	2050	16	12	0,5	21
3,6	120	210	2150	20	12	0,5	21
3,8	120	170	2200	36	12	0,5	21
4,0	90	140	2200	27	9	0,4	28
4,2	60	100	2200	23	6	0,2	42
4,4	50	80	2200	25	5	0,2	50
4,6	120	140	2250	90	12	0,5	21
4,8	40	100	2300	10	4	0,2	63
5,0	100	150	2250	30	10	0,4	25
5,2	120	170	2300	36	12	0,5	21
5,4	100	140	2300	38	10	0,4	25
5,6	110	160	2500	33	11	0,5	23
5,8	140	200	2500	35	14	0,6	18
6,0	100	170	2550	21	10	0,4	25
6,2	230	310	2650	43	23	1,0	11
6,4	140	210	2800	30	14	0,6	18
6,6	220	360	3000	24	22	0,9	11
6,8	360	440	3050	68	36	1,5	7
7,0	230	320	3150	38	23	1,0	11
7,2	210	380	3550	19	21	0,9	12
7,4	290	340	3500	87	29	1,2	9
7,6	170	290	3700	21	17	0,7	15
7,8	410	480	3800	88	41	1,7	6
8,0	390	480	3950	65	39	1,6	6
8,2	-	-	-	-	-	-	-
8,4	-	-	-	-	-	-	-
8,6	-	-	-	-	-	-	-
8,8	-	-	-	-	-	-	-
9,0	-	-	-	-	-	-	-
9,2	-	-	-	-	-	-	-
9,4	-	-	-	-	-	-	-
9,6	-	-	-	-	-	-	-
9,8	-	-	-	-	-	-	-
10,0	-	-	-	-	-	-	-

Profondità (m)	qc (Kg/cm²)	fs (Kg/cm²)	qc/fs	FR %	Litotipo (cl. secondo Searle)
					9022
0,2	-	-	-	-	-
0,4	-	-	-	-	-
0,6	-	-	-	-	-
0,8	15	0,5	33	3	SABBIA ARGILLOSO-LIMOSA
1,0	16	0,5	35	3	SABBIA ARGILLOSO-LIMOSA
1,2	17	0,7	24	4	LIMO ARGILLOSO-SABBIOSO
1,4	13	0,5	25	4	LIMO ARGILLOSO-SABBIOSO
1,6	16	0,5	35	3	SABBIA ARGILLOSO-LIMOSA
1,8	13	0,5	29	3	LIMO ARGILLOSO-SABBIOSO
2,0	10	0,5	20	5	LIMO ARGILLOSO
2,2	11	0,5	22	5	LIMO ARGILLOSO
2,4	15	0,5	31	3	LIMO ARGILLOSO-SABBIOSO
2,6	18	0,6	29	3	LIMO ARGILLOSO-SABBIOSO
2,8	15	0,9	17	6	LIMO ARGILLOSO
3,0	14	0,7	20	5	LIMO ARGILLOSO
3,2	17	0,8	21	5	LIMO ARGILLOSO
3,4	15	0,7	20	5	LIMO ARGILLOSO
3,6	13	0,5	24	4	LIMO ARGILLOSO-SABBIOSO
3,8	12	0,5	22	5	LIMO ARGILLOSO
4,0	15	0,4	37	3	SABBIA ARGILLOSO-LIMOSA
4,2	14	0,8	17	6	LIMO ARGILLOSO
4,4	12	0,5	25	4	LIMO ARGILLOSO-SABBIOSO
4,6	11	0,7	16	6	LIMO ARGILLOSO
4,8	13	0,8	16	6	ARGILLA LIMOSA
5,0	14	0,8	17	6	LIMO ARGILLOSO
5,2	13	0,9	15	7	ARGILLA LIMOSA
5,4	12	0,5	26	4	LIMO ARGILLOSO-SABBIOSO
5,6	11	0,7	17	6	LIMO ARGILLOSO
5,8	11	0,6	18	5	LIMO ARGILLOSO
6,0	12	0,7	18	6	LIMO ARGILLOSO
6,2	13	0,7	18	6	LIMO ARGILLOSO
6,4	14	0,8	18	6	LIMO ARGILLOSO
6,6	17	0,9	18	5	LIMO ARGILLOSO
6,8	13	0,7	20	5	LIMO ARGILLOSO
7,0	14	0,7	19	5	LIMO ARGILLOSO
7,2	15	0,7	23	4	LIMO ARGILLOSO-SABBIOSO
7,4	13	0,7	20	5	LIMO ARGILLOSO
7,6	12	0,7	17	6	LIMO ARGILLOSO
7,8	12	0,8	15	6	ARGILLA LIMOSA
8,0	11	0,5	21	5	LIMO ARGILLOSO
8,2	13	0,7	18	5	LIMO ARGILLOSO
8,4	13	0,7	20	5	LIMO ARGILLOSO
8,6	14	0,6	24	4	LIMO ARGILLOSO-SABBIOSO
8,8	13	0,5	25	4	LIMO ARGILLOSO-SABBIOSO
9,0	11	0,7	17	6	LIMO ARGILLOSO
9,2	12	0,6	21	5	LIMO ARGILLOSO
9,4	12	0,7	17	6	LIMO ARGILLOSO
9,6	12	0,7	16	6	ARGILLA LIMOSA
9,8	12	0,5	22	5	LIMO ARGILLOSO
10,0	14	0,5	29	3	LIMO ARGILLOSO-SABBIOSO

