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|--|-------------------------------|
| Committente: CONSORZIO HIRPINIA AV | Sondaggio: SN_ME_02 |
| Riferimento: 1° Lotto funzionale Apice - Irpinia | Data: 04/11/2019 - 20/11/2019 |
| Coordinate: 41°06'05.17500"N - 15°02'17.59498"E | Quota: 360.6069 m s.l.m. |
| Perforazione: Carotaggio continuo | |

SCALA 1:100 **STRATIGRAFIA - SN ME 02** Pagina 1/4

| o mm | R v | A f s | Pz | metri butt. | LITOLOGIA | Campioni | RP | VT | Prel. % 0 --- 100 | Standard Penetration Test | | | prove in foro | RQD % 0 --- 100 | prof. m | DESCRIZIONE | Cass |
|---------|--------|-------------|----|----------------|-----------|-----------|----------------|----|----------------------|---------------------------|--------|---|---------------------|--------------------|------------|--|------|
| | | | | | | | | | | m | S.P.T. | N | | | | | |
| | | | | | | | | | | | | | | | 0,4 | Terreno agrario sabbioso con minuti clasti eterogenei a spigoli vivi, mediamente consistente. Marrone brunastro | |
| | | | | 1 | | | | | | | | | | | 1,6 | Sabbia siltosa marrone chiaro-avana con livelli argillosi mediamente consistenti; rari minuti clasti arenacei. | |
| | | | | 2 | | | | | | | | | | | | Silt argilloso debolmente sabbioso marrone avana con venature giallastre, mediamente consistente. Livello litoide calcareo fratturato tra 2,20÷2,60. Si distinguono livelli arenacei fratturati tra 6,40÷6,70. | 1 |
| | | | | 3 | | CR1) Rim | 3,00 3,40 | | | | | | | | | | |
| | | | | 4 | | SPT1) SPT | 3,50 3,95 | | 3,5 | 15-20-26 | 46 | | | | | | |
| | | | | 5 | | | | | | | | | | | | | |
| | | | | 6 | | CI1) Maz | 5,40 5,80 | | | | | | | | | | |
| | | | | 7 | | SPT2) SPT | 5,80 6,25 | | 5,8 | 22-27-31 | 58 | | | | | | |
| | | | | 8 | | | | | | | | | | | | | |
| | | | | 9 | | | | | | | | | | | | | |
| | | | | 10 | | | | | | | | | | | | | |
| | | | | 11 | | | | | | | | | | | | | |
| | | | | 12 | | SPT3) SPT | 9,00 9,14 | | 9,0 | 50/14cm | Rif | | | | | | |
| | | | | 13 | | | | | | | | | | | | | |
| | | | | 14 | | | | | | | | | | | | | |
| | | | | 15 | | | | | | | | | | | | | |
| | | | | 16 | | SPT4) SP | 12,00 12,04 | | 12,0 | 50/4cm | Rif | | | | | | |
| | | | | 17 | | | | | | | | | | | | | |
| | | | | 18 | | CR2) Rim | 11,20 11,60 | | | | | | | | | | |
| | | | | 19 | | | | | | | | | | | | | |
| | | | | 20 | | SPT5) SP | 15,70 15,75 | | 15,7 | 50/5cm | Rif | | | | | | |
| | | | | 21 | | | | | | | | | | | | | |
| | | | | 22 | | CI2) Maz | 17,80 18,20 | | | | | | | | | | |
| | | | | 23 | | | | | | | | | | | | | |
| | | | | 24 | | | | | | | | | | | | | |
| | | | | 25 | | | | | | | | | | | | | |
| | | | | 26 | | | | | | | | | | | | | |
| | | | | 27 | | | | | | | | | | | | | |
| | | | | 28 | | | | | | | | | | | | | |
| | | | | 29 | | | | | | | | | | | | | |
| | | | | 30 | | | | | | | | | | | | | |



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| Coordinate: 41°06'05.17500"N - 15°02'17.59498"E | Quota: 360.6069 m s.l.m. |
| Perforazione: Carotaggio continuo | |

| o mm | R v | A r s | Pz | metri but. | LITOLOGIA | Campioni | RP | VT | Standard Penetration Test | | | prove in foto | RQD % 0 --- 100 | prof. m | DESCRIZIONE | Cass | |
|---------|--------|-------------|----|---------------|-----------|-----------|----------------|------|---------------------------|-------------|---|---------------------|--------------------|------------|-------------|------|--|
| | | | | | | | | | Prel. % 0 --- 100 | S.P.T. m | N | | | | | | |
| | | | | 21 | | | | | | | | | | | | | |
| | | | | 22 | | | | | | | | | | | | | |
| | | | | 23 | | | | | | | | | | | | | |
| | | | | 24 | | | | | | | | | | | | | |
| | | | | 25 | | CR3) Rim | 25,30 25,70 | >4.5 | | | | | | | | | |
| | | | | 26 | | | | | | | | | 25.7 | | | | |
| | | | | 27 | | | | | | | | | | | | | |
| | | | | 28 | | | | | | | | | | | | | |
| | | | | 29 | | | | | | | | | | | | | |
| | | | | 30 | | | | >4.5 | | | | | | | | | |
| | | | | 31 | | | | | | | | | | | | | |
| | | | | 32 | | ROT1) Rim | 32,20 32,60 | | | | | | | | | | |
| | | | | 33 | | CR4) Rim | 33,00 33,30 | | | | | | | | | | |
| | | | | 34 | | | | | | | | | | | | | |
| | | | | 35 | | | | | | | | | | | | | |
| | | | | 36 | | | | | | | | | | | | | |
| | | | | 37 | | | | | | | | | | | | | |
| | | | | 38 | | | | | | | | | | | | | |
| | | | | 39 | | | | | | | | | | | | | |
| | | | | 40 | | | | >4.5 | | | | | | | | | |



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| Perforazione: Carotaggio continuo | |

| ø mm | R v | A r s | Pz | metri batt | LITOLOGIA | Campioni | RP | VT | Prel. % 0 --- 100 | Standard Penetration Test m S.P.T. | N | prove in foro | RQD % 0 --- 100 | prof. m | DESCRIZIONE | Cass |
|------|-----|-------|----|------------|-----------|---------------------------|----|----|----------------------|---------------------------------------|---|---------------|--------------------|---------|---|------|
| | | | | 41 | | | | | | | | | | | Calcareni e calciliti con livelli argillosi marnosi. Da 25,70 a 28,10 le litologie si presentano a struttura brecciata e ondulata. I livelli argillosi marnosi di colore grigio/marrone rossastro, si presentano fortemente addensati con inclusi carbonatici eterometrici. Tra 47,0m e 49,40m la litologia si presenta contorta e brecciata. | 9 |
| | | | | 42 | | CR5) Rim 42,00 42,40 | | | | | | | | | | |
| | | | | 43 | | | | | | | | | | | | |
| | | | | 44 | | | | | | | | | | | | |
| | | | | 45 | | ROT2) Rir 45,30 45,70 | | | | | | | | | | 10 |
| | | | | 46 | | | | | | | | | | | | |
| | | | | 47 | | | | | | | | | | | | |
| | | | | 48 | | | | | | | | | | | | |
| | | | | 49 | | | | | | | | | | | Argilla marnosa e marne argillose a struttura scagliosa, color grigio azzurro e rossastro. | 11 |
| | | | | 50 | | >4.5 | | | | | | | 49.4 | | | |
| | | | | 51 | | CR6) Rim 51,00 51,50 | | | | | | | | | | |
| | | | | 52 | | | | | | | | | | | | |
| | | | | 53 | | | | | | | | | | | Calcareni e calciliti con livelli argillosi marnosi. Livello nerastro argilloso organico tra 59,20m e 59,60m. | 12 |
| | | | | 54 | | C13) Maz 54,00 54,50 | | | | | | | | | | |
| | | | | 55 | | | | | | | | | 55.3 | | | |
| | | | | 56 | | C14) Ind < 56,60 57,00 | | | | | | | | | | |
| | | | | 57 | | | | | | | | | | | | 12 |
| | | | | 58 | | | | | | | | | | | | |
| | | | | 59 | | | | | | | | | | | | |
| | | | | 60 | | >4.5 | | | | | | | | | | |



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| Perforazione: Carotaggio continuo | |

| o mm | R V | A r s | Pz | metri batt | LITOLOGIA | Campioni | RP | VT | Prel. % 0 --- 100 | Standard Penetration Test m S.P.T. N | prove in foro | RQD % 0 --- 100 | prof. m | DESCRIZIONE | Cass |
|---------|--------|-------------|----|---------------|-----------|--------------------------|----|--------------|----------------------|---|---------------------|--------------------|--|--|------|
| | | | | >61 | | AA1) Rim 61,10 61,50 | | | | | | | | Calcarenti e calcilutiti con livelli argillosi marnosi. Livello nerastro argilloso organico tra 59,20m e 59,60m. | 13 |
| | | | | 62 | | Cl5) Ind< 62,20 62,60 | | | | | | 62,7 | | | |
| | | | | 63 | | | | >4,5 3,5 | | | Dilatometrica | | Argille marnose rossastre a struttura scagliosa, ondulate. Si distinguono livelli calcarei fratturati. | | |
| | | | | 64 | | | | 3,5 3,0 | | | | | | | 14 |
| | | | | 65 | | Cl6) Ind< 65,00 65,50 | | 3,0 | | | | | | | |
| | | | | 66 | | | | 3,5 3,0 | | | | 66,0 | Argille debolmente marnose grigie con tono azzurro. | | |
| | | | | 67 | | | | 2,5 | | | | | | | 15 |
| | | | | 68 | | | | 2,0 3,0 | | | Lugeon | | | | |
| | | | | 69 | | CR7) Rim 68,70 69,00 | | 3,0 | | | Dilatometrica | | | | |
| | | | | 70 | | AA2) Rim 69,20 69,60 | | 4,0 | | | | | | | 15 |
| | | | | 71 | | | | >4,5 >4,5 | | | | | | | |
| | | | | 72 | | CR8) Rim 70,70 71,00 | | 4,0 | | | | | | | |
| 101 | | | | 72 | | | | 3,5 | | | | | 72,0 | | |

Utilizzata sonda perforatrice tipo FRANZA CMV 600
 Eseguito rilievo masse metalliche in superficie.
 Eseguito rilievo del gas in foro.
 Utilizzato carotiere doppio da 9,00m fino a 65,0m; corona diamantata da 9,0m fino a 54,0m e da 57,0m fino a 65,0m.
 Prelevati n. 6 campioni indisturbati.
 Prelevati n. 12 campioni rimaneggiati.
 Eseguite n. 5 prove S.P.T..
 Eseguita n. 1 prova Lefranc.
 Eseguite n. 2 prove Lugeon.
 Eseguita n. 1 prova Pressiometrica.
 Eseguite n. 2 prove Dilatometriche.
 Eseguita misura della verticalità.
 Installato piezometro a tubo aperto da 2" fino a 72,0m da p.c. (0,00-54,0m: cieco; 54,00-72,0m: finestrato).
 Installato chiusino con lucchetto.
 *Ind: Campionatore triplo.
 Normativa: A.G.I. 1977





Sondaggio SN_ME_02





Sondaggio SN_ME_02





Sondaggio SN_ME_02





Sondaggio SN_ME_02





Sondaggio SN_ME_02





Sondaggio SN_ME_02





Sondaggio SN_ME_02





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| Data: | 04/11/2019 - 20/11/2019 |

Registrazione GAS/Profondità (m)

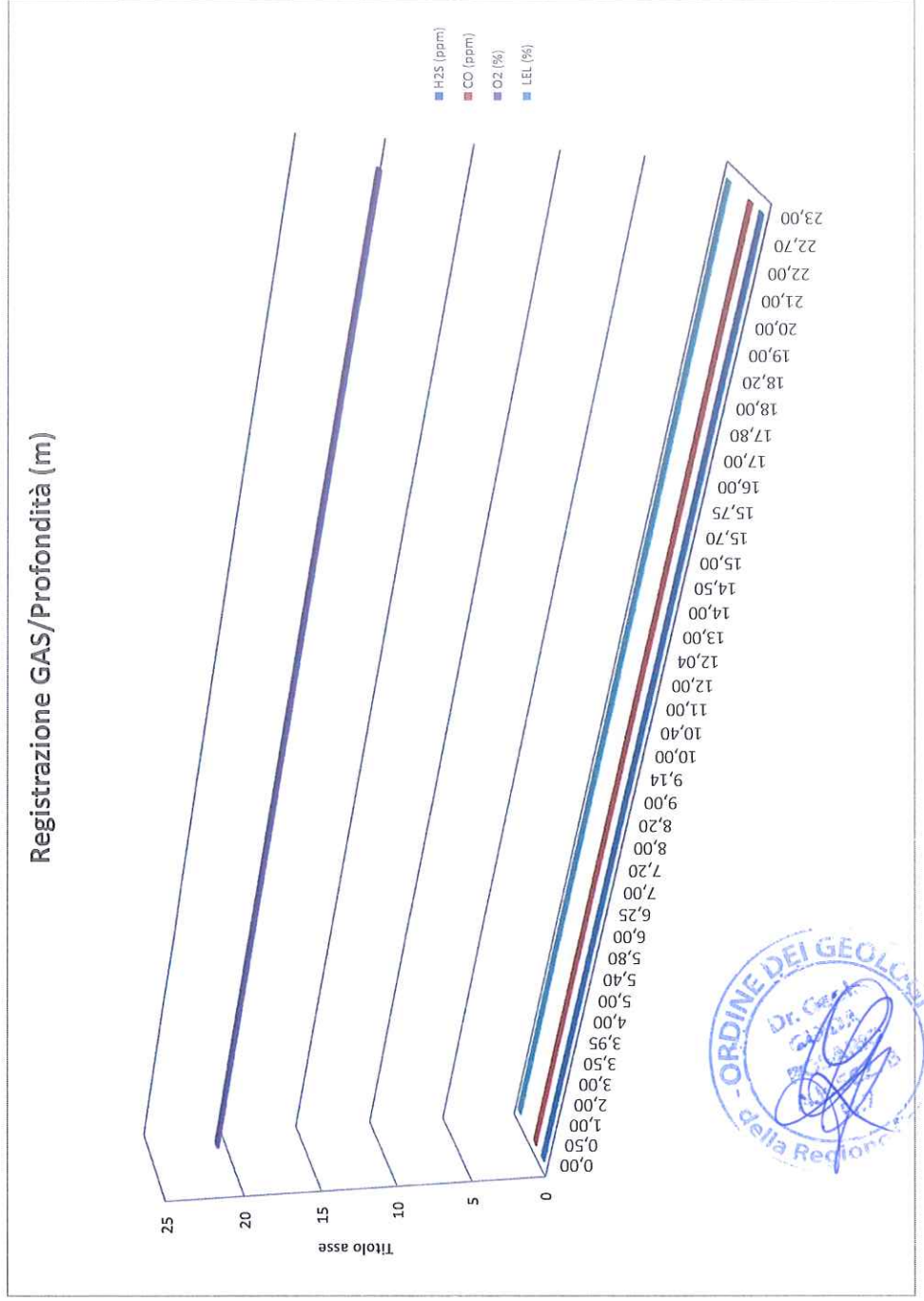


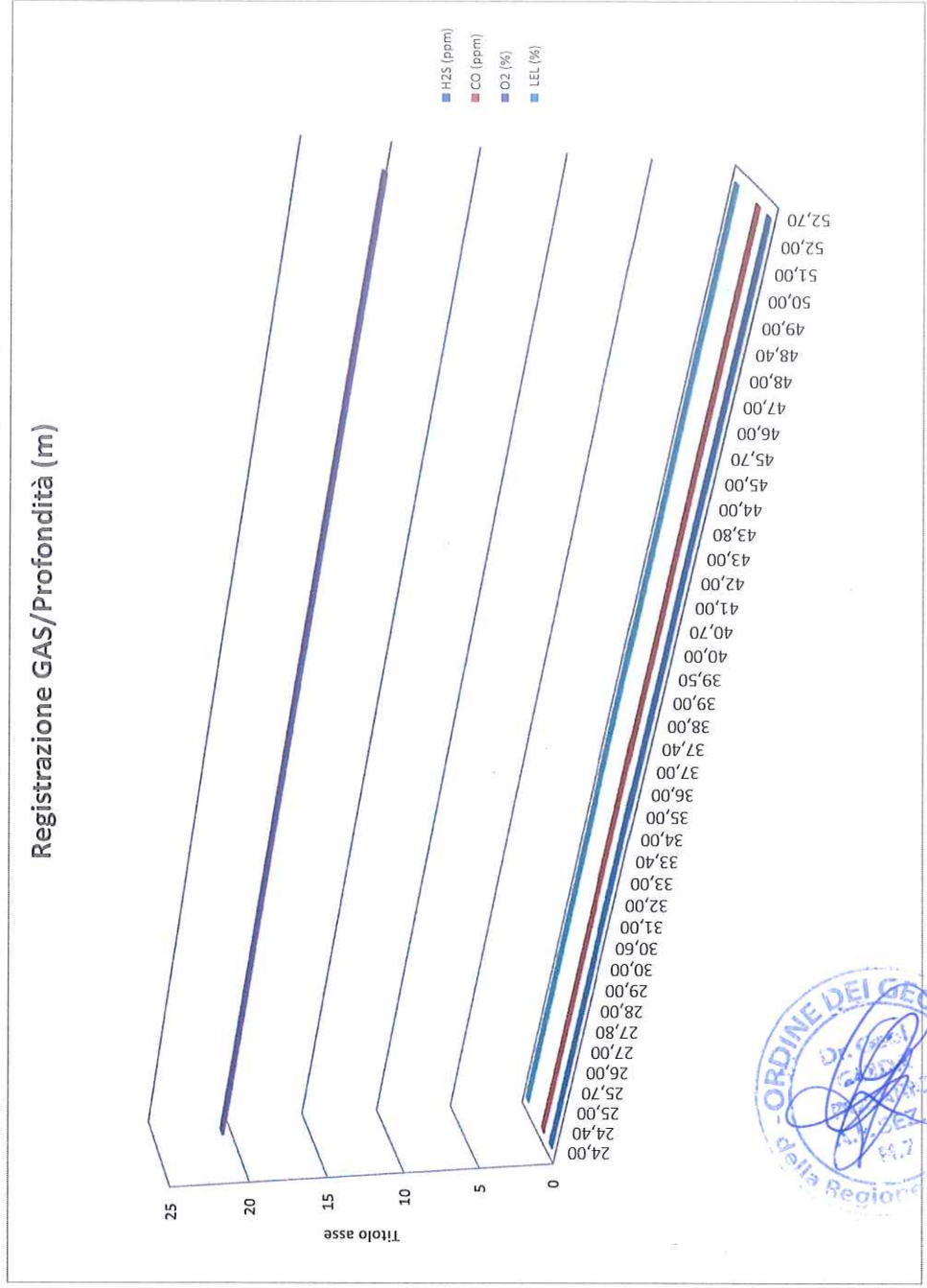
TABELLA RILEVAMENTO GAS A BOCCAFORO

| Profondità (m da p.c) | H2S (ppm) | CO (ppm) | O2 (%) | LEL (%) |
|-----------------------|-----------|----------|--------|---------|
| 0,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 0,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 1,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 2,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 3,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 3,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 3,95 | 0,00 | 0,00 | 20,90 | 0,00 |
| 4,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 5,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 5,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 5,80 | 0,00 | 0,00 | 20,90 | 0,00 |
| 6,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 6,25 | 0,00 | 0,00 | 20,90 | 0,00 |
| 7,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 7,20 | 0,00 | 0,00 | 20,90 | 0,00 |
| 8,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 8,20 | 0,00 | 0,00 | 20,90 | 0,00 |
| 9,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 9,14 | 0,00 | 0,00 | 20,90 | 0,00 |
| 10,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 10,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 11,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 12,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 12,04 | 0,00 | 0,00 | 20,90 | 0,00 |
| 13,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 14,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 14,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 15,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 15,70 | 0,00 | 0,00 | 20,90 | 0,00 |
| 15,75 | 0,00 | 0,00 | 20,90 | 0,00 |
| 16,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 17,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 17,80 | 0,00 | 0,00 | 20,90 | 0,00 |
| 18,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 18,20 | 0,00 | 0,00 | 20,90 | 0,00 |
| 19,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 20,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 21,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 22,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 22,70 | 0,00 | 0,00 | 20,90 | 0,00 |
| 23,00 | 0,00 | 0,00 | 20,90 | 0,00 |

