

1173

30-039-21858

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 J Sec. 4 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #60A

cps 1872w

Elevation 6585' Completion Date 7/19/87 Total Depth 440' 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. 90' & 130' SAMPLE TAKEN

Depths gas encountered: N/A

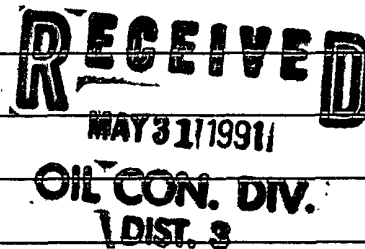
Type & amount of coke breeze used: N/A

Depths anodes placed: 405', 380', 360', 350', 335', 295', 280', 230', 220', 210'

Depths vent pipes placed: 440'

Vent pipe perforations: 340'

Remarks: gb #1



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.

CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

comp 7-21-87

Drilling Log (Attach Hereto) ☐

MV 8526865

Completion Date 7-19-87

PC 8526965

CPS #

Well Name, Line or Plant

Work Order #

Static:

.86 E

Ins Union Check

|                          |  |                        |  |                       |  |                      |  |                                                                       |  |
|--------------------------|--|------------------------|--|-----------------------|--|----------------------|--|-----------------------------------------------------------------------|--|
| 1872-W                   |  | LJ. 27-5 # 60A         |  |                       |  |                      |  | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |  |
| Location<br>J-4-27-5     |  | Anode Size<br>2" x 60" |  | Anode Type<br>Duriron |  | Size Bit<br>6 3/4"   |  |                                                                       |  |
| Depth Drilled<br>440'    |  | Depth Logged<br>435'   |  | Drilling Rig Time     |  | Total Lbs. Coke Used |  | Lost Circulation Mat'l Used                                           |  |
| Anode Depth              |  | # 1 405'               |  | # 2 390'              |  | # 3 360'             |  | # 4 350'                                                              |  |
| Anode Output (Amps)      |  | # 1 4.7                |  | # 2 3.8               |  | # 3 3.6              |  | # 4 5.0                                                               |  |
| Anode Depth              |  | # 5 335'               |  | # 6 295'              |  | # 7 280'             |  | # 8 230'                                                              |  |
| Anode Output (Amps)      |  | # 5 3.6                |  | # 6 3.9               |  | # 7 3.6              |  | # 8 3.1                                                               |  |
| Anode Depth              |  | # 9 220'               |  | # 10 210'             |  |                      |  |                                                                       |  |
| Anode Output (Amps)      |  | # 9 4.0                |  | # 10 3.9              |  |                      |  |                                                                       |  |
| Total Circuit Resistance |  | Volts 12.3             |  | Amps 20.              |  | Ohms .61             |  |                                                                       |  |
| No. 8 C.P. Cable Used    |  |                        |  | No. 2 C.P. Cable Used |  |                      |  |                                                                       |  |

Remarks: Hit water at 90' and 130' shut down and took water sample at 130'. Drilled 440', Logged 435', ran 440' of 1" PVC Vent pipe. Perforated 340'

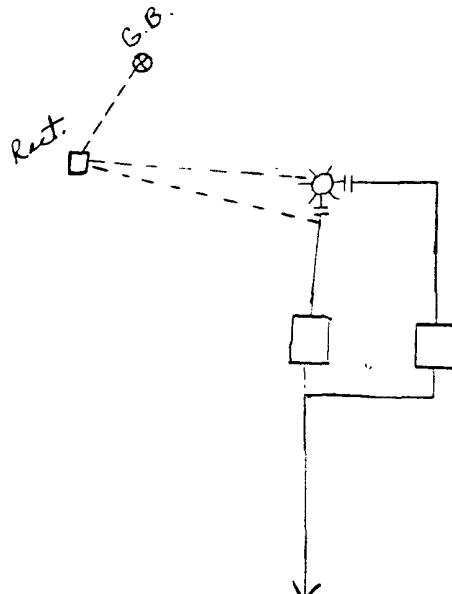
S.B. 4300.00 -

|                           |            |
|---------------------------|------------|
| Rectifier Size: 40 V 16 A | 750.00 -   |
| Add'l Depth               | - 260.00 ✓ |
| Depth Credit: - 65'       | 7.50 ✓     |
| Extra Cable: 30'          | 5.85 ✓     |
| Ditch & 1 Cable: 15'      | 67.60 ✓    |
| Ditch & 2 Cable: 130'     |            |
| 25' Meter Pole:           |            |
| 20' Meter Pole:           |            |
| 10' Stub Pole: 1          | 150.00 ✓   |
| Junction Box: 1           | 40.00 ✓    |

