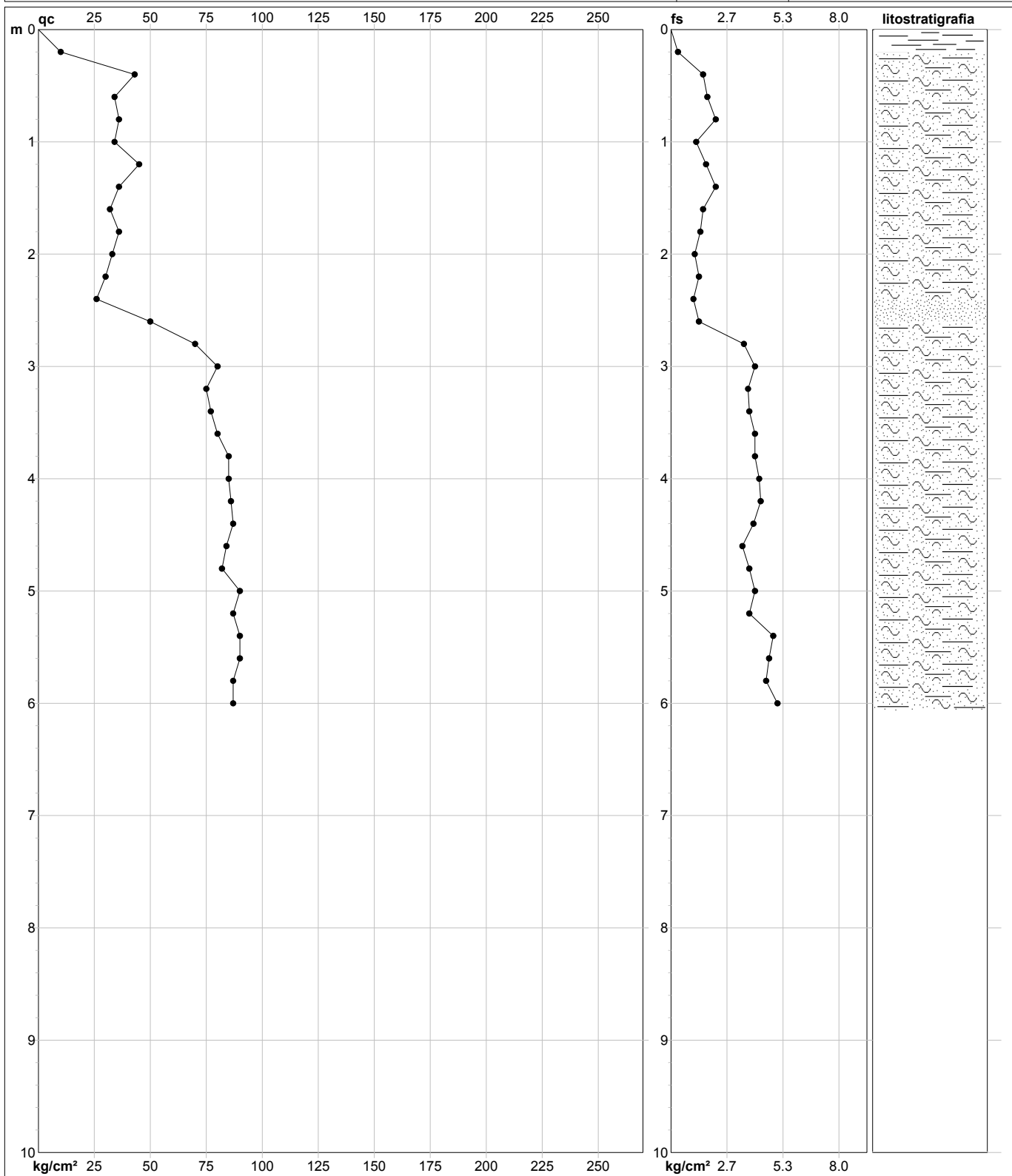


PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI DI RESISTENZA E LITOLOGIA

CPT	3
riferimento	San Sep

Committente: Dott. Geologo Montini	U.M.: kg/cm²	Data esec.: 12/04/2011
Cantiere: Iottizzazione	Scala: 1:50	Quota inizio:
Località: San Sepolcro (AR)	Pagina: 1	Falda:
	Elaborato:	



Coord. Relative	Coord. Geografiche	Litologia: Begemann [qc + qc/fs] 4 Zone	Preforo: m
Xr: m	Xg:	Penetrometro: TG63-200	Corr.astine: kg/ml
Yr: m	Yg:	Responsabile:	
Zr: m	Zg:	Assistente:	

nota:

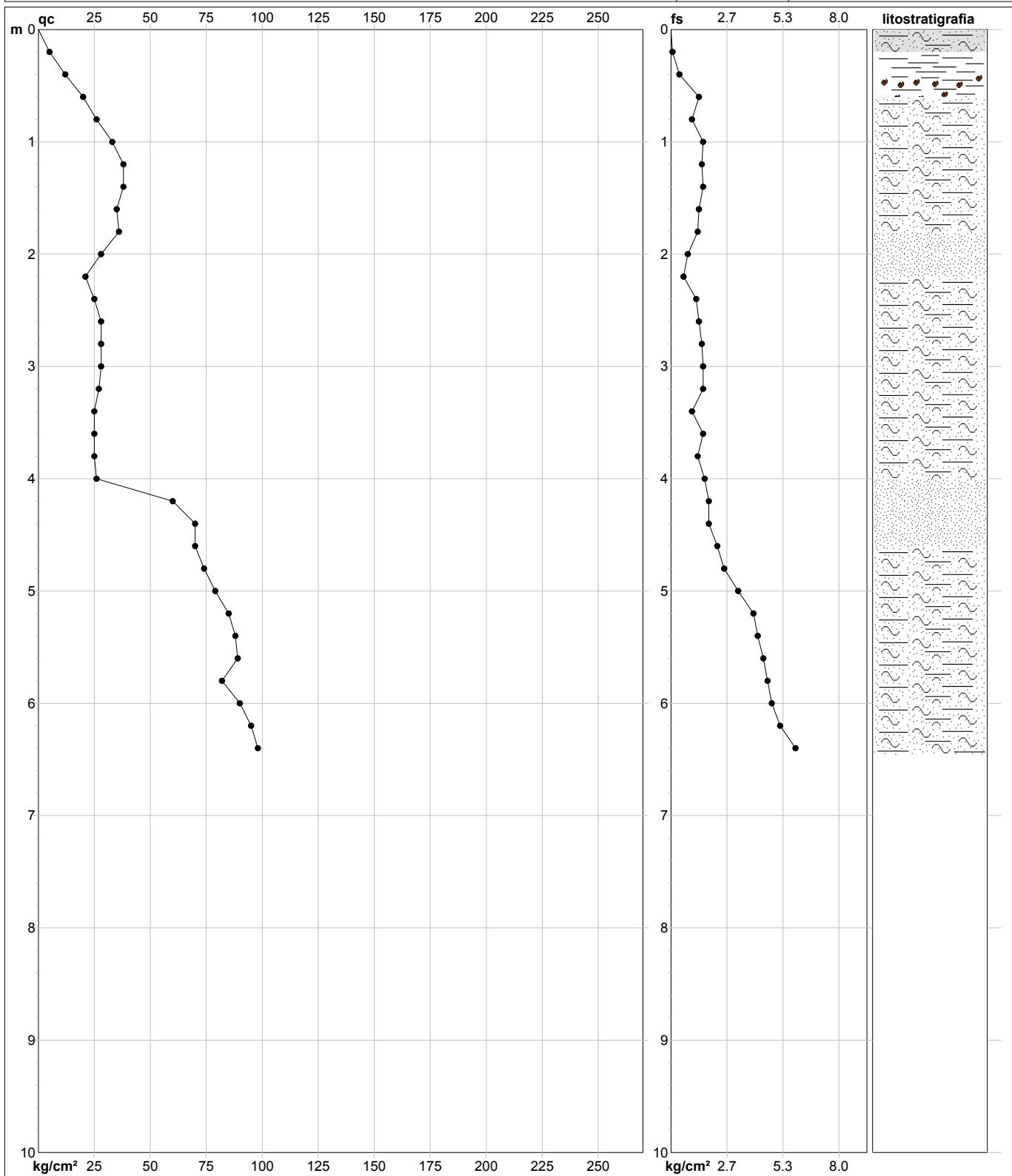
FON050

PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI DI RESISTENZA E LITOLOGIA

CPT
 riferimento
4
 San Sep

Committente: **Dott. Geologo Montini**
 Cantiere: **lottizzazione**
 Località: **San Sepolcro (AR)**

U.M.: **kg/cm²**
 Scala: **1:50**
 Pagina: **1**
 Elaborato:
 Data esec.: **12/04/2011**
 Quota inizio: **Piano Campagna**
 Falda: **Non rilevata**



Coord. Relative	Coord. Geografiche	Litologia: Begemann [qc + qc/fs] 4 Zone	Preforo: m
Xr: m	Xg: m	Penetrometro: DPSH (S. Heavy)	Corr.astine: kg/ml
Yr: m	Yg: m	Responsabile:	
Zr: m	Zg: m	Assistente:	

nota:

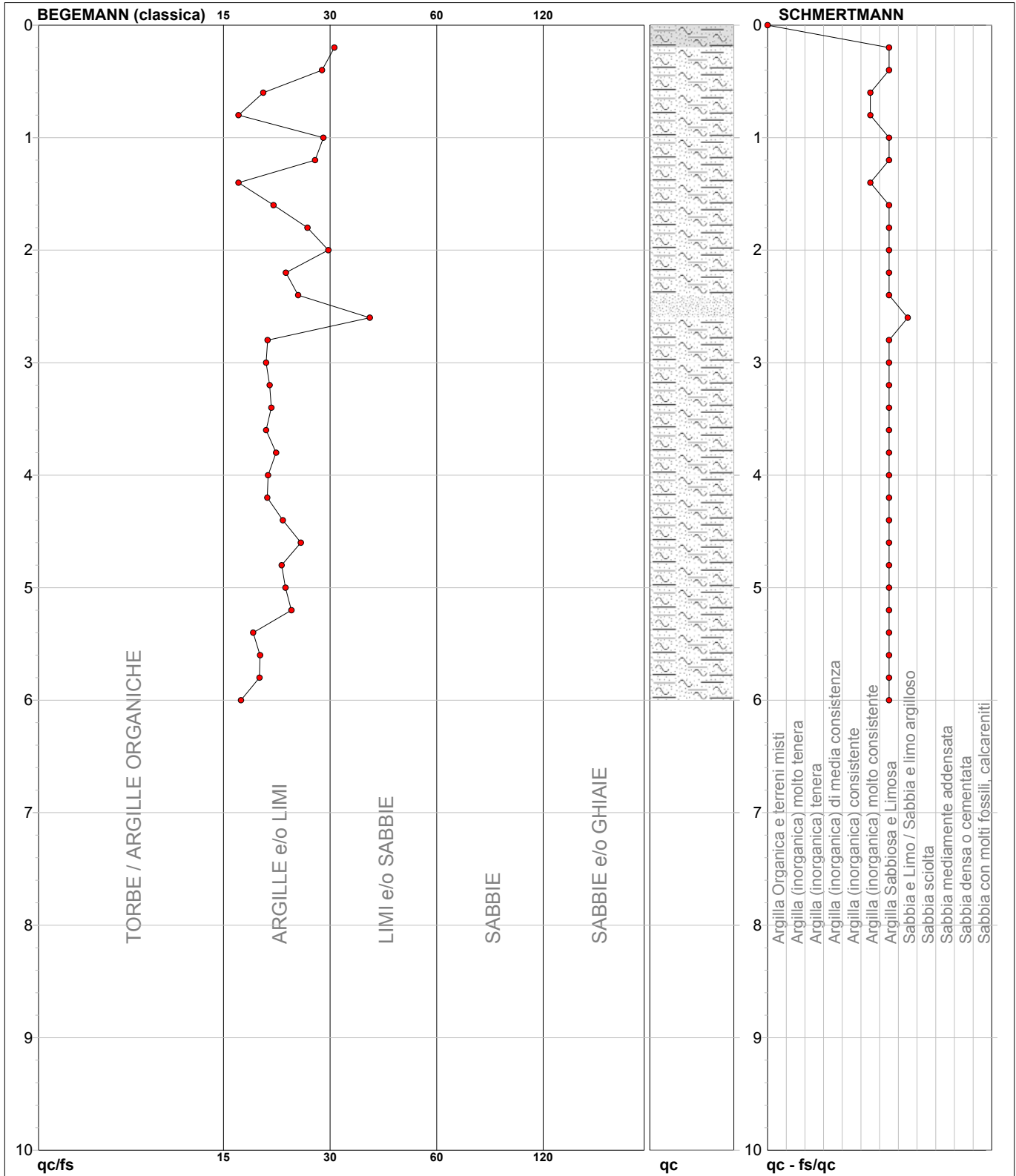
FON050

PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI LITOLOGIA

CPT	3
riferimento	San Sep

Committente: **Dott. Geologo Montini**
 Cantiere: **lottizzazione**
 Località: **San Sepolcro (AR)**

U.M.: **kg/cm²** Data esec.:
 Scala: **1:50**
 Pagina: **1**
 Elaborato: Falda: **Non rilevata**



Torbe / Argille org. :	20 punti, 40.82%	Argilla (inorganica) molto consist.:	3 punti, 6.12%	Argilla Sabbiosa e Limosa:	26 punti, 53.06%
Argille e/o Limi :	28 punti, 57.14%			Sabbia e Limo / Sabbia e limo arg.:	1 punti, 2.04%
Limi e/o Sabbie :	2 punti, 4.08%				