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| CANTIERE: | 1° Lotto funzionale Apice - Irpinia |
| SONDAGGIO: | SN_ME_02 |
| Data: | 04/11/2019 - 20/11/2019 |

TABELLA RILEVAMENTO GAS A BOCCAFORO

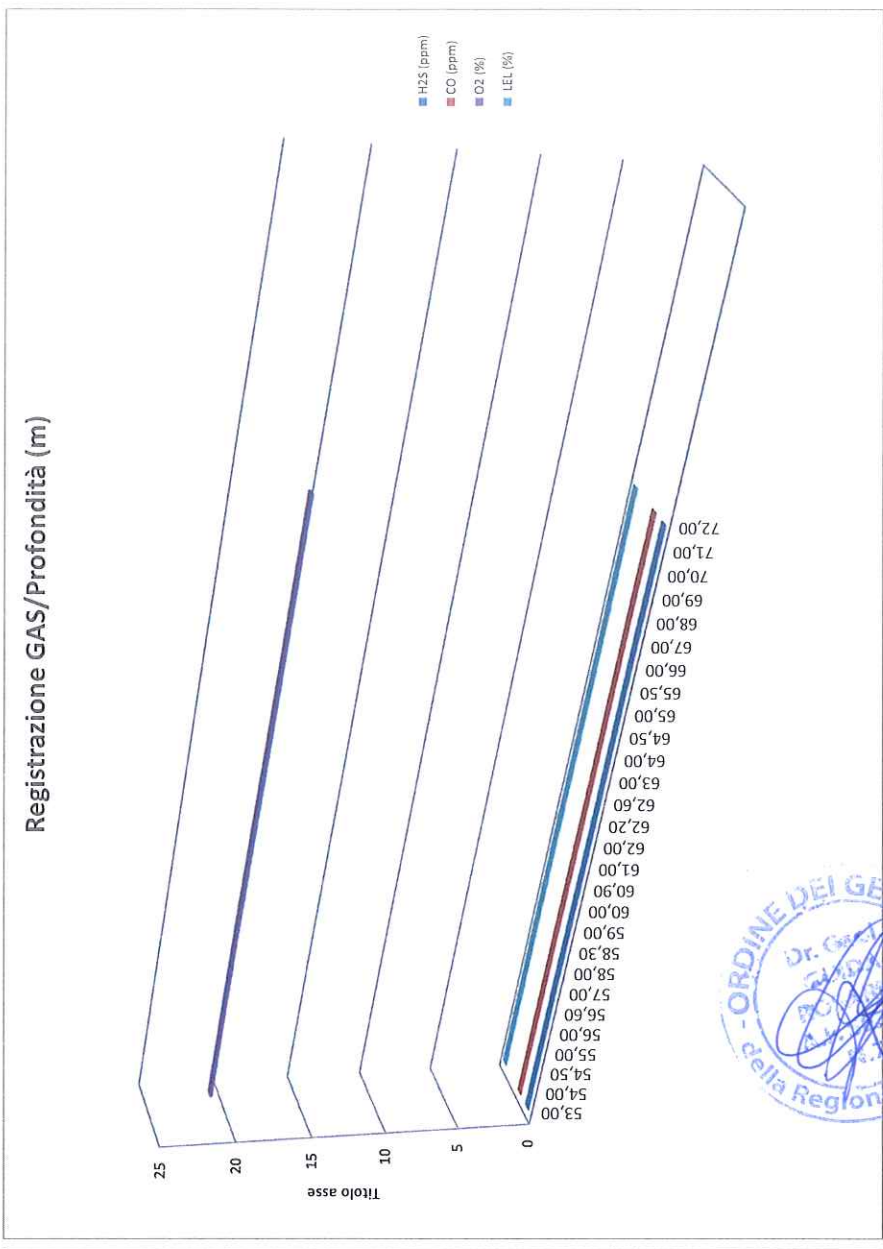
| Profondità (m da p.c) | H2S (ppm) | CO (ppm) | O2 (%) | LEL (%) |
|-----------------------|-----------|----------|--------|---------|
| 24,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 24,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 25,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 25,70 | 0,00 | 0,00 | 20,90 | 0,00 |
| 26,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 27,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 27,80 | 0,00 | 0,00 | 20,90 | 0,00 |
| 28,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 29,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 30,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 30,60 | 0,00 | 0,00 | 20,90 | 0,00 |
| 31,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 32,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 33,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 33,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 34,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 35,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 36,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 37,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 37,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 38,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 39,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 39,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 40,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 40,70 | 0,00 | 0,00 | 20,90 | 0,00 |
| 41,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 42,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 43,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 43,80 | 0,00 | 0,00 | 20,90 | 0,00 |
| 44,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 45,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 45,70 | 0,00 | 0,00 | 20,90 | 0,00 |
| 46,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 47,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 48,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 48,40 | 0,00 | 0,00 | 20,90 | 0,00 |
| 49,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 50,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 51,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 52,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 52,70 | 0,00 | 0,00 | 20,90 | 0,00 |




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| Data: | 04/11/2019 - 20/11/2019 |

TABELLA RILEVAMENTO GAS A BOCCA-FORO

| Profondità (m da p.c) | H2S (ppm) | CO (ppm) | O2 (%) | LEL (%) |
|-----------------------|-----------|----------|--------|---------|
| 53,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 54,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 54,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 55,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 56,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 56,60 | 0,00 | 0,00 | 20,90 | 0,00 |
| 57,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 58,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 58,30 | 0,00 | 0,00 | 20,90 | 0,00 |
| 59,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 60,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 60,90 | 0,00 | 0,00 | 20,90 | 0,00 |
| 61,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 62,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 62,60 | 0,00 | 0,00 | 20,90 | 0,00 |
| 64,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 64,50 | 0,00 | 0,00 | 20,90 | 0,00 |
| 65,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 65,60 | 0,00 | 0,00 | 20,90 | 0,00 |
| 66,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 67,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 68,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 69,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 70,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 71,00 | 0,00 | 0,00 | 20,90 | 0,00 |
| 72,00 | 0,00 | 0,00 | 20,90 | 0,00 |
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Dr. G. B.
ORDINE DEI GEOLOGI - della Regione Campania

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|  | COMMITTENTE: CONSORZIO HIRPINIA AV | DATA DI EMISSIONE: 26/11/2019 |
| | OPERA: LINEA FS NA-BA - TRATTA APICE ORSARA I LOTTO FUNZIONALE APICE-HIRPINIA | PAGINA: 1 di 5 |

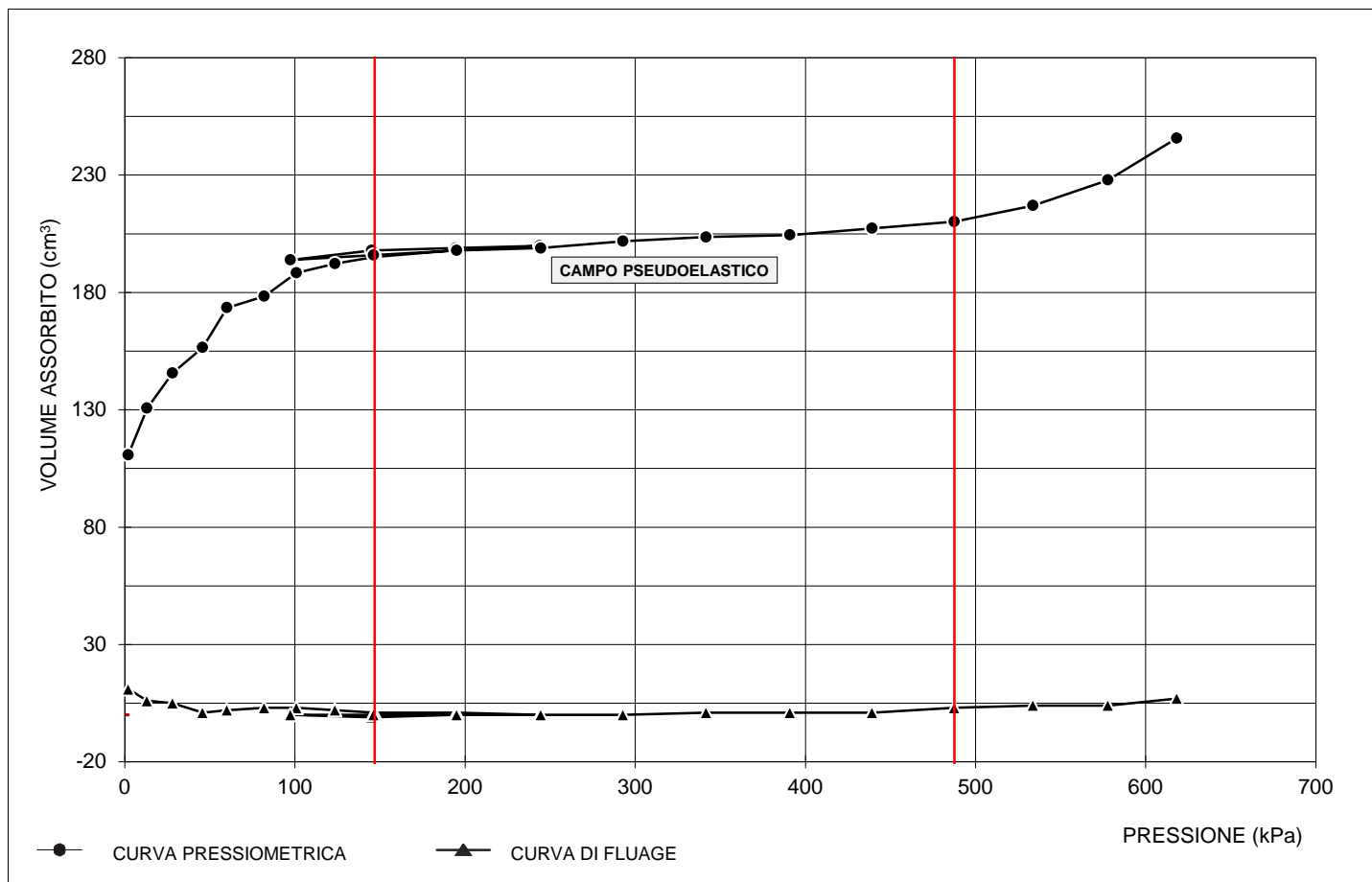
PROVA PRESSIOMETRICA ASTM D4719 - 07

| | | | |
|--|--------------------------------------|---------------------------------|-------------------------------|
| SONDAGGIO: SN_ME 02 | PROVA N°: MPM1 | DATA ESECUZIONE: 04/11/2019 | PROFONDITA' (m): 7,50 |
| PROFONDITA' FALDA (m): | ALTEZZA SERBATOIO (m): 1,00 | PRESSIONE IDROSTATICA (kPa): 83 | |
| DIAMETRO DELLA SONDA DPM (mm): 58,0 | 1,03 DPM < DH < 1,20 DPM | | PRESSIONOMETRO MENARD |
| DIAMETRO DEL FORO DI PROVA DH (mm): 66,0 | DH/DPM = 1,14 | | APAGEO GA - BX $\phi = 58$ mm |
| DATA TARATURE: 04/11/2019 | ESEGUIA DA: dott. Alberto Carbonelli | | |
| DESCRIZIONE GRANULOMETRICA: | Limo sabbioso debolmente argilloso | | |

| DATI DI CAMPAGNA | | | | | | CORREZ. IDROST. | DATI CORRETTI | | | | |
|------------------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|-----------------|------------------------------|-----------------|------------------|
| STEP | PRESSIONE | VOLUME 30" | VOLUME 60" | FLUAGE V60-V30 | ΔV (60") | | TARATURA SONDA | VALORI CORRETTI | | VOL.VAR. | |
| n. | (kPa) | (cm ³) | (cm ³) | (cm ³) | (cm ³) | P+HP (kPa) | Vt (cm ³) | Pt (kPa) | Vcorr. (cm ³) | Pcorr. (kPa) | Vcorr./Vm (-) |
| 1 | 0 | 100 | 111 | 11 | 111 | 83 | 0,2 | 81 | 110,8 | 2,0 | 0,15 |
| 2 | 25 | 125 | 131 | 6 | 20 | 108 | 0,3 | 95 | 130,7 | 13,1 | 0,18 |
| 3 | 50 | 141 | 146 | 5 | 15 | 133 | 0,4 | 105 | 145,6 | 28,0 | 0,20 |
| 4 | 75 | 156 | 157 | 1 | 11 | 158 | 0,5 | 113 | 156,5 | 45,8 | 0,21 |
| 5 | 100 | 172 | 174 | 2 | 17 | 183 | 0,5 | 123 | 173,5 | 60,1 | 0,24 |
| 6 | 125 | 176 | 179 | 3 | 5 | 208 | 0,6 | 126 | 178,4 | 82,0 | 0,24 |
| 7 | 150 | 186 | 189 | 3 | 10 | 233 | 0,7 | 132 | 188,3 | 100,9 | 0,26 |
| 8 | 175 | 191 | 193 | 2 | 4 | 258 | 0,7 | 135 | 192,3 | 123,6 | 0,26 |
| 9 | 200 | 195 | 196 | 1 | 3 | 283 | 0,8 | 137 | 195,2 | 146,8 | 0,26 |
| 10 | 250 | 198 | 199 | 1 | 3 | 333 | 1,0 | 138 | 198,0 | 195,1 | 0,27 |
| 11 | 300 | 201 | 201 | 0 | 2 | 383 | 1,1 | 139 | 199,9 | 243,9 | 0,27 |
| 12 | 250 | 200 | 200 | 0 | -1 | 333 | 1,0 | 139 | 198,9 | 194,5 | 0,27 |
| 13 | 200 | 200 | 199 | -1 | -1 | 283 | 0,8 | 138 | 197,9 | 145,1 | 0,27 |
| 14 | 150 | 195 | 195 | 0 | -4 | 233 | 0,7 | 136 | 193,9 | 97,4 | 0,26 |
| 15 | 200 | 197 | 197 | 0 | 2 | 283 | 0,8 | 137 | 195,9 | 146,2 | 0,27 |
| 16 | 250 | 199 | 199 | 0 | 2 | 333 | 1,0 | 138 | 197,9 | 195,1 | 0,27 |
| 17 | 300 | 200 | 200 | 0 | 1 | 383 | 1,1 | 139 | 198,9 | 244,5 | 0,27 |
| 18 | 350 | 203 | 203 | 0 | 3 | 433 | 1,3 | 141 | 201,7 | 292,8 | 0,27 |
| 19 | 400 | 204 | 205 | 1 | 2 | 483 | 1,4 | 142 | 203,6 | 341,6 | 0,28 |
| 20 | 450 | 205 | 206 | 1 | 1 | 533 | 1,5 | 142 | 204,5 | 391,0 | 0,28 |
| 21 | 500 | 208 | 209 | 1 | 3 | 583 | 1,7 | 144 | 207,3 | 439,3 | 0,28 |
| 22 | 550 | 209 | 212 | 3 | 3 | 633 | 1,8 | 146 | 210,2 | 487,6 | 0,28 |
| 23 | 600 | 215 | 219 | 4 | 7 | 683 | 2,0 | 150 | 217,0 | 533,8 | 0,29 |
| 24 | 650 | 226 | 230 | 4 | 11 | 733 | 2,1 | 156 | 227,9 | 577,8 | 0,31 |
| 25 | 700 | 241 | 248 | 7 | 18 | 783 | 2,3 | 165 | 245,7 | 618,4 | 0,33 |
| | | | | | | | | | | | |
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NOTE
Per le caratteristiche prevalentemente granulari del materiale si è deciso di stimare la resistenza al taglio in termini di angolo di attrito interno drenato. Questo dato, pur presentando una discreta approssimazione generale, non può ancora essere considerato di totale affidabilità.

CURVA PRESSIOMETRICA E DI FLUAGE



La curva mostra un andamento regolare e privo di anomalie. Pertanto risulta chiara l'individuazione della fase pseudoelastica e sicura la stima della pressione limite.

