

#46 30-045-05735  
#209E 30-045-26241 3939

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. 23 Twp 26 Rng 9

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #46, #209E  
cps 1857w

Elevation 6420' Completion Date 8/12/87 Total Depth 200' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 160'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #2

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.

CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOGcomp  
8-20-87Drilling Log (Attach Hereto) ☐209E meter 95-35401  
46 71-27501

Completion Date 8-12-87

|                          |                              |                          |                       |                                                                       |
|--------------------------|------------------------------|--------------------------|-----------------------|-----------------------------------------------------------------------|
| CPS #                    | Well Name, Line or Plant:    | Work Order #             | Static:               | Ins. Union Check                                                      |
| 185'7W                   | Huertano 209E<br>Huertano 46 | N 23-26-09<br>K 23-26-09 | .88 NW.<br>.84 N.W    | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |
| Location:                | Anode Size:                  | Anode Type:              | Size Bit:             |                                                                       |
| SW 23-26-9               | 2" x 60"                     | Duriron                  | 6 3/4"                |                                                                       |
| Depth Drilled            | Depth Logged                 | Drilling Rig Time        | Total Lbs. Coke Used  | Lost Circulation Mat'l Used                                           |
| 400                      | 361'                         | 7 hrs.                   |                       |                                                                       |
| Anode Depth              |                              |                          |                       | No. Sacks Mud Used                                                    |
| #1 330                   | #2 320                       | #3 310                   | #4 295                | #5 285                                                                |
| #6 255                   | #7 245                       | #8 235                   | #9 225                | #10 215                                                               |
| Anode Output (Amps)      |                              |                          |                       |                                                                       |
| #1 3.7                   | #2 5.4                       | #3 5.0                   | #4 5.0                | #5 2.1                                                                |
| #6 4.9                   | #7 6.4                       | #8 5.7                   | #9 5.9                | #10 5.9                                                               |
| Anode Depth              |                              |                          |                       |                                                                       |
| #11 160                  | #12                          | #13                      | #14                   | #15                                                                   |
| #16                      | #17                          | #18                      | #19                   | #20                                                                   |
| Anode Output (Amps)      |                              |                          |                       |                                                                       |
| #11 4.7                  | #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 12.08<br>12.01     | Amps 22.6<br>24.5            | Ohms 53<br>.494          |                       |                                                                       |

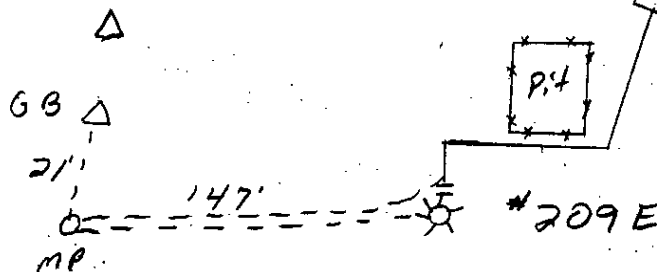
Remarks: Driller said water was at 130' and 230'.  
No water sample was taken. Vent pipe is perforated  
up to 120' lost #5 anode while loading. Moved  
over 15' and drilled 200' hole for the 1st  
anode. Drilled second hole 200' installed #5 anode

Rectifier Size: 60 V 28 A 4300.  
Addn'l Depth  
Depth Credit: 139' ✓ 556  
Extra Cable: 30' ✓ 7.50V 3744.00  
Ditch & 1 Cable: 21' ✓ 8.19V  
Ditch & 2 Cable: 147' ✓ 76.44V #46  
25' Meter Pole: 305.25  
20' Meter Pole:  
10' Stub Pole:  
Junction Box: 4080 ✓

All Construction Completed

Randy Smith  
(Signature)

4191.13  
Tx 209.06  
4390.19V



# DEEP WELL GROUND BED LOG

Company Meridian O.