Qc (MN/mq) Resistenza alla punta I (°) Inclinazione
Fs (MN/mq) Attrito laterale locale Rf (%) Rapporto di attrito

1 MN/mq = 10.2 Kg/cmq

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: MONTOPOL.1

D	Qc	Fs	I	Rf	Tipo di Terreno
0.60	5.00	0.267	1.20	5.33	Argilla
0.80	9.00	0.133	1.80	1.48	Sabbia
1.00	8.40	0.240	2.00	2.86	Limo
1.20	7.80	0.147	2.20	1.88	Limo sabbioso
1.40	4.40	0.267	2.20	6.06	Argilla
1.60	5.00	0.133	0.95	2.67	Limo
1.80	7.20	0.133	1.20	1.85	Limo sabbioso
2.00	5.40	0.160	1.20	2.96	Limo
2.20	3.00	0.187	1.20	6.22	Argilla
2.40	2.20	0.133	1.20	6.06	Argilla
2.60	1.80	0.173	1.40	9.63	Argilla
2.80	2.20	0.133	1.40	6.06	Argilla
3.00	2.00	0.200	1.60	10.00	Argilla
3.20	2.00	0.200	1.60	10.00	Argilla
3.40	2.00	0.173	1.60	8.67	Argilla
3.60	1.80	0.147	1.80	8.15	Argilla
3.80	1.80	0.160	1.80	8.89	Argilla
4.00	1.60	0.127	2.00	7.92	Argilla
4.20	1.40	0.127	2.00	9.05	Argilla
4.40	1.20	0.093	2.00	7.78	Argilla
4.60	1.40	0.080	2.20	5.71	Argilla
4.80	1.50	0.060	2.20	4.00	Argilla
5.00	1.00	0.080	2.20	8.00	Argilla
5.20	1.20	0.053	2.20	4.44	Argilla
5.40	1.40	0.080	2.20	5.71	Argilla
5.60	1.40	0.080	2.20	5.71	Argilla
5.80	1.40	0.073	2.20	5.24	Argilla
6.00	1.40	0.073	2.20	5.24	Argilla
6.20	1.00	0.067	2.20	6.67	Argilla
6.40	1.60	0.040	2.20	2.50	Limo
6.60	1.20	0.067	2.20	5.56	Argilla
6.80	1.00	0.067	2.20	6.67	Argilla
7.00	0.90	0.060	2.20	6.67	Argilla
7.20	1.00	0.067	2.00	6.67	Argilla
7.40	0.80	0.067	2.00	8.33	Argilla
7.60	0.80	0.067	2.20	8.33	Argilla
7.80	1.00	0.053	2.20	5.33	Argilla
8.00	1.20	0.053	2.20	4.44	Argilla
8.20	0.80	0.080	2.20	10.00	Argilla
8.40	0.80	0.080	2.20	10.00	Argilla
8.60	0.60	0.067	2.40	11.11	Argilla
8.80	0.60	0.053	2.40	8.89	Argilla
9.00	0.40	0.067	2.40	16.67	Argilla
9.20	0.40	0.053	2.40	13.33	Argilla