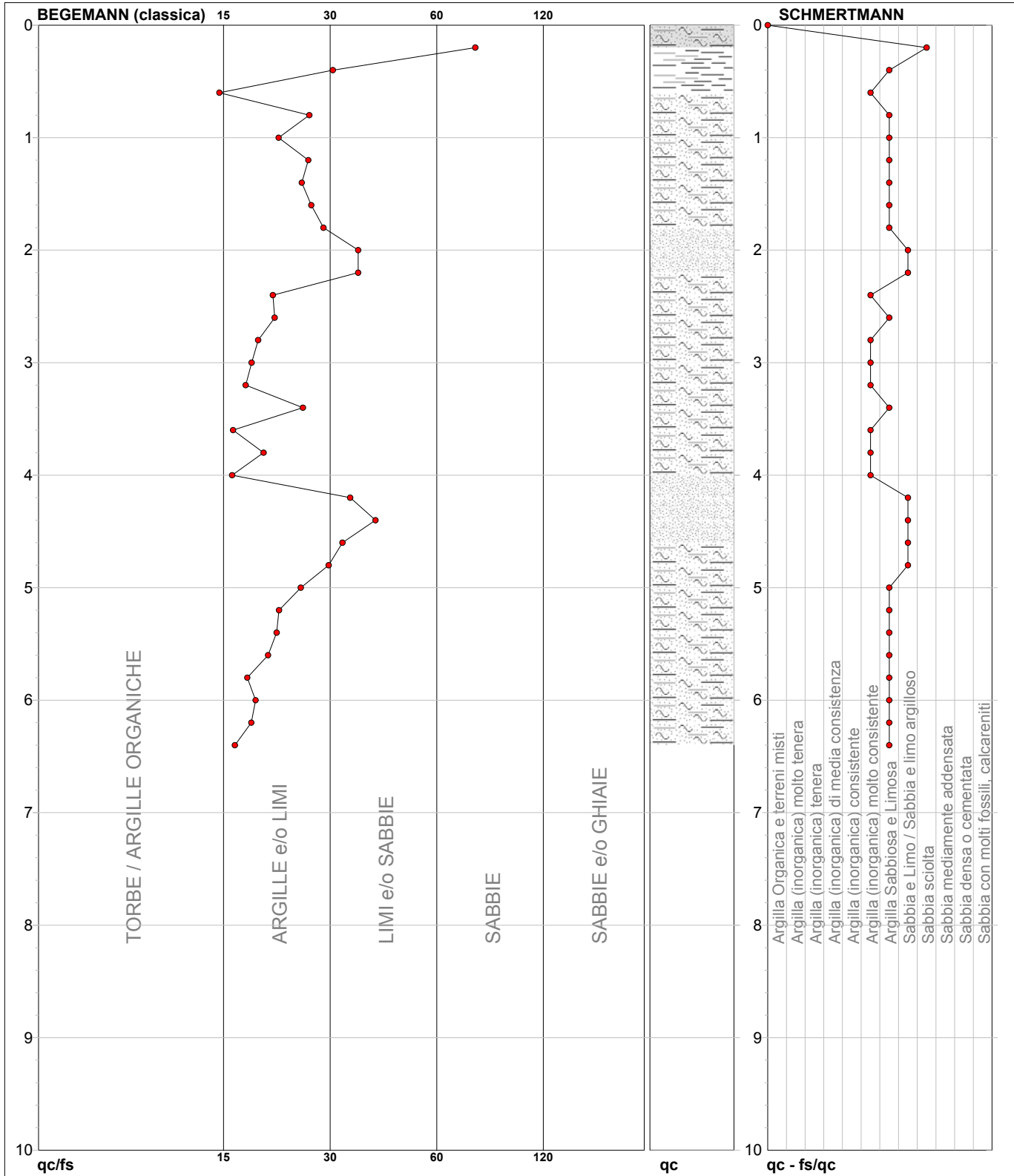
nota: FON050

PROVA PENETROMETRICA STATICA MECCANICA
DIAGRAMMI LITOLOGIA

CPT	4
riferimento	

Committente: **Dott. Geologo Montini**
 Cantiere: **lottizzazione**
 Località: **San Sepolcro (AR)**

U.M.: **kg/cm²** Data esec.:
 Scala: **1:50**
 Pagina: **1**
 Elaborato: Falda: **Non rilevata**



Torbe / Argille org. :	18 punti, 36.73%	Argilla (inorganica) molto consist.:	8 punti, 16.33%	Argilla Sabbiosa e Limosa:	17 punti, 34.69%
Argille e/o Limi :	26 punti, 53.06%			Sabbia e Limo / Sabbia e limo arg.:	6 punti, 12.24%
Limi e/o Sabbie :	5 punti, 10.20%			Sabbia sciolta:	1 punti, 2.04%
Sabbie:	1 punti, 2.04%				

nota: FON050

PROVA PENETROMETRICA STATICA MECCANICA
PARAMETRI GEOTECNICI

CPT	3
riferimento	San Sep

Committente: Dott. Geologo Montini	U.M.: kg/cm²	Data esec.:
Cantiere: Iottizzazione	Pagina: 1	
Località: San Sepolcro (AR)	Elaborato:	Falda: Non rilevata

