

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

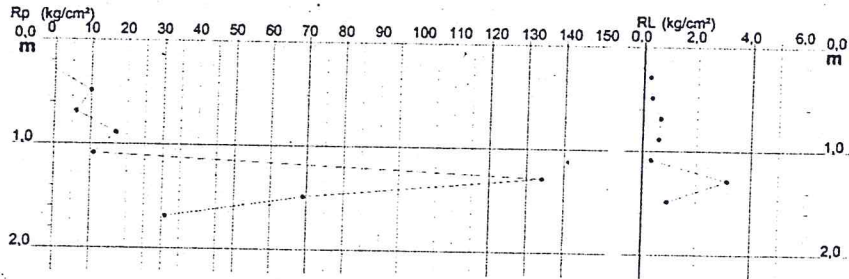
**CPT 1**

3.010496-122

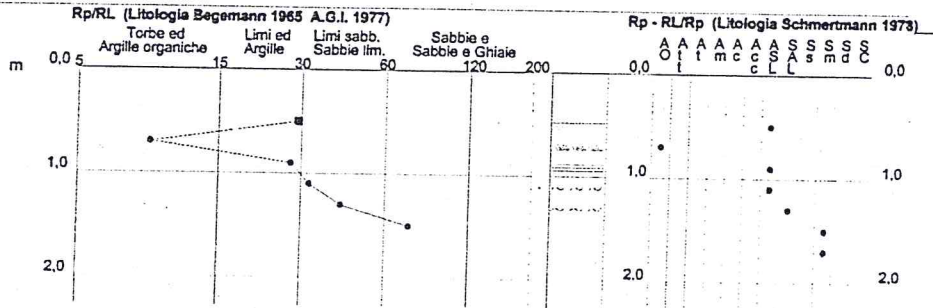
- committente: D.ott. Geol. Carlo Verrucchi  
 - lavoro:  
 - località: La Romola, San Casciano Val di Pesa  
 - resp. cantiere:  
 - assist. cantiere:  
 - data prova : 06/05/2005  
 - quota inizio : Piano Campagna  
 - prof. falda : Falda non rilevata  
 - data emiss. : 13/05/2005

| 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 | ---                | ---                | ---                | ---                | ---   | 1,20 | 11,0               | 20,0               | 11,0               | 0,33               | 33,0  |
| 0,40 | ---                | ---                | ---                | 0,27               | ---   | 1,40 | 134,0              | 139,0              | 134,0              | 3,13               | 43,0  |
| 0,60 | 10,0               | 14,0               | 10,0               | 0,33               | 30,0  | 1,60 | 69,0               | 116,0              | 69,0               | 0,93               | 74,0  |
| 0,80 | 6,0                | 11,0               | 6,0                | 0,67               | 9,0   | 1,80 | 31,0               | 45,0               | 31,0               | ---                | ---   |
| 1,00 | 17,0               | 27,0               | 17,0               | 0,60               | 28,0  |      |                    |                    |                    |                    |       |

**DIAGRAMMA DI RESISTENZA**



**VALUTAZIONI LITOLOGICHE**



**TABELLA PARAMETRI GEOTECNICI**

| Prof. m | Rp kg/cm <sup>2</sup> | Rp/RI (-) | NATURA COESIVA |                    |                        |                       |         |                         |                         |                       |      |         | NATURA GRANULARE |         |         |         |         |           |                        |                        |                       |     |
|---------|-----------------------|-----------|----------------|--------------------|------------------------|-----------------------|---------|-------------------------|-------------------------|-----------------------|------|---------|------------------|---------|---------|---------|---------|-----------|------------------------|------------------------|-----------------------|-----|
|         |                       |           | Natura Litol.  | Y t/m <sup>2</sup> | pVo 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 % | e1s (°) | e2s (°)          | e3s (°) | e4s (°) | scm (°) | smv (°) | Amx/g (-) | E50 kg/cm <sup>2</sup> | E25 kg/cm <sup>2</sup> | Mo kg/cm <sup>2</sup> |     |
| 0,20    | ---                   | ---       | ???            | 1,85               | 0,04                   | ---                   | ---     | ---                     | ---                     | ---                   | ---  | ---     | ---              | ---     | ---     | ---     | ---     | ---       | ---                    | ---                    | ---                   | --- |
| 0,40    | ---                   | ---       | ???            | 1,85               | 0,07                   | ---                   | ---     | ---                     | ---                     | ---                   | ---  | ---     | ---              | ---     | ---     | ---     | ---     | ---       | ---                    | ---                    | ---                   | --- |
| 0,60    | 10                    | 30        | 4/2            | 1,85               | 0,11                   | 0,50                  | 41,2    | 85                      | 128                     | 40                    | 48   | 35      | 37               | 39      | 42      | 36      | 26      | 0,095     | 17                     | 25                     | 30                    |     |
| 0,80    | 6                     | 9         | 1/1            | 1,85               | 0,15                   | 0,30                  | 15,2    | 12                      | 18                      | 9                     | ---  | ---     | ---              | ---     | ---     | ---     | ---     | ---       | ---                    | ---                    | ---                   | --- |
| 1,00    | 17                    | 28        | 2/III          | 1,85               | 0,19                   | 0,72                  | 34,5    | 123                     | 184                     | 54                    | ---  | ---     | ---              | ---     | ---     | ---     | ---     | ---       | ---                    | ---                    | ---                   | --- |
| 1,20    | 11                    | 33        | 4/2            | 1,85               | 0,22                   | 0,54                  | 18,9    | 91                      | 137                     | 42                    | 33   | 33      | 35               | 38      | 41      | 33      | 29      | 0,064     | 18                     | 26                     | 33                    |     |
| 1,40    | 134                   | 43        | 3/---          | 1,35               | 0,26                   | ---                   | ---     | ---                     | ---                     | ---                   | 100  | 42      | 43               | 45      | 46      | 44      | 35      | 0,258     | 223                    | 335                    | 402                   |     |
| 1,60    | 69                    | 74        | 3/---          | 1,35               | 0,30                   | ---                   | ---     | ---                     | ---                     | ---                   | 89   | 40      | 42               | 43      | 45      | 41      | 32      | 0,219     | 115                    | 173                    | 207                   |     |
| 1,80    | 31                    | ---       | 3/---          | 1,85               | 0,33                   | ---                   | ---     | ---                     | ---                     | ---                   | 69   | 38      | 40               | 43      | 37      | 29      | 0,127   | 52        | 78                     | 93                     | ---                   |     |

- PENETROMETRO STATICO tipo da 10 t - (con anello allargatore) -  
 - COSTANTE DI TRASFORMAZIONE Ci = 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>)