

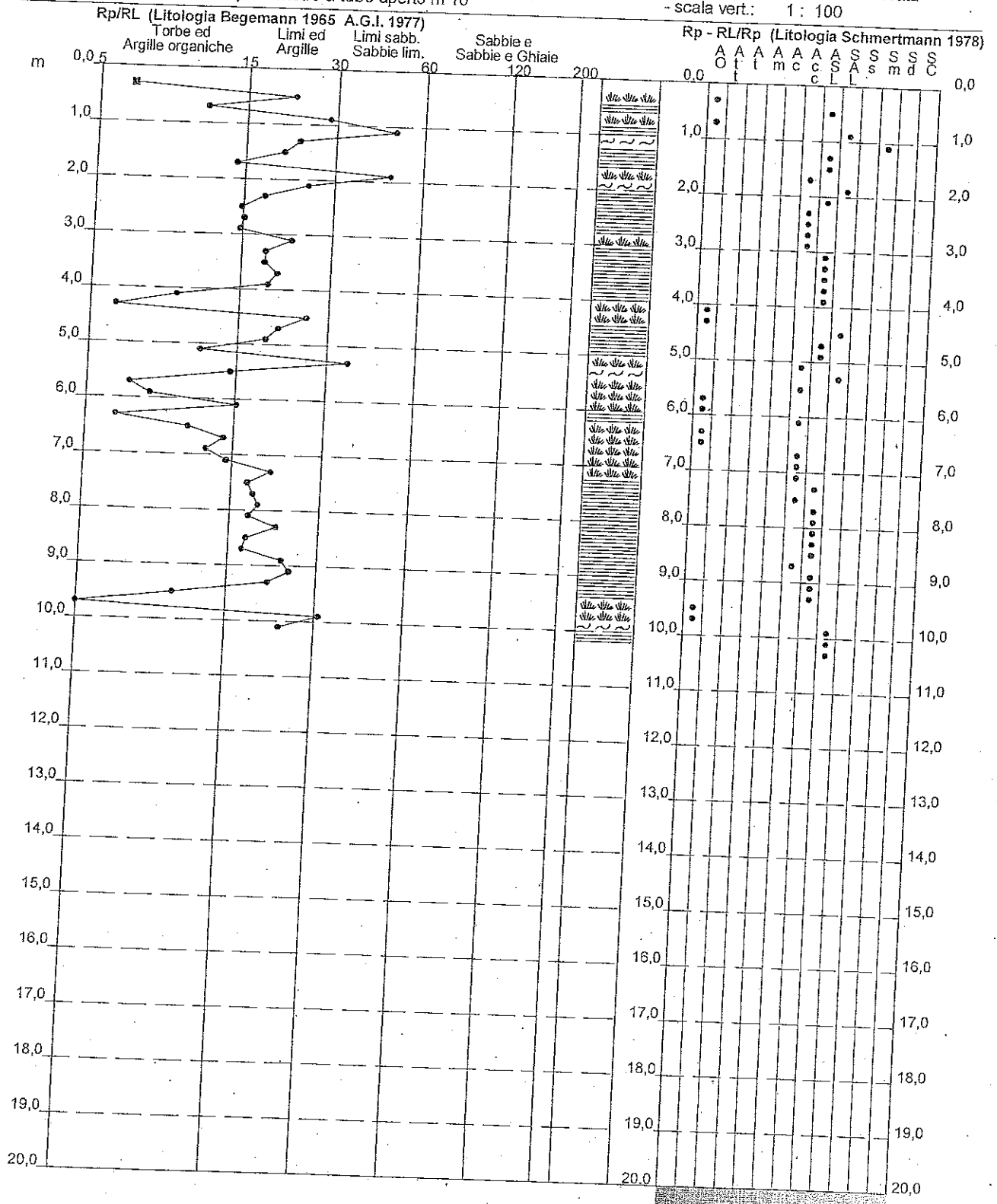
**PROVA PENETROMETRICA STATICA
 VALUTAZIONI LITOLOGICHE**

CPT 1

2010496-013

- committente : Studio di geologia Dr. Marco Mancini
 - lavoro :
 - località : Calzaiolo - Bargino
 - note : Insatallato piezometro a tubo aperto m 10

- data : 31/01/2006
 - quota inizio : Piano campagna
 - prof. falda : Falda non rilevata
 - scala vert. : 1 : 100



TECNA

Via Ser Gorello, 11/a 52100 AREZZO

tel. 0575 / 323501 - fax 0575 / 22730 - cell. 0348 / 7007360

Rifer. 022-06

PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 1

- committente : Studio di geologia Dr. Marco Mancini

- lavoro :