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D	Qc	Fs	I	Rf	Tipo di Terreno
9.40	0.40	0.053	2.40	13.33	Argilla
9.60	1.20	0.107	2.60	8.89	Argilla
9.80	1.40	0.080	2.60	5.71	Argilla
10.00	1.60	0.040	2.60	2.50	Limo
10.20	0.90	0.073	2.40	8.15	Argilla
10.40	0.60	0.080	2.40	13.33	Argilla
10.60	0.60	0.080	2.40	13.33	Argilla
10.80	0.60	0.067	2.60	11.11	Argilla
11.00	0.50	0.073	2.60	14.67	Argilla
11.20	0.50	0.073	2.60	14.67	Argilla
11.40	0.60	0.067	2.40	11.11	Argilla
11.60	1.20	0.067	2.60	5.56	Argilla
11.80	1.40	0.147	3.00	10.48	Argilla
12.00	1.80	0.053	3.00	2.96	Limo
12.20	2.60	0.133	3.00	5.13	Argilla
12.40	1.40	0.120	3.20	8.57	Argilla
12.60	4.00	0.067	3.60	1.67	Sabbia
12.80	4.20	0.107	4.00	2.54	Limo
13.00	6.20	0.107	4.00	1.72	Sabbia
13.20	5.20	0.120	3.60	2.31	Limo
13.40	4.20	0.173	4.00	4.13	Argilla
13.60	5.00	0.200	4.00	4.00	Argilla
13.80	6.40	0.107	4.20	1.67	Sabbia
14.00	8.20	0.080	4.20	0.98	Sabbia
14.20	3.40	0.120	3.80	3.53	Limo argilloso
14.40	1.60	0.173	3.80	10.83	Argilla
14.60	1.60	0.107	3.60	6.67	Argilla
14.80	1.80	0.107	3.80	5.93	Argilla
15.00	1.60	0.120	4.00	7.50	Argilla
15.20	1.80	0.120	4.00	6.67	Argilla
15.40	1.60	0.133	4.00	8.33	Argilla
15.60	2.00	0.133	4.00	6.67	Argilla
15.80	2.00	0.133	4.20	6.67	Argilla
16.00	2.00	0.133	4.20	6.67	Argilla
16.20	1.80	0.133	4.40	7.41	Argilla
16.40	1.60	0.147	4.50	9.17	Argilla
16.60	1.40	0.120	4.40	8.57	Argilla
16.80	1.40	0.107	4.60	7.62	Argilla
17.00	1.40	0.107	4.60	7.62	Argilla
17.20	1.60	0.093	4.80	5.83	Argilla
17.40	1.40	0.120	4.80	8.57	Argilla
17.60	1.40	0.107	4.80	7.62	Argilla
17.80	1.35	0.123	4.80	9.14	Argilla
18.00	1.60	0.120	5.00	7.50	Argilla
18.20	1.60	0.133	5.20	8.33	Argilla
18.40	1.80	0.133	5.20	7.41	Argilla
18.60	1.80	0.147	5.20	8.15	Argilla
18.80	1.60	0.133	5.40	8.33	Argilla
19.00	1.80	0.120	5.50	6.67	Argilla
19.20	1.60	0.147	5.60	9.17	Argilla
19.40	1.40	0.133	5.80	9.52	Argilla
19.60	1.60	0.107	6.40	6.67	Argilla
19.80	1.60	0.093	6.60	5.83	Argilla
20.00	1.80	0.107	6.60	5.93	Argilla
20.20	2.40	0.107	6.80	4.44	Argilla
20.40	2.20	0.133	6.80	6.06	Argilla

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D	Qc	Fs	I	Rf	Tipo di Terreno
20.60	1.60	0.107	6.80	6.67	Argilla
20.80	2.00	0.080	6.80	4.00	Argilla
21.00	1.80	0.107	6.80	5.93	Argilla
21.20	1.80	0.107	7.00	5.93	Argilla
21.40	1.60	0.107	7.20	6.67	Argilla
21.60	4.20	0.120	7.20	2.86	Limo
21.80	2.40	0.133	7.00	5.56	Argilla
22.00	3.40	0.187	7.80	5.49	Argilla
22.20	8.00	0.133	7.80	1.67	Sabbia
22.40	3.00	0.200	7.80	6.67	Argilla
22.60	4.40	0.187	7.80	4.24	Argilla
22.80	7.20	0.153	7.80	2.13	Limo sabbioso
23.00	5.20	0.120	7.60	2.31	Limo
23.20	6.20	0.220	8.20	3.55	Limo argilloso
23.40	6.40	0.107	8.20	1.67	Sabbia
23.60	2.80	0.147	8.00	5.24	Argilla
23.80	4.40	0.133	8.00	3.03	Limo argilloso
24.00	1.80	0.067	7.80	3.70	Limo argilloso
24.20	2.00	0.200	8.40	10.00	Argilla
24.40	5.40	0.080	8.20	1.48	Sabbia
24.60	4.60	0.173	8.40	3.77	Limo argilloso
24.80	4.80	0.107	8.00	2.22	Limo sabbioso
25.00	4.00	0.147	8.60	3.67	Limo argilloso
25.20	2.80	0.147	8.60	5.24	Argilla
25.40	4.00	0.173	8.80	4.33	Argilla
25.60	4.40	0.147	8.20	3.33	Limo argilloso
25.80	2.00	0.120	8.40	6.00	Argilla
26.00	2.00	0.120	8.50	6.00	Argilla
26.20	1.20	0.133	8.60	11.11	Argilla
26.40	1.80	0.080	8.60	4.44	Argilla
26.60	1.40	0.080	8.40	5.71	Argilla
26.80	1.20	0.080	8.60	6.67	Argilla
27.00	2.00	0.133	8.60	6.67	Argilla
27.20	1.80	0.080	8.40	4.44	Argilla
27.40	1.00	0.053	8.80	5.33	Argilla
27.60	5.00	0.133	9.00	2.67	Limo
27.80	6.20	0.173	9.60	2.80	Limo
28.00	6.00	0.120	9.60	2.00	Limo sabbioso
28.20	5.60	0.107	9.50	1.90	Limo sabbioso
28.40	6.20	0.120	9.60	1.94	Limo sabbioso
28.60	7.80	0.093	9.20	1.20	Sabbia
28.80	8.20	0.107	9.50	1.30	Sabbia
29.00	8.40	0.080	9.80	0.95	Sabbia
29.20	8.40	0.107	9.80	1.27	Sabbia
29.40	8.00	0.120	10.00	1.50	Sabbia
29.60	6.60	0.160	10.00	2.42	Limo
29.80	4.00	0.333	10.20	8.33	Argilla
30.00	7.00	0.133	10.50	1.90	Limo sabbioso
30.20	7.20	0.107	11.20	1.48	Sabbia
30.40	7.40	0.147	11.20	1.98	Limo sabbioso
30.60	7.60	0.120	11.40	1.58	Sabbia
30.80	8.00	0.107	10.00	1.33	Sabbia
31.00	6.00	0.133	10.00	2.22	Limo sabbioso
31.20	7.20	0.080	10.20	1.11	Sabbia
31.40	6.00	0.133	10.50	2.22	Limo sabbioso
31.60	6.00	0.133	10.80	2.22	Limo sabbioso