Prof. m	qc U.M.	qc/fs	zone	γ' t/m ³	σ'_{vo} U.M.	Vs m/s	NATURA COESIVA					NATURA GRANULARE							F.L.	E'50 U.M.	E'25 U.M.	Mo U.M.
							Cu U.M.	OCR %	Eu50 U.M.	Eu25 U.M.	Mo U.M.	Dr %	σ_{Sc} (°)	σ_{Ca} (°)	σ_{Ko} (°)	σ_{DB} (°)	σ_{DM} (°)	σ_{Me} (°)				
0.20	10.0	30.3	4	1.85	0.04	132	0.5	99.9	85.0	127.5	40.0	73	40	38	35	33	41	26	--	16.7	25.0	30.0
0.40	43.0	28.1	4	1.85	0.07	228	1.4	99.9	243.7	365.5	129.0	100	43	41	39	36	45	30	--	71.7	107.5	129.0
0.60	34.0	19.7	4	1.85	0.11	209	1.1	99.9	192.7	289.0	102.0	89	42	38	36	33	42	29	--	56.7	85.0	102.0
0.80	36.0	16.9	4	1.85	0.15	214	1.2	85.9	204.0	306.0	108.0	83	41	37	34	32	41	30	--	60.0	90.0	108.0
1.00	34.0	28.3	4	1.85	0.19	209	1.1	60.5	192.7	289.0	102.0	76	40	36	33	31	40	29	--	56.7	85.0	102.0
1.20	45.0	26.9	4	1.85	0.22	232	1.5	68.4	255.0	382.5	135.0	81	41	36	33	31	40	31	--	75.0	112.5	135.0
1.40	36.0	16.9	4	1.85	0.26	214	1.2	42.7	204.0	306.0	108.0	70	40	34	31	29	39	30	--	60.0	90.0	108.0
1.60	32.0	20.9	4	1.85	0.30	204	1.1	31.2	181.3	272.0	96.0	63	39	33	30	28	37	29	--	53.3	80.0	96.0
1.80	36.0	25.7	4	1.85	0.33	214	1.2	31.2	204.0	306.0	108.0	64	39	33	30	28	37	30	--	60.0	90.0	108.0
2.00	33.0	29.2	4	1.85	0.37	207	1.1	24.5	187.0	280.5	99.0	58	38	32	29	27	36	29	--	55.0	82.5	99.0
2.20	30.0	22.6	4	1.85	0.41	199	1.0	19.3	170.0	255.0	90.0	53	38	31	28	26	35	29	--	50.0	75.0	90.0
2.40	26.0	24.3	4	1.85	0.44	189	0.9	15.8	157.9	236.8	78.0	46	37	30	27	25	34	28	--	43.3	65.0	78.0
2.60	50.0	37.6	3	1.85	0.48	242	--	--	--	--	--	66	39	33	30	28	37	31	--	83.3	125.0	150.0
2.80	70.0	20.2	4	1.85	0.52	274	2.3	41.2	396.7	595.0	210.0	76	40	34	31	29	38	32	--	116.7	175.0	210.0
3.00	80.0	20.0	4	1.85	0.56	289	2.7	44.7	453.3	680.0	240.0	79	41	34	32	30	39	33	--	133.3	200.0	240.0
3.20	75.0	20.4	4	1.85	0.59	282	2.5	38.0	425.0	637.5	225.0	75	40	34	31	29	38	32	--	125.0	187.5	225.0
3.40	77.0	20.6	4	1.85	0.63	284	2.6	36.4	436.3	654.5	231.0	74	40	34	31	29	38	33	--	128.3	192.5	231.0
3.60	80.0	20.0	4	1.85	0.67	289	2.7	35.6	453.3	680.0	240.0	74	40	34	31	29	38	33	--	133.3	200.0	240.0
3.80	85.0	21.3	4	1.85	0.70	295	2.8	35.9	481.7	722.5	255.0	75	40	34	31	29	38	33	--	141.7	212.5	255.0
4.00	85.0	20.2	4	1.85	0.74	295	2.8	33.6	481.7	722.5	255.0	74	40	33	30	28	38	33	--	141.7	212.5	255.0
4.20	86.0	20.1	4	1.85	0.78	297	2.9	32.1	487.3	731.0	258.0	73	40	33	30	28	38	33	--	143.3	215.0	258.0
4.40	87.0	22.1	4	1.85	0.81	298	2.9	30.7	493.0	739.5	261.0	72	40	33	30	28	37	33	--	145.0	217.5	261.0
4.60	84.0	24.7	4	1.85	0.85	294	2.8	27.8	476.0	714.0	252.0	70	40	33	30	28	37	33	--	140.0	210.0	252.0
4.80	82.0	22.0	4	1.85	0.89	291	2.7	25.6	464.7	697.0	246.0	68	39	32	29	27	37	33	--	136.7	205.0	246.0
5.00	90.0	22.5	4	1.85	0.93	302	3.0	27.3	510.0	765.0	270.0	70	40	33	30	28	37	33	--	150.0	225.0	270.0
5.20	87.0	23.3	4	1.85	0.96	298	2.9	24.9	493.0	739.5	261.0	68	39	32	29	27	36	33	--	145.0	217.5	261.0
5.40	90.0	18.5	4	1.85	1.00	302	3.0	24.8	510.0	765.0	270.0	68	39	32	29	27	36	33	--	150.0	225.0	270.0
5.60	90.0	19.3	4	1.85	1.04	302	3.0	23.7	510.0	765.0	270.0	68	39	32	29	27	36	33	--	150.0	225.0	270.0
5.80	87.0	19.2	4	1.85	1.07	298	2.9	21.8	493.0	739.5	261.0	65	39	32	29	27	36	33	--	145.0	217.5	261.0
6.00	87.0	17.2	4	1.85	1.11	298	2.9	20.9	493.0	739.5	261.0	65	39	31	28	27	36	33	--	145.0	217.5	261.0