LIMITI DEL CAMPO PSEUDOELASTICO

| | | | |
|---------------------------------|----|-------|--------------------|
| PRESSIONE DI RICOMPRESSIONE | Po | 146,8 | (kPa) |
| VOLUME DI RICOMPRESSIONE | Vo | 195,2 | (cm ³) |
| PRESSIONE DI SCORRIMENTO FINALE | Pf | 487,6 | (kPa) |
| VOLUME DI SCORRIMENTO FINALE | Vf | 210,2 | (cm ³) |

PARAMETRI DI CALCOLO

| | | | |
|---|--------|-------|--------------------|
| VOLUME LIMITE | Vi | 925,4 | (cm ³) |
| VOLUME CORRETTO LETTO NELLA PORZIONE CENTRALE DI ΔV | Vm | 737,7 | (cm ³) |
| PARAMETRO DI CONTROLLO | Ep/P'I | 50 | (-) |
| VOLUME DELLA CELLA ALLA LETTURA DI 0 VOLUME IN SUPERFICIE | Vi | 535 | (cm ³) |
| COEFFICIENTE DI POISSON | v | 0,35 | (-) |
| COEFFICIENTE REOLOGICO | α | 0,59 | (-) |

RISULTATI

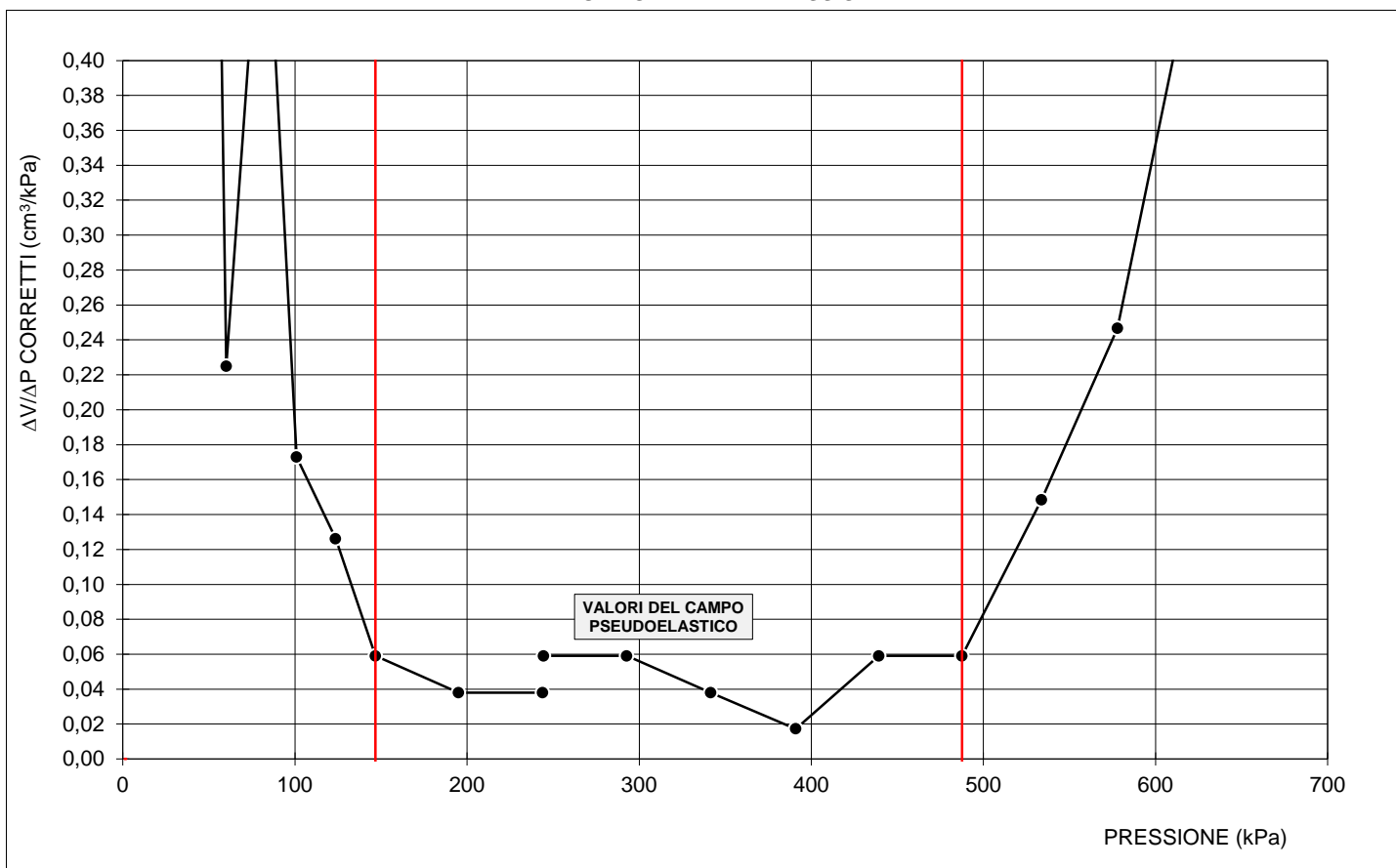
| | | | |
|---|-----|--------|-------|
| PRESSIONE LIMITE | PI | 1.049 | (kPa) |
| PRESSIONE LIMITE NETTA | P'I | 902 | (kPa) |
| MODULO DI MENARD | Ep | 45.253 | (kPa) |
| MODULO DI YOUNG | E | 76.701 | (kPa) |
| RESIST. AL TAGLIO ESPRESSA SOLO IN CONDIZIONI NON DRENATE | Cu | / | (kPa) |
| RESIST. AL TAGLIO ESPRESSA SOLO IN CONDIZIONI DRENATE | φ' | 31 | (°) |

1° CICLO D'ISTERESI

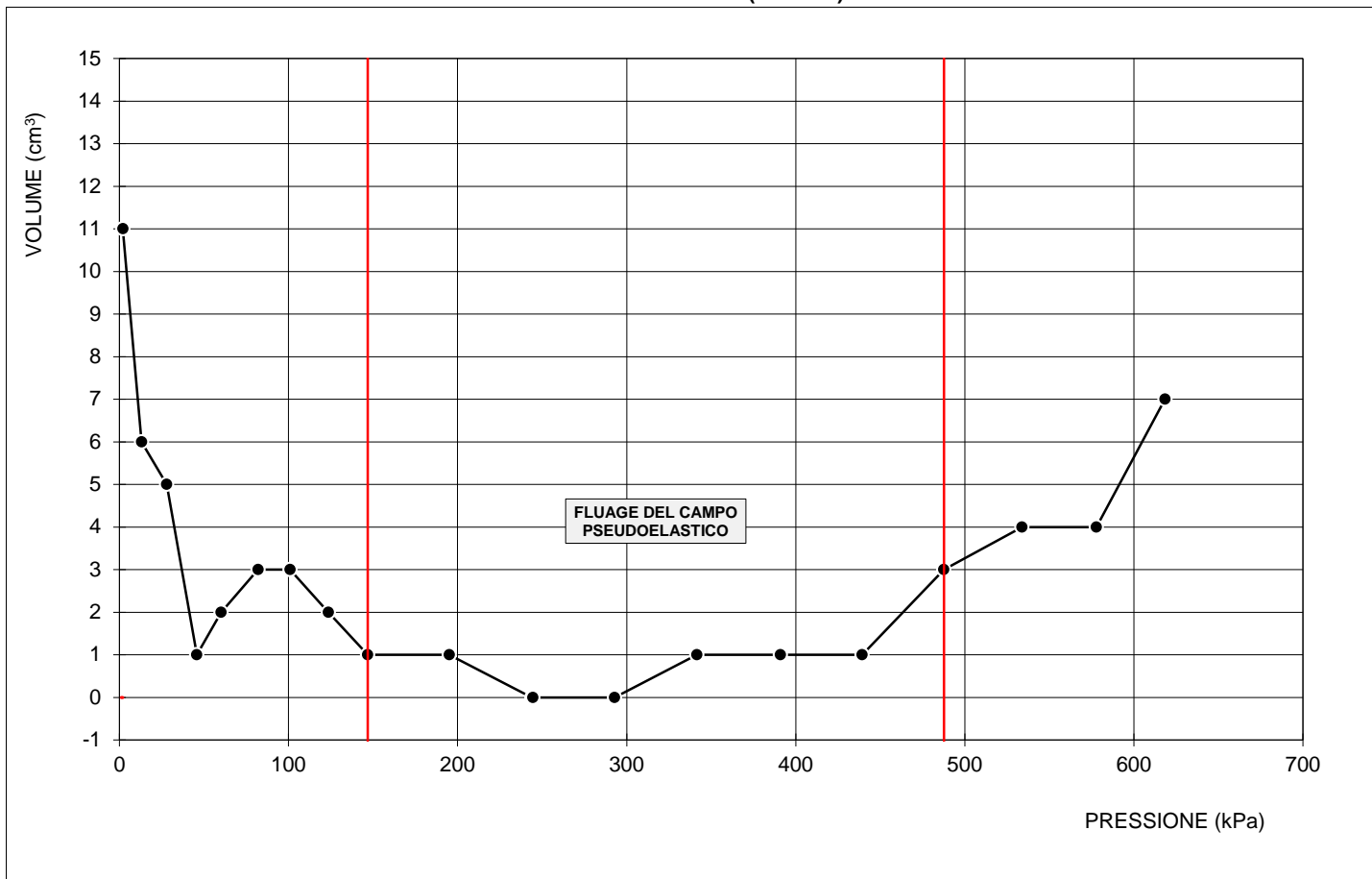
2° CICLO D'ISTERESI

| | | | | | | |
|--------------------|----------------|--------|--------------------|--------------------|----------------|--------------------|
| VOLUME INIZIALE | V ₀ | 193,9 | (cm ³) | VOLUME INIZIALE | V ₁ | (cm ³) |
| VOLUME FINALE | Vf | 198,9 | (cm ³) | VOLUME FINALE | V ₂ | (cm ³) |
| PRESSIONE INIZIALE | P ₀ | 97,4 | (kPa) | PRESSIONE INIZIALE | P ₁ | (kPa) |
| PRESSIONE FINALE | Pf | 244,5 | (kPa) | PRESSIONE FINALE | P ₂ | (kPa) |
| MODULO DI MENARD | Ep | 58.097 | (kPa) | MODULO DI MENARD | Ep | (kPa) |

**CURVA DELLA VARIAZIONE DI $\Delta V/\Delta P$ CORRETTO PER OGNI STEP DI PRESSIONE
IN FUNZIONE DELLA PRESSIONE**



CURVA DI FLUAGE (V60-V30)



DETERMINAZIONE DELLA PRESSIONE LIMITE

GRAFICO PRESSIONE CORRETTA IN FUNZIONE DEL VOLUME CORRETTO

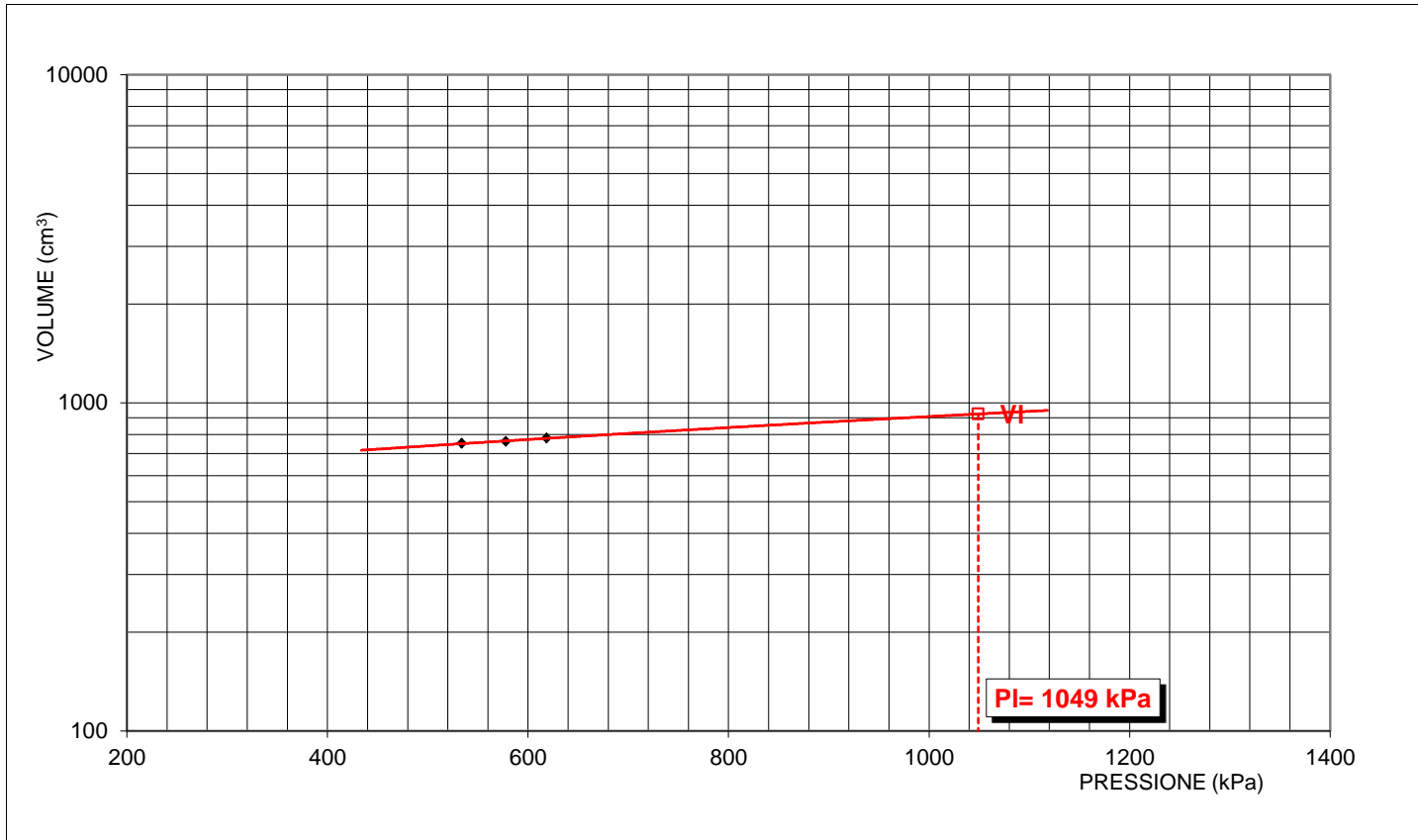
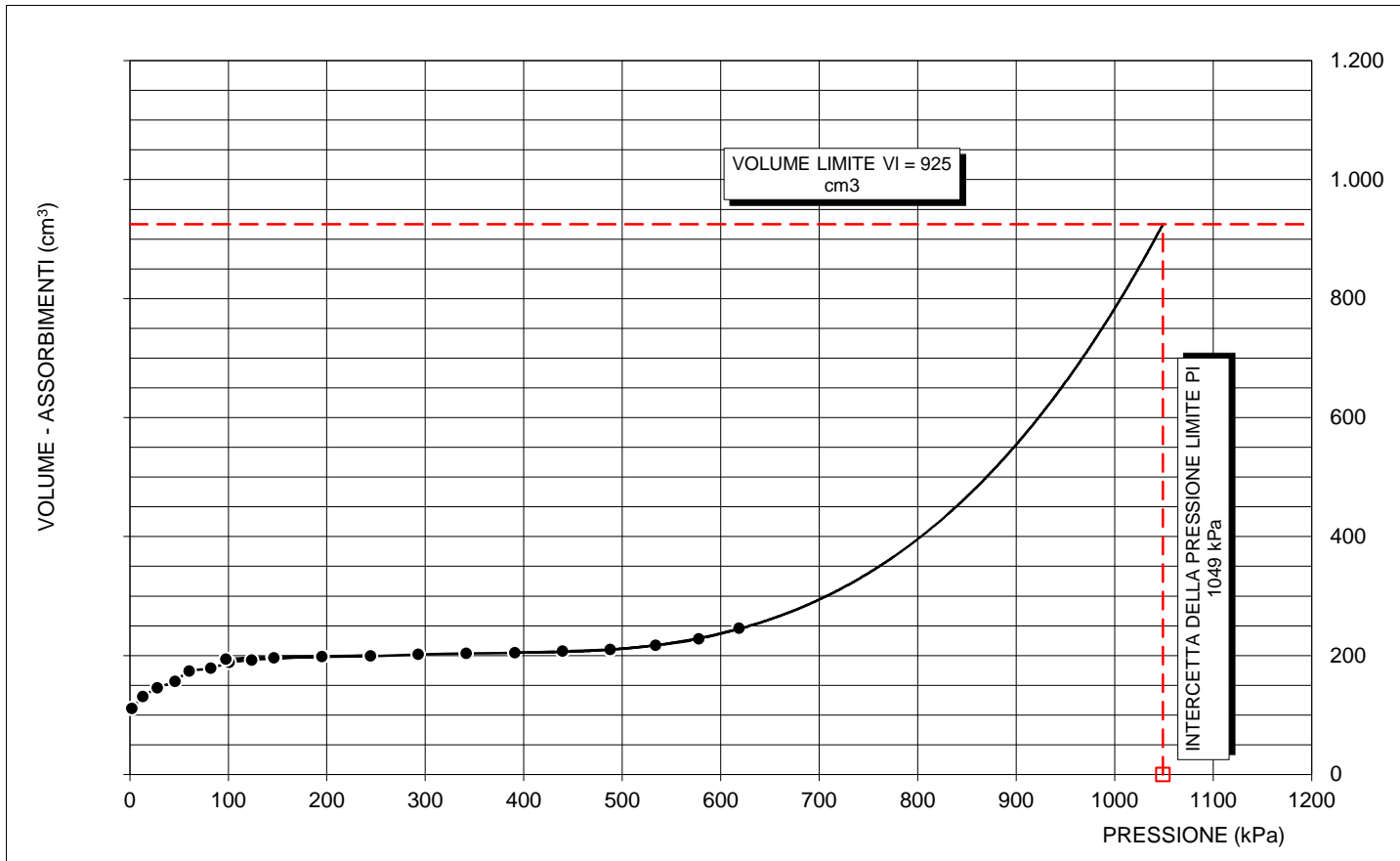