- località : Calzaiole - Bargino

- note : Installato piezometro a tubo aperto m 10

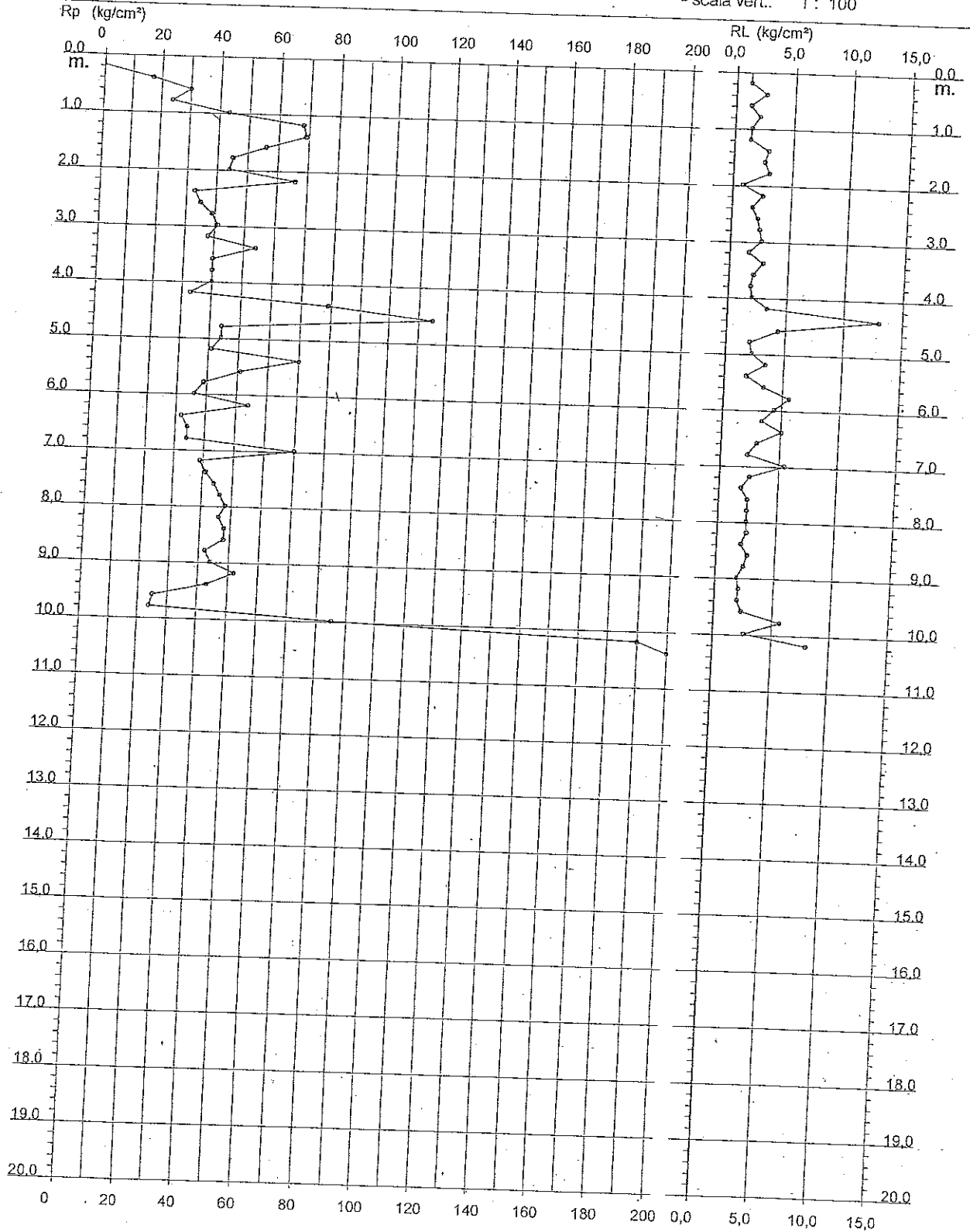
- data : 31/01/2006

- quota inizio : Piano campagna

- prof. falda : Falda non rilevata

- scala vert.: 1 : 100

2010496-013



TECNA

Via Ser Gorello, 11/a 52100 AREZZO
tel. 0575 / 323501 - fax 0575 / 22730 - cell. 0348 / 7007360

Rifer. 022-06

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

CPT 1

2.010496-013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiolo - Bargino
- note : Insatallato piezometro a tubo aperto m 10