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D	Qc	Fs	I	Rf	Tipo di Terreno
31.80	6.00	0.200	10.60	3.33	Limo argilloso
32.00	8.00	0.120	10.60	1.50	Sabbia
32.20	8.00	0.120	10.60	1.50	Sabbia
32.40	8.00	0.120	10.60	1.50	Sabbia
32.60	8.20	0.093	11.20	1.14	Sabbia
32.80	2.00	0.667	10.80	33.33	Argilla
33.00	8.40	0.093	10.60	1.11	Sabbia
33.20	8.20	0.187	10.80	2.28	Limo sabbioso
33.40	8.20	0.187	11.20	2.28	Limo sabbioso
33.60	7.00	0.133	10.60	1.90	Limo sabbioso
33.80	8.00	0.133	11.00	1.67	Sabbia
34.00	8.00	0.200	10.60	2.50	Limo
34.20	8.40	0.240	10.80	2.86	Limo
34.40	8.60	0.227	11.00	2.64	Limo
34.60	7.40	0.307	11.20	4.14	Argilla
34.80	6.00	0.187	9.80	3.11	Limo argilloso
35.00	2.80	0.213	9.60	7.62	Argilla
35.20	3.70	0.287	10.20	7.75	Argilla
35.40	5.20	0.133	10.00	2.56	Limo
35.60	5.00	0.200	10.00	4.00	Argilla
35.80	3.00	0.200	10.50	6.67	Argilla
36.00	4.00	0.267	11.20	6.67	Argilla
36.20	8.00	0.267	11.40	3.33	Limo argilloso
36.40	8.00	0.400	11.80	5.00	Argilla
36.60	10.00	0.267	11.60	2.67	Limo
36.80	8.00	0.267	11.20	3.33	Limo argilloso
37.00	8.00	0.133	10.80	1.67	Sabbia
37.20	4.80	0.133	10.80	2.78	Limo
37.40	3.00	0.147	10.80	4.89	Argilla
37.60	6.00	0.133	10.50	2.22	Limo sabbioso
37.80	3.40	0.240	11.20	7.06	Argilla
38.00	8.00	0.267	11.60	3.33	Limo argilloso
38.20	8.00	0.267	12.00	3.33	Limo argilloso
38.40	8.40	0.307	12.50	3.65	Limo argilloso
38.60	8.40	0.507	12.50	6.03	Argilla
38.80	8.00	0.533	12.20	6.67	Argilla
39.00	8.40	0.240	12.20	2.86	Limo
39.20	9.00	0.333	9.60	3.70	Limo argilloso
39.40	9.00	0.200	9.80	2.22	Limo sabbioso
39.60	8.80	0.347	9.60	3.94	Limo argilloso
39.80	8.80	0.280	9.20	3.18	Limo argilloso
40.00	3.80	0.200	9.20	5.26	Argilla
40.20	8.00	0.400	10.40	5.00	Argilla
40.40	9.00	0.467	10.40	5.19	Argilla
40.60	9.00	0.333	10.20	3.70	Limo argilloso
40.80	8.00	0.267	10.40	3.33	Limo argilloso
41.00	8.00	0.133	9.60	1.67	Sabbia
41.20	2.00	0.133	9.40	6.67	Argilla
41.40	6.00	0.120	9.60	2.00	Limo sabbioso
41.60	6.00	0.120	9.60	2.00	Limo sabbioso
41.80	7.00	0.133	10.00	1.90	Limo sabbioso
42.00	9.00	0.200	10.40	2.22	Limo sabbioso
42.20	9.00	0.200	10.50	2.22	Limo sabbioso
42.40	9.00	0.333	11.00	3.70	Limo argilloso
42.60	9.80	0.547	11.40	5.58	Argilla
42.80	9.20	0.587	11.40	6.38	Argilla