GRAFICO PRESSIONE - VARIAZIONE VOLUME CON INTERPOLAZIONE DELLA CURVA FINO AL VALORE DEL VOLUME LIMITE



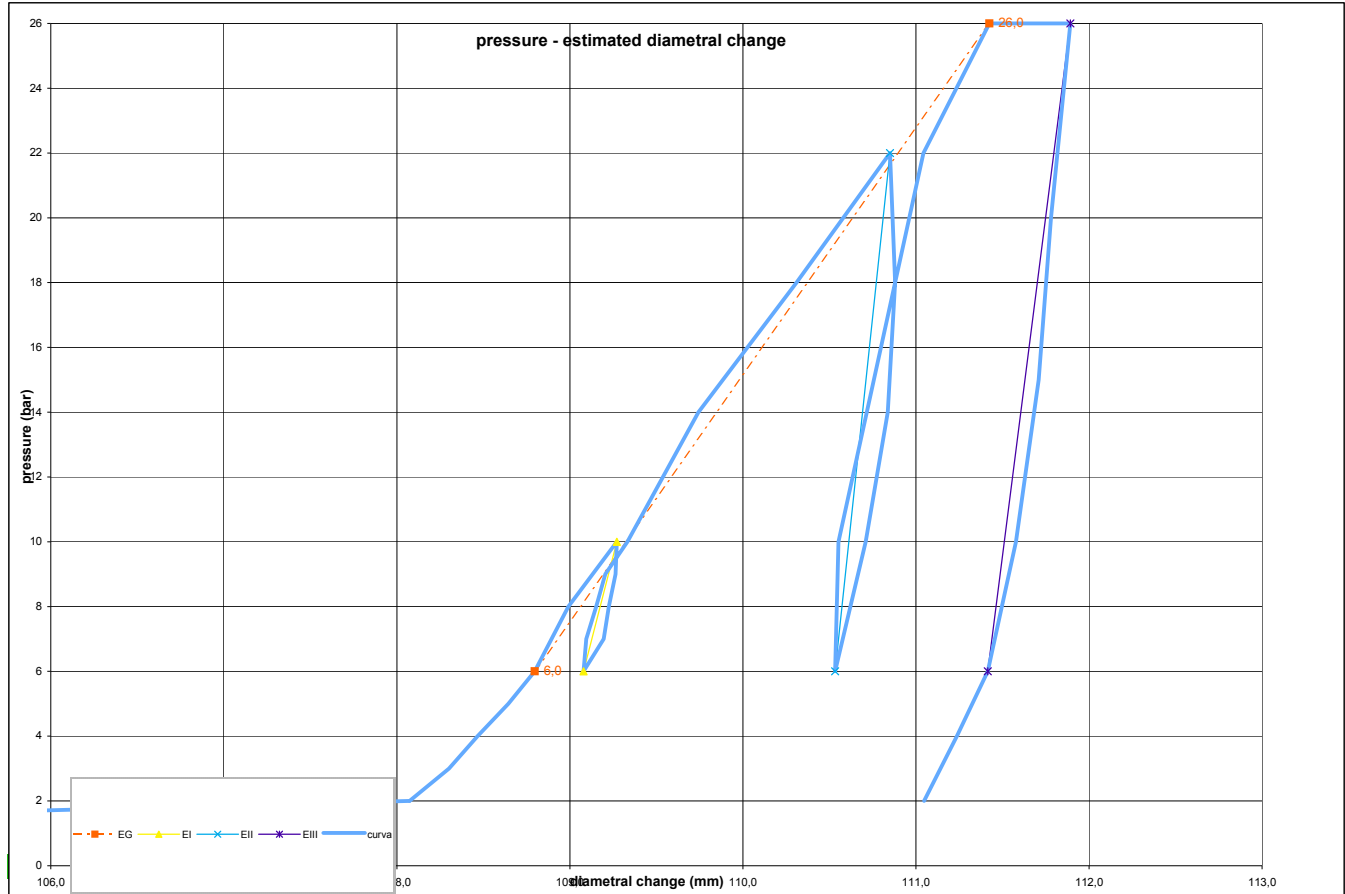
| | | | | | | |
|---|---|--|---|---|---|--|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | borehole SN_ME_02 | | probe depth m 63,5 | | mod DVT REV 2 MARZO 2018 code 1 | |
| | Client: CONSORZIO HIRPINIA | | | job 1925-28 v. accept. 1925-28SIT | | |
| | Project RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | | report 1925-28SIT DRT | | |
| | site MELITO IRPINO | | | coordinates EAST NORTH | | date 15.11.19 |

DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987

| LITHOTYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------|--|-------------------|-----------------|------------------|---------------------|---------------|--|--|--|--|-------------------------|----------|--------------|------------|-------------------|-----------------|------------------|---------------------|---------------|----------|-----------|---------|-----|--------|---------|---------|-------|---------|-------|------|---------|------|--------|----------|---------|--------|---------|-------|------|--------|-------|--------|--------|---------|-------|-----|-------|-----|-----|-------|--------|--------|---------|-------|------|-------|-----|-----|-------|--------|--------|---------|-------|------|-------|------|------|-------|--------|--------|---------|-------|------|-------|-----|------|-------|-------|--------|---------|-------|------|-------|------|------|-------|-------|--------|---------|-------|-------|-------|------|------|-------|-------|-------|---------|-------|------|---|-----|------|-------|-------|-------|---------|-------|--------|----|-----|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|------|------|-------|-------|-------|---------|-------|-------|----|------|------|-------|-------|-------|---------|-------|-------|----|------|------|-------|-------|-------|---------|-------|------|----|------|------|-------|-------|-------|---------|-------|------|----|------|------|-------|-------|-------|---------|--------|---------|----|------|------|-------|-------|-------|---------|-------|--------|----|------|------|-------|-------|-------|---------|-------|-------|----|-----|------|-------|-------|-------|---------|-------|-------|----|------|------|-------|-------|-------|---------|-------|--------|----|------|------|-------|-------|-------|---------|-------|-------|----|------|------|-------|-------|-------|---------|--------|-------|----|------|------|-------|-------|-------|---------|--------|-------|----|------|------|-------|-------|-------|---------|--------|-------|----|------|------|-------|-------|-------|---------|--------|------|----|------|------|-------|-------|-------|---------|--------|------|----|------|------|-------|-------|-------|---------|--------|------|----|------|------|-------|-------|-------|---------|--------|------|----|------|------|-------|-------|-------|---------|--------|------|----|------|------|-------|-------|-------|---------|--------|-------|----|------|------|-------|-------|-------|---------|--------|-------|----|------|------|-------|-------|-------|---------|--------|-------|----|-----|------|-------|-------|-------|---------|--------|-------|----|-----|-----|-------|-------|-------|---------|--------|-------|----|-----|-----|-------|-------|-------|---------|--------|-------|
| direction - displacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Borehole SN_ME_02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| test 1 | depth m 63,50 | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>STEP</th> <th>P bar</th> <th>Pcorr Kpa</th> <th>Vol cmc</th> <th>ϵ_c %</th> <th>1/V 1000/cmc</th> <th>diameter (mm)</th> <th>Dil. Diam (mm)</th> <th>Modulo MPa</th> </tr> </thead> <tbody> <tr><td>0</td><td>0,0</td><td>0</td><td>0,0</td><td>-7,291</td><td>0,000</td><td>100,865</td><td>0,000</td><td>0,0</td></tr> <tr><td>1</td><td>1,0</td><td>733</td><td>-1,6</td><td>-7,311</td><td>-620,409</td><td>100,843</td><td>-0,021</td><td>-4313,9</td></tr> <tr><td>2</td><td>2,0</td><td>758</td><td>561,8</td><td>-0,665</td><td>1,780</td><td>108,073</td><td>7,209</td><td>0,4</td></tr> <tr><td>3</td><td>3,0</td><td>853</td><td>580,2</td><td>-0,456</td><td>1,724</td><td>108,301</td><td>7,436</td><td>56,7</td></tr> <tr><td>4</td><td>4,0</td><td>949</td><td>593,6</td><td>-0,304</td><td>1,685</td><td>108,467</td><td>7,602</td><td>78,7</td></tr> <tr><td>5</td><td>5,0</td><td>1045</td><td>607,9</td><td>-0,140</td><td>1,645</td><td>108,644</td><td>7,780</td><td>73,3</td></tr> <tr><td>6</td><td>6,0</td><td>1142</td><td>620,3</td><td>0,000</td><td>1,612</td><td>108,797</td><td>7,932</td><td>85,7</td></tr> <tr><td>7</td><td>8,0</td><td>1335</td><td>636,1</td><td>0,179</td><td>1,572</td><td>108,991</td><td>8,127</td><td>135,8</td></tr> <tr><td>8</td><td>10,0</td><td>1528</td><td>658,9</td><td>0,436</td><td>1,518</td><td>109,271</td><td>8,406</td><td>94,0</td></tr> <tr><td>9</td><td>9,0</td><td>1430</td><td>658,3</td><td>0,429</td><td>1,519</td><td>109,264</td><td>8,399</td><td>1851,5</td></tr> <tr><td>10</td><td>8,0</td><td>1333</td><td>655,1</td><td>0,393</td><td>1,526</td><td>109,225</td><td>8,360</td><td>340,2</td></tr> <tr><td>11</td><td>7,0</td><td>1235</td><td>652,7</td><td>0,366</td><td>1,532</td><td>109,195</td><td>8,331</td><td>454,4</td></tr> <tr><td>12</td><td>6,0</td><td>1139</td><td>643,2</td><td>0,259</td><td>1,555</td><td>109,079</td><td>8,214</td><td>113,1</td></tr> <tr><td>13</td><td>7,0</td><td>1236</td><td>644,5</td><td>0,274</td><td>1,552</td><td>109,095</td><td>8,230</td><td>841,8</td></tr> <tr><td>14</td><td>8,0</td><td>1334</td><td>649,2</td><td>0,326</td><td>1,540</td><td>109,152</td><td>8,288</td><td>230,4</td></tr> <tr><td>15</td><td>9,0</td><td>1431</td><td>653,5</td><td>0,375</td><td>1,530</td><td>109,205</td><td>8,340</td><td>252,3</td></tr> <tr><td>16</td><td>10,0</td><td>1527</td><td>663,9</td><td>0,492</td><td>1,506</td><td>109,332</td><td>8,468</td><td>103,5</td></tr> <tr><td>17</td><td>14,0</td><td>1915</td><td>697,4</td><td>0,869</td><td>1,434</td><td>109,743</td><td>8,878</td><td>129,1</td></tr> <tr><td>18</td><td>18,0</td><td>2300</td><td>744,0</td><td>1,391</td><td>1,344</td><td>110,310</td><td>9,445</td><td>93,5</td></tr> <tr><td>19</td><td>22,0</td><td>2686</td><td>788,5</td><td>1,887</td><td>1,268</td><td>110,850</td><td>9,986</td><td>98,7</td></tr> <tr><td>20</td><td>18,0</td><td>2294</td><td>791,0</td><td>1,914</td><td>1,264</td><td>110,880</td><td>10,015</td><td>-1835,2</td></tr> <tr><td>21</td><td>14,0</td><td>1903</td><td>787,4</td><td>1,875</td><td>1,270</td><td>110,837</td><td>9,972</td><td>1261,6</td></tr> <tr><td>22</td><td>10,0</td><td>1513</td><td>776,9</td><td>1,758</td><td>1,287</td><td>110,709</td><td>9,844</td><td>423,1</td></tr> <tr><td>23</td><td>6,0</td><td>1123</td><td>762,3</td><td>1,595</td><td>1,312</td><td>110,533</td><td>9,668</td><td>305,5</td></tr> <tr><td>24</td><td>10,0</td><td>1514</td><td>763,9</td><td>1,613</td><td>1,309</td><td>110,552</td><td>9,687</td><td>2872,1</td></tr> <tr><td>25</td><td>14,0</td><td>1904</td><td>777,4</td><td>1,764</td><td>1,286</td><td>110,716</td><td>9,851</td><td>328,3</td></tr> <tr><td>26</td><td>18,0</td><td>2294</td><td>791,0</td><td>1,914</td><td>1,264</td><td>110,880</td><td>10,015</td><td>329,2</td></tr> <tr><td>27</td><td>22,0</td><td>2684</td><td>804,5</td><td>2,065</td><td>1,243</td><td>111,043</td><td>10,179</td><td>330,2</td></tr> <tr><td>28</td><td>26,0</td><td>3071</td><td>836,1</td><td>2,414</td><td>1,196</td><td>111,424</td><td>10,559</td><td>141,7</td></tr> <tr><td>29</td><td>26,0</td><td>3070</td><td>848,1</td><td>2,547</td><td>1,179</td><td>111,568</td><td>10,703</td><td>-1,5</td></tr> <tr><td>30</td><td>26,0</td><td>3068</td><td>858,1</td><td>2,657</td><td>1,165</td><td>111,688</td><td>10,823</td><td>-1,5</td></tr> <tr><td>31</td><td>26,0</td><td>3068</td><td>864,1</td><td>2,724</td><td>1,157</td><td>111,760</td><td>10,895</td><td>-1,5</td></tr> <tr><td>32</td><td>26,0</td><td>3067</td><td>868,1</td><td>2,768</td><td>1,152</td><td>111,808</td><td>10,943</td><td>-1,5</td></tr> <tr><td>33</td><td>26,0</td><td>3066</td><td>875,1</td><td>2,845</td><td>1,143</td><td>111,892</td><td>11,027</td><td>-1,5</td></tr> <tr><td>34</td><td>20,0</td><td>2480</td><td>865,8</td><td>2,742</td><td>1,155</td><td>111,780</td><td>10,915</td><td>732,8</td></tr> <tr><td>35</td><td>15,0</td><td>1991</td><td>859,8</td><td>2,676</td><td>1,163</td><td>111,709</td><td>10,844</td><td>957,8</td></tr> <tr><td>36</td><td>10,0</td><td>1503</td><td>848,9</td><td>2,556</td><td>1,178</td><td>111,577</td><td>10,713</td><td>518,4</td></tr> <tr><td>37</td><td>6,0</td><td>1114</td><td>835,3</td><td>2,406</td><td>1,197</td><td>111,415</td><td>10,550</td><td>333,4</td></tr> <tr><td>38</td><td>4,0</td><td>920</td><td>820,6</td><td>2,242</td><td>1,219</td><td>111,237</td><td>10,372</td><td>151,6</td></tr> <tr><td>39</td><td>2,0</td><td>726</td><td>804,8</td><td>2,067</td><td>1,243</td><td>111,046</td><td>10,182</td><td>141,4</td></tr> </tbody> </table> | | | | | | | | | | STEP | P bar | Pcorr Kpa | Vol cmc | ϵ_c % | 1/V 1000/cmc | diameter (mm) | Dil. Diam (mm) | Modulo MPa | 0 | 0,0 | 0 | 0,0 | -7,291 | 0,000 | 100,865 | 0,000 | 0,0 | 1 | 1,0 | 733 | -1,6 | -7,311 | -620,409 | 100,843 | -0,021 | -4313,9 | 2 | 2,0 | 758 | 561,8 | -0,665 | 1,780 | 108,073 | 7,209 | 0,4 | 3 | 3,0 | 853 | 580,2 | -0,456 | 1,724 | 108,301 | 7,436 | 56,7 | 4 | 4,0 | 949 | 593,6 | -0,304 | 1,685 | 108,467 | 7,602 | 78,7 | 5 | 5,0 | 1045 | 607,9 | -0,140 | 1,645 | 108,644 | 7,780 | 73,3 | 6 | 6,0 | 1142 | 620,3 | 0,000 | 1,612 | 108,797 | 7,932 | 85,7 | 7 | 8,0 | 1335 | 636,1 | 0,179 | 1,572 | 108,991 | 8,127 | 135,8 | 8 | 10,0 | 1528 | 658,9 | 0,436 | 1,518 | 109,271 | 8,406 | 94,0 | 9 | 9,0 | 1430 | 658,3 | 0,429 | 1,519 | 109,264 | 8,399 | 1851,5 | 10 | 8,0 | 1333 | 655,1 | 0,393 | 1,526 | 109,225 | 8,360 | 340,2 | 11 | 7,0 | 1235 | 652,7 | 0,366 | 1,532 | 109,195 | 8,331 | 454,4 | 12 | 6,0 | 1139 | 643,2 | 0,259 | 1,555 | 109,079 | 8,214 | 113,1 | 13 | 7,0 | 1236 | 644,5 | 0,274 | 1,552 | 109,095 | 8,230 | 841,8 | 14 | 8,0 | 1334 | 649,2 | 0,326 | 1,540 | 109,152 | 8,288 | 230,4 | 15 | 9,0 | 1431 | 653,5 | 0,375 | 1,530 | 109,205 | 8,340 | 252,3 | 16 | 10,0 | 1527 | 663,9 | 0,492 | 1,506 | 109,332 | 8,468 | 103,5 | 17 | 14,0 | 1915 | 697,4 | 0,869 | 1,434 | 109,743 | 8,878 | 129,1 | 18 | 18,0 | 2300 | 744,0 | 1,391 | 1,344 | 110,310 | 9,445 | 93,5 | 19 | 22,0 | 2686 | 788,5 | 1,887 | 1,268 | 110,850 | 9,986 | 98,7 | 20 | 18,0 | 2294 | 791,0 | 1,914 | 1,264 | 110,880 | 10,015 | -1835,2 | 21 | 14,0 | 1903 | 787,4 | 1,875 | 1,270 | 110,837 | 9,972 | 1261,6 | 22 | 10,0 | 1513 | 776,9 | 1,758 | 1,287 | 110,709 | 9,844 | 423,1 | 23 | 6,0 | 1123 | 762,3 | 1,595 | 1,312 | 110,533 | 9,668 | 305,5 | 24 | 10,0 | 1514 | 763,9 | 1,613 | 1,309 | 110,552 | 9,687 | 2872,1 | 25 | 14,0 | 1904 | 777,4 | 1,764 | 1,286 | 110,716 | 9,851 | 328,3 | 26 | 18,0 | 2294 | 791,0 | 1,914 | 1,264 | 110,880 | 10,015 | 329,2 | 27 | 22,0 | 2684 | 804,5 | 2,065 | 1,243 | 111,043 | 10,179 | 330,2 | 28 | 26,0 | 3071 | 836,1 | 2,414 | 1,196 | 111,424 | 10,559 | 141,7 | 29 | 26,0 | 3070 | 848,1 | 2,547 | 1,179 | 111,568 | 10,703 | -1,5 | 30 | 26,0 | 3068 | 858,1 | 2,657 | 1,165 | 111,688 | 10,823 | -1,5 | 31 | 26,0 | 3068 | 864,1 | 2,724 | 1,157 | 111,760 | 10,895 | -1,5 | 32 | 26,0 | 3067 | 868,1 | 2,768 | 1,152 | 111,808 | 10,943 | -1,5 | 33 | 26,0 | 3066 | 875,1 | 2,845 | 1,143 | 111,892 | 11,027 | -1,5 | 34 | 20,0 | 2480 | 865,8 | 2,742 | 1,155 | 111,780 | 10,915 | 732,8 | 35 | 15,0 | 1991 | 859,8 | 2,676 | 1,163 | 111,709 | 10,844 | 957,8 | 36 | 10,0 | 1503 | 848,9 | 2,556 | 1,178 | 111,577 | 10,713 | 518,4 | 37 | 6,0 | 1114 | 835,3 | 2,406 | 1,197 | 111,415 | 10,550 | 333,4 | 38 | 4,0 | 920 | 820,6 | 2,242 | 1,219 | 111,237 | 10,372 | 151,6 | 39 | 2,0 | 726 | 804,8 | 2,067 | 1,243 | 111,046 | 10,182 | 141,4 |
| STEP | P bar | Pcorr Kpa | Vol cmc | ϵ_c % | 1/V 1000/cmc | diameter (mm) | Dil. Diam (mm) | Modulo MPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0,0 | 0 | 0,0 | -7,291 | 0,000 | 100,865 | 0,000 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1,0 | 733 | -1,6 | -7,311 | -620,409 | 100,843 | -0,021 | -4313,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2,0 | 758 | 561,8 | -0,665 | 1,780 | 108,073 | 7,209 | 0,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3,0 | 853 | 580,2 | -0,456 | 1,724 | 108,301 | 7,436 | 56,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4,0 | 949 | 593,6 | -0,304 | 1,685 | 108,467 | 7,602 | 78,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5,0 | 1045 | 607,9 | -0,140 | 1,645 | 108,644 | 7,780 | 73,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6,0 | 1142 | 620,3 | 0,000 | 1,612 | 108,797 | 7,932 | 85,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8,0 | 1335 | 636,1 | 0,179 | 1,572 | 108,991 | 8,127 | 135,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 10,0 | 1528 | 658,9 | 0,436 | 1,518 | 109,271 | 8,406 | 94,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 9,0 | 1430 | 658,3 | 0,429 | 1,519 | 109,264 | 8,399 | 1851,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 8,0 | 1333 | 655,1 | 0,393 | 1,526 | 109,225 | 8,360 | 340,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 7,0 | 1235 | 652,7 | 0,366 | 1,532 | 109,195 | 8,331 | 454,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 6,0 | 1139 | 643,2 | 0,259 | 1,555 | 109,079 | 8,214 | 113,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 7,0 | 1236 | 644,5 | 0,274 | 1,552 | 109,095 | 8,230 | 841,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 8,0 | 1334 | 649,2 | 0,326 | 1,540 | 109,152 | 8,288 | 230,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 9,0 | 1431 | 653,5 | 0,375 | 1,530 | 109,205 | 8,340 | 252,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 10,0 | 1527 | 663,9 | 0,492 | 1,506 | 109,332 | 8,468 | 103,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 14,0 | 1915 | 697,4 | 0,869 | 1,434 | 109,743 | 8,878 | 129,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 18,0 | 2300 | 744,0 | 1,391 | 1,344 | 110,310 | 9,445 | 93,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 22,0 | 2686 | 788,5 | 1,887 | 1,268 | 110,850 | 9,986 | 98,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 18,0 | 2294 | 791,0 | 1,914 | 1,264 | 110,880 | 10,015 | -1835,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 14,0 | 1903 | 787,4 | 1,875 | 1,270 | 110,837 | 9,972 | 1261,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 10,0 | 1513 | 776,9 | 1,758 | 1,287 | 110,709 | 9,844 | 423,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 6,0 | 1123 | 762,3 | 1,595 | 1,312 | 110,533 | 9,668 | 305,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 10,0 | 1514 | 763,9 | 1,613 | 1,309 | 110,552 | 9,687 | 2872,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 14,0 | 1904 | 777,4 | 1,764 | 1,286 | 110,716 | 9,851 | 328,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 18,0 | 2294 | 791,0 | 1,914 | 1,264 | 110,880 | 10,015 | 329,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 22,0 | 2684 | 804,5 | 2,065 | 1,243 | 111,043 | 10,179 | 330,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 26,0 | 3071 | 836,1 | 2,414 | 1,196 | 111,424 | 10,559 | 141,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 26,0 | 3070 | 848,1 | 2,547 | 1,179 | 111,568 | 10,703 | -1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 26,0 | 3068 | 858,1 | 2,657 | 1,165 | 111,688 | 10,823 | -1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 26,0 | 3068 | 864,1 | 2,724 | 1,157 | 111,760 | 10,895 | -1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 26,0 | 3067 | 868,1 | 2,768 | 1,152 | 111,808 | 10,943 | -1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | 26,0 | 3066 | 875,1 | 2,845 | 1,143 | 111,892 | 11,027 | -1,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 20,0 | 2480 | 865,8 | 2,742 | 1,155 | 111,780 | 10,915 | 732,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 15,0 | 1991 | 859,8 | 2,676 | 1,163 | 111,709 | 10,844 | 957,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 10,0 | 1503 | 848,9 | 2,556 | 1,178 | 111,577 | 10,713 | 518,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 6,0 | 1114 | 835,3 | 2,406 | 1,197 | 111,415 | 10,550 | 333,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 4,0 | 920 | 820,6 | 2,242 | 1,219 | 111,237 | 10,372 | 151,6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 2,0 | 726 | 804,8 | 2,067 | 1,243 | 111,046 | 10,182 | 141,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device: CSM Type GEODV01 95 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orientation capteur Standard method: ISRM 1987 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Probe diam 95 MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meteo Temperatu re | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Temps min</th> <th>PBAR</th> <th>MM</th> </tr> </thead> <tbody> <tr><td>0</td><td>26,0</td><td>111,424</td></tr> <tr><td>1</td><td>26,0</td><td>111,568</td></tr> <tr><td>2</td><td>26,0</td><td>111,688</td></tr> <tr><td>3</td><td>26,0</td><td>111,760</td></tr> <tr><td>4</td><td>26,0</td><td>111,808</td></tr> <tr><td>5</td><td>26,0</td><td>111,892</td></tr> </tbody> </table> | | | | | | | | | | Temps min | PBAR | MM | 0 | 26,0 | 111,424 | 1 | 26,0 | 111,568 | 2 | 26,0 | 111,688 | 3 | 26,0 | 111,760 | 4 | 26,0 | 111,808 | 5 | 26,0 | 111,892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temps min | PBAR | MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 26,0 | 111,424 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 26,0 | 111,568 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| lithotype ARGILLE MARNOSE | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Creep test P (Bars) =</th> </tr> </thead> <tbody> <tr><td>0</td><td>26,0</td><td>111,424</td></tr> <tr><td>1</td><td>26,0</td><td>111,568</td></tr> <tr><td>2</td><td>26,0</td><td>111,688</td></tr> <tr><td>3</td><td>26,0</td><td>111,760</td></tr> <tr><td>4</td><td>26,0</td><td>111,808</td></tr> <tr><td>5</td><td>26,0</td><td>111,892</td></tr> </tbody> </table> | | | | | | | | | | Creep test P (Bars) = | | | 0 | 26,0 | 111,424 | 1 | 26,0 | 111,568 | 2 | 26,0 | 111,688 | 3 | 26,0 | 111,760 | 4 | 26,0 | 111,808 | 5 | 26,0 | 111,892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| water table 40,0 | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">POCKET PENETRO METER</th> </tr> </thead> <tbody> <tr><td>0</td><td>26,0</td><td>111,424</td></tr> <tr><td>1</td><td>26,0</td><td>111,568</td></tr> <tr><td>2</td><td>26,0</td><td>111,688</td></tr> <tr><td>3</td><td>26,0</td><td>111,760</td></tr> <tr><td>4</td><td>26,0</td><td>111,808</td></tr> <tr><td>5</td><td>26,0</td><td>111,892</td></tr> </tbody> </table> | | | | | | | | | | POCKET PENETRO METER | | | 0 | 26,0 | 111,424 | 1 | 26,0 | 111,568 | 2 | 26,0 | 111,688 | 3 | 26,0 | 111,760 | 4 | 26,0 | 111,808 | 5 | 26,0 | 111,892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POCKET PENETRO METER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 26,0 | 111,568 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 26,0 | 111,688 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 26,0 | 111,760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 26,0 | 111,808 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 26,0 | 111,892 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROBE SCHEME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROBE CALIBRATION | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">FIELD LIMITS</th> </tr> <tr> <th></th> <th>P</th> <th>P corr</th> <th>V corr</th> <th>creep</th> <th>1000/V</th> <th>diameter</th> <th>Dil. Diam</th> <th>loop</th> </tr> </thead> <tbody> <tr> <td>min</td> <td>6,0</td> <td>1141,6</td> <td>620,3</td> <td>0,0</td> <td>1,6</td> <td>108,8</td> <td>7,9</td> <td>primo</td> </tr> <tr> <td>max</td> <td>26,0</td> <td>3071,3</td> <td>836,1</td> <td>2,4</td> <td>1,2</td> <td>111,4</td> <td>10,6</td> <td>carico</td> </tr> <tr> <td>max</td> <td>10,0</td> <td>1528,1</td> <td>658,9</td> <td>0,4</td> <td>1,5</td> <td>109,3</td> <td>8,4</td> <td>I</td> </tr> <tr> <td>min</td> <td>6,0</td> <td>1138,6</td> <td>643,2</td> <td>0,3</td> <td>1,6</td> <td>109,1</td> <td>8,2</td> <td></td> </tr> <tr> <td>max</td> <td>22,0</td> <td>2685,9</td> <td>788,5</td> <td>1,9</td> <td>1,3</td> <td>110,9</td> <td>10,0</td> <td>II</td> </tr> <tr> <td>min</td> <td>6,0</td> <td>1123,1</td> <td>762,3</td> <td>1,6</td> <td>1,3</td> <td>110,5</td> <td>9,7</td> <td></td> </tr> <tr> <td>max</td> <td>26,0</td> <td>3066,2</td> <td>875,1</td> <td>2,8</td> <td>1,1</td> <td>111,9</td> <td>11,0</td> <td>III</td> </tr> <tr> <td>min</td> <td>6,0</td> <td>1113,6</td> <td>835,3</td> <td>2,4</td> <td>1,2</td> <td>111,4</td> <td>10,5</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | FIELD LIMITS | | | | P | P corr | V corr | creep | 1000/V | diameter | Dil. Diam | loop | min | 6,0 | 1141,6 | 620,3 | 0,0 | 1,6 | 108,8 | 7,9 | primo | max | 26,0 | 3071,3 | 836,1 | 2,4 | 1,2 | 111,4 | 10,6 | carico | max | 10,0 | 1528,1 | 658,9 | 0,4 | 1,5 | 109,3 | 8,4 | I | min | 6,0 | 1138,6 | 643,2 | 0,3 | 1,6 | 109,1 | 8,2 | | max | 22,0 | 2685,9 | 788,5 | 1,9 | 1,3 | 110,9 | 10,0 | II | min | 6,0 | 1123,1 | 762,3 | 1,6 | 1,3 | 110,5 | 9,7 | | max | 26,0 | 3066,2 | 875,1 | 2,8 | 1,1 | 111,9 | 11,0 | III | min | 6,0 | 1113,6 | 835,3 | 2,4 | 1,2 | 111,4 | 10,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIELD LIMITS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | P corr | V corr | creep | 1000/V | diameter | Dil. Diam | loop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1141,6 | 620,3 | 0,0 | 1,6 | 108,8 | 7,9 | primo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 26,0 | 3071,3 | 836,1 | 2,4 | 1,2 | 111,4 | 10,6 | carico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 10,0 | 1528,1 | 658,9 | 0,4 | 1,5 | 109,3 | 8,4 | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1138,6 | 643,2 | 0,3 | 1,6 | 109,1 | 8,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 22,0 | 2685,9 | 788,5 | 1,9 | 1,3 | 110,9 | 10,0 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1123,1 | 762,3 | 1,6 | 1,3 | 110,5 | 9,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 26,0 | 3066,2 | 875,1 | 2,8 | 1,1 | 111,9 | 11,0 | III | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1113,6 | 835,3 | 2,4 | 1,2 | 111,4 | 10,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| probe GEODV01 CSM TYPE membrane CAUCCIU' ARMATO | | | i valori diametrali sono calcolati come valore medio della sonda cilindrica in espansione | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| measure cell height (cm) 3795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VO cell volume at rest (cmc) 3795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| lenght cable (mt) 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume initial Vi (cmc) 476 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| diam calibration tube (cm) 10,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tube calibration volume cmc 4271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calibration in air coeff m 0,13 Kpa/cmc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Confined calibration first load 22,38 cmc/Mpa unload 16,12 cmc/Mpa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---|-----------------------------------|--|----------------------|--------------------------|-------------|------------------------------|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | DILATOMETRIC ROCK TEST DRT | | | mod DVT REV 2 MARZO 2018 | | |
| | borehole | SN_ME_02 | probe depth m | 63,5 | code | 1 |
| | Client: | CONSORZIO HIRPINIA | | job | 1925-28 | v. accept. 1925-28SIT |
| | Project | RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | report | 1925-28S | DRT |
| | site | MELITO IRPINO | coordinates | EAST | date | 15.11.19 pag 2/3 |