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- pagina : 1

prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI	prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI
0,20	---	---	---	1,27	---	5,40	70,0	122,0	70,0	1,93	36,0
0,40	17,0	36,0	17,0	2,60	7,0	5,60	51,0	80,0	51,0	3,40	15,0
0,60	30,0	69,0	30,0	1,33	22,0	5,80	39,0	90,0	39,0	5,60	7,0
0,80	24,0	44,0	24,0	2,07	12,0	6,00	36,0	120,0	36,0	4,40	8,0
1,00	43,0	74,0	43,0	1,47	29,0	6,20	54,0	120,0	54,0	3,40	16,0
1,20	68,0	90,0	68,0	1,40	49,0	6,40	32,0	83,0	32,0	5,07	6,0
1,40	69,0	90,0	69,0	2,93	24,0	6,60	34,0	110,0	34,0	3,07	11,0
1,60	56,0	100,0	56,0	2,67	21,0	6,80	34,0	80,0	34,0	2,33	15,0
1,80	45,0	85,0	45,0	3,07	15,0	7,00	70,0	105,0	70,0	5,47	13,0
2,00	44,0	90,0	44,0	0,93	47,0	7,20	39,0	121,0	39,0	2,60	15,0
2,20	66,0	80,0	66,0	2,60	25,0	7,40	41,0	80,0	41,0	1,93	21,0
2,40	33,0	72,0	33,0	1,80	18,0	7,60	44,0	73,0	44,0	2,47	18,0
2,60	35,0	62,0	35,0	2,27	15,0	7,80	46,0	83,0	46,0	2,47	19,0
2,80	39,0	73,0	39,0	2,47	16,0	8,00	48,0	85,0	48,0	2,47	19,0
3,00	41,0	78,0	41,0	2,67	15,0	8,20	46,0	83,0	46,0	2,53	18,0
3,20	38,0	78,0	38,0	1,67	23,0	8,40	48,0	86,0	48,0	2,13	22,0
3,40	54,0	79,0	54,0	2,87	19,0	8,60	48,0	80,0	48,0	2,67	18,0
3,60	40,0	83,0	40,0	2,13	19,0	8,80	42,0	82,0	42,0	2,40	17,0
3,80	40,0	72,0	40,0	1,93	21,0	9,00	44,0	80,0	44,0	1,87	24,0
4,00	40,0	69,0	40,0	2,07	19,0	9,20	52,0	80,0	52,0	2,07	25,0
4,20	33,0	64,0	33,0	3,40	10,0	9,40	43,0	74,0	43,0	2,00	22,0
4,40	79,0	130,0	79,0	13,00	6,0	9,60	25,0	55,0	25,0	2,40	10,0
4,60	115,0	310,0	115,0	4,40	26,0	9,80	24,0	60,0	24,0	5,67	4,0
4,80	44,0	110,0	44,0	2,07	21,0	10,00	85,0	170,0	85,0	2,67	32,0
5,00	44,0	75,0	44,0	2,27	19,0	10,20	190,0	230,0	190,0	8,00	24,0
5,20	41,0	75,0	41,0	3,47	12,0	10,40	430,0	550,0	430,0	---	---

- PENETROMETRO STATICO tipo GOUDA da 20 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\phi = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

PROVA PENETROMETRICA STATICA LETTURE DI CAMPAGNA / VALORI DI RESISTENZA

CPT 2

2.010496-013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiolo - Bargino
- note : Insatallato piezometro a tubo aperto m 9

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- pagina : 1

prf	LP	LL	Rp	RL	Rp/RI	prf	LP	LL	Rp	RL	Rp/RI
m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-	m	Kg/cm ²	Kg/cm ²	Kg/cm ²	Kg/cm ²	-
0,20	---	---	---	0,40	---	5,20	48,0	84,0	48,0	2,40	20,0
0,40	20,0	26,0	20,0	1,67	12,0	5,40	44,0	80,0	44,0	3,53	12,0
0,60	39,0	64,0	39,0	1,47	27,0	5,60	65,0	118,0	65,0	4,00	16,0
0,80	26,0	48,0	26,0	1,87	14,0	5,80	47,0	107,0	47,0	2,27	21,0
1,00	30,0	58,0	30,0	2,27	13,0	6,00	50,0	84,0	50,0	2,60	19,0
1,20	26,0	60,0	26,0	2,67	10,0	6,20	51,0	90,0	51,0	2,87	18,0
1,40	28,0	68,0	28,0	2,60	11,0	6,40	48,0	91,0	48,0	2,53	19,0
1,60	26,0	65,0	26,0	2,87	9,0	6,60	52,0	90,0	52,0	2,73	19,0
1,80	27,0	70,0	27,0	2,27	12,0	6,80	54,0	95,0	54,0	2,47	22,0
2,00	42,0	76,0	42,0	2,33	18,0	7,00	53,0	90,0	53,0	2,40	22,0
2,20	38,0	73,0	38,0	3,67	10,0	7,20	44,0	80,0	44,0	2,07	21,0
2,40	30,0	85,0	30,0	3,20	9,0	7,40	45,0	76,0	45,0	2,53	18,0
2,60	32,0	80,0	32,0	2,87	11,0	7,60	43,0	81,0	43,0	2,53	17,0
2,80	34,0	77,0	34,0	2,93	12,0	7,80	52,0	90,0	52,0	3,47	15,0
3,00	39,0	83,0	39,0	3,00	13,0	8,00	50,0	102,0	50,0	3,60	14,0
3,20	58,0	103,0	58,0	2,53	23,0	8,20	46,0	100,0	46,0	2,87	16,0
3,40	40,0	78,0	40,0	4,20	10,0	8,40	45,0	88,0	45,0	2,67	17,0
3,60	43,0	106,0	43,0	3,33	13,0	8,60	29,0	69,0	29,0	3,93	7,0
3,80	36,0	86,0	36,0	2,67	13,0	8,80	44,0	103,0	44,0	2,93	15,0
4,00	34,0	74,0	34,0	2,73	12,0	9,00	25,0	69,0	25,0	1,67	15,0
4,20	36,0	77,0	36,0	2,33	15,0	9,20	125,0	150,0	125,0	1,33	94,0
4,40	41,0	76,0	41,0	2,53	16,0	9,40	63,0	83,0	63,0	16,67	4,0
4,60	42,0	80,0	42,0	2,20	19,0	9,60	140,0	390,0	140,0	8,00	18,0
4,80	47,0	80,0	47,0	2,47	19,0	9,80	430,0	550,0	430,0	---	---
5,00	44,0	81,0	44,0	2,40	18,0						