5060.95  
70x 291.00  
5351.95  
5314.00

All Construction Completed

*John L. Ehrlich*  
(Signature)



6585

# BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141

AZTEC, NEW MEXICO 87410

DEEP WELL GROUND BED LOG

Date 7-19-87

Company Meredian

Well No. 1427-560 Location J-4-27-5

Volts Applied 12.3

Amperes 20.

|     |     |     |           |       |     |  |     |                 |
|-----|-----|-----|-----------|-------|-----|--|-----|-----------------|
| 5   |     | 230 | 1.4       | X (6) | 455 |  | 680 | Dull at 440     |
| 10  |     | 235 | 1.0       |       | 460 |  | 685 | PVC Perforation |
| 15  |     | 240 | 0.9       |       | 465 |  | 690 | 340             |
| 20  |     | 245 | 0.9       |       | 470 |  | 695 | Water at 130'   |
| 25  |     | 250 | 0.9       |       | 475 |  | 700 |                 |
| 30  |     | 255 | 0.9       |       | 480 |  | 705 |                 |
| 35  |     | 260 | 0.3       |       | 485 |  | 710 |                 |
| 40  |     | 265 | 0.9       |       | 490 |  | 715 |                 |
| 45  |     | 270 | 0.5       |       | 495 |  | 720 |                 |
| 50  |     | 275 | 1.2       |       | 500 |  | 725 |                 |
| 55  |     | 280 | 1.4       | X (7) | 505 |  | 730 |                 |
| 60  |     | 285 | 1.4       |       | 510 |  | 735 |                 |
| 65  |     | 290 | 1.3       |       | 515 |  | 740 |                 |
| 70  |     | 295 | 1.5       | X (6) | 520 |  | 745 |                 |
| 75  |     | 300 | 1.2       |       | 525 |  | 750 |                 |
| 80  |     | 305 | 0.3       |       | 530 |  | 755 |                 |
| 85  |     | 310 | 0.3       |       | 535 |  | 760 |                 |
| 90  |     | 315 | 0.3       |       | 540 |  | 765 |                 |
| 95  |     | 320 | 0.5       |       | 545 |  | 770 |                 |
| 100 | 1.2 | 325 | 0.7       |       | 550 |  | 775 |                 |
| 105 | 2.1 | 330 | 1.2       |       | 555 |  | 780 |                 |
| 110 | 1.8 | 335 | 1.2       | X (5) | 560 |  | 785 |                 |
| 115 | 0.6 | 340 | 1.2       |       | 565 |  | 790 |                 |
| 120 | 0.6 | 345 | 1.3       |       | 570 |  | 795 |                 |
| 125 | 1.7 | 350 | 1.6       | X (4) | 575 |  | 800 |                 |
| 130 | 0.6 | 355 | 1.5       |       | 580 |  | 805 |                 |
| 135 | 0.6 | 360 | 1.3       | X (3) | 585 |  | 810 |                 |
| 140 | 0.4 | 365 | 1.1       |       | 590 |  | 815 |                 |
| 145 | 1.2 | 370 | 1.2       |       | 595 |  | 820 |                 |
| 150 | 1.5 | 375 | 1.1       |       | 600 |  | 825 | ① 405 2.2 4.7   |
| 155 | 0.7 | 380 | 1.5       | X (2) | 605 |  | 830 | ② 380 1.8 3.8   |
| 160 | 0.6 | 385 | 0.9       |       | 610 |  | 835 | ③ 340 1.6 3.6   |
| 165 | 0.5 | 390 | 1.1       |       | 615 |  | 840 | ④ 350 2.1 5.0   |
| 170 | 0.9 | 395 | 1.1       |       | 620 |  | 845 | ⑤ 335 1.5 3.6   |
| 175 | 0.4 | 400 | 1.4       |       | 625 |  | 850 | ⑥ 295 2.1 3.9   |
| 180 | 0.3 | 405 | 1.7       | X (1) | 630 |  | 855 | ⑦ 280 1.8 3.6   |
| 185 | 0.3 | 410 | 1.7       |       | 635 |  | 860 | ⑧ 230 1.7 3.1   |
| 190 | 0.4 | 415 | 1.4       |       | 640 |  | 865 | ⑨ 220 2.0 4.0   |
| 195 | 1.0 | 420 | 1.5       |       | 645 |  | 870 | ⑩ 210 1.6 3.4   |
| 200 | 1.2 | 425 | 1.1       |       | 650 |  | 875 |                 |
| 205 | 1.2 | 430 | T.O. 435' |       | 655 |  | 880 |                 |
| 210 | 1.2 | 435 |           |       | 660 |  | 885 |                 |
| 215 | 1.4 | 440 |           |       | 665 |  | 890 |                 |
| 220 | 1.6 | 445 |           |       | 670 |  | 895 |                 |
| 225 | 1.3 | 450 |           |       | 675 |  | 900 |                 |

# BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 PHONE 334-6141

AZTEC, NEW MEXICO 87410

CPS 187240

COMPANY: Mc A. D. I. A. N.

DAILY DRILLING REPORT

7/19

19 87

|                |              |            |             |            |
|----------------|--------------|------------|-------------|------------|
| WELL NAME:     | WELL NUMBER: | SECTION:   | TOWNSHIP:   | RANGE:     |
| <u>SJ 27-5</u> | <u>60 A</u>  | <u>4</u>   | <u>27 N</u> | <u>5 W</u> |
| WATER AT:      |              | FEET:      | HOLE MADE:  |            |
| <u>H2O</u>     |              | <u>130</u> |             |            |

## DESCRIPTION OF FORMATION

| FROM | TO  | FORMATION IS           | COLOR    |
|------|-----|------------------------|----------|
| 0    | 30  | Shale & sand           | Grey     |
| 30   | 70  | Shale                  | Grey     |
| 70   | 90  | H2O sand stone         |          |
| 90   | 120 | Shale                  | Gray     |
| 120  | 130 | H2O sand stone         |          |
| 130  | 160 | Shale & sand stone     | Grey     |
| 160  | 200 | Sand stone             |          |
| 200  | 240 | Shale                  | Red      |
| 240  | 300 | Sandstone & shale      | Grey     |
| 300  | 320 | Shale & sand stone     | Grey     |
| 320  | 360 | Sand stone & shale     | Red Grey |
| 360  | 400 | Sand stone & Red shale |          |
| 400  | 480 | Red & Gray shale       |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |
|      |     |                        |          |

REMARKS:

Driller

Vernon S. Hill

Tool Dresser



1872.43  
CPS 1795W ~~check off~~

### API WATER ANALYSIS REPORT FORM

|                                        |                                   |                                    |                             |
|----------------------------------------|-----------------------------------|------------------------------------|-----------------------------|
| Company <u>Meridian Oil</u>            |                                   | Sample No. <u>1</u>                | Date Sampled <u>7/19/87</u> |
| Field                                  | Legal Description <u>I-4-27-5</u> | County or Parish <u>Rio Arriba</u> | State <u>NM</u>             |
| Lease or Unit                          | Well <u>S.J. 27-5 #60A</u>        | Depth <u>130'</u>                  | Formation <u>M.P.</u>       |
| Type of Water (Produced, Supply, etc.) | Sampling Point <u>C.B.</u>        | Water, B/D                         |                             |
|                                        |                                   | Sampled By <u>J. Ehrlich</u>       |                             |

#### DISSOLVED SOLIDS

##### CATIONS

|                    | mg/l        | me/l        |
|--------------------|-------------|-------------|
| Sodium, Na (calc.) | <u>639</u>  | <u>27.8</u> |
| Calcium, Ca        | <u>20.7</u> | <u>1.0</u>  |
| Magnesium, Mg      | <u>2.5</u>  | <u>0.2</u>  |
| Barium, Ba         |             |             |
|                    |             |             |
|                    |             |             |

##### ANIONS

|                               |              |             |
|-------------------------------|--------------|-------------|
| Chloride, Cl                  | <u>136.1</u> | <u>3.8</u>  |
| Sulfate, SO <sub>4</sub>      | <u>90.8</u>  | <u>18.9</u> |
| Carbonate, CO <sub>3</sub>    |              |             |
| Bicarbonate, HCO <sub>3</sub> | <u>386.7</u> | <u>6.3</u>  |
|                               |              |             |
|                               |              |             |

#### OTHER PROPERTIES

|                               |                 |
|-------------------------------|-----------------|
| pH                            | <u>8.45</u>     |
| Specific Gravity, 60/60 F.    | <u>1.0050</u>   |
| Resistivity (ohm-centimeters) | <u>415.0 cm</u> |
|                               |                 |
|                               |                 |

Total Dissolved Solids (calc.)

2090

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

0

REMARKS & RECOMMENDATIONS:

