

1115

#19 30-039-06961E

#58 30-039-06958

#139 30-039-20464

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 20 Twp 27 Rng 5Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #19, #58, #139

cps 1746w

Elevation 6599' Completion Date 10/30/84 Total Depth 300' Land Type\* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used

N/A

Depths &amp; thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 40' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 3600 lbs.Depths anodes placed: 260', 250', 240', 185', 175', 165', 140', 130', 120', 70'Depths vent pipes placed: 297'Vent pipe perforations: 260'Remarks: gb #1**RECEIVED**

MAY 31 1991

OIL CON. DIV

DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

**WELL CASING**  
**CATHODIC PROTECTION CONSTRUCTION REPORT**  
**DAILY LOG**

Drilling Log (Attach Hereto) ☐Completion Date: 10/30/84

|                          |                           |                    |                        |                                                                       |
|--------------------------|---------------------------|--------------------|------------------------|-----------------------------------------------------------------------|
| CPS #                    | Well Name, Line or Plant: | Work Order #       | Static:                | Ins. Union Check                                                      |
| 1746-W                   | S.J. 27-5 # 19            | 53201-19-50-20     | .74 W                  | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |
|                          | S.J. 27-5 # 58            | 54073-19-50-20     | .67 W                  |                                                                       |
|                          | S.J. 27-5 # 139           | 54975-19-50-20     | .69 W                  |                                                                       |
| Location:                | Anode Size:               | Anode Type:        | Size Bit:              |                                                                       |
| SW 20-27-5               | 2" X 60"                  | DURATION           | 6 3/4"                 |                                                                       |
| Depth Drilled:           | Depth Logged:             | Drilling Rig Time: | Total Lbs. Coke Used:  | Lost Circulation Mat'l Used:                                          |
| 300'                     | 297'                      |                    | 5644 lbs.<br>3600-18   |                                                                       |
| Anode Depth:             |                           |                    |                        |                                                                       |
| # 1 260'                 | # 2 250'                  | # 3 240'           | # 4 185'               | # 5 175'                                                              |
| # 6 165'                 | # 7 140'                  | # 8 130'           | # 9 120'               | # 10 70'                                                              |
| Anode Output (Amps)      |                           |                    |                        |                                                                       |
| # 1 3.7                  | # 2 5.1                   | # 3 4.4            | # 4 4.0                | # 5 3.6                                                               |
| # 6 3.9                  | # 7 3.3                   | # 8 3.9            | # 9 4.0                | # 10 4.2                                                              |
| Anode Depth              |                           |                    |                        |                                                                       |
| # 11                     | # 12                      | # 13               | # 14                   | # 15                                                                  |
| # 16                     | # 17                      | # 18               | # 19                   | # 20                                                                  |
| Anode Output (Amps)      |                           |                    |                        |                                                                       |
| # 11                     | # 12                      | # 13               | # 14                   | # 15                                                                  |
| # 16                     | # 17                      | # 18               | # 19                   | # 20                                                                  |
| Total Circuit Resistance |                           |                    | No. 8 C.P. Cable Used: | No. 2 C.P. Cable Used:                                                |
| Volts 12.0               | Amps 20.9                 | Ohms .57           |                        |                                                                       |

Remarks: Driller said water at 40'. Approx. 5 gpm/min. Drilled to 60', was stuck in hole. Next A.M. Drill pipe came out of hole. Water was standing in hole at 20'. Drilled to 300'. Logged 297'. Installed 297' of 1" P.V.C. vent pipe, perforated 260'.

