

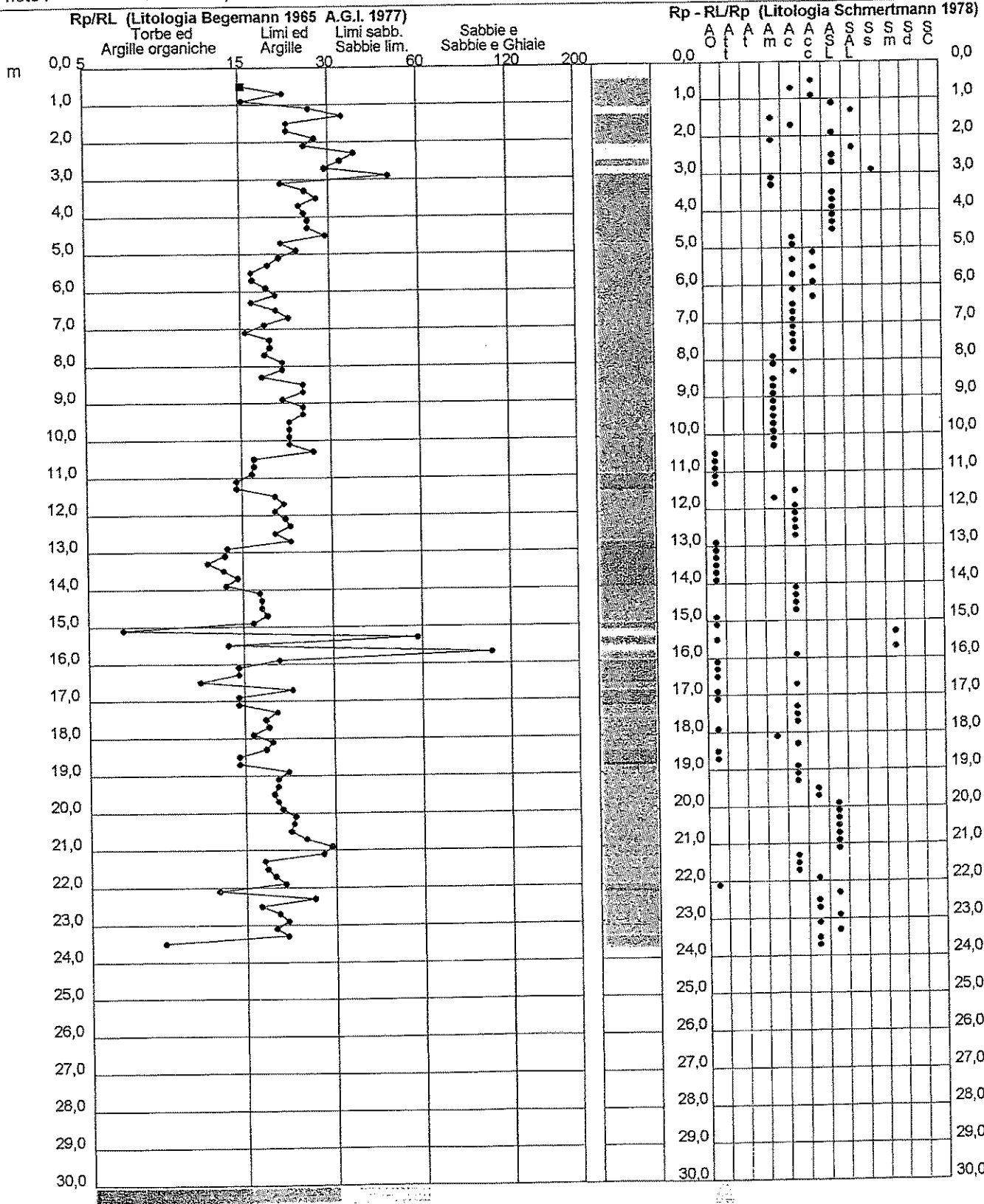
**PROVA PENETROMETRICA STATICA  
VALUTAZIONI LITOLOGICHE**

**CPT 2**

2.010496-253

- committente : Geologo Mancini Gianni  
- lavoro : Capannone Via val Tiberina  
- località : Porto d' Ascoli (AP)  
- note : Prefero di 0,70 mt con escavatore