PROVA PENETROMETRICA STATICA MECCANICA
PARAMETRI GEOTECNICI

CPT

4

riferimento

Committente: **Dott. Geologo Montini**

Cantiere: **lottizzazione**

Località: **San Sepolcro (AR)**

U.M.: **kg/cm²**

Data esec.:

Pagina: **1**

Elaborato:

Falda: **Non rilevata**

Prof. m	qc U.M.	qc/fs	zone	γ' t/m ³	σ'_{vo} U.M.	Vs m/s	NATURA COESIVA					NATURA GRANULARE										
							Cu U.M.	OCR %	Eu50 U.M.	Eu25 U.M.	Mo U.M.	Dr %	σ_{Sc} (°)	σ_{Ca} (°)	σ_{Ko} (°)	σ_{DB} (°)	σ_{DM} (°)	σ_{Me} (°)	F.L.	E'50 U.M.	E'25 U.M.	Mo U.M.
0.20	5.0	71.4	4	1.85	0.04	101	0.3	68.4	42.5	63.8	25.0	49	37	34	31	29	38	25	--	8.3	12.5	15.0
0.40	12.0	30.0	4	1.85	0.07	141	0.6	80.8	97.1	145.7	44.6	63	39	35	32	30	39	26	--	20.0	30.0	36.0
0.60	20.0	15.0	4	1.85	0.11	171	0.8	74.1	136.0	204.0	60.0	70	40	36	33	31	40	27	--	33.3	50.0	60.0
0.80	26.0	26.0	4	1.85	0.15	189	0.9	62.3	157.9	236.8	78.0	72	40	35	33	31	40	28	--	43.3	65.0	78.0
1.00	33.0	21.6	4	1.85	0.19	207	1.1	58.3	187.0	280.5	99.0	75	40	36	33	31	40	29	--	55.0	82.5	99.0
1.20	38.0	25.9	4	1.85	0.22	218	1.3	55.4	215.3	323.0	114.0	75	40	35	33	30	39	30	--	63.3	95.0	114.0
1.40	38.0	24.8	4	1.85	0.26	218	1.3	45.7	215.3	323.0	114.0	72	40	35	32	30	39	30	--	63.3	95.0	114.0
1.60	35.0	26.3	4	1.85	0.30	211	1.2	34.9	198.3	297.5	105.0	66	39	33	31	29	38	29	--	58.3	87.5	105.0
1.80	36.0	28.3	4	1.85	0.33	214	1.2	31.2	204.0	306.0	108.0	64	39	33	30	28	37	30	--	60.0	90.0	108.0
2.00	28.0	35.0	3	1.85	0.37	194	--	--	--	--	--	52	38	31	28	26	35	28	--	46.7	70.0	84.0
2.20	21.0	35.0	3	1.85	0.41	174	--	--	--	--	--	40	36	29	26	25	33	27	--	35.0	52.5	63.0
2.40	25.0	20.8	4	1.85	0.44	186	0.9	15.4	154.5	231.8	75.0	44	37	30	27	25	34	28	--	41.7	62.5	75.0
2.60	28.0	21.1	4	1.85	0.48	194	1.0	15.0	164.1	246.2	84.0	46	37	30	27	25	34	28	--	46.7	70.0	84.0
2.80	28.0	19.0	4	1.85	0.52	194	1.0	13.7	164.1	246.2	84.0	44	37	30	27	25	34	28	--	46.7	70.0	84.0
3.00	28.0	18.3	4	1.85	0.56	194	1.0	12.5	164.1	246.2	84.0	43	36	29	26	25	33	28	--	46.7	70.0	84.0