- PENETROMETRO STATICO tipo GOUDA 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 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

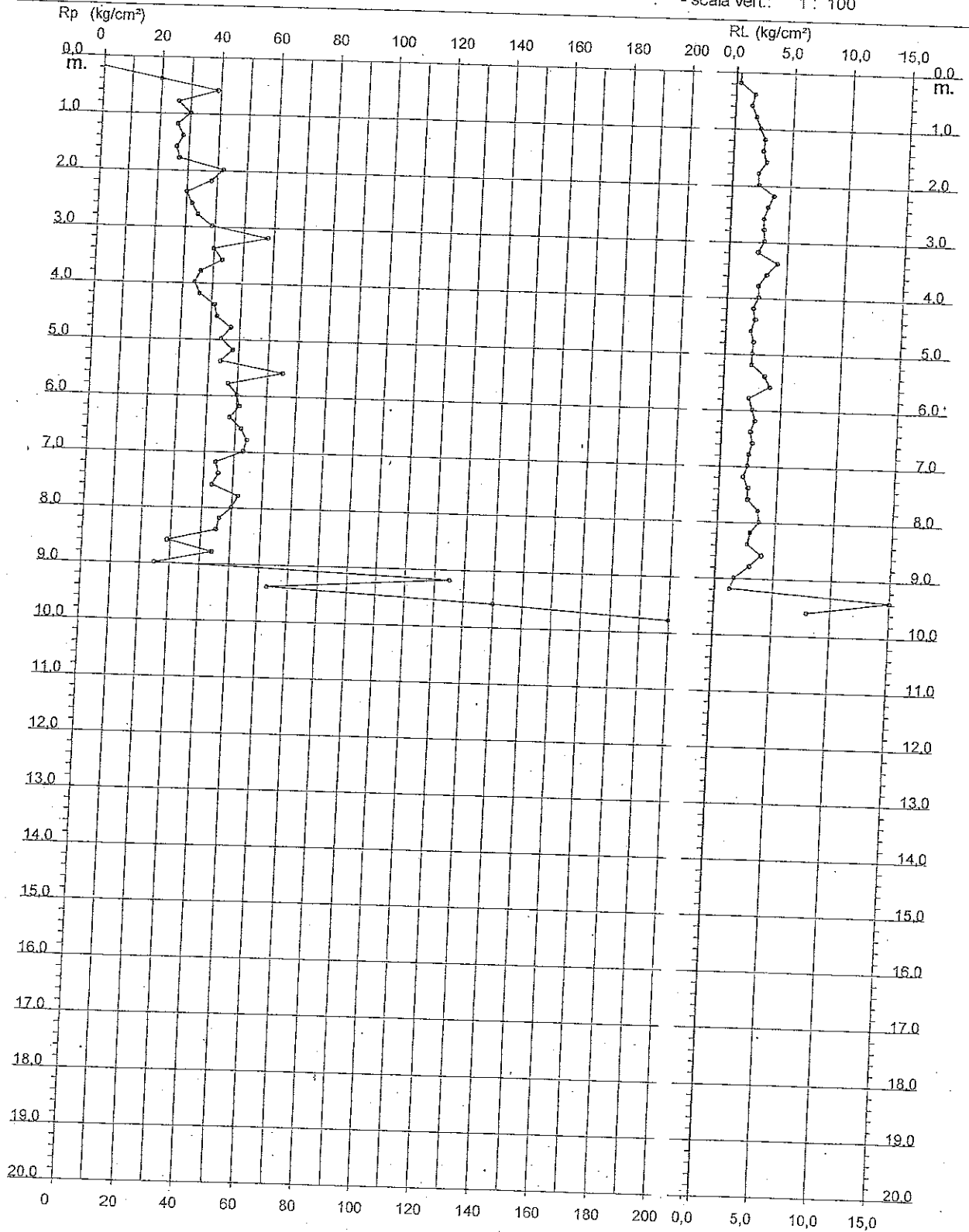
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 2