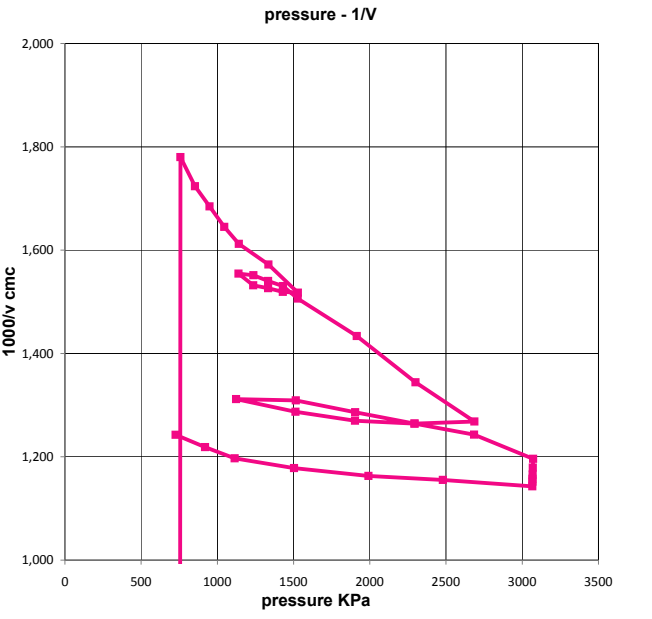
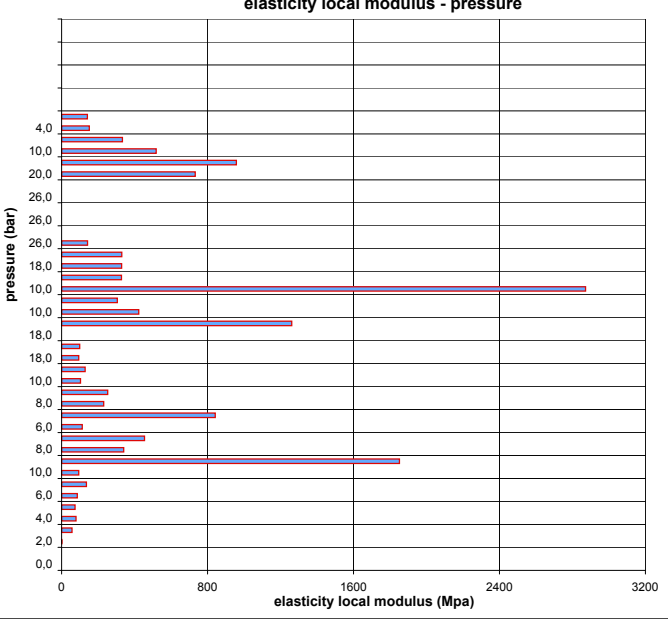
DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987



| DATA PROCESSING | | SENSOR 1 | | SENSOR 2 | | SENSOR 3 | | SENSOR AVE | | |
|--|--|--------------------------------------|-------|-------------------------------|-----------|----------------------------|-----------|------------------|-------|------------|
| Legend: H = test depth W = water table depth v = Poisson ratio vo = cell initial volume do = cell initial diameter Φ = borehole wall diameter Po = start pressure Pmax = max loop pressure (MPa) Pmin = min loop pressure (MPa) d max displacement at P max d min displacement at P min σv vertical total stress estimated ε c = dR / Ro | | ELASTICITY MODULUS Ei | | | | | | | | |
| | | loop | Pmax | Pmin | E1 (Mpa) | E2 (Mpa) | E3 (Mpa) | Eav (Mpa) | | |
| | | symbol | datum | 1 | 10,00 | 6,00 | | | 276 | |
| | | γsoil | 2,4 | 2 | 22,00 | 6,00 | | | 670 | |
| | | W (ml) | 63,5 | 3 | 26,00 | 6,00 | | | 556 | |
| DEFORMATION MODULUS Ti Ti = (1+ v) Φ Pi - Pi-1 Xi - Xi-1 | | loop | Pmax | Pmin | T1 (Mpa) | T2 (Mpa) | T3 (Mpa) | Tm (Mpa) | | |
| | | 1 | 10,00 | 6,00 | | | | 111 | | |
| | | 2 | 22,00 | 10,00 | | | | 100 | | |
| | | 3 | | | | | | | | |
| | | 4 | | | | | | | | |
| GLOBAL DEFORMATION MODULUS EG EG = (1+ v) Φ Pmax - Po dmax - do | | GLOBAL DEFORMATION MODULUS EG | | | | | | | | |
| | | Pmax | Pmin | EG1 (Mpa) | EG2 (Mpa) | EG3 (Mpa) | EGm (Mpa) | | | |
| | | | 26,00 | 6,00 | | | | 100 | | |
| | | DIAMETER | | F | F | F | F | | | |
| | | beginning diameter (mm) | | | | | 108,797 | | | |
| final diameter (mm) | | | | | 110,850 | | | | | |
| range mm | | | | | 2,053 | | | | | |
| DILATOMETRIC AND GEOTECHNICAL ESTIMATED PARAMETERS | | DM loop minimum displacement | | Pbar | | C1 | C2 | C3 | Cm | |
| | | | | 10,0 | | 10,997 | 10,997 | 10,997 | 8,406 | |
| | | | | Po initial pressure (KPa) | | 1142 | | EGm (Mpa) | | 100 |
| | | | | Pf creep pressure (KPa) | | 3071 | | E3 (MPa) | | 556 |
| | | | | PL limit pres. (KPa) Cassan > | | 4154 | | E/P/L | | 37,98 |
| | | PL' net limit pres (KPa) > | | 2630 | | EG/Ey | | 0,18 | | |
| | | Ko lateral coeff at rest (KPa) | | 1,00 | | cu coesion (KPa) johnson > | | 440 | | |
| | | Pho lateral pressure (KPa) | | 1524 | | φ friction angle (°) > | | | | |

| | | | | | | | | |
|---|-----------------------------------|--|---------------|--------------------------|---------|------------------|------------|-----|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | DILATOMETRIC ROCK TEST DRT | | | mod DVT REV 2 MARZO 2018 | | | | |
| | borehole | SN_ME_02 | probe depth m | 63,5 | code | 1 | | |
| | Client: | CONSORZIO HIRPINIA | | job | 1925-28 | v. accept. | 1925-28SIT | |
| | Project | RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | | report | 1925-28SI | DRT | |
| | site | MELITO IRPINO | coordinates | EAST | NORTH | date | 15.11.19 | pag |

DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987

| | |
|--|--|
| <p style="text-align: center;">PLACE</p>  | <p style="text-align: center;">SECTION</p>  |
|  |  <p style="text-align: center;">pressure - 1/v</p> |
|  <p style="text-align: center;">elasticity local modulus - pressure</p> | |

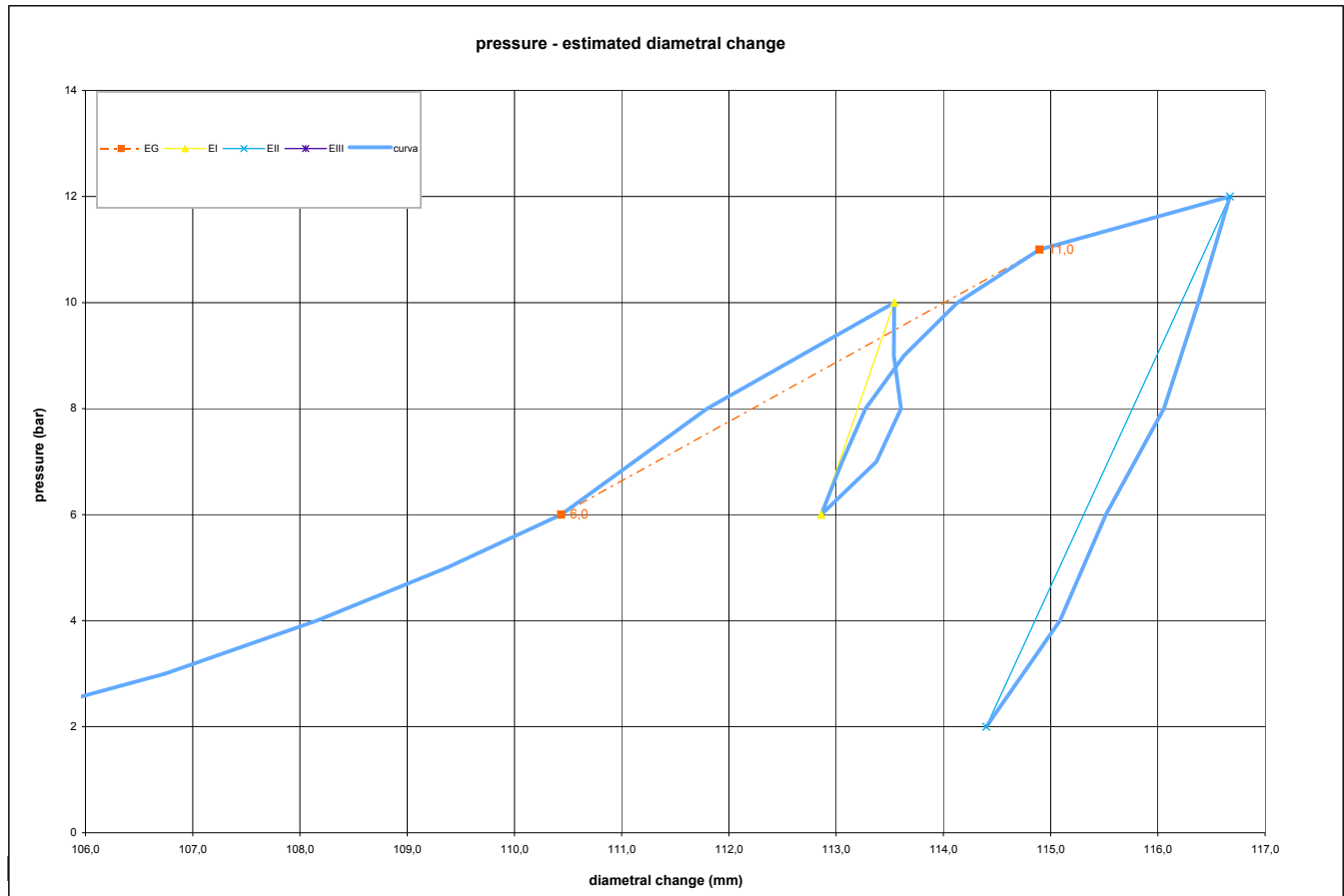
| | | | | | | |
|---|---|--|---|--|---|--|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | borehole SN_ME_02 | | probe depth m 68,5 | | mod DVT REV 2 MARZO 2018 | |
| | Client: CONSORZIO HIRPINIA | | job 1925-28 | | v. accept. 1925-28SIT | |
| | Project RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | report 1925-28SIT | | DRT | |
| | site MELITO IRPINO | | coordinates EAST NORTH | | date 19.11.19 pag 1/3 | |

DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987

| LITHOTYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|---|--------|--|----------|----------|-----------|---------|--|--|--|--|--|--------------|------------------|----------|----------------|--------------------------|-----|------------------------------|-----------|-------------------|-----|-------------------------|--------|----------------------------|----------|-----------------------------|----------|---------------------------|------|---------|--------------|-----------------------------|--------|------------|---------------|--------|---------------|-------|-----|------|--------|--------|----------|---------|--------|---------|--------|-----|------|--------|--------|-------|---------|-------|------|---|-----|-----|--------|--------|-------|---------|-------|------|---|-----|------|--------|--------|-------|---------|-------|------|----|-----|------|-------|--------|-------|---------|-------|------|---|-----|------|-------|-------|-------|---------|-------|------|---|-----|------|-------|-------|-------|---------|--------|------|---|------|------|--------|-------|-------|---------|--------|------|---|-----|------|--------|-------|-------|---------|--------|--------|----|-----|------|--------|-------|-------|---------|--------|--------|----|-----|------|-------|-------|-------|---------|--------|------|----|-----|------|-------|-------|-------|---------|--------|------|----|-----|------|-------|-------|-------|---------|--------|------|----|-----|------|-------|-------|-------|---------|--------|------|----|-----|------|--------|-------|-------|---------|--------|------|----|------|------|--------|-------|-------|---------|--------|------|----|------|------|--------|-------|-------|---------|--------|------|----|------|------|--------|-------|-------|---------|--------|-----|----|------|------|--------|-------|-------|---------|--------|------|----|-----|------|--------|-------|-------|---------|--------|------|----|-----|------|--------|-------|-------|---------|--------|------|----|-----|-----|--------|-------|-------|---------|--------|------|----|-----|-----|--------|-------|-------|---------|--------|------|
| direction - displacement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Borehole SN_ME_02 | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>STEP</th> <th>P</th> <th>Pcorr</th> <th>Vol</th> <th>ϵ_c</th> <th>1/V</th> <th>diameter</th> <th>Dil. Diam</th> <th>Modulo</th> </tr> <tr> <th>bar</th> <th>Kpa</th> <th>cmc</th> <th>%</th> <th>1000/cmc</th> <th>(mm)</th> <th>(mm)</th> <th>MPa</th> </tr> </thead> <tbody> <tr><td>0</td><td>0,0</td><td>0</td><td>0,0</td><td>-8,667</td><td>0,000</td><td>100,865</td><td>0,000</td><td>0,0</td></tr> <tr><td>1</td><td>1,0</td><td>783</td><td>-1,6</td><td>-8,686</td><td>-620,409</td><td>100,843</td><td>-0,021</td><td>-4608,1</td></tr> <tr><td>2</td><td>2,0</td><td>840</td><td>311,8</td><td>-4,989</td><td>3,207</td><td>104,926</td><td>4,062</td><td>1,8</td></tr> <tr><td>3</td><td>3,0</td><td>919</td><td>455,2</td><td>-3,344</td><td>2,197</td><td>106,743</td><td>5,878</td><td>5,8</td></tr> <tr><td>4</td><td>4,0</td><td>1003</td><td>568,6</td><td>-2,063</td><td>1,759</td><td>108,157</td><td>7,293</td><td>7,9</td></tr> <tr><td>5</td><td>5,0</td><td>1088</td><td>666,9</td><td>-0,965</td><td>1,499</td><td>109,370</td><td>8,505</td><td>9,5</td></tr> <tr><td>6</td><td>6,0</td><td>1174</td><td>754,3</td><td>0,000</td><td>1,326</td><td>110,436</td><td>9,571</td><td>11,2</td></tr> <tr><td>7</td><td>8,0</td><td>1355</td><td>867,1</td><td>1,232</td><td>1,153</td><td>111,796</td><td>10,932</td><td>18,5</td></tr> <tr><td>8</td><td>10,0</td><td>1532</td><td>1013,9</td><td>2,813</td><td>0,986</td><td>113,542</td><td>12,678</td><td>14,2</td></tr> <tr><td>9</td><td>9,0</td><td>1434</td><td>1013,5</td><td>2,809</td><td>0,987</td><td>113,538</td><td>12,673</td><td>3030,0</td></tr> <tr><td>10</td><td>8,0</td><td>1335</td><td>1019,1</td><td>2,869</td><td>0,981</td><td>113,604</td><td>12,740</td><td>-211,4</td></tr> <tr><td>11</td><td>7,0</td><td>1240</td><td>999,7</td><td>2,662</td><td>1,000</td><td>113,375</td><td>12,511</td><td>59,1</td></tr> <tr><td>12</td><td>6,0</td><td>1148</td><td>956,3</td><td>2,196</td><td>1,046</td><td>112,861</td><td>11,996</td><td>25,4</td></tr> <tr><td>13</td><td>7,0</td><td>1244</td><td>972,7</td><td>2,372</td><td>1,028</td><td>113,055</td><td>12,191</td><td>69,5</td></tr> <tr><td>14</td><td>8,0</td><td>1339</td><td>991,1</td><td>2,569</td><td>1,009</td><td>113,273</td><td>12,409</td><td>62,0</td></tr> <tr><td>15</td><td>9,0</td><td>1433</td><td>1021,5</td><td>2,895</td><td>0,979</td><td>113,632</td><td>12,768</td><td>37,1</td></tr> <tr><td>16</td><td>10,0</td><td>1525</td><td>1063,9</td><td>3,346</td><td>0,940</td><td>114,131</td><td>13,267</td><td>26,4</td></tr> <tr><td>17</td><td>11,0</td><td>1615</td><td>1129,3</td><td>4,040</td><td>0,886</td><td>114,897</td><td>14,032</td><td>16,7</td></tr> <tr><td>18</td><td>12,0</td><td>1693</td><td>1282,7</td><td>5,648</td><td>0,780</td><td>116,673</td><td>15,808</td><td>6,4</td></tr> <tr><td>19</td><td>10,0</td><td>1500</td><td>1256,9</td><td>5,379</td><td>0,796</td><td>116,376</td><td>15,511</td><td>94,5</td></tr> <tr><td>20</td><td>8,0</td><td>1308</td><td>1229,1</td><td>5,089</td><td>0,814</td><td>116,056</td><td>15,191</td><td>87,1</td></tr> <tr><td>21</td><td>6,0</td><td>1118</td><td>1182,3</td><td>4,599</td><td>0,846</td><td>115,514</td><td>14,649</td><td>50,7</td></tr> <tr><td>22</td><td>4,0</td><td>927</td><td>1145,6</td><td>4,211</td><td>0,873</td><td>115,087</td><td>14,222</td><td>64,4</td></tr> <tr><td>23</td><td>2,0</td><td>739</td><td>1086,8</td><td>3,590</td><td>0,920</td><td>114,400</td><td>13,535</td><td>39,3</td></tr> </tbody> </table> | | | | | | | | | | STEP | P | Pcorr | Vol | ϵ_c | 1/V | diameter | Dil. Diam | Modulo | bar | Kpa | cmc | % | 1000/cmc | (mm) | (mm) | MPa | 0 | 0,0 | 0 | 0,0 | -8,667 | 0,000 | 100,865 | 0,000 | 0,0 | 1 | 1,0 | 783 | -1,6 | -8,686 | -620,409 | 100,843 | -0,021 | -4608,1 | 2 | 2,0 | 840 | 311,8 | -4,989 | 3,207 | 104,926 | 4,062 | 1,8 | 3 | 3,0 | 919 | 455,2 | -3,344 | 2,197 | 106,743 | 5,878 | 5,8 | 4 | 4,0 | 1003 | 568,6 | -2,063 | 1,759 | 108,157 | 7,293 | 7,9 | 5 | 5,0 | 1088 | 666,9 | -0,965 | 1,499 | 109,370 | 8,505 | 9,5 | 6 | 6,0 | 1174 | 754,3 | 0,000 | 1,326 | 110,436 | 9,571 | 11,2 | 7 | 8,0 | 1355 | 867,1 | 1,232 | 1,153 | 111,796 | 10,932 | 18,5 | 8 | 10,0 | 1532 | 1013,9 | 2,813 | 0,986 | 113,542 | 12,678 | 14,2 | 9 | 9,0 | 1434 | 1013,5 | 2,809 | 0,987 | 113,538 | 12,673 | 3030,0 | 10 | 8,0 | 1335 | 1019,1 | 2,869 | 0,981 | 113,604 | 12,740 | -211,4 | 11 | 7,0 | 1240 | 999,7 | 2,662 | 1,000 | 113,375 | 12,511 | 59,1 | 12 | 6,0 | 1148 | 956,3 | 2,196 | 1,046 | 112,861 | 11,996 | 25,4 | 13 | 7,0 | 1244 | 972,7 | 2,372 | 1,028 | 113,055 | 12,191 | 69,5 | 14 | 8,0 | 1339 | 991,1 | 2,569 | 1,009 | 113,273 | 12,409 | 62,0 | 15 | 9,0 | 1433 | 1021,5 | 2,895 | 0,979 | 113,632 | 12,768 | 37,1 | 16 | 10,0 | 1525 | 1063,9 | 3,346 | 0,940 | 114,131 | 13,267 | 26,4 | 17 | 11,0 | 1615 | 1129,3 | 4,040 | 0,886 | 114,897 | 14,032 | 16,7 | 18 | 12,0 | 1693 | 1282,7 | 5,648 | 0,780 | 116,673 | 15,808 | 6,4 | 19 | 10,0 | 1500 | 1256,9 | 5,379 | 0,796 | 116,376 | 15,511 | 94,5 | 20 | 8,0 | 1308 | 1229,1 | 5,089 | 0,814 | 116,056 | 15,191 | 87,1 | 21 | 6,0 | 1118 | 1182,3 | 4,599 | 0,846 | 115,514 | 14,649 | 50,7 | 22 | 4,0 | 927 | 1145,6 | 4,211 | 0,873 | 115,087 | 14,222 | 64,4 | 23 | 2,0 | 739 | 1086,8 | 3,590 | 0,920 | 114,400 | 13,535 | 39,3 |
| STEP | P | Pcorr | Vol | ϵ_c | 1/V | diameter | Dil. Diam | Modulo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| bar | Kpa | cmc | % | 1000/cmc | (mm) | (mm) | MPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0,0 | 0 | 0,0 | -8,667 | 0,000 | 100,865 | 0,000 | 0,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1,0 | 783 | -1,6 | -8,686 | -620,409 | 100,843 | -0,021 | -4608,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2,0 | 840 | 311,8 | -4,989 | 3,207 | 104,926 | 4,062 | 1,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3,0 | 919 | 455,2 | -3,344 | 2,197 | 106,743 | 5,878 | 5,8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4,0 | 1003 | 568,6 | -2,063 | 1,759 | 108,157 | 7,293 | 7,9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5,0 | 1088 | 666,9 | -0,965 | 1,499 | 109,370 | 8,505 | 9,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6,0 | 1174 | 754,3 | 0,000 | 1,326 | 110,436 | 9,571 | 11,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8,0 | 1355 | 867,1 | 1,232 | 1,153 | 111,796 | 10,932 | 18,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 10,0 | 1532 | 1013,9 | 2,813 | 0,986 | 113,542 | 12,678 | 14,2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 9,0 | 1434 | 1013,5 | 2,809 | 0,987 | 113,538 | 12,673 | 3030,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 8,0 | 1335 | 1019,1 | 2,869 | 0,981 | 113,604 | 12,740 | -211,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 7,0 | 1240 | 999,7 | 2,662 | 1,000 | 113,375 | 12,511 | 59,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 6,0 | 1148 | 956,3 | 2,196 | 1,046 | 112,861 | 11,996 | 25,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 7,0 | 1244 | 972,7 | 2,372 | 1,028 | 113,055 | 12,191 | 69,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 8,0 | 1339 | 991,1 | 2,569 | 1,009 | 113,273 | 12,409 | 62,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 9,0 | 1433 | 1021,5 | 2,895 | 0,979 | 113,632 | 12,768 | 37,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 10,0 | 1525 | 1063,9 | 3,346 | 0,940 | 114,131 | 13,267 | 26,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 11,0 | 1615 | 1129,3 | 4,040 | 0,886 | 114,897 | 14,032 | 16,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 12,0 | 1693 | 1282,7 | 5,648 | 0,780 | 116,673 | 15,808 | 6,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 10,0 | 1500 | 1256,9 | 5,379 | 0,796 | 116,376 | 15,511 | 94,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 8,0 | 1308 | 1229,1 | 5,089 | 0,814 | 116,056 | 15,191 | 87,1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 6,0 | 1118 | 1182,3 | 4,599 | 0,846 | 115,514 | 14,649 | 50,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 4,0 | 927 | 1145,6 | 4,211 | 0,873 | 115,087 | 14,222 | 64,4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 2,0 | 739 | 1086,8 | 3,590 | 0,920 | 114,400 | 13,535 | 39,3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| test 2 depth m 68,50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| slope (degree) 90 core barrell SEMPLICE 101 MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device: CSM Type GEODV01 95 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orientation capteur Standard method: ISRM 1987 | | Probe diam 95 MM Borehole diam 101 MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meteo Temperatu re | | lithotype ARGILLA MARNOSA GRIGIA | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Temps min</th> <th>PBAR</th> <th>MM</th> </tr> </thead> <tbody> <tr><td>0</td><td></td><td></td></tr> <tr><td>1</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> </tbody> </table> | | | | | | | | | | Temps min | PBAR | MM | 0 | | | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temps min | PBAR | MM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| water table 40,0 POCKET PENETRO METER | | Creep test P (Bars) = | | <p style="font-size: small;">i valori diametrali sono calcolati come valore medio della sonda cilindrica in espansione</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="9" style="text-align: left;">FIELD LIMITS</th> </tr> <tr> <th></th> <th>P</th> <th>P corr</th> <th>V corr</th> <th>creep</th> <th>1000/V</th> <th>diameter</th> <th>Dil. Diam</th> <th>loop</th> </tr> </thead> <tbody> <tr> <td>min</td> <td>6,0</td> <td>1174,1</td> <td>754,3</td> <td>0,0</td> <td>1,3</td> <td>110,4</td> <td>9,6</td> <td>primo</td> </tr> <tr> <td>max</td> <td>11,0</td> <td>1614,8</td> <td>1129,3</td> <td>4,0</td> <td>0,9</td> <td>114,9</td> <td>14,0</td> <td>carico</td> </tr> <tr> <td>max</td> <td>10,0</td> <td>1531,9</td> <td>1013,9</td> <td>2,8</td> <td>1,0</td> <td>113,5</td> <td>12,7</td> <td>I</td> </tr> <tr> <td>min</td> <td>6,0</td> <td>1147,8</td> <td>956,3</td> <td>2,2</td> <td>1,0</td> <td>112,9</td> <td>12,0</td> <td></td> </tr> <tr> <td>max</td> <td>12,0</td> <td>1692,7</td> <td>1282,7</td> <td>5,6</td> <td>0,8</td> <td>116,7</td> <td>15,8</td> <td>II</td> </tr> <tr> <td>min</td> <td>2,0</td> <td>739,3</td> <td>1086,8</td> <td>3,6</td> <td>0,9</td> <td>114,4</td> <td>13,5</td> <td></td> </tr> <tr> <td>max</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>min</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | FIELD LIMITS | | | | | | | | | | P | P corr | V corr | creep | 1000/V | diameter | Dil. Diam | loop | min | 6,0 | 1174,1 | 754,3 | 0,0 | 1,3 | 110,4 | 9,6 | primo | max | 11,0 | 1614,8 | 1129,3 | 4,0 | 0,9 | 114,9 | 14,0 | carico | max | 10,0 | 1531,9 | 1013,9 | 2,8 | 1,0 | 113,5 | 12,7 | I | min | 6,0 | 1147,8 | 956,3 | 2,2 | 1,0 | 112,9 | 12,0 | | max | 12,0 | 1692,7 | 1282,7 | 5,6 | 0,8 | 116,7 | 15,8 | II | min | 2,0 | 739,3 | 1086,8 | 3,6 | 0,9 | 114,4 | 13,5 | | max | | | | | | | | | min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FIELD LIMITS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | P corr | V corr | creep | 1000/V | diameter | Dil. Diam | loop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1174,1 | 754,3 | 0,0 | 1,3 | 110,4 | 9,6 | primo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 11,0 | 1614,8 | 1129,3 | 4,0 | 0,9 | 114,9 | 14,0 | carico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 10,0 | 1531,9 | 1013,9 | 2,8 | 1,0 | 113,5 | 12,7 | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 6,0 | 1147,8 | 956,3 | 2,2 | 1,0 | 112,9 | 12,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | 12,0 | 1692,7 | 1282,7 | 5,6 | 0,8 | 116,7 | 15,8 | II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | 2,0 | 739,3 | 1086,8 | 3,6 | 0,9 | 114,4 | 13,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROBE SCHEME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROBE CALIBRATION | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>probe</th> <th>GEODV01 CSM TYPE</th> </tr> <tr> <th>membrane</th> <th>CAUCCI' ARMATO</th> </tr> <tr> <th>measure cell height (cm)</th> <td></td> </tr> <tr> <th>V0 cell volume at rest (cmc)</th> <td>3795</td> </tr> <tr> <th>length cable (mt)</th> <td>100</td> </tr> <tr> <th>Volume initial Vi (cmc)</th> <td>476</td> </tr> <tr> <th>diam calibration tube (cm)</th> <td>10,7</td> </tr> <tr> <th>tube calibration volume cmc</th> <td>4271</td> </tr> <tr> <th colspan="2">Calibration in air</th> </tr> <tr> <th>coeff m</th> <td>0,13 Kpa/cmc</td> </tr> <tr> <th colspan="2">Confined calibration</th> </tr> <tr> <th>first load</th> <td>22,38 cmc/Mpa</td> </tr> <tr> <th>unload</th> <td>16,12 cmc/Mpa</td> </tr> </thead> </table> | | | | | | | | | | probe | GEODV01 CSM TYPE | membrane | CAUCCI' ARMATO | measure cell height (cm) | | V0 cell volume at rest (cmc) | 3795 | length cable (mt) | 100 | Volume initial Vi (cmc) | 476 | diam calibration tube (cm) | 10,7 | tube calibration volume cmc | 4271 | Calibration in air | | coeff m | 0,13 Kpa/cmc | Confined calibration | | first load | 22,38 cmc/Mpa | unload | 16,12 cmc/Mpa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| probe | GEODV01 CSM TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| membrane | CAUCCI' ARMATO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| measure cell height (cm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V0 cell volume at rest (cmc) | 3795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| length cable (mt) | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume initial Vi (cmc) | 476 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| diam calibration tube (cm) | 10,7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tube calibration volume cmc | 4271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calibration in air | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| coeff m | 0,13 Kpa/cmc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Confined calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| first load | 22,38 cmc/Mpa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| unload | 16,12 cmc/Mpa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|-----------------------------------|--|----------------------|--------------------------|---------------|------------------------------|------------|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | DILATOMETRIC ROCK TEST DRT | | | mod DVT REV 2 MARZO 2018 | | | |
| | borehole | SN_ME_02 | probe depth m | 68,5 | code | 2 | |
| | Client: | CONSORZIO HIRPINIA | | job | 1925-28 | v. accept. 1925-28SIT | |
| | Project | RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | | report | 1925-28S DRT | |
| | site | MELITO IRPINO | coordinates | EAST | date | 19.11.19 | pag |

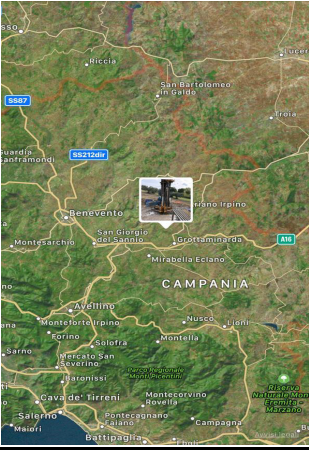



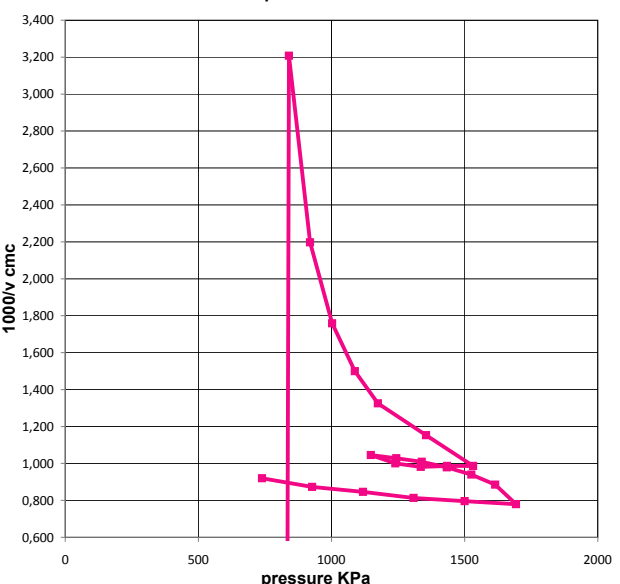
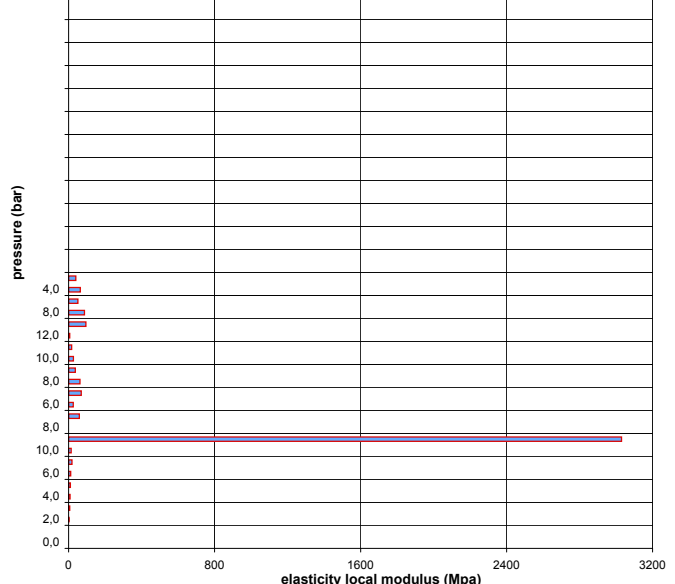
DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987



| DATA PROCESSING | | SENSOR 1 | | SENSOR 2 | | SENSOR 3 | | SENSOR AVE | | | |
|--|--------------|--------------------------------------|--------|----------|-----------|---|-------------------------------|------------|--------------------------------------|--|--------------|
| Legend: H = test depth W = water table depth ν = Poisson ratio vo = cell initial volume do = cell initial diameter Φ = borehole wall diameter Po = start pressure Pmax = max loop pressure (MPa) Pmin = min loop pressure (MPa) d max displacement at P max d min displacement at P min σv vertical total stress estimated ε c = dR / Ro | | ELASTICITY MODULUS Ei | | | | | | | | | |
| | | loop | Pmax | Pmin | E1 (Mpa) | E2 (Mpa) | E3 (Mpa) | Eav (Mpa) | | | |
| symbol | datum | 1 | 10,00 | 6,00 | | | | 78 | | | |
| γsoil | 2,4 | 2 | 12,00 | 2,00 | | | | 58 | | | |
| W (ml) | 68,5 | 3 | 0,00 | 0,00 | | | | | | | |
| ν | 0,25 | 4 | | | | | | | | | |
| vo (cmc) | 3795 | 5 | | | | | | | | | |
| do (mm) | 100,86 | DEFORMATION MODULUS Ti | | | | | | | | | |
| σv (kPa) | 1644 | loop | Pmax | Pmin | T1 (Mpa) | T2 (Mpa) | T3 (Mpa) | Tm (Mpa) | | | |
| | | 1 | 10,00 | 6,00 | | | | 16 | | | |
| | | 2 | 12,00 | 10,00 | | | | 7 | | | |
| | | 3 | | | | | | | | | |
| | | 4 | | | | | | | | | |
| | | 5 | | | | | | | | | |
| ELASTICITY MODULUS Ei $Ei = (1 + \nu) \Phi P_{max} - P_{min}$ $d_{max} - d_{min}$ | | GLOBAL DEFORMATION MODULUS EG | | | | | | | | | |
| | | | Pmax | Pmin | EG1 (Mpa) | EG2 (Mpa) | EG3 (Mpa) | EGm (Mpa) | | | |
| | | | 11,00 | 6,00 | | | | 14 | | | |
| DEFORMATION MODULUS Ti $Ti = (1 + \nu) \Phi Pi - Pi-1$ $Xi - Xi-1$ | | DIAMETER | | | | | | | | | |
| | | beginning diameter (mm) | | | | | | 110,436 | | | |
| | | final diameter (mm) | | | | | | 116,673 | | | |
| | | range mm | | | | | | 6,237 | | | |
| GLOBAL DEFORMATION MODULUS EG $EG = (1 + \nu) \Phi P_{max} - Po$ $d_{max} - do$ | | DM loop minimum displacement | | | | DILATOMETRIC AND GEOTECHNICAL ESTIMATED PARAMETERS | | | | | |
| | | Pbar | C1 | C2 | C3 | Cm | Po initial pressure (KPa) | 1174 | EGm (Mpa) | | 14 |
| | | bar | 0 | 120 | 240 | 0 | Pf creep pressure (KPa) | 1615 | E3 (MPa) | | 58 |
| | | 10,0 | 10,997 | 10,997 | 10,997 | 12,678 | PL limit pres. (KPa) Cassan > | 1940 | E/P'L | | 17,29 |
| | | | | | | | PL' net limit pres (KPa) > | 789 | EG/Ey | | 0,24 |
| note: | | | | | | Ko lateral coeff at rest (KPa) | | 0,70 | cu coesion (KPa) johnson > | | 219 |
| | | | | | | Pho lateral pressure (KPa) | | 1151 | φ friction angle (°) > | | |

| | | | | | | | |
|---|-----------------------------------|--|---------------|--------------------------|-----------|------------|------------|
| A.T.I. tra SONDEDILE SRL - Teramo (mandataria) GEOSERVING SRL - San Vittore del Lazio (mandante) GEOTEC SPA - Campobasso (mandante) TRIVELSONDAGGI SRL - Crispano (mandante) | DILATOMETRIC ROCK TEST DRT | | | mod DVT REV 2 MARZO 2018 | | | |
| | borehole | SN_ME_02 | probe depth m | 68,5 | code | 2 | |
| | Client: | CONSORZIO HIRPINIA | | job | 1925-28 | v. accept. | 1925-28SIT |
| | Project | RADDOPPIO FERR.RIO NA-BA - TRATTA APICE - HIRPINIA | | report | 1925-28SI | DRT | |
| | site | MELITO IRPINO | coordinates | | EAST | date | 19.11.19 |
| | | | | NORTH | pag | 3/3 | |

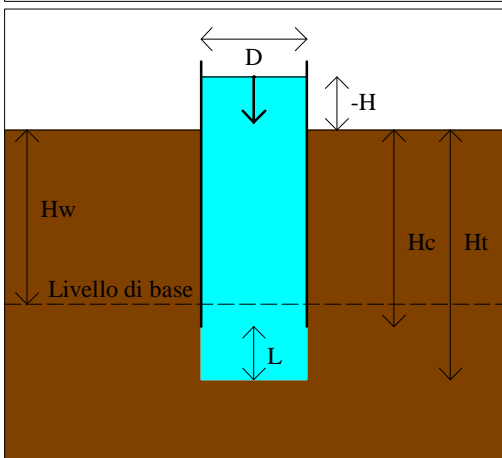
DILATOMETRIC ROCK TEST WITH VOLUME CHANGE MEASUREMENTS - ISRM 1987

| | |
|---|--|
| <p style="text-align: center;">PLACE</p> <div style="display: flex; justify-content: space-around;">   </div>  | <p style="text-align: center;">SECTION</p>  |
| <p style="text-align: center;">pressure - 1/V</p>  | <p style="text-align: center;">elasticity local modulus - pressure</p>  |

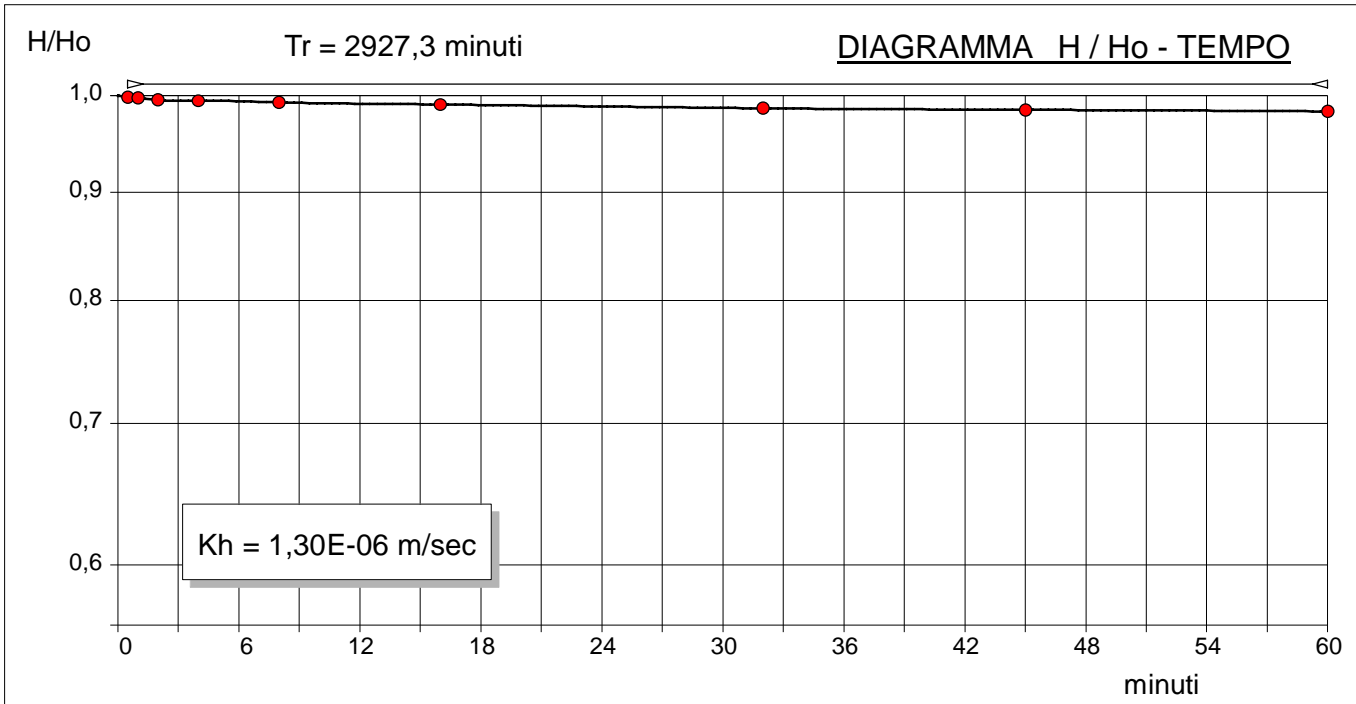
PROVA LEFRANC A CARICO VARIABILE

| | |
|--|-----------------|
| Committente: CONSORZIO HIRPINIA AV | |
| Riferimento: 1° Lotto funzionale Apice - Irpinia | Prova: 1 |
| Località: | Data: 4/11/2019 |
| Sondaggio: SN_ME_02 | Orario prova: |

| | |
|--------------------------------------|-------|
| Prova eseguita in abbassamento | |
| Livello di base dell'acqua [Hw] (m) | 6,02 |
| Livello dell'acqua dal p.c. [H] (m) | -0,15 |
| Diametro del tratto di prova [D] (m) | 0,101 |
| Profondità del rivestimento [Hc] (m) | 7,50 |
| Profondità del foro [Ht] (m) | 8,50 |
| Spessore del tratto di prova [L] (m) | 1,00 |
| Coefficiente di forma | 2,10 |