3.20	27.0	17.6	4	1.85	0.59	192	0.9	11.3	161.1	241.6	81.0	40	36	29	26	24	33	28	--	45.0	67.5	81.0
3.40	25.0	25.0	4	1.85	0.63	186	0.9	9.9	154.6	232.0	75.0	36	36	28	25	23	32	28	--	41.7	62.5	75.0
3.60	25.0	16.3	4	1.85	0.67	186	0.9	9.3	158.7	238.0	75.0	34	35	28	25	23	32	28	--	41.7	62.5	75.0
3.80	25.0	19.7	4	1.85	0.70	186	0.9	8.7	166.6	249.9	75.0	33	35	28	24	23	31	28	--	41.7	62.5	75.0
4.00	26.0	16.3	4	1.85	0.74	189	0.9	8.3	176.1	264.2	78.0	33	35	27	24	23	31	28	--	43.3	65.0	78.0
4.20	60.0	33.3	3	1.85	0.78	259	--	--	--	--	--	61	39	31	28	27	36	32	--	100.0	150.0	180.0
4.40	70.0	38.9	3	1.85	0.81	274	--	--	--	--	--	65	39	32	29	27	36	32	--	116.7	175.0	210.0
4.60	70.0	31.8	3	1.85	0.85	274	--	--	--	--	--	64	39	32	29	27	36	32	--	116.7	175.0	210.0
4.80	74.0	29.2	4	1.85	0.89	280	2.5	22.5	419.3	629.0	222.0	65	39	32	29	27	36	32	--	123.3	185.0	222.0
5.00	79.0	24.7	4	1.85	0.93	287	2.6	23.2	447.7	671.5	237.0	66	39	32	29	27	36	33	--	131.7	197.5	237.0
5.20	85.0	21.6	4	1.85	0.96	295	2.8	24.2	481.7	722.5	255.0	67	39	32	29	27	36	33	--	141.7	212.5	255.0
5.40	88.0	21.3	4	1.85	1.00	299	2.9	24.1	498.7	748.0	264.0	68	39	32	29	27	36	33	--	146.7	220.0	264.0
5.60	89.0	20.2	4	1.85	1.04	300	3.0	23.4	504.3	756.5	267.0	67	39	32	29	27	36	33	--	148.3	222.5	267.0
5.80	82.0	17.8	4	1.85	1.07	291	2.7	20.2	464.7	697.0	246.0	63	39	31	28	27	35	33	--	136.7	205.0	246.0
6.00	90.0	18.8	4	1.85	1.11	302	3.0	21.8	510.0	765.0	270.0	66	39	32	29	27	36	33	--	150.0	225.0	270.0
6.20	95.0	18.3	4	1.85	1.15	308	3.2	22.3	538.3	807.5	285.0	67	39	32	29	27	36	34	--	158.3	237.5	285.0
6.40	98.0	16.5	4	1.85	1.18	311	3.3	22.3	555.3	833.0	294.0	67	39	32	29	27	36	34	--	163.3	245.0	294.0

PROVA PENETROMETRICA STATICA MECCANICA LETTURE CAMPAGNA E VALORI TRASFORMATI	CPT	3
	riferimento	San Sep

Committente: Dott. Geologo Montini	U.M.: kg/cm²	Data esec.:
Cantiere: lottizzazione	Pagina: 1	
Località: San Sepolcro (AR)	Elaborato:	Falda: Non rilevata