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D	Qc	Fs	I	Rf	Tipo di Terreno
43.00	9.00	0.600	10.50	6.67	Argilla
43.20	5.00	0.067	9.60	1.33	Sabbia
43.40	2.60	0.107	10.00	4.10	Argilla
43.60	9.00	0.200	10.40	2.22	Limo sabbioso
43.80	9.00	0.200	10.20	2.22	Limo sabbioso
44.00	9.20	0.187	10.40	2.03	Limo sabbioso
44.20	9.00	0.067	10.20	0.74	Sabbia
44.40	3.50	0.167	9.20	4.76	Argilla
44.60	2.20	0.253	9.20	11.52	Argilla
44.80	2.80	0.173	9.20	6.19	Argilla
45.00	5.50	0.033	9.20	0.61	Sabbia
45.20	1.80	0.160	9.40	8.89	Argilla
45.40	3.00	0.213	9.50	7.11	Argilla
45.60	2.20	0.147	9.40	6.67	Argilla
45.80	2.20	0.107	9.50	4.85	Argilla
46.00	6.00	0.160	10.40	2.67	Limo
46.20	4.00	0.133	10.50	3.33	Limo argilloso
46.40	4.60	0.213	11.00	4.64	Argilla
46.60	6.50	0.273	12.55	4.20	Argilla
46.80	10.50	0.158	13.50	1.50	Sabbia
47.00	31.20	0.210	16.50	0.67	Sabbia

Fine -

Qc (MN/mq) Resistenza alla punta I (°) Inclinazione
Fs (MN/mq) Attrito laterale locale Rf (%) Rapporto di attrito