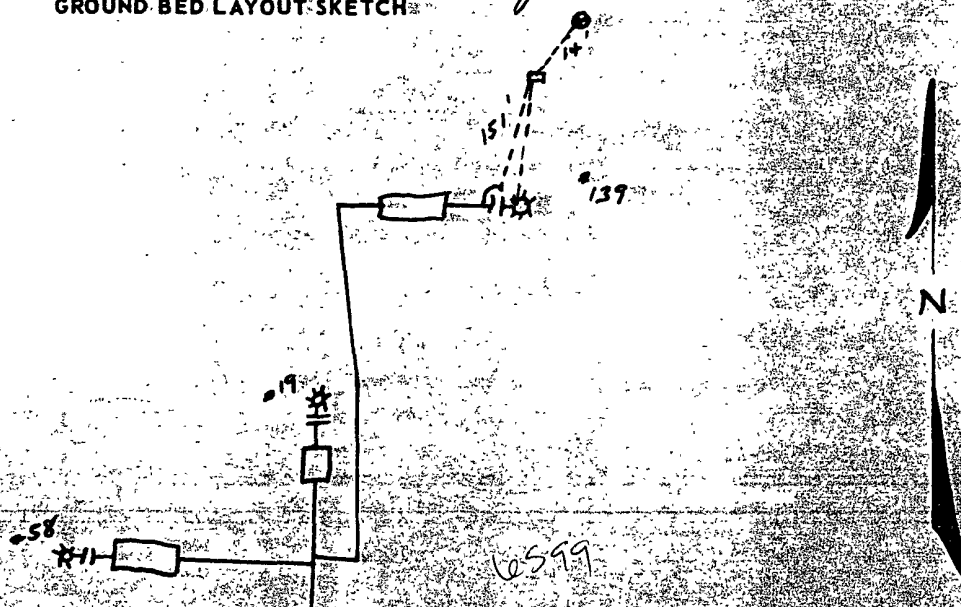
Rectifier Size: 60 V 30 A ✓  
 Addn'l Depth: \_\_\_\_\_ ✓  
 Depth Credit: 203' ✓  
 Extra Cable: 171' ✓  
 Ditch & 1 Cable: 165' ✓  
 25' Meter Pole: 1 ✓  
 20' Meter Pole: - ✓  
 10' Stub Pole: - ✓

All Construction Completed.

(Signature)

## GROUND BED LAYOUT SKETCH

| Time  | Req. | O.T. |
|-------|------|------|
| 53201 | 3    | 4    |
| 54073 | 3    | 4    |
| 54975 | 2    | 4    |



EL PASO NATURAL GAS COMPANY  
SAN JUAN DIVISION  
FARMINGTON, NEW MEXICO  
PRODUCTION DEPARTMENT WATER ANALYSTS

ANALYSIS NO.: 1-11503  
OPERATOR: EL PASO NATURAL GAS  
LOCATION: 26-27-5  
FIELD: BLANCO  
SAMPLED FROM: 40 FEET  
DATE SAMPLED: OCTOBER 10, 1984  
TUBING PRESSURE:  
SURFACE/CASING PRESSURE:

DATE: DECEMBER 5, 1984  
WELL NAME: SAN JUAN 27-5 #102 OPS  
COUNTY: RIL ANDISA STATE: NEW MEXICO  
ACRIFICATION:

SECURED BY: JOE STOTTS  
CASING PRESSURE:

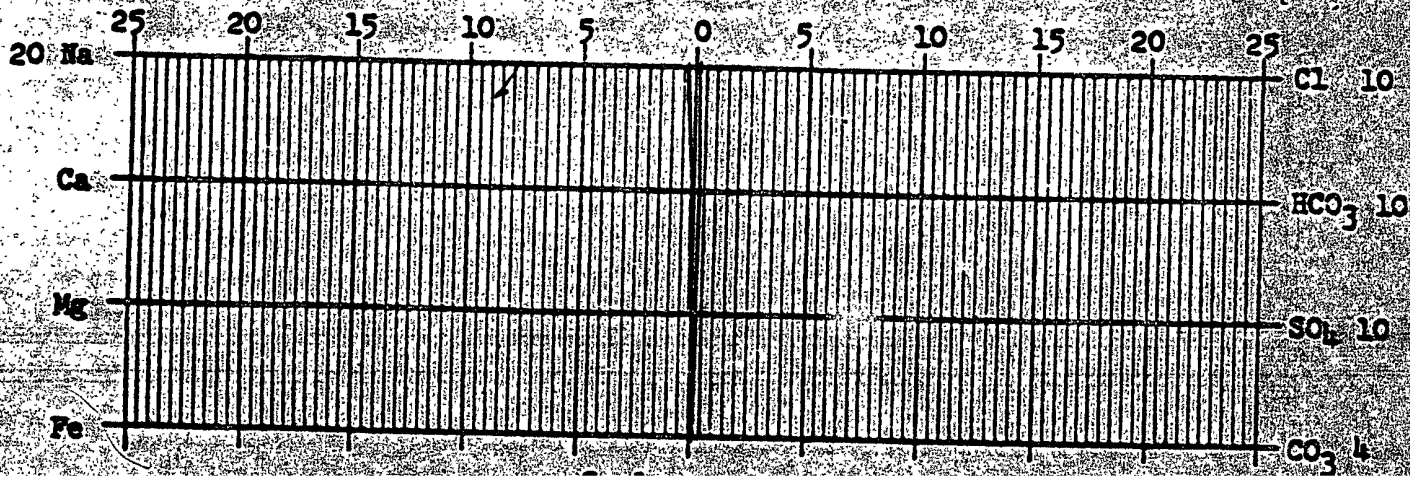
|                        | SAMPLE SIZE | ml. TIT | AS CaCO <sub>3</sub> | AS ION | epm |
|------------------------|-------------|---------|----------------------|--------|-----|
| TOTAL ALKALINITY       | 25          | 4.9     | 196                  |        |     |
| P ALKALINITY           | 25          | .2      | 3                    |        |     |
| SICARBONATE            | 25          | 4.5     | 180                  | 220    | 3   |
| CARBONATE              | 25          | .4      | 16                   | 10     | 0   |
| CHLORIDE               | 25          | 1.4     |                      | 56     | 1   |
| SULFATE                |             |         |                      | 102    | 2   |
| TOTAL HARDNESS         | 50          | 0       | 0                    |        |     |
| CALCIUM                | 50          | 0       | 0                    |        |     |
| MAGNESIUM              | 50          | 0       | 0                    |        |     |
| IRON                   |             | 0       | 0                    | 0      | 0   |
| SODIUM (CALCULATED)    |             |         |                      | 175    | 7   |
| HYDROCARBONS           |             |         |                      |        |     |
| TOTAL DISSOLVED SOLIDS |             |         |                      | 632    |     |
| PH                     |             |         |                      | 8.5    |     |
| SPECIFIC GRAVITY       |             |         |                      |        |     |
| RESISTIVITY            |             |         |                      |        |     |
| CONDUCTIVITY           |             |         |                      |        |     |

