

DRILLING RECORD

| | | | | | | | |
|---|--|----------|-------------------------------------|------------------------|-----------------------------------|-------------|--|
| AREA: LOWER PIEMAN INVESTIGATIONS | | POSITION | CO-ORDINATES: | E: | N: | HOLE No. | |
| LOCATION: DELVILLE SADDLE | | | ON LINE: W271 W278 | BEARING: 0°00 | AT CH: | 6387 | |
| GEOLOGICAL PLAN: SURVEY PLAN: | | | AT STN: W271 | BEARING: 181°43 | DIST: 202' | FILE No. | |
| DATES (a) DRILLED: Mar - Aug 1963 (b) WATER TABLE: | | LEVEL | SURFACE | COLLAR | WATER TABLE | | |
| METHOD: Percussion & D.D. DIAMETER: 6" Nm 8m AXT | | | 282 | | | | |
| SITE REMARKS: Gently sloping area with basalt soil at peg 270 Contract No DS 101 | | INCL. | HOLE DRILLED | ANGLE FROM HORIZONTAL | DIRECTION | | |
| | | | VERT./HOR./INC. | 90° | | | |
| | | | | | SHEET 1 OF 5 SHEETS | | |

| DEPTH | CORE DRAWN | CORE LENGTH | CASING | RECOVERY | GRAPHIC LOG | JOINTS No. Per Foot. | FLUID RETURN | GROUND WATER | WATER level in hole | REMARKS |
|-------|------------|-------------|--------|---------------------------------|-------------|-------------------------|--------------|--------------|---------------------|---------|
| | | | | 2 10 20 30 40 50 | | | | | | |
| 0 | | | | | | | | | | |
| 5 | | | | | ✓ | | | | | |
| 10 | | | | | ✓ | | | | | |
| 15 | | | | | ✓ | | | | | |
| 20 | | | | | ✓ | | | | | |
| 25 | | | | | ✓ | | | | | |
| 30 | | | | | ✓ | | | | | |
| 35 | | | | | ✓ | | | | | |
| 40 | | | | | ✓ | | | | | |
| 45 | | | | | ✓ | | | | | |
| 50 | | | | | ✓ | | | | | |
| 55 | | | | | ✓ | | | | | |
| 60 | | | | | ✓ | | | | | |
| 65 | | | | | ✓ | | | | | |
| 70 | | | | | ✓ | | | | | |
| 75 | | | | | ✓ | | | | | |
| 80 | | | | | ✓ | | | | | |
| 85 | | | | | ✓ | | | | | |
| 90 | | | | | ✓ | | | | | |
| 95 | | | | | ✓ | | | | | |
| 100 | | | | | ✓ | | | | | |

N

PERCUSSION DRILL

GREY

- 33'
- 49'

0'-0" - 89'-0" Percussion drill used. Jar and chip samples taken, brown sandy clay. Driller reports soft decomposed basalt (brown) and 9" rock fragments. unable to take tube samples due to the difficulty in retaining materials in the drive tube. The weathered basalt becomes harder below 71'. Unable to drive sample tube. Fresh basalt fragments in bailer sample below 86'

Below 89'-0" Diamond Drill used

89'-0" - 145'-4" Fresh grey basalt fragments up to 6" interspersed with brown silt and clay derived from weathered basalt

89'-94' 80% fresh basalt

94'-108' 14% fresh basalt

DRILLING RECORD

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|---|----------|---------------|--------------|-----------------------|-------------------------|
| AREA: LOWER PIEMAN INVESTIGATION | POSITION | CO-ORDINATES: | E: | N: | HOLE No. 6387 |
| LOCATION: DELVILLE SADDLE | | ON LINE: | BEARING: | AT CH: | |
| GEOLOGICAL PLAN: SURVEY PLAN: | | AT STN: | BEARING: | DIST: | FILE No. |
| DATES (a) DRILLED: Mar-Aug 1963 (b) WATER TABLE: | | LEVEL | SURFACE | COLLAR | WATER TABLE |
| METHOD: Percussion & D.D. DIAMETER: 6" NM Bm AX T | | | HOLE DRILLED | ANGLE FROM HORIZONTAL | DIRECTION |
| SITE REMARKS: See sheet N^o1 | | INCL. | VERT. | 90° | |