1 MN/mq = 10.2 Kg/cmq

Cone ID: GD.100.1000.15 Cone serial: 5892 File ID: MONTOPOL.2

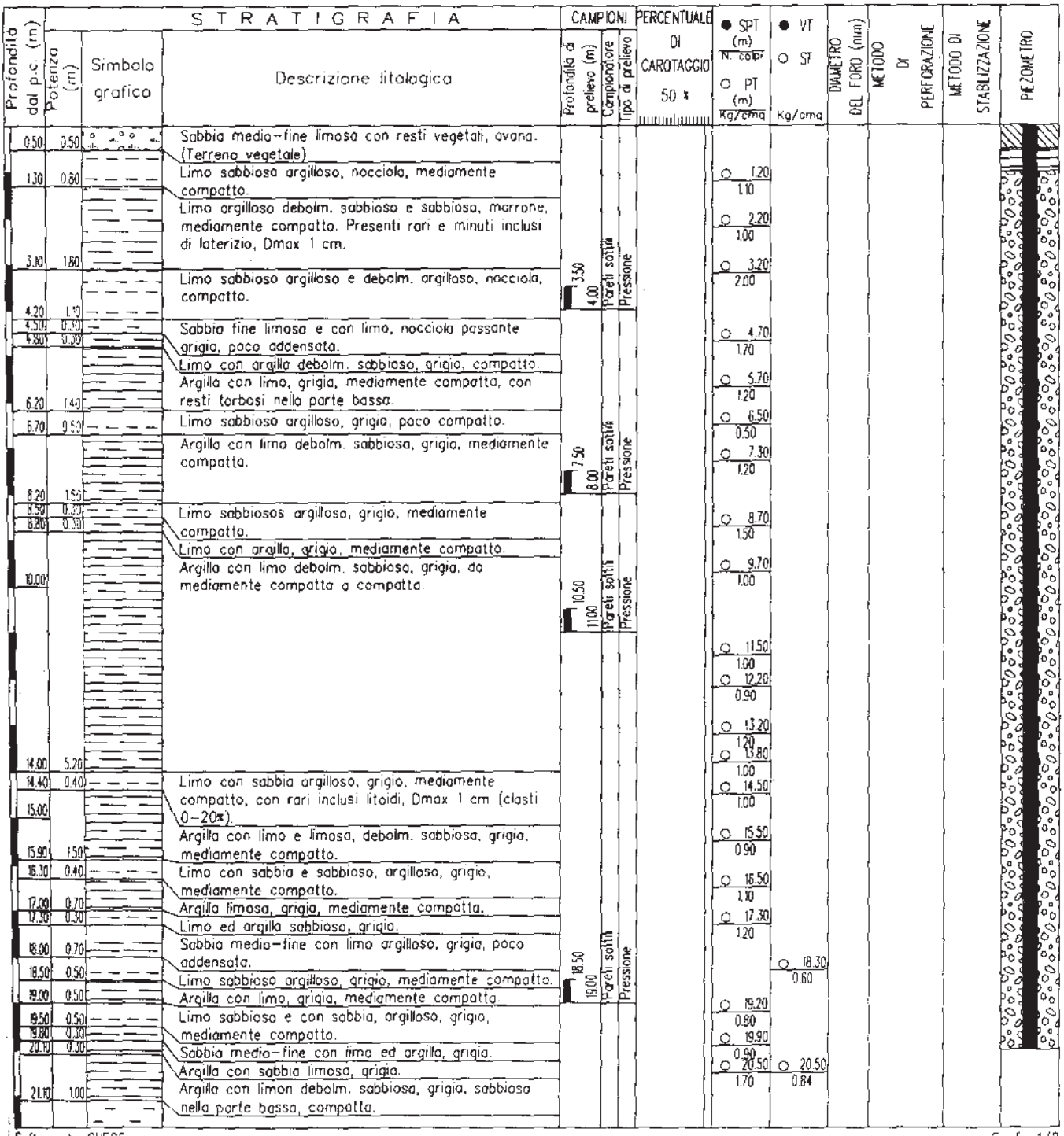
D	Qc	Fs	I	Rf	Tipo di Terreno
0.60	3.00	0.200	0.60	6.67	Argilla
0.80	3.00	0.367	1.00	12.22	Argilla
1.00	2.00	0.093	0.85	4.67	Argilla
1.20	1.00	0.067	0.75	6.67	Argilla
1.40	1.20	0.080	0.60	6.67	Argilla
1.60	0.80	0.107	0.55	13.33	Argilla
1.80	2.40	0.027	0.60	1.11	Sabbia
2.00	2.40	0.107	0.90	4.44	Argilla
2.20	1.40	0.187	0.90	13.33	Argilla
2.40	1.40	0.187	0.95	13.33	Argilla
2.60	1.60	0.147	0.95	9.17	Argilla
2.80	1.40	0.160	0.94	11.43	Argilla
3.00	1.20	0.133	0.92	11.11	Argilla
3.20	1.40	0.080	0.95	5.71	Argilla
3.40	1.40	0.067	0.94	4.76	Argilla
3.60	1.20	0.067	0.90	5.56	Argilla
3.80	0.80	0.053	0.88	6.67	Argilla
4.00	0.80	0.053	0.85	6.67	Argilla
4.20	1.00	0.053	0.88	5.33	Argilla
4.40	1.40	0.067	0.94	4.76	Argilla
4.60	1.00	0.093	0.95	9.33	Argilla
4.80	1.20	0.080	0.94	6.67	Argilla
5.00	1.20	0.080	0.92	6.67	Argilla
5.20	0.80	0.067	0.80	8.33	Argilla
5.40	0.80	0.080	0.78	10.00	Argilla
5.60	0.70	0.060	0.76	8.57	Argilla
5.80	0.40	0.067	0.76	16.67	Argilla
6.00	0.40	0.053	0.75	13.33	Argilla
6.20	0.40	0.053	0.78	13.33	Argilla
6.40	0.60	0.053	0.78	8.89	Argilla
6.60	1.00	0.053	0.78	5.33	Argilla
6.80	0.50	0.060	0.78	12.00	Argilla
7.00	0.40	0.053	0.75	13.33	Argilla
7.20	0.50	0.060	0.78	12.00	Argilla
7.40	1.00	0.053	0.80	5.33	Argilla
7.60	0.80	0.067	0.76	8.33	Argilla
7.80	0.50	0.060	0.75	12.00	Argilla
8.00	0.50	0.060	0.75	12.00	Argilla
8.20	0.80	0.067	0.80	8.33	Argilla
8.40	0.60	0.053	0.78	8.89	Argilla
8.60	0.80	0.053	0.76	6.67	Argilla
8.80	1.00	0.053	1.00	5.33	Argilla
9.00	1.20	0.067	1.20	5.56	Argilla
9.20	1.40	0.080	1.40	5.71	Argilla