- data : 27/09/2007  
- quota inizio : -0,70 da Piano Campagna  
- prof. falda : -0,50 m da quota inizio  
- scala vert.: 1 : 150



**PROVA PENETROMETRICA STATICA  
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA**

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prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	-	m	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	-
0,20	---	---	---	---	---	10,20	9,0	15,0	9,0	0,40	22,0
0,40	---	---	---	0,40	---	10,40	9,0	15,0	9,0	0,33	27,0
0,60	16,0	22,0	16,0	1,00	16,0	10,60	8,0	13,0	8,0	0,47	17,0
0,80	16,0	31,0	16,0	0,73	22,0	10,80	8,0	15,0	8,0	0,47	17,0
1,00	15,0	26,0	15,0	0,93	16,0	11,00	9,0	16,0	9,0	0,53	17,0
1,20	16,0	30,0	16,0	0,60	27,0	11,20	9,0	17,0	9,0	0,60	15,0
1,40	16,0	25,0	16,0	0,47	34,0	11,40	10,0	19,0	10,0	0,67	15,0
1,60	9,0	16,0	9,0	0,40	22,0	11,60	12,0	22,0	12,0	0,60	20,0
1,80	12,0	18,0	12,0	0,53	22,0	11,80	10,0	19,0	10,0	0,47	21,0
2,00	13,0	21,0	13,0	0,47	28,0	12,00	12,0	19,0	12,0	0,60	20,0
2,20	12,0	19,0	12,0	0,47	26,0	12,20	13,0	22,0	13,0	0,60	22,0
2,40	10,0	17,0	10,0	0,27	37,0	12,40	12,0	21,0	12,0	0,53	22,0
2,60	9,0	13,0	9,0	0,27	34,0	12,60	12,0	20,0	12,0	0,60	20,0
2,80	12,0	16,0	12,0	0,40	30,0	12,80	12,0	21,0	12,0	0,53	22,0
3,00	13,0	19,0	13,0	0,27	49,0	13,00	13,0	21,0	13,0	0,93	14,0
3,20	10,0	14,0	10,0	0,47	21,0	13,20	10,0	24,0	10,0	0,73	14,0
3,40	12,0	19,0	12,0	0,47	26,0	13,40	8,0	19,0	8,0	0,67	12,0
3,60	15,0	22,0	15,0	0,53	28,0	13,60	9,0	19,0	9,0	0,67	13,0
3,80	18,0	26,0	18,0	0,73	25,0	13,80	9,0	19,0	9,0	0,60	15,0
4,00	17,0	28,0	17,0	0,67	25,0	14,00	11,0	20,0	11,0	0,80	14,0
4,20	21,0	31,0	21,0	0,80	26,0	14,20	13,0	25,0	13,0	0,73	18,0
4,40	21,0	33,0	21,0	0,80	26,0	14,40	12,0	23,0	12,0	0,67	18,0
4,60	22,0	34,0	22,0	0,73	30,0	14,60	12,0	22,0	12,0	0,67	18,0
4,80	20,0	31,0	20,0	0,93	21,0	14,80	10,0	20,0	10,0	0,53	19,0
5,00	16,0	30,0	16,0	0,67	24,0	15,00	9,0	17,0	9,0	0,53	17,0
5,20	21,0	31,0	21,0	1,00	21,0	15,20	9,0	17,0	9,0	1,40	6,0
5,40	18,0	33,0	18,0	0,93	19,0	15,40	39,0	60,0	39,0	0,67	58,0
5,60	17,0	31,0	17,0	1,00	17,0	15,60	13,0	23,0	13,0	0,93	14,0
5,80	16,0	31,0	16,0	0,93	17,0	15,80	41,0	55,0	41,0	0,40	102,0
6,00	19,0	33,0	19,0	1,00	19,0	16,00	15,0	21,0	15,0	0,73	20,0
6,20	19,0	34,0	19,0	0,93	20,0	16,20	8,0	19,0	8,0	0,53	15,0
6,40	17,0	31,0	17,0	1,00	17,0	16,40	7,0	15,0	7,0	0,47	15,0
6,60	15,0	30,0	15,0	0,73	20,0	16,60	9,0	16,0	9,0	0,80	11,0
6,80	15,0	26,0	15,0	0,67	22,0	16,80	12,0	24,0	12,0	0,53	22,0
7,00	15,0	25,0	15,0	0,80	19,0	17,00	8,0	16,0	8,0	0,53	15,0
7,20	13,0	25,0	13,0	0,80	16,0	17,20	10,0	18,0	10,0	0,67	15,0
7,40	13,0	25,0	13,0	0,67	19,0	17,40	12,0	22,0	12,0	0,60	20,0
7,60	13,0	23,0	13,0	0,67	19,0	17,60	11,0	20,0	11,0	0,60	18,0
7,80	10,0	20,0	10,0	0,53	19,0	17,80	10,0	19,0	10,0	0,53	19,0
8,00	10,0	18,0	10,0	0,47	21,0	18,00	10,0	18,0	10,0	0,60	17,0
8,20	10,0	17,0	10,0	0,47	21,0	18,20	9,0	18,0	9,0	0,47	19,0
8,40	11,0	18,0	11,0	0,60	18,0	18,40	11,0	18,0	11,0	0,60	18,0
8,60	10,0	19,0	10,0	0,40	25,0	18,60	8,0	17,0	8,0	0,53	15,0
8,80	10,0	16,0	10,0	0,40	25,0	18,80	7,0	15,0	7,0	0,47	15,0
9,00	10,0	16,0	10,0	0,47	21,0	19,00	13,0	20,0	13,0	0,60	22,0
9,20	10,0	17,0	10,0	0,40	25,0	19,20	16,0	25,0	16,0	0,80	20,0
9,40	10,0	16,0	10,0	0,40	25,0	19,40	16,0	28,0	16,0	0,80	20,0
9,60	9,0	15,0	9,0	0,40	22,0	19,60	22,0	34,0	22,0	1,13	19,0
9,80	9,0	15,0	9,0	0,40	22,0	19,80	24,0	41,0	24,0	1,20	20,0
10,00	9,0	15,0	9,0	0,40	22,0	20,00	29,0	47,0	29,0	1,40	21,0