2010496013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiolo - Bargino
- note : Insatallato piezometro a tubo aperto m 9

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- scala vert. : 1 : 100



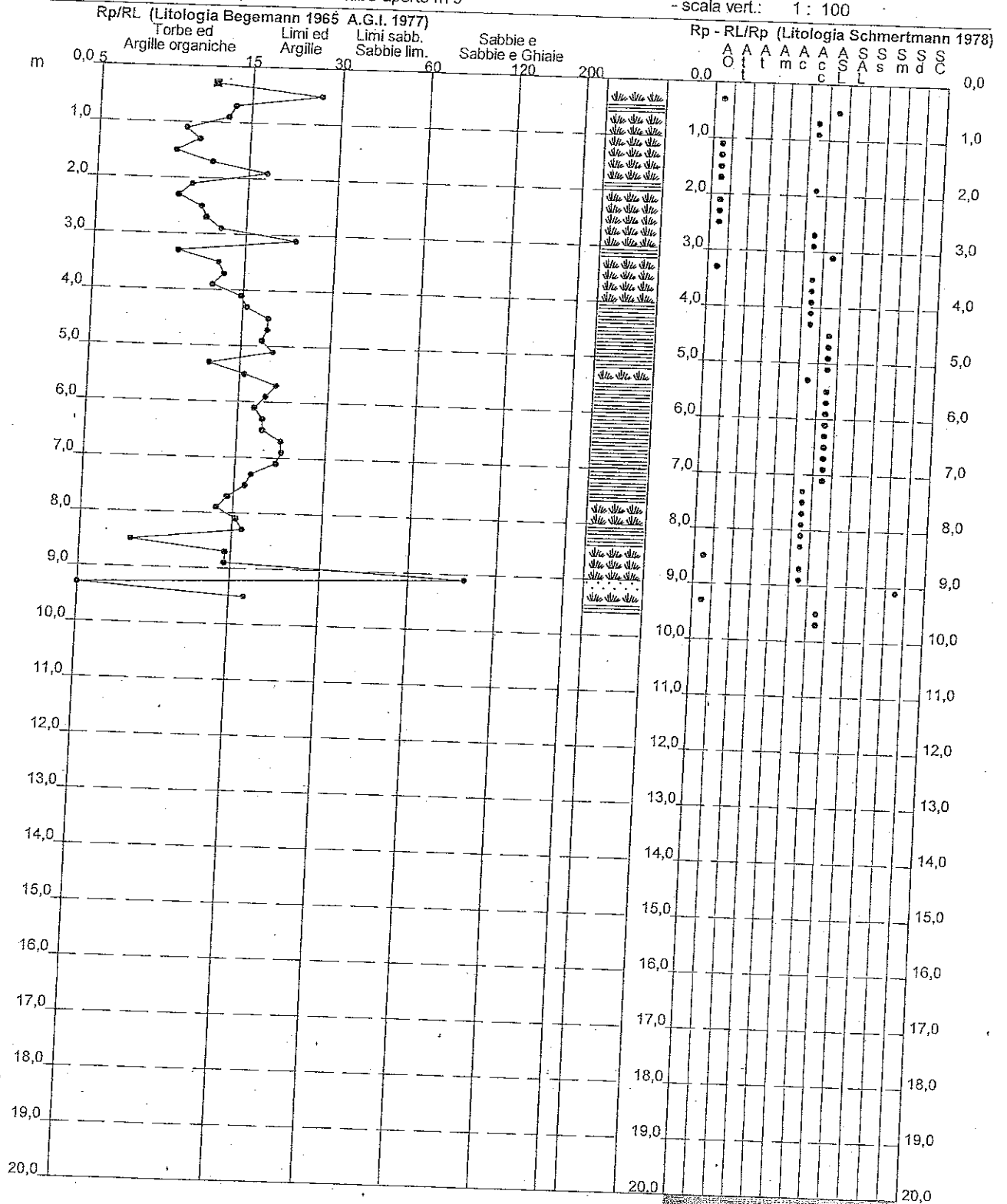
PROVA PENETROMETRICA STATICA VALUTAZIONI LITOLOGICHE

CPT 2

2-010496-013

- committente : Studio di geologia Dr. Marco Mancini
 - lavoro :
 - località : Calzaiolo - Bargino
 - note : Insatallato piezometro a tubo aperto m 9

- data : 31/01/2006
 - quota inizio : Piano campagna
 - prof. falda : Falda non rilevata
 - scala vert. : 1 : 100



PROVA PENETROMETRICA STATICA
LETTURE DI CAMPAGNA / VALORI DI RESISTENZA

CPT 3

2.010496-013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiolo - Bargino
- note : Insatallato piezometro a tubo aperto m 11