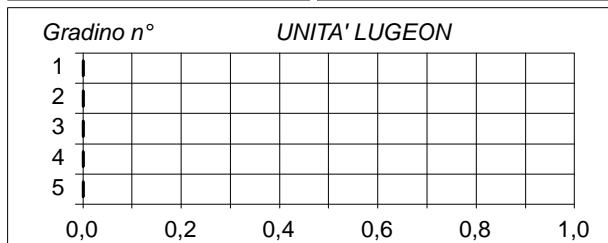
| T min | H m | dH m | H/Ho | T min | H m | dH m | H/Ho |
|----------|--------|---------|--------|----------|--------|---------|------|
| 0,00 | 6,17 | 0,00 | | | | | |
| 0,50 | 6,16 | 0,01 | 0,9984 | | | | |
| 1,00 | 6,16 | 0,02 | 0,9976 | | | | |
| 2,00 | 6,14 | 0,03 | 0,9951 | | | | |
| 4,00 | 6,14 | 0,04 | 0,9943 | | | | |
| 8,00 | 6,13 | 0,05 | 0,9927 | | | | |
| 16,00 | 6,11 | 0,06 | 0,9903 | | | | |
| 32,00 | 6,09 | 0,09 | 0,9862 | | | | |
| 45,00 | 6,08 | 0,10 | 0,9846 | | | | |
| 60,00 | 6,07 | 0,11 | 0,9830 | | | | |



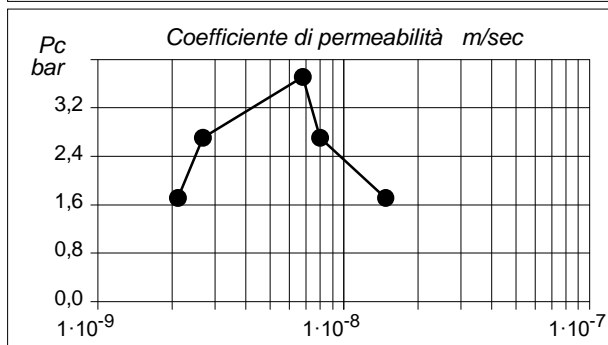
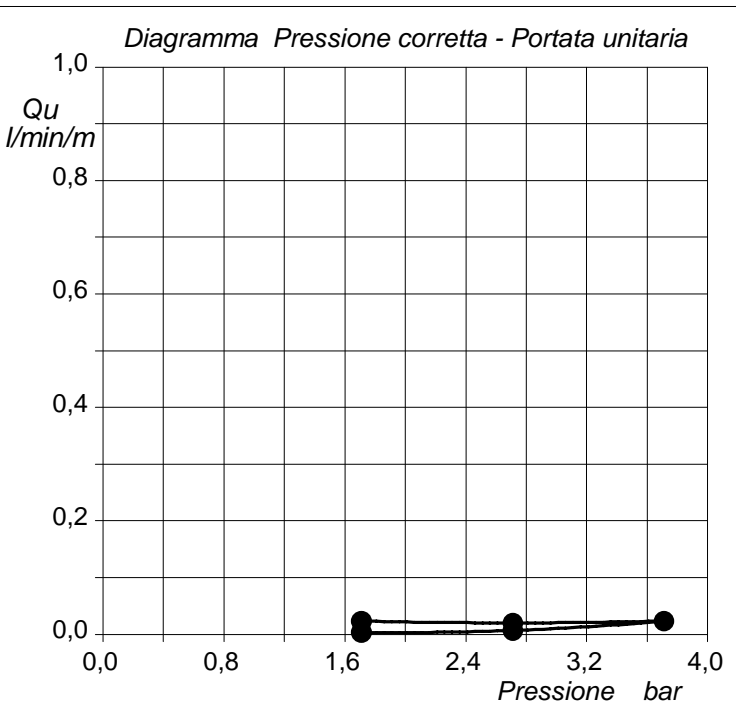
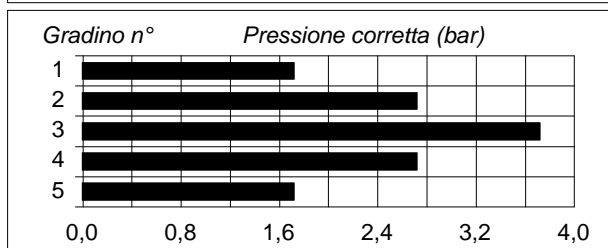
| | |
|---|-------------------------|
| Committente: CONSORZIO HIRPINIA AV | |
| Riferimento: 1° Lotto funzionale Apice - Irpinia | Prova: 1 |
| Località: | Data: 13/11/2019 |
| Sondaggio: SN_ME_02 | Orario prova: |

| <i>Caratteristiche generali</i> | | <i>Assorbimento (litri)</i> | | | | | |
|---|-------------|-----------------------------|-------|-------|-------|-------|-------|
| | | min | bar | 1,00 | 2,00 | 3,00 | 2,00 |
| Sezione di misura: profondità da m | 56,00 | 0 | 200,7 | 202,5 | 203,4 | 204,1 | 204,3 |
| Sezione di misura: profondità a m | 59,00 | 2 | 200,7 | 202,5 | 203,6 | 204,2 | 204,3 |
| Diametro del foro (mm): | 101 | 4 | 201,1 | 202,6 | 204,0 | 204,2 | 204,3 |
| Altezza immissione acqua dal p.c. (m): | 1,00 | 6 | 201,4 | 202,8 | 204,1 | 204,2 | 204,3 |
| Profondità della falda dal p.c. (m): | 6,10 | 8 | 201,4 | 203,0 | 204,1 | 204,3 | 204,4 |
| Inclinazione del sondaggio (°): | 0,0 | 10 | 201,4 | 203,1 | 204,1 | 204,3 | 204,4 |
| Packer tipo: | | 12 | | | | | |
| Coefficiente di forma: | 4,61 | 14 | | | | | |
| UNITA' LUGEON (valore rappresentativo): | - | 16 | | | | | |
| Regime di Flusso: | Dilatazione | 18 | | | | | |
| | | 20 | | | | | |

| <i>Legenda</i> | Pressione (bar): | 1,00 | 2,00 | 3,00 | 2,00 | 1,00 |
|----------------|--|--------|--------|--------|--------|--------|
| Gradino n° 1 ● | Pressione corretta (bar): | 1,71 | 2,71 | 3,71 | 2,71 | 1,71 |
| Gradino n° 2 ● | Assorbimento (litri): | 0,7 | 0,6 | 0,7 | 0,2 | 0,1 |
| Gradino n° 3 ● | Portata (litri/minuto): | 0,07 | 0,06 | 0,07 | 0,02 | 0,01 |
| Gradino n° 4 ● | Portata unitaria (litri/minuto/metro): | 0,023 | 0,020 | 0,023 | 0,007 | 0,003 |
| Gradino n° 5 ● | UNITA' LUGEON | 0,14 | 0,07 | 0,06 | 0,02 | 0,02 |
| | Coefficiente di permeabilità (m/sec): | 1,5E-8 | 8,0E-9 | 6,8E-9 | 2,7E-9 | 2,1E-9 |



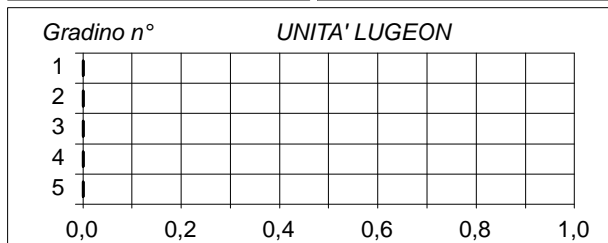
In blu il ciclo di carico.
In verde il ciclo di scarico.



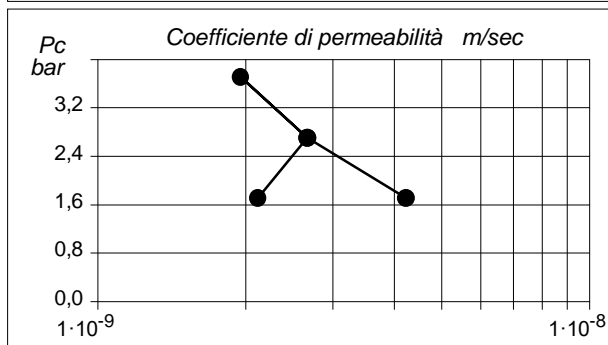
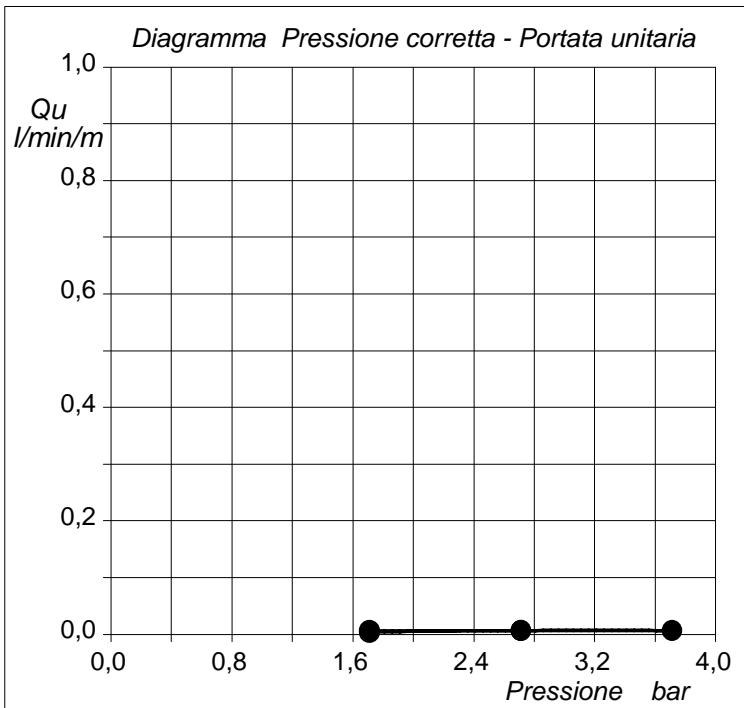
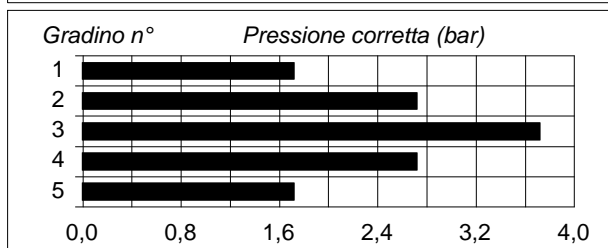
| | |
|---|-------------------------|
| Committente: CONSORZIO HIRPINIA AV | |
| Riferimento: 1° Lotto funzionale Apice - Irpinia | Prova: 2 |
| Località: | Data: 19/11/2019 |
| Sondaggio: SN_ME_02 | Orario prova: |

| <i>Caratteristiche generali</i> | | <i>Assorbimento (litri)</i> | | | | | |
|---|-------------|-----------------------------|-------|-------|-------|-------|-------|
| | | min | bar | 1,00 | 2,00 | 3,00 | 2,00 |
| Sezione di misura: profondità da m | 67,00 | 0 | 220,4 | 220,6 | 220,9 | 220,9 | 221,1 |
| Sezione di misura: profondità a m | 70,00 | 2 | 220,4 | 220,7 | 221,0 | 220,9 | 221,1 |
| Diametro del foro (mm): | 101 | 4 | 220,5 | 220,7 | 221,0 | 220,9 | 221,1 |
| Altezza immissione acqua dal p.c. (m): | 1,00 | 6 | 220,5 | 220,8 | 221,0 | 220,9 | 221,1 |
| Profondità della falda dal p.c. (m): | 6,10 | 8 | 220,5 | 220,8 | 221,0 | 221,0 | 221,1 |
| Inclinazione del sondaggio (°): | 0,0 | 10 | 220,6 | 220,8 | 221,1 | 221,1 | 221,2 |
| Packer tipo: | | 12 | | | | | |
| Coefficiente di forma: | 4,61 | 14 | | | | | |
| UNITA' LUGEON (valore rappresentativo): | - | 16 | | | | | |
| Regime di Flusso: | Dilatazione | 18 | | | | | |
| | | 20 | | | | | |

| <i>Legenda</i> | Pressione (bar): | 1,00 | 2,00 | 3,00 | 2,00 | 1,00 |
|----------------|--|--------|--------|--------|--------|--------|
| Gradino n° 1 ● | Pressione corretta (bar): | 1,71 | 2,71 | 3,71 | 2,71 | 1,71 |
| Gradino n° 2 ● | Assorbimento (litri): | 0,2 | 0,2 | 0,2 | 0,2 | 0,1 |
| Gradino n° 3 ● | Portata (litri/minuto): | 0,02 | 0,02 | 0,02 | 0,02 | 0,01 |
| Gradino n° 4 ● | Portata unitaria (litri/minuto/metro): | 0,007 | 0,007 | 0,007 | 0,007 | 0,003 |
| Gradino n° 5 ● | UNITA' LUGEON | 0,04 | 0,02 | 0,02 | 0,02 | 0,02 |
| | Coefficiente di permeabilità (m/sec): | 4,2E-9 | 2,7E-9 | 1,9E-9 | 2,7E-9 | 2,1E-9 |



In blu il ciclo di carico.
In verde il ciclo di scarico.



SONDAGGIO SN ME 02

Cantiere: Melito Irpino (AV)
 Operatore: Annibale Roberto
 Modalità: Libera

Data: 20/11/2019
 Tipo Sonda: InclisDH
 Passo: 1 m

Prof: 69m



| Prof. | Inclin. | Azimuth |
|-------|---------|---------|
| 1 | 1 | 207,6 |
| 2 | 0,7 | 195,8 |
| 3 | 0,9 | 201,5 |
| 4 | 0,8 | 0,1 |
| 5 | 1,3 | 14,2 |
| 6 | 1,3 | 15,3 |
| 7 | 1,3 | 39,7 |
| 8 | 1,4 | 162,9 |
| 9 | 1,4 | 223,8 |
| 10 | 1,2 | 185,2 |
| 11 | 1,1 | 139,4 |
| 12 | 1,1 | 316,6 |
| 13 | 1,3 | 275,6 |
| 14 | 0,8 | 242,1 |
| 15 | 1,1 | 98,7 |
| 16 | 0,8 | 228,4 |
| 17 | 0,9 | 13,4 |
| 18 | 1,3 | 349,5 |
| 19 | 1,6 | 79,5 |
| 20 | 0,9 | 102,6 |
| 21 | 1,4 | 218,3 |
| 22 | 1,3 | 67,1 |
| 23 | 1,3 | 72,8 |
| 24 | 1 | 164,7 |
| 25 | 1,5 | 175,5 |
| 26 | 0,9 | 189,7 |
| 27 | 0,9 | 201,4 |
| 28 | 0,7 | 168,5 |
| 29 | 0,7 | 219,1 |
| 30 | 0,6 | 160,8 |
| 31 | 0,7 | 200,4 |
| 32 | 0,7 | 243 |
| 33 | 0,6 | 246,6 |
| 34 | 0,9 | 261,2 |
| 35 | 0,5 | 308,6 |
| 36 | 0,6 | 220,6 |
| 37 | 1,2 | 291,3 |
| 38 | 1 | 269,8 |
| 39 | 1,4 | 227,8 |
| 40 | 1,3 | 118,5 |
| 41 | 1,9 | 257,5 |
| 42 | 1,3 | 46,3 |
| 43 | 1,2 | 227,3 |
| 44 | 1,1 | 228,7 |
| 45 | 1 | 221,3 |
| 46 | 0,6 | 253,2 |
| 47 | 1,1 | 250,8 |
| 48 | 0,7 | 271,4 |
| 49 | 0,8 | 296,3 |
| 50 | 0,8 | 334,3 |
| 51 | 0,6 | 336,5 |
| 52 | 0,5 | 346,1 |
| 53 | 1 | 173,4 |
| 54 | 1,4 | 178,2 |
| 55 | 0,4 | 221,6 |
| 56 | 0,4 | 255,1 |
| 57 | 0,7 | 281,7 |
| 58 | 1,2 | 330 |
| 59 | 1,2 | 328,3 |
| 60 | 1,4 | 14,1 |
| 61 | 0,8 | 4,6 |
| 62 | 0,7 | 322,2 |
| 63 | 1,5 | 312,1 |
| 64 | 1,3 | 305,7 |
| 65 | 0,9 | 321,3 |
| 66 | 0,7 | 326,3 |
| 67 | 0,9 | 332,4 |
| 68 | 1,3 | 327,5 |
| 69 | 1,3 | 327,7 |