H m	L1 -	L2 -	Lt -	qc kg/cm ²	fs kg/cm ²	F -	Rf %	H m	L1 -	L2 -	Lt -	qc kg/cm ²	fs kg/cm ²	F -	Rf %
0.20	10.0	15.0		10.0	0.33	30	3.3	3.20	75.0	130.0		75.0	3.67	20	4.9
0.40	43.0	66.0		43.0	1.53	28	3.6	3.40	77.0	133.0		77.0	3.73	21	4.8
0.60	34.0	60.0		34.0	1.73	20	5.1	3.60	80.0	140.0		80.0	4.00	20	5.0
0.80	36.0	68.0		36.0	2.13	17	5.9	3.80	85.0	145.0		85.0	4.00	21	4.7
1.00	34.0	52.0	110	34.0	1.20	28	3.5	4.00	85.0	148.0	430	85.0	4.20	20	4.9
1.20	45.0	70.0		45.0	1.67	27	3.7	4.20	86.0	150.0		86.0	4.27	20	5.0
1.40	36.0	68.0		36.0	2.13	17	5.9	4.40	87.0	146.0		87.0	3.93	22	4.5
1.60	32.0	55.0		32.0	1.53	21	4.8	4.60	84.0	135.0		84.0	3.40	25	4.0
1.80	36.0	57.0		36.0	1.40	26	3.9	4.80	82.0	138.0		82.0	3.73	22	4.5
2.00	33.0	50.0	130	33.0	1.13	29	3.4	5.00	90.0	150.0	485	90.0	4.00	23	4.4
2.20	30.0	50.0		30.0	1.33	23	4.4	5.20	87.0	143.0		87.0	3.73	23	4.3
2.40	26.0	42.0		26.0	1.07	24	4.1	5.40	90.0	163.0		90.0	4.87	18	5.4
2.60	50.0	70.0		50.0	1.33	38	2.7	5.60	90.0	160.0		90.0	4.67	19	5.2
2.80	70.0	122.0		70.0	3.47	20	5.0	5.80	87.0	155.0		87.0	4.53	19	5.2
3.00	80.0	140.0	280	80.0	4.00	20	5.0	6.00	87.0	163.0	520	87.0	5.07	17	5.8

H = profondità	qc = resistenza di punta
L1 = prima lettura (punta)	fs = resistenza laterale calcolata
L2 = seconda lettura (punta + laterale)	alla stessa quota di qc
Lt = terza lettura (totale)	F = rapporto Begemann (qc / fs)
CT = 10.00 costante di trasformazione	Rf = rapporto Schmertmann (fs / qc)*100

nota: FON050

PROVA PENETROMETRICA STATICA MECCANICA
LETTURE CAMPAGNA E VALORI TRASFORMATI

CPT

4

riferimento

Committente: **Dott. Geologo Montini**

Cantiere: **lottizzazione**

Località: **San Sepolcro (AR)**

U.M.: **kg/cm²**

Data esec.:

Pagina: 1

Elaborato:

Falda: Non rilevata

H m	L1 -	L2 -	Lt -	qc kg/cm ²	fs kg/cm ²	F -	Rf %	H m	L1 -	L2 -	Lt -	qc kg/cm ²	fs kg/cm ²	F -	Rf %
0.20	5.0	6.0		5.0	0.07	71	1.4								
0.40	12.0	18.0		12.0	0.40	30	3.3								
0.60	20.0	40.0		20.0	1.33	15	6.7								
0.80	26.0	41.0		26.0	1.00	26	3.8								
1.00	33.0	56.0		33.0	1.53	22	4.6								
1.20	38.0	60.0		38.0	1.47	26	3.9								
1.40	38.0	61.0		38.0	1.53	25	4.0								
1.60	35.0	55.0		35.0	1.33	26	3.8								
1.80	36.0	55.0		36.0	1.27	28	3.5								
2.00	28.0	40.0		28.0	0.80	35	2.9								
2.20	21.0	30.0		21.0	0.60	35	2.9								
2.40	25.0	43.0		25.0	1.20	21	4.8								
2.60	28.0	48.0		28.0	1.33	21	4.8								
2.80	28.0	50.0		28.0	1.47	19	5.3								
3.00	28.0	51.0		28.0	1.53	18	5.5								
3.20	27.0	50.0		27.0	1.53	18	5.7								
3.40	25.0	40.0		25.0	1.00	25	4.0								
3.60	25.0	48.0		25.0	1.53	16	6.1								
3.80	25.0	44.0		25.0	1.27	20	5.1								
4.00	26.0	50.0		26.0	1.60	16	6.2								
4.20	60.0	87.0		60.0	1.80	33	3.0								
4.40	70.0	97.0		70.0	1.80	39	2.6								
4.60	70.0	103.0		70.0	2.20	32	3.1								
4.80	74.0	112.0		74.0	2.53	29	3.4								
5.00	79.0	127.0		79.0	3.20	25	4.1								
5.20	85.0	144.0		85.0	3.93	22	4.6								
5.40	88.0	150.0		88.0	4.13	21	4.7								
5.60	89.0	155.0		89.0	4.40	20	4.9								
5.80	82.0	151.0		82.0	4.60	18	5.6								
6.00	90.0	162.0		90.0	4.80	19	5.3								
6.20	95.0	173.0		95.0	5.20	18	5.5								
6.40	98.0	187.0		98.0	5.93	17	6.1								

H = profondità

L1 = prima lettura (punta)

L2 = seconda lettura (punta + laterale)

Lt = terza lettura (totale)

CT = 10.00 costante di trasformazione

qc = resistenza di punta

fs = resistenza laterale calcolata

alla stessa quota di qc

F = rapporto Begemann (qc / fs)

Rf = rapporto Schmertmann (fs / qc)*100

nota:

FON050