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- pagina : 1

prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI	prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI
0,20	---	---	---	1,53	---	5,80	58,0	106,0	58,0	2,47	24,0
0,40	16,0	39,0	16,0	3,13	5,0	6,00	53,0	90,0	53,0	4,33	12,0
0,60	18,0	65,0	18,0	2,27	8,0	6,20	58,0	123,0	58,0	4,47	13,0
0,80	20,0	54,0	20,0	4,00	5,0	6,40	51,0	118,0	51,0	2,73	19,0
1,00	30,0	90,0	30,0	1,33	22,0	6,60	49,0	90,0	49,0	3,00	16,0
1,20	28,0	48,0	28,0	2,60	11,0	6,80	45,0	90,0	45,0	2,93	15,0
1,40	24,0	63,0	24,0	2,13	11,0	7,00	36,0	80,0	36,0	2,53	14,0
1,60	38,0	70,0	38,0	1,40	27,0	7,20	52,0	90,0	52,0	2,00	26,0
1,80	23,0	44,0	23,0	2,00	12,0	7,40	55,0	85,0	55,0	5,13	11,0
2,00	30,0	60,0	30,0	1,60	19,0	7,60	44,0	121,0	44,0	4,67	9,0
2,20	27,0	51,0	27,0	1,40	19,0	7,80	130,0	200,0	130,0	8,20	16,0
2,40	28,0	49,0	28,0	1,07	26,0	8,00	57,0	180,0	57,0	4,60	12,0
2,60	34,0	50,0	34,0	1,27	27,0	8,20	47,0	116,0	47,0	2,87	16,0
2,80	31,0	50,0	31,0	1,20	26,0	8,40	60,0	103,0	60,0	2,27	26,0
3,00	34,0	52,0	34,0	1,80	19,0	8,60	55,0	89,0	55,0	3,27	17,0
3,20	39,0	66,0	39,0	2,80	14,0	8,80	41,0	90,0	41,0	3,13	13,0
3,40	30,0	72,0	30,0	1,60	19,0	9,00	45,0	92,0	45,0	1,80	25,0
3,60	36,0	60,0	36,0	1,80	20,0	9,20	70,0	97,0	70,0	3,27	21,0
3,80	31,0	58,0	31,0	13,33	2,0	9,40	49,0	98,0	49,0	3,40	14,0
4,00	200,0	400,0	200,0	17,40	11,0	9,60	60,0	111,0	60,0	0,40	150,0
4,20	89,0	350,0	89,0	2,67	33,0	9,80	100,0	106,0	100,0	3,60	28,0
4,40	100,0	140,0	100,0	7,07	14,0	10,00	73,0	127,0	73,0	1,93	38,0
4,60	44,0	150,0	44,0	2,80	16,0	10,20	90,0	119,0	90,0	1,87	48,0
4,80	43,0	85,0	43,0	3,07	14,0	10,40	42,0	70,0	42,0	1,87	22,0
5,00	44,0	90,0	44,0	1,80	24,0	10,60	68,0	96,0	68,0	3,00	23,0
5,20	47,0	74,0	47,0	1,00	47,0	10,80	88,0	133,0	88,0	4,00	22,0
5,40	50,0	65,0	50,0	2,67	19,0	11,00	200,0	260,0	200,0	---	---
5,60	50,0	90,0	50,0	3,20	16,0						

- PENETROMETRO STATICO tipo GOUDA da 20 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\phi = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