| DEPTH | CORE DRAWN | CORE LENGTH | CASING | RECOVERY % | GRAPHIC LOG | JOINTS No. Per Foot | FLUID RETURN | GROUND WATER | WATER level in hole | REMARKS |
|-------|------------|-------------|--------|------------|-------------|---------------------|--------------|--------------|---------------------|---|
| | | | | | | | | | | |
| 100' | | | | | V | | | | | 89'-0" to 145'-4" Fresh grey basalt fragments up to 6" interspersed with brown silt and clay derived from weathered basalt. |
| 115' | | | | | V | | | | | |
| 110' | | | | | V | | | | | 108'-118' 40% Fresh basalt 118'-123' 0% Fresh basalt 123'-139' 6% Fresh basalt 139'-145'-4" 33% Fresh basalt hole completed at base of basalt |
| 115' | | | | | V | | | | | |
| 120' | | | | | V | | | | | |
| 125' | | | | | V | | | | | |
| 130' | | | | | V | | | | | 145'-4" to 156'-6" Core shows yellowish brown silt Driller reports sandy clay; washing away during drilling. |
| 135' | | | | | V | | | | | |
| 140' | | | | | V | | | | | 158'-6" to 191'-0" Core shows Greyish yellow fine sand, quartz in part. Driller reports some clay and fine gravel. |
| 145' | | | | | V | | | | | |
| 150' | | | | | V | | | | | 191'-0" - 191'-11" Fragments of white quartzite from at least one boulder 9" long |
| 155' | | | | | V | | | | | |
| 160' | | | | | V | | | | | 191'-11" to 195'-0" White and grey clay. Driller reports decomposed wood |
| 165' | | | | | V | | | | | |
| 170' | | | | | V | | | | | 195'-0" to 209'-6" Core shows greyish yellow fine sand, quartz in part. Driller reports fine gravel. Core washing away during drilling |
| 175' | | | | | V | | | | | |
| 180' | | | | | V | | | | | |
| 185' | | | | | V | | | | | |
| 190' | | | | | V | | | | | |
| 195' | | | | | V | | | | | |
| 200' | | | | | V | | | | | |

N

B

Grey Brown

brown

- 51'

- 50'

- 52'

- 54'

- 57 1/2'

DRILLING RECORD

| | | | | | |
|---|----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|
| AREA: LOWER PIEMAN INVESTIGATIONS LOCATION: Delville Saddle GEOLOGICAL PLAN: _____ SURVEY PLAN: _____ DATES (a) DRILLED: Mar 24 1963 (b) WATER TABLE: _____ METHOD: Percussion, P.D. DIAMETER: 6" NM BM AXT SITE REMARKS: See sheet No 1 | POSITION LEVEL INCL. | CO-ORDINATES: ON LINE: AT STN: | E: BEARING: BEARING: COLLAR | N: AT CH: DIST: WATER TABLE | HOLE No. 6387 FILE No. SHEET 3 OF 5 SHEETS |
| HOLE DRILLED VERT/HOR/INC. | | ANGLE FROM HORIZONTAL | | DIRECTION | |

| DEPTH | CORE DRAWN | CORE LENGTH | CASING | RECOVERY | GRAPHIC LOG | JOINTS No. Per Foot. | FLUID RETURN | GROUND WATER | WATER Level in hole | REMARKS |
|-------|------------|-------------|--------|----------|---------------------|-------------------------|--------------|--------------|---------------------|---|
| 200' | | | | | <i>Brown</i> | | | | | |
| 205' | | | | | [Dotted pattern] | | | | | |
| 210' | | | | | [Horizontal dashes] | | | - 58 1/2' | | 209'-6" to 280'-0" White and brownish clay, Mudstone in part. Driller reports Sandy Clay in part. Core washing away during drilling, trouble with silt in the hole. |
| 215' | | | | | [Horizontal dashes] | | | - 59' | | |
| 220' | | | | | [Horizontal dashes] | | | | | |
| 225' | | | | | [Horizontal dashes] | | | | | |
| 230' | | | | | [Horizontal dashes] | | | - 60' | | |
| 235' | | | | | [Horizontal dashes] | | | | | |
| 240' | | | | | [Horizontal dashes] | | | | | |
| 245' | | | | | [Horizontal dashes] | | | | | |
| 250' | | | | | [Horizontal dashes] | | | | | |
| 255' | | | | | [Horizontal dashes] | | | | | |
| 260' | | | | | [Horizontal dashes] | | | | | |
| 265' | | | | | [Horizontal dashes] | | | | | |
| 270' | | | | | [Horizontal dashes] | | | | | |
| 275' | | | | | [Horizontal dashes] | | | | | |
| 280' | | | | | [Horizontal dashes] | | | | | |
| 285' | | | | | [Dotted pattern] | | | | | |
| 290' | | | | | [Dotted pattern] | | | | | |
| 295' | | | | | [Dotted pattern] | | | | | |
| 300' | | | | | [Dotted pattern] | | | | | |
| 305' | | | | | [Dotted pattern] | | | | | |
| 310' | | | | | [Dotted pattern] | | | | | |
| 315' | | | | | [Dotted pattern] | | | | | |
| 320' | | | | | [Dotted pattern] | | | | | |
| 325' | | | | | [Dotted pattern] | | | | | |
| 330' | | | | | [Dotted pattern] | | | | | |
| 335' | | | | | [Dotted pattern] | | | | | |
| 340' | | | | | [Dotted pattern] | | | | | |
| 345' | | | | | [Dotted pattern] | | | | | |
| 350' | | | | | [Dotted pattern] | | | | | |
| 355' | | | | | [Dotted pattern] | | | | | |
| 360' | | | | | [Dotted pattern] | | | | | |