CPT:2

D	Qc	Fs	I	Rf	Tipo di Terreno
9.40	1.40	0.080	1.50	5.71	Argilla
9.60	1.00	0.080	1.50	8.00	Argilla
9.80	1.00	0.053	1.50	5.33	Argilla
10.00	0.40	0.067	1.40	16.67	Argilla
10.20	0.60	0.053	1.40	8.89	Argilla
10.40	1.00	0.053	1.60	5.33	Argilla
10.60	1.20	0.053	1.60	4.44	Argilla
10.80	1.40	0.067	1.60	4.76	Argilla
11.00	1.40	0.093	1.80	6.67	Argilla
11.20	1.40	0.107	1.80	7.62	Argilla
11.40	1.40	0.093	2.00	6.67	Argilla
11.60	1.00	0.080	2.00	8.00	Argilla
11.80	1.00	0.053	2.00	5.33	Argilla
12.00	2.00	0.067	2.00	3.33	Limo argilloso
12.20	1.20	0.080	2.00	6.67	Argilla
12.40	0.80	0.067	2.20	8.33	Argilla
12.60	0.80	0.067	2.20	8.33	Argilla
12.80	2.00	0.053	2.00	2.67	Limo
13.00	0.80	0.080	2.00	10.00	Argilla
13.20	1.00	0.080	2.20	8.00	Argilla
13.40	1.00	0.067	2.20	6.67	Argilla
13.60	1.20	0.067	2.00	5.56	Argilla
13.80	0.80	0.080	2.00	10.00	Argilla
14.00	1.00	0.053	2.00	5.33	Argilla
14.20	0.80	0.067	2.20	8.33	Argilla
14.40	1.20	0.053	2.20	4.44	Argilla
14.60	1.60	0.053	2.20	3.33	Limo argilloso
14.80	1.20	0.053	2.00	4.44	Argilla
15.00	0.80	0.067	2.30	8.33	Argilla
15.20	1.00	0.067	2.20	6.67	Argilla
15.40	1.00	0.067	2.20	6.67	Argilla
15.60	0.80	0.067	2.30	8.33	Argilla
15.80	0.80	0.080	2.30	10.00	Argilla
16.00	1.00	0.067	2.30	6.67	Argilla
16.20	0.80	0.067	2.40	8.33	Argilla
16.40	1.00	0.053	2.40	5.33	Argilla
16.60	0.80	0.067	2.40	8.33	Argilla
16.80	1.00	0.053	2.40	5.33	Argilla
17.00	1.40	0.067	2.80	4.76	Argilla
17.20	4.40	0.120	3.00	2.73	Limo
17.40	3.00	0.107	3.20	3.56	Limo argilloso
17.60	4.80	0.147	3.40	3.06	Limo argilloso
17.80	1.60	0.147	3.00	9.17	Argilla
18.00	1.00	0.080	3.00	8.00	Argilla
18.20	1.20	0.067	2.80	5.56	Argilla
18.40	1.20	0.080	2.80	6.67	Argilla
18.60	1.00	0.067	2.60	6.67	Argilla
18.80	1.00	0.053	2.70	5.33	Argilla
19.00	1.40	0.080	2.80	5.71	Argilla
19.20	1.00	0.080	3.00	8.00	Argilla
19.40	1.00	0.067	3.20	6.67	Argilla
19.60	1.20	0.053	3.20	4.44	Argilla
19.80	1.00	0.067	3.00	6.67	Argilla
20.00	0.80	0.067	3.00	8.33	Argilla