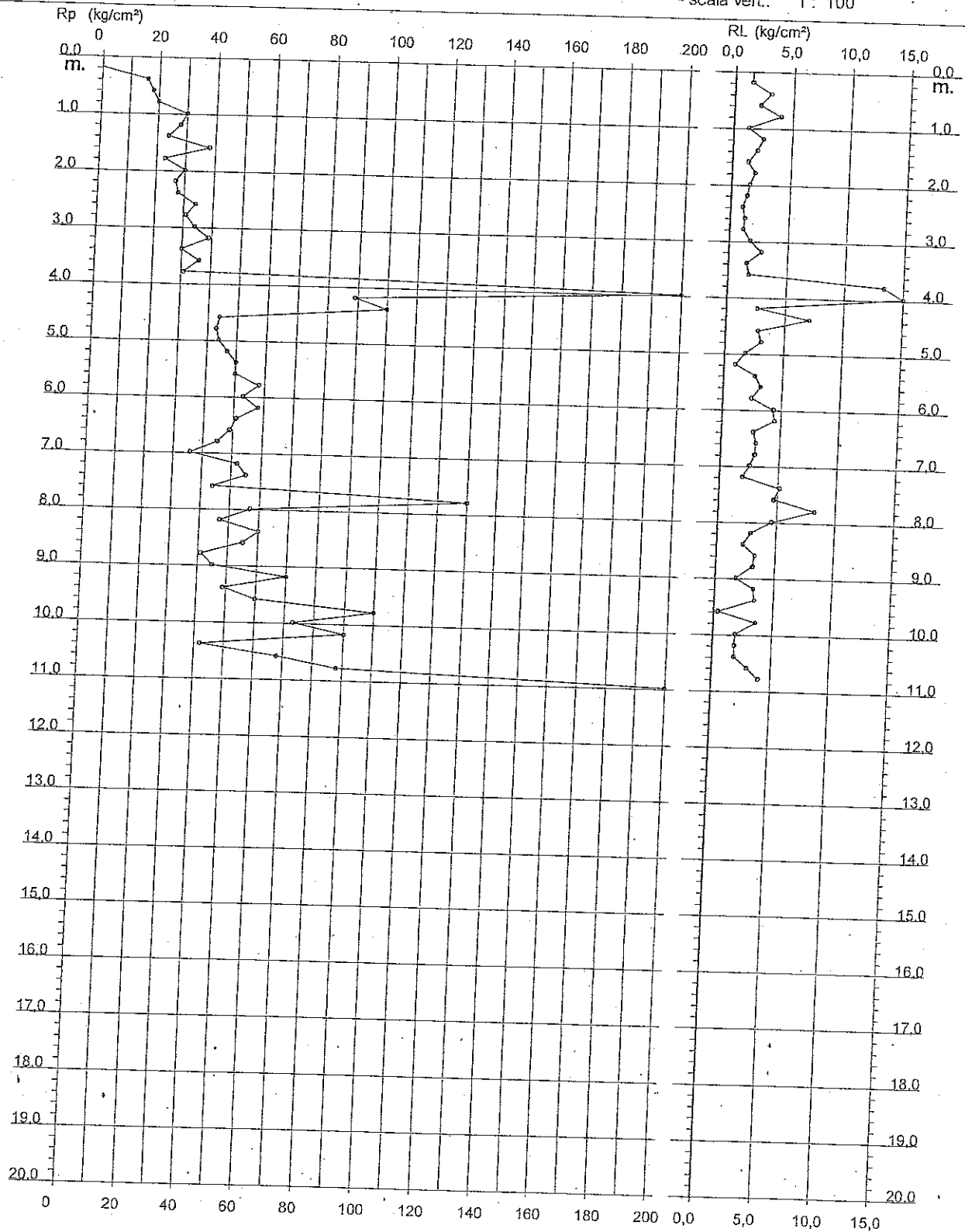
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 3

2.010496-013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiole - Bargino
- note : Installato piezometro a tubo aperto m 11

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- scala vert.: 1 : 100



PROVA PENETROMETRICA STATICA LETTURE DI CAMPAGNA / VALORI DI RESISTENZA

CPT 4

2:010496-013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiolo - Bargino
- note :

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- pagina : 1

prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI -	prf m	LP Kg/cm ²	LL Kg/cm ²	Rp Kg/cm ²	RL Kg/cm ²	Rp/RI -
0,20	---	---	---	0,87	---	3,40	40,0	68,0	40,0	0,33	120,0
0,40	16,0	29,0	16,0	1,27	13,0	3,60	46,0	51,0	46,0	2,00	23,0
0,60	11,0	30,0	11,0	0,80	14,0	3,80	40,0	70,0	40,0	1,73	23,0
0,80	11,0	23,0	11,0	1,20	9,0	4,00	40,0	66,0	40,0	1,93	21,0
1,00	12,0	30,0	12,0	1,20	10,0	4,20	44,0	73,0	44,0	1,80	24,0
1,20	32,0	50,0	32,0	2,27	14,0	4,40	68,0	95,0	68,0	3,80	18,0
1,40	24,0	58,0	24,0	2,00	12,0	4,60	63,0	120,0	63,0	2,67	24,0
1,60	38,0	68,0	38,0	2,07	18,0	4,80	85,0	125,0	85,0	3,27	26,0
1,80	29,0	60,0	29,0	1,73	17,0	5,00	81,0	130,0	81,0	4,73	17,0
2,00	36,0	62,0	36,0	2,40	15,0	5,20	100,0	171,0	100,0	4,00	25,0
2,20	29,0	65,0	29,0	1,93	15,0	5,40	180,0	240,0	180,0	5,20	35,0
2,40	44,0	73,0	44,0	1,40	31,0	5,60	144,0	222,0	144,0	6,33	23,0
2,60	29,0	50,0	29,0	1,67	17,0	5,80	130,0	225,0	130,0	14,33	9,0
2,80	25,0	50,0	25,0	1,80	14,0	6,00	285,0	500,0	285,0	8,00	36,0
3,00	28,0	55,0	28,0	1,60	17,0	6,20	630,0	750,0	630,0	---	---
3,20	38,0	62,0	38,0	1,87	20,0						

