

1096 #5E 30-045-26249  
#4 30-045-20670

8

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit SW Sec. 4 Twp 29 Rng 10

Name of Well/Wells or Pipeline Serviced FEUILLE A #5E, #4

cps 1818w

Elevation 5892' Completion Date 8/4/87 Total Depth 400' Land Type\* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 110' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 350', 340', 280', 270', 260', 250', 205', 195', 185', 175'

Depths vent pipes placed: 385'

Vent pipe perforations: 300'

Remarks: gb #1

**RECEIVED**  
MAY 31 1991  
OIL CON. 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.

comp 8-6-87

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

Drilling Log (Attach Hereto) ☐#5E  
#4m.m. 95-349-01 ✓  
m.m. 87-218 01 ✓

Completion Date 8-4-87

|                          |                           |                   |                       |                                                                       |
|--------------------------|---------------------------|-------------------|-----------------------|-----------------------------------------------------------------------|
| CPS #                    | Well Name, Line or Plant: | Work Order #      | Static:               | Ins Union Check                                                       |
| 1818-w                   | Fewille A #5-E            | R 04-29-10        | GOOE = .84            | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |
|                          | Fewille A #4?             | N 04-29-10        | GOOE = .80            |                                                                       |
| Location                 | Anode Size                | Anode Type        | Size Bit              |                                                                       |
| SW 4-29-10               | 2" x 60"                  | Duriron           | 6 3/4                 |                                                                       |
| Depth Drilled            | Depth Logged              | Drilling Rig Time | Total Lbs. Coke Used  | Lost Circulation Mat'l Used                                           |
| 400'                     | 383'                      |                   |                       |                                                                       |
| Anode Depth              |                           |                   |                       |                                                                       |
| # 1 350                  | # 2 340                   | # 3 280           | # 4 270               | # 5 260                                                               |
| # 6 250                  | # 7 205                   | # 8 195           | # 9 185               | # 10 175                                                              |
| Anode Output (Amps)      |                           |                   |                       |                                                                       |
| # 1 4.0                  | # 2 4.1                   | # 3 3.7           | # 4 4.3               | # 5 4.9                                                               |
| # 6 4.8                  | # 7 4.9                   | # 8 5.4           | # 9 6.2               | # 10 5.0                                                              |
| 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 |                                                                       |
| Volts 11.8               |                           |                   | ELEVATION = 5892'     |                                                                       |
| Amps 17.2                |                           |                   | Ohms .69              |                                                                       |
|                          |                           |                   | No. 2 C.P. Cable Used |                                                                       |

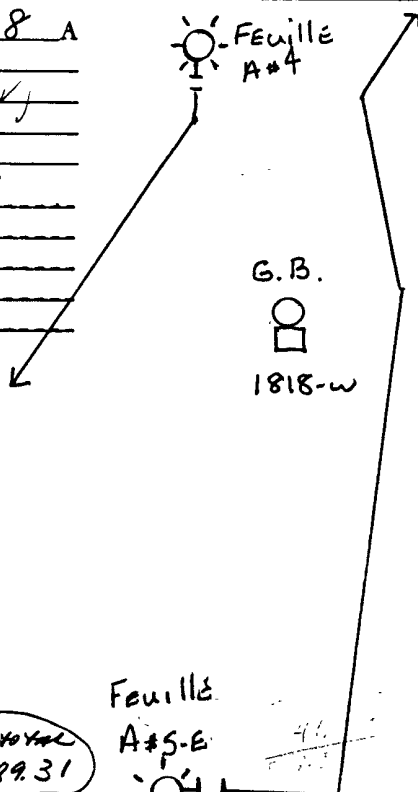
Remarks: DRILLED TO 400', LOGGED 383'. DRILLER SAID WATER AT 110' CAUGHT SAMPLE. INSTALLED 385' OF 1" PVC VENT PIPE PERFORATED BOTTOM 300'

Rectifier Size: 60 V 28 A  
 Addn'l Depth \_\_\_\_\_  
 Depth Credit: 117' ✓  
 Extra Cable: 20' ✓  
 Ditch & 1 Cable: \_\_\_\_\_  
 Ditch & 2 Cable: 160'  
 25' Meter Pole: -  
 20' Meter Pole: -  
 10' Stub Pole: 1  
 Junction Box: 1

4300. ✓  
 - 468. ✓  
 5.00 ✓  
 83.20 ✓  
 40.00 ✓  
 150.00 ✓  
 4110.20  
 TAX 205.51 ✓  
 4315.71 ✓

AC ext 1600' @ .52  
 832.00  
 41.60  
 873.60

Grand Total  
 \$5189.31



All Construction Completed

Mich R. Williams  
 (Signature)