AT 50F  
CM-1M AT  
MICROMHOS 3-250

ALL RESULTS EXPRESSED IN PARTS PER MILLION-TRACE IS LESS THAN 0.1 ppm

ANALYST: R. A. MULLRICH  
CHECKED: D. C. ADAMS  
EX. R. PAULEY  
W. B. SHROPSHIRE  
FILE

*Lenora Bird*  
CHEMIST  
6CK



## CONSTRUCTION LOGGING READINGS

S.J. - 27-5 #19  
S.J. - 27-5 #58  
CPS #: 1746 W WELL NAME: S.J. - 27-5 #139

LOCATION: SW 20-27-5 DATE: 10/30/84

TOTAL VOLTS: 12.0 TOTAL AMPS: 20.9

OHMS RESISTANCE: .57

|      |           |           |      |           |           |      |           |           |      |           |           | ANODE READINGS |       |         |           |
|------|-----------|-----------|------|-----------|-----------|------|-----------|-----------|------|-----------|-----------|----------------|-------|---------|-----------|
| DEEP | LOG ANODE | ANODE NO. | DEEP | LOG ANODE | ANODE NO. | DEEP | LOG ANODE | ANODE NO. | DEEP | LOG ANODE | ANODE NO. | NO.            | DEPTH | NO COKE | WITH COKE |
| 5    |           |           | 185  | 1.8       | 4         | 365  |           |           | 545  |           |           | 1              | 260'  | 2.8     | 3.7       |
| 10   |           |           | 190  | 1.4       |           | 370  |           |           | 550  |           |           | 2              | 250'  | 3.4     | 5.1       |
| 15   |           |           | 195  | .7        |           | 375  |           |           | 555  |           |           | 3              | 240'  | 2.8     | 4.4       |
| 20   |           |           | 200  | .6        |           | 380  |           |           | 560  |           |           | 4              | 185'  | 2.4     | 4.0       |
| 25   |           |           | 205  | .5        |           | 385  |           |           | 565  |           |           | 5              | 175'  | 2.2     | 3.6       |
| 30   |           |           | 210  | .4        |           | 390  |           |           | 570  |           |           | 6              | 165'  | 2.7     | 3.9       |
| 35   |           |           | 215  | .4        |           | 395  |           |           | 575  |           |           | 7              | 140'  | 2.3     | 3.3       |
| 40   |           |           | 220  | .6        |           | 400  |           |           | 580  |           |           | 8              | 130'  | 2.5     | 3.9       |
| 45   |           |           | 225  | .6        |           | 405  |           |           | 585  |           |           | 9              | 120'  | 2.6     | 4.0       |
| 50   | 1.7       |           | 230  | .6        |           | 410  |           |           | 590  |           |           | 10             | 70'   | 2.9     | 4.2       |
| 55   | 1.7       |           | 235  | .8        |           | 415  |           |           | 595  |           |           |                |       |         |           |
| 60   | 1.4       |           | 240  | 1.9       | 3         | 420  |           |           | 600  |           |           |                |       |         |           |
| 65   | 1.7       |           | 245  | 2.2       |           | 425  |           |           | 605  |           |           |                |       |         |           |
| 70   | 2.0       | 10        | 250  | 2.3       | 2         | 430  |           |           | 610  |           |           |                |       |         |           |
| 75   | 1.5       |           | 255  | 2.1       |           | 435  |           |           | 615  |           |           |                |       |         |           |
| 80   | 1.3       |           | 260  | 1.8       | 1         | 440  |           |           | 620  |           |           |                |       |         |           |
| 85   | 1.2       |           | 265  | 1.5       |           | 445  |           |           | 625  |           |           |                |       |         |           |
| 90   | 1.0       |           | 270  | 1.4       |           | 450  |           |           | 630  |           |           |                |       |         |           |
| 95   | 1.0       |           | 275  | 1.5       |           | 455  |           |           | 635  |           |           |                |       |         |           |
| 100  | 1.1       |           | 280  | 1.9       |           | 460  |           |           | 640  |           |           |                |       |         |           |
| 105  | 1.3       |           | 285  | 1.9       |           | 465  |           |           | 645  |           |           |                |       |         |           |
| 110  | 1.4       |           | 290  | 1.5       |           | 470  |           |           | 650  |           |           |                |       |         |           |
| 115  | 1.3       |           | 295  | 2.97      | T.D.      | 475  |           |           | 655  |           |           |                |       |         |           |
| 120  | 1.9       | 9         | 300  |           |           | 480  |           |           | 660  |           |           |                |       |         |           |
| 125  | 1.9       |           | 305  |           |           | 485  |           |           | 665  |           |           |                |       |         |           |
| 130  | 1.6       | 8         | 310  |           |           | 490  |           |           | 670  |           |           |                |       |         |           |
| 135  | 1.3       |           | 315  |           |           | 495  |           |           | 675  |           |           |                |       |         |           |
| 140  | 1.7       | 1         | 320  |           |           | 500  |           |           | 680  |           |           |                |       |         |           |
| 145  | 1.5       |           | 325  |           |           | 505  |           |           | 685  |           |           |                |       |         |           |
| 150  | 1.2       |           | 330  |           |           | 510  |           |           | 690  |           |           |                |       |         |           |
| 155  | 1.4       |           | 335  |           |           | 515  |           |           | 695  |           |           |                |       |         |           |
| 160  | 1.7       |           | 340  |           |           | 520  |           |           | 700  |           |           |                |       |         |           |
| 165  | 1.9       | 6         | 345  |           |           | 525  |           |           | 705  |           |           |                |       |         |           |
| 170  | 1.7       |           | 350  |           |           | 530  |           |           | 710  |           |           |                |       |         |           |
| 175  | 1.7       | 5         | 355  |           |           | 535  |           |           | 715  |           |           |                |       |         |           |
| 180  | 1.7       |           | 360  |           |           | 540  |           |           | 720  |           |           |                |       |         |           |

REMARKS: Driller said WATER AT 40', Approx. 5GAL/min. Drilled 60', WAS STUCK IN THE HOLE. Next A.M. Drill Pipe came out of the hole WATER WAS STANDING IN HOLE AT 20'. Drilled To 300' Logged 297' Installed 297' of 1" P.V.C. vent pipe, Perforated 260'.