- PENETROMETRO STATICO tipo GOUDA da 20 t - (con anello allargatore) -
- COSTANTE DI TRASFORMAZIONE Ct = 10 - Velocità Avanzamento punta 2 cm/s
- punta meccanica tipo Begemann $\phi = 35.7$ mm (area punta 10 cm² - apertura 60°)
- manicotto laterale (superficie 150 cm²)

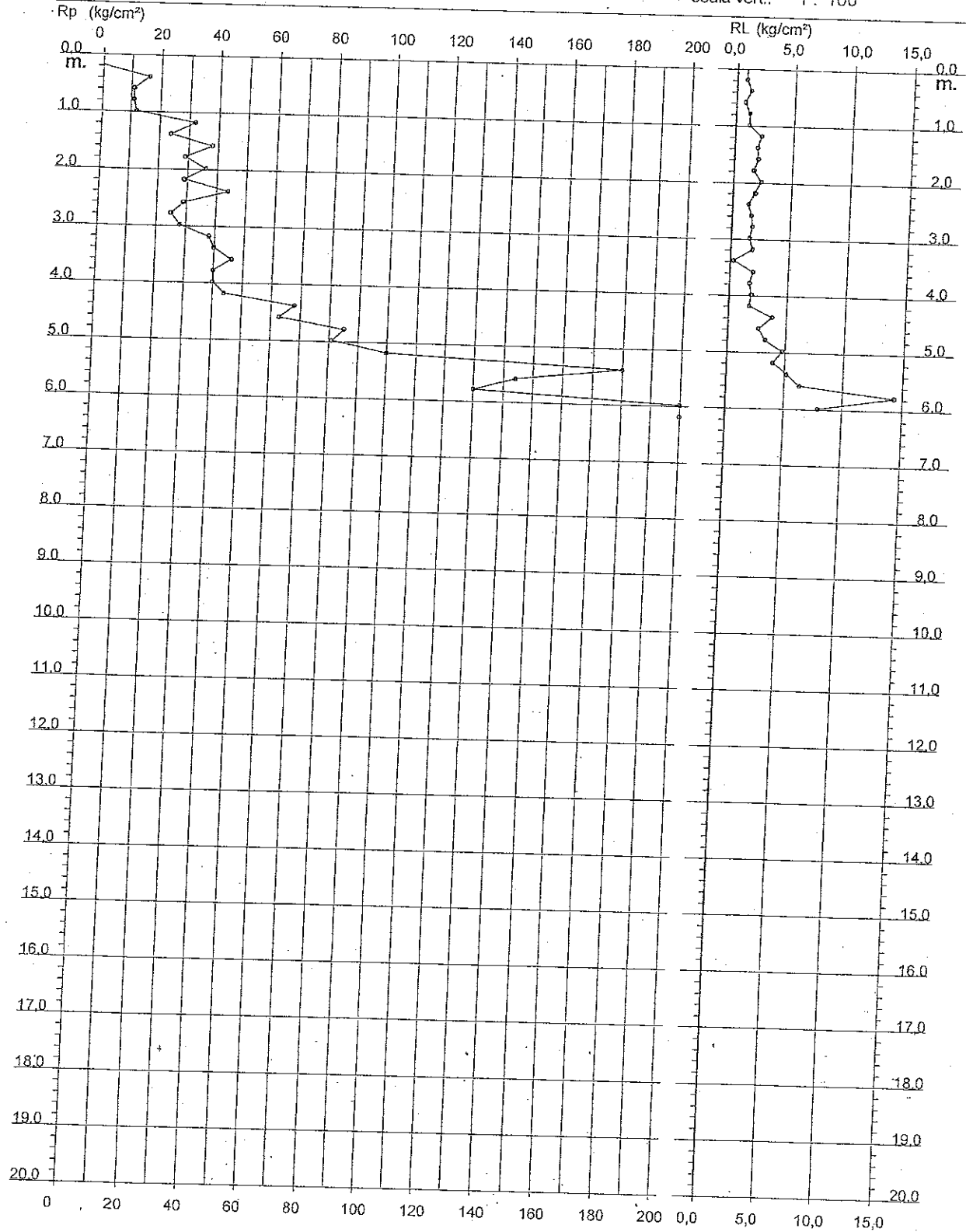
PROVA PENETROMETRICA STATICA DIAGRAMMA DI RESISTENZA

CPT 4

2.010496.013

- committente : Studio di geologia Dr. Marco Mancini
- lavoro :
- località : Calzaiole - Bargino

- data : 31/01/2006
- quota inizio : Piano campagna
- prof. falda : Falda non rilevata
- scala vert.: 1 : 100



**PROVA PENETROMETRICA STATICA
 VALUTAZIONI LITOLOGICHE**

CPT 4

2.010496-013

- committente : Studio di geologia Dr. Marco Mancini
 - lavoro :
 - località : Calzaiolo - Bargino
 - note :

- data : 31/01/2006
 - quota inizio : Piano campagna
 - prof. falda : Falda non rilevata.
 - scala vert.: 1 : 100