5892

Date: 8-4-81

**Company.**

Well No. Fewell #5-E Location

Location SW 4-29-10

- Volts Applied 11.8

Amperes 12.5

|     |       |     |     |     |  |     |           |
|-----|-------|-----|-----|-----|--|-----|-----------|
| 5   |       | 230 | 1.5 | 455 |  | 680 | ② 350-4.2 |
| 10  |       | 235 | 1.4 | 460 |  | 685 | ② 340-3.7 |
| 15  |       | 240 | 1.4 | 465 |  | 690 | ② 330-    |
| 20  |       | 245 | 1.5 | 470 |  | 695 | ② 320-    |
| 25  |       | 250 | 2.3 | 475 |  | 700 | ② 300-    |
| 30  |       | 255 | 2.8 | 480 |  | 705 | ② 290-    |
| 35  |       | 260 | 2.6 | 485 |  | 710 | ② 280-    |
| 40  |       | 265 | 2.5 | 490 |  | 715 | ② 270-    |
| 45  |       | 270 | 2.4 | 495 |  | 720 | ② 260-    |
| 50  |       | 275 | 2.3 | 500 |  | 725 | ② 250-    |
| 55  |       | 280 | 2.5 | 505 |  | 730 |           |
| 60  |       | 285 | 2.4 | 510 |  | 735 | ② 280-3.3 |
| 65  |       | 290 | 2.6 | 515 |  | 740 | ② 270-3.2 |
| 70  |       | 295 | 2.3 | 520 |  | 745 | ② 260-3.8 |
| 75  |       | 300 | 2.3 | 525 |  | 750 | ② 250-3.2 |
| 80  |       | 305 | 1.9 | 530 |  | 755 | ② 205-3.1 |
| 85  |       | 310 | 2.0 | 535 |  | 760 | ② 195 3.1 |
| 90  |       | 315 | 2.5 | 540 |  | 765 | ② 185 3.6 |
| 95  |       | 320 | 2.7 | 545 |  | 770 | ② 175 3.1 |
| 100 | 2.4   | 325 | 2.7 | 550 |  | 775 | ② 165     |
| 105 | 2.4   | 330 | 2.9 | 555 |  | 780 |           |
| 110 | 2.1   | 335 | 2.8 | 560 |  | 785 | ② 335-4.0 |
| 115 | 2.0   | 340 | 2.8 | 565 |  | 790 | ② 320-4.1 |
| 120 | 2.0   | 345 | 2.7 | 570 |  | 795 | ② 310-3.7 |
| 125 | 2.0   | 350 | 3.0 | 575 |  | 800 | ② 300-4.5 |
| 130 | 1.6   | 355 | 2.7 | 580 |  | 805 | ② 290-4.9 |
| 135 | 1.2   | 360 | 2.8 | 585 |  | 810 | ② 280-4.8 |
| 140 | 1.0   | 365 | 3.0 | 590 |  | 815 | ② 270-4.9 |
| 145 | .7    | 370 | 2.9 | 595 |  | 820 | ② 260-5.2 |
| 150 | 1.0   | 375 | 2.6 | 600 |  | 825 | ② 250-6.2 |
| 155 | 2.0 x | 380 | 2.5 | 605 |  | 830 | ② 240-5.0 |
| 160 | 1.9   | 385 |     | 610 |  | 835 |           |
| 165 | 2.1 x | 390 |     | 615 |  | 840 |           |
| 170 | 1.6   | 395 |     | 620 |  | 845 |           |
| 175 | 2.2 x | 400 |     | 625 |  | 850 |           |
| 180 | 2.3   | 405 |     | 630 |  | 855 |           |
| 185 | 2.5 x | 410 |     | 635 |  | 860 |           |
| 190 | 2.4   | 415 |     | 640 |  | 865 |           |
| 195 | 2.2 x | 420 |     | 645 |  | 870 |           |
| 200 | 2.1   | 425 |     | 650 |  | 875 |           |
| 205 | 2.1   | 430 |     | 655 |  | 880 |           |
| 210 | 1.9   | 435 |     | 660 |  | 885 |           |
| 215 | 1.6   | 440 |     | 665 |  | 890 |           |
| 220 | 1.3   | 445 |     | 670 |  | 895 |           |
| 225 | 1.6   | 450 |     | 675 |  | 900 |           |