C.P.S. # 1746 W

DAILY DRILLING REPORT

| LEASE                                                                                                                                                        |  |     |  | WELL NO.                         |  | CONTRACTOR |  |            |  |          |  | RIG NO.                          |  | REPORT NO. |  | DATE       |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|--|----------------------------------|--|------------|--|------------|--|----------|--|----------------------------------|--|------------|--|------------|--|---------|--|----------------------------------|--|----|--|-----------|--|--------|--|--------|--|
| MORNING                                                                                                                                                      |  |     |  |                                  |  |            |  |            |  | DAYLIGHT |  |                                  |  |            |  |            |  | EVENING |  |                                  |  |    |  |           |  |        |  |        |  |
| Driller:                                                                                                                                                     |  |     |  | Total Men In Crew                |  |            |  | Driller    |  |          |  | Total Men In Crew                |  |            |  | Driller    |  |         |  | Total Men In Crew                |  |    |  |           |  |        |  |        |  |
| FROM                                                                                                                                                         |  | TO  |  | FORMATION                        |  | WT-BIT     |  | R.P.M.     |  | FROM     |  | TO                               |  | FORMATION  |  | WT-BIT     |  | R.P.M.  |  | FROM                             |  | TO |  | FORMATION |  | WT-BIT |  | R.P.M. |  |
| 0                                                                                                                                                            |  | 60  |  | clay-sand-water                  |  | Sgpm       |  |            |  | 210      |  | 250                              |  | Shale sand |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| 60                                                                                                                                                           |  | 80  |  | Red Shale                        |  |            |  |            |  | 250      |  | 300                              |  | Shale-Blue |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| 80                                                                                                                                                           |  | 100 |  | Sandstone - Bentonite            |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| 100                                                                                                                                                          |  | 200 |  | Shale Red & Blue                 |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| BIT NO.                                                                                                                                                      |  |     |  | NO. DC SIZE LENG.                |  |            |  | BIT NO.    |  |          |  | NO. DC SIZE LENG.                |  |            |  | BIT NO.    |  |         |  | NO. DC SIZE LENG.                |  |    |  |           |  |        |  |        |  |
| SERIAL NO.                                                                                                                                                   |  |     |  | STANDS                           |  |            |  | SERIAL NO. |  |          |  | STANDS                           |  |            |  | SERIAL NO. |  |         |  | STANDS                           |  |    |  |           |  |        |  |        |  |
| SIZE                                                                                                                                                         |  |     |  | SINGLES                          |  |            |  | SIZE       |  |          |  | SINGLES                          |  |            |  | SIZE       |  |         |  | SINGLES                          |  |    |  |           |  |        |  |        |  |
| TYPE                                                                                                                                                         |  |     |  | DOWN ON KELLY                    |  |            |  | TYPE       |  |          |  | DOWN ON KELLY                    |  |            |  | TYPE       |  |         |  | DOWN ON KELLY                    |  |    |  |           |  |        |  |        |  |
| MAKE                                                                                                                                                         |  |     |  | TOTAL DEPTH                      |  |            |  | MAKE       |  |          |  | TOTAL DEPTH                      |  |            |  | MAKE       |  |         |  | TOTAL DEPTH                      |  |    |  |           |  |        |  |        |  |
| MUD RECORD                                                                                                                                                   |  |     |  | MUD, ADDITIVES USED AND RECEIVED |  |            |  | MUD RECORD |  |          |  | MUD, ADDITIVES USED AND RECEIVED |  |            |  | MUD RECORD |  |         |  | MUD, ADDITIVES USED AND RECEIVED |  |    |  |           |  |        |  |        |  |
| Time                                                                                                                                                         |  | Wt. |  | Vis.                             |  |            |  | Time       |  | Wt.      |  | Vis.                             |  |            |  | Time       |  | Wt.     |  | Vis.                             |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| FROM                                                                                                                                                         |  | TO  |  | TIME BREAKDOWN                   |  |            |  | FROM       |  | TO       |  | TIME BREAKDOWN                   |  |            |  | FROM       |  | TO      |  | TIME BREAKDOWN                   |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
|                                                                                                                                                              |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| REMARKS -                                                                                                                                                    |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  | REMARKS -  |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| Not stuck in the hole at 60' on<br>the night of the 29 <sup>th</sup> . Had water<br>standing at 20' making approx.<br>5 gpm. Water level 30' natural<br>etc. |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |
| Drilled 300'<br>Logged 297'                                                                                                                                  |  |     |  |                                  |  |            |  |            |  |          |  |                                  |  |            |  |            |  |         |  |                                  |  |    |  |           |  |        |  |        |  |

SIGNED: Toolpusher

Brian E. Bump

Company Supervisor \_\_\_\_\_