- PENETROMETRO STATICO tipo da 20 t - (con anello allargatore) -  
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s  
- punta meccanica tipo Begemann ø = 35.7 mm (area punta 10 cm<sup>2</sup> - apertura 60°)  
- manicotto laterale (superficie 150 cm<sup>2</sup>)

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LETTURE DI CAMPAGNA / VALORI DI RESISTENZA****CPT 2**

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prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	-	m	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	Kg/cm <sup>2</sup>	-
20,20	44,0	65,0	44,0	1,93	23,0	22,20	17,0	32,0	17,0	1,33	13,0
20,40	45,0	74,0	45,0	2,00	22,0	22,40	14,0	34,0	14,0	0,53	26,0
20,60	41,0	71,0	41,0	1,87	22,0	22,60	28,0	36,0	28,0	1,60	17,0
20,80	28,0	56,0	28,0	1,13	25,0	22,80	32,0	56,0	32,0	1,60	20,0
21,00	18,0	35,0	18,0	0,60	30,0	23,00	30,0	54,0	30,0	1,40	21,0
21,20	15,0	24,0	15,0	0,53	28,0	23,20	30,0	51,0	30,0	1,53	20,0
21,40	12,0	20,0	12,0	0,67	18,0	23,40	27,0	50,0	27,0	1,27	21,0
21,60	11,0	21,0	11,0	0,60	18,0	23,60	134,0	153,0	134,0	15,67	9,0
21,80	13,0	22,0	13,0	0,67	19,0	23,80	227,0	462,0	227,0	---	---
22,00	21,0	31,0	21,0	1,00	21,0						