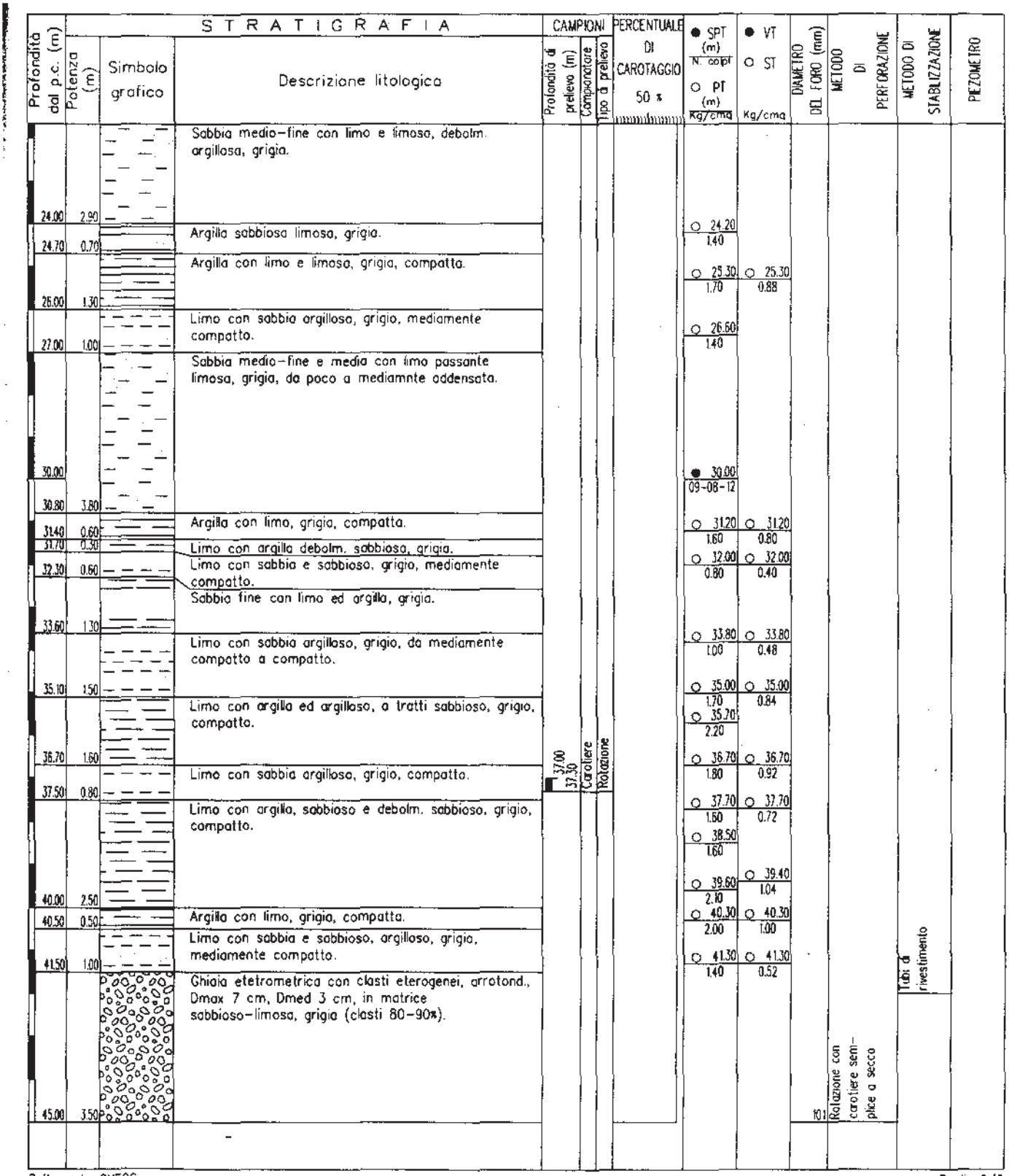
Fine -

9663



Software by GHEOS

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Software by GHEOS

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CARATTERIZZAZIONE UNITA' LITOTECNICHE - Prove di Laboratorio

U.L., campione, z : sigla unità litotecnica, sigla campione e profondità di prelievo vv. TAV.2
g : peso naturale di volume
w : umidità naturale

SU: classificazione nel sistema unificato secondo la carta di plasticità di Casagrande dei limiti liquido e plastico (C.N.R. - UNI 10013)
A.G.I. : classificazione A.G.I. da granulometria per via umida e sedimentazione (C.N.R. - UNI 10014)
HRB- AASHO, Ig : classificazione della Highway Research Board- American Association of State Highway Officials, Indice di gruppo

c', f': coesione ed angolo d'attrito in termini di sforzi efficaci ottenuti nella prova di taglio diretto consolidata drenata (Raccomandazioni A.G.I. 1994)

Cu : coesione non drenata da prova di compressione con espansione laterale libera (ASTM D2166)

Cc, e°, CR, M, cv , p: Coefficiente di compressibilità, indice dei vuoti iniziale, rapporto di compressione, intervalli del modulo edometrico e del coefficiente di consolidazione, pressioni corrispondenti ottenuti da prove edometrica ad incrementi di carico con ciclo fino a 16 Kg/cmq. (Raccomandazioni A.G.I. 1994).

U.L.	campione	z [m]	γ [g/cmc]	w %	LL %	IP %	argilla	limo	sabbia	ghiaia	SU	AGI	HRB	Ig	c' [t/mq]	ϕ °	Cu [t/mq]	Cc	e°	CR	M [Kg/cmq]	cv [cmq/s]	p' [Kg/cmq]
β																							
β																							
β																							
χ																							
χ																							
χ																							
χ																							
δ																							
δ																							
δ	S4/C4	18.5	1.94	28.2							CL-ML	limo con sabbia argilloso						0.26	0.826	0.142	38 - 43	2.2E-2 9.7 E-3	1 - 2
δ																							
δ'																							
ε	S4/C1	3.5	1.93	27.8							CL - ML	limo con argilla deb sabbioso	A5	9.2	0.06	28.9	0.31	0.30	0.836	0.163	31 - 36	.5 E-2 - 7.4 E -	1 - 2
ε																							
ε																							
ε																							
ε'																							
ε'	S4/C2	7.5	1.87	36.8							ML	argilla con limo						0.36	1.050	0.176	26 - 34	3.2 - 2.8 E-4	1 - 2
ε'	S4/C3	10.5	1.95	29.5							CL	limo con argilla			0.20	23.9	0.38						
ε'																							
ε'	S4/C5	37.0	1.97	28.9							CL	limo con argilla			0.06	26.6	0.32	0.22	0.809	0.122	21 - 34	7.0 - 7.4 E-4	1 - 2