# API WATER ANALYSIS REPORT FORM

CPS 1818W  
K 4-29-10

|                                        |  |                                 |  |                              |  |
|----------------------------------------|--|---------------------------------|--|------------------------------|--|
| Company<br>MERIDIAN OIL COMPANY        |  | Sample No.<br>2                 |  | Date Sampled<br>08-04-87     |  |
| Field<br>Blanco                        |  | Legal Description<br>SW 4-29-10 |  | County or Parish<br>San Juan |  |
| Lease or Unit<br>FEUILLE               |  | Well<br>A#5-E                   |  | Depth<br>110'                |  |
| Type of Water (Produced, Supply, etc.) |  | Formation<br>Dakota             |  | Water, B/D                   |  |
| Sampling Point<br>110'                 |  | Sampled By<br>MW                |  | State<br>NM                  |  |

## DISSOLVED SOLIDS

### CATIONS

|                    | mg/l | me/l |
|--------------------|------|------|
| Sodium, Na (calc.) | 1320 | 57.4 |
| Calcium, Ca        | 26   | 3.8  |
| Magnesium, Mg      | 7    | .6   |
| Barium, Ba         |      |      |
|                    |      |      |
|                    |      |      |

### ANIONS

|                               |      |      |
|-------------------------------|------|------|
| Chloride, Cl                  | 142  | 4.0  |
| Sulfate, SO <sub>4</sub>      | 2610 | 54.4 |
| Carbonate, CO <sub>3</sub>    | 0    | 0    |
| Bicarbonate, HCO <sub>3</sub> | 207  | 3.4  |
|                               |      |      |
|                               |      |      |

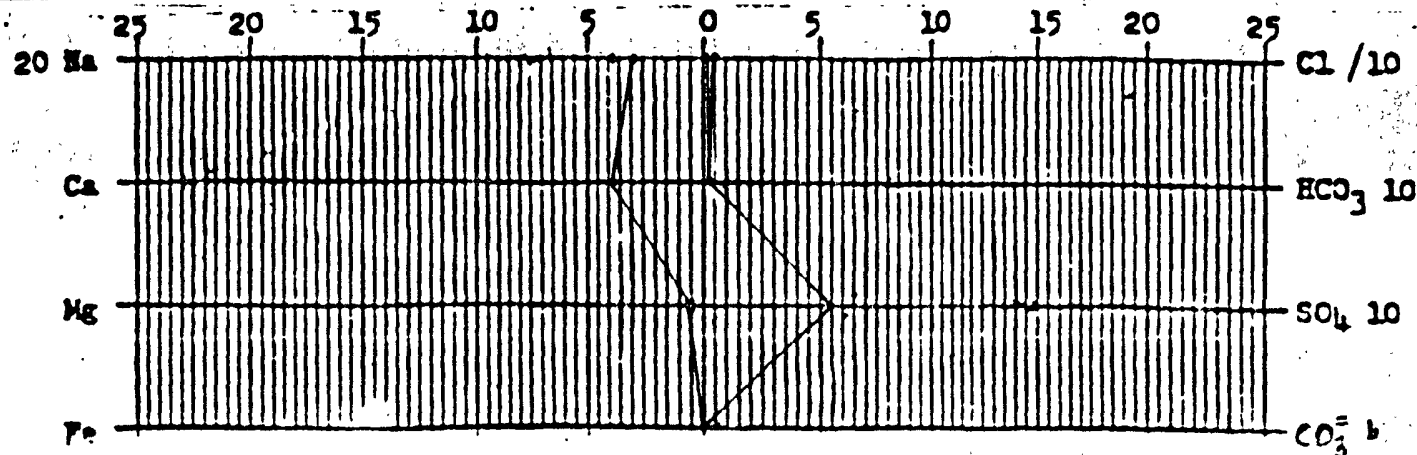
## OTHER PROPERTIES

|                            |                            |
|----------------------------|----------------------------|
| pH                         | 8.31                       |
| Specific Gravity, 60/60 F. | 1.0057                     |
| Resistivity (ohm-meters)   | 71.6°F.                    |
| Conductivity               | 3.8 x 10 <sup>6</sup> umho |

Total Dissolved Solids (calc.)  
4360

Iron, Fe (total)  
Sulfide, as H<sub>2</sub>S

## REMARKS & RECOMMENDATIONS:



CPS 18186

COMPANY MELTAN DAILY DRILLING REPORT 8-4, 1987

WATER AT:

**FEET:**

**HOLE MADE:**

[illegible]

REMARKS: WATER INJECTION AT 70 FT WENT BACK  
IN HOLE TO PUNCH BOOT

Driller Brad Burke

## Tool Dresser