- PENETROMETRO STATICO tipo da 20 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann  $\varnothing = 35.7$  mm (area punta 10 cm<sup>2</sup> - apertura 60°)
- manicotto laterale (superficie 150 cm<sup>2</sup>)



**PROVA PENETROMETRICA STATICA  
TABELLA PARAMETRI GEOTECNICI**

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Prof. m	Rp kg/cm <sup>2</sup>	Rp/Rl (-)	Natura Litol.	Y t/m <sup>2</sup>	NATURA COESIVA					NATURA GRANULARE											
					p'vo kg/cm <sup>2</sup>	Cu kg/cm <sup>2</sup>	OCR (-)	Eu50 kg/cm <sup>2</sup>	Eu25 kg/cm <sup>2</sup>	Mo kg/cm <sup>2</sup>	Dr %	σ1s (°)	σ2s (°)	σ3s (°)	σ4s (°)	σdm (°)	σmy (°)	Amax/g (-)	E'50 kg/cm <sup>2</sup>	E'25 kg/cm <sup>2</sup>	Mo kg/cm <sup>2</sup>
20,20	44	23	4:1	1,00	1,87	1,47	4,6	520	781	132	29	32	35	37	40	29	31	0,055	73	110	132
20,40	45	22	4:1	1,00	1,89	1,50	4,7	525	788	135	29	32	35	37	40	29	31	0,056	75	113	135
20,60	41	22	4:1	1,00	1,91	1,37	4,1	533	800	123	26	32	34	37	40	28	30	0,049	68	103	123
20,80	28	25	4:1	0,96	1,93	0,97	2,8	502	753	84	12	30	33	36	39	26	28	0,024	47	70	84
21,00	18	30	4:1	0,91	1,95	0,75	1,9	424	636	56	--	28	31	35	38	25	27	--	30	45	54
21,20	15	28	2:1	0,95	1,97	0,67	1,6	385	578	50	--	--	--	--	--	--	--	--	--	--	--
21,40	12	18	2:1	0,92	1,98	0,57	1,3	337	506	45	--	--	--	--	--	--	--	--	--	--	--
21,60	11	18	2:1	0,91	2,00	0,54	1,2	319	478	42	--	--	--	--	--	--	--	--	--	--	--
21,80	13	19	2:1	0,93	2,02	0,60	1,4	355	533	47	--	--	--	--	--	--	--	--	--	--	--
22,00	21	21	4:1	0,93	2,04	0,82	2,0	460	690	63	1	28	31	35	38	25	27	0,002	35	53	63
22,20	17	13	2:1	0,97	2,06	0,72	1,7	418	624	54	--	--	--	--	--	--	--	--	--	--	--
22,40	14	26	2:1	0,94	2,08	0,64	1,4	373	559	48	--	--	--	--	--	--	--	--	--	--	--
22,60	28	17	4:1	0,96	2,10	0,97	2,4	519	779	84	10	29	32	36	39	26	29	0,021	47	70	84
22,80	32	20	4:1	0,97	2,12	1,07	2,7	553	830	96	15	30	33	36	39	26	29	0,026	53	80	96
23,00	30	21	4:1	0,96	2,14	1,00	2,4	534	802	90	12	30	33	36	39	26	29	0,024	50	75	90
23,20	30	20	4:1	0,96	2,15	1,00	2,4	536	804	90	12	30	33	36	39	26	29	0,024	50	75	90
23,40	27	21	4:1	0,95	2,17	0,95	2,2	519	778	81	8	29	32	35	38	25	28	0,017	45	68	81
23,60	134	9	4:1	1,08	2,20	4,47	15,3	759	1139	402	63	37	39	41	43	34	35	0,138	223	335	402
23,80	227	--	3:1	1,15	2,22	--	--	--	--	--	81	39	41	43	44	37	39	0,192	378	568	681