Well No. \_\_\_\_\_ Location Huerta no 209E 346 Volts Applied 12.08 Amperes 22.6

|     |     |   |    |  |     |        |   |   |  |     |         |     |     |     |
|-----|-----|---|----|--|-----|--------|---|---|--|-----|---------|-----|-----|-----|
| 5   |     |   |    |  | 230 | 2.8    |   |   |  | 455 | ① 3.3 0 | 2.9 | 680 | 3.7 |
| 10  |     |   |    |  | 235 | 2.9    | ✓ | 2 |  | 460 | ② 3.2 0 | 3.4 | 685 | 5.4 |
| 15  |     |   |    |  | 240 | 3.0    |   |   |  | 465 | ③ 3.1 0 | 3.2 | 690 | 5.0 |
| 20  |     |   |    |  | 245 | 2.9    | ✓ | 7 |  | 470 | ④ 2.9 5 | 3.6 | 695 | 5.0 |
| 25  |     |   |    |  | 250 | 2.6    |   |   |  | 475 | ⑤ 2.8 5 | 2.7 | 700 | 2.1 |
| 30  |     |   |    |  | 255 | 2.4    | ✓ | 2 |  | 480 | ⑥ 2.5 5 | 3.5 | 705 | 4.9 |
| 35  |     |   |    |  | 260 | 2.1    |   |   |  | 485 | ⑦ 2.4 5 | 4.7 | 710 | 6.4 |
| 40  |     |   |    |  | 265 | 1.6    |   |   |  | 490 | ⑧ 2.3 5 | 4.0 | 715 | 5.7 |
| 45  |     |   |    |  | 270 | .8     |   |   |  | 495 | ⑨ 2.2 5 | 4.1 | 720 | 5.9 |
| 50  |     |   |    |  | 275 | 1.0    |   |   |  | 500 | ⑩ 2.1 5 | 3.7 | 725 | 5.9 |
| 55  |     |   |    |  | 280 | 1.3    |   |   |  | 505 |         |     | 730 |     |
| 60  |     |   |    |  | 285 | 2.2    | ✓ | 5 |  | 510 |         |     | 735 |     |
| 65  |     |   |    |  | 290 | 2.2    |   |   |  | 515 |         |     | 740 |     |
| 70  |     |   |    |  | 295 | 2.2    | ✓ |   |  | 520 |         |     | 745 |     |
| 75  |     |   |    |  | 300 | 1.6    |   |   |  | 525 |         |     | 750 |     |
| 80  |     |   |    |  | 305 | 1.9    |   |   |  | 530 |         |     | 755 |     |
| 85  |     |   |    |  | 310 | 2.3    | ✓ | 3 |  | 535 |         |     | 760 |     |
| 90  |     |   |    |  | 315 | 2.4    |   |   |  | 540 |         |     | 765 |     |
| 95  |     |   |    |  | 320 | 2.5    | ✓ | 2 |  | 545 |         |     | 770 |     |
| 100 |     |   |    |  | 325 | 2.7    |   |   |  | 550 |         |     | 775 |     |
| 105 |     |   |    |  | 330 | 2.1    | ✓ | 1 |  | 555 |         |     | 780 |     |
| 110 |     |   |    |  | 335 | 1.9    |   |   |  | 560 |         |     | 785 |     |
| 115 |     |   |    |  | 340 | 1.6    |   |   |  | 565 |         |     | 790 |     |
| 120 |     |   |    |  | 345 | 1.6    |   |   |  | 570 |         |     | 795 |     |
| 125 |     |   |    |  | 350 | 1.8    |   |   |  | 575 |         |     | 800 |     |
| 130 |     |   |    |  | 355 | 2.1    |   |   |  | 580 |         |     | 805 |     |
| 135 |     |   |    |  | 360 | TD.361 |   |   |  | 585 |         |     | 810 |     |
| 140 | 5   |   |    |  | 365 |        |   |   |  | 590 |         |     | 815 |     |
| 145 | 5   |   |    |  | 370 |        |   |   |  | 595 |         |     | 820 |     |
| 150 | 1.0 |   |    |  | 375 |        |   |   |  | 600 |         |     | 825 |     |
| 155 | 1.3 |   |    |  | 380 |        |   |   |  | 605 |         |     | 830 |     |
| 160 | 1.0 |   |    |  | 385 |        |   |   |  | 610 |         |     | 835 |     |
| 165 | 1.6 |   |    |  | 390 |        |   |   |  | 615 |         |     | 840 |     |
| 170 | 2.8 |   |    |  | 395 |        |   |   |  | 620 |         |     | 845 |     |
| 175 | 2.9 |   |    |  | 400 |        |   |   |  | 625 |         |     | 850 |     |
| 180 | 3.0 |   |    |  | 405 |        |   |   |  | 630 |         |     | 855 |     |
| 185 | 3.1 |   |    |  | 410 |        |   |   |  | 635 |         |     | 860 |     |
| 190 | 2.9 |   | 11 |  | 415 |        |   |   |  | 640 |         |     | 865 |     |
| 195 | 2.4 |   |    |  | 420 |        |   |   |  | 645 |         |     | 870 |     |
| 200 | 1.9 |   |    |  | 425 |        |   |   |  | 650 |         |     | 875 |     |
| 205 | 1.9 |   |    |  | 430 |        |   |   |  | 655 |         |     | 880 |     |
| 210 | 2.2 |   |    |  | 435 |        |   |   |  | 660 |         |     | 885 |     |
| 215 | 2.7 | ✓ | 10 |  | 440 |        |   |   |  | 665 |         |     | 890 |     |
| 220 | 2.9 |   |    |  | 445 |        |   |   |  | 670 |         |     | 895 |     |
| 225 | 2.5 | ✓ | 9  |  | 450 |        |   |   |  | 675 |         |     | 900 |     |

# DEEP WELL GROUND BED LOG

Amperes 4.0

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

# BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141  
AZTEC, NEW MEXICO 87410

1857W

COMPANY Meridian DAILY DRILLING REPORT 8-10 1987

| WELL NAME:      | WELL NUMBER:   | SECTION:  | TOWNSHIP:   | RANGE:     |
|-----------------|----------------|-----------|-------------|------------|
| <u>Huerfano</u> | <u>209E446</u> | <u>23</u> | <u>26 N</u> | <u>9 W</u> |

| WATER AT:            | FEET:      | HOLE MADE:                       |
|----------------------|------------|----------------------------------|
| <u>130 &amp; 230</u> | <u>110</u> | <u>water sample 6 3/4 380 ft</u> |

| DESCRIPTION OF FORMATION |     |                           |             |
|--------------------------|-----|---------------------------|-------------|
| FROM                     | TO  | FORMATION IS              | COLOR       |
| 0                        | 30  | Sand                      | tan         |
| 30                       | 90  | Sandstone - clay          | gray        |
| 90                       | 100 | Shale                     | gray        |
| 100                      | 120 | Sand stone                | gray        |
| 120                      | 130 | Water Sand                | gray        |
| 130                      | 210 | Shale                     | Purple Gray |
| 210                      | 230 | Sand stone - water Sand   | gray        |
| 230                      | 300 | Shale                     | Purple Gray |
| 300                      | 340 | Sand stone - sand & shale | gray        |
| 340                      | 350 | Shale                     | gray        |
| 350                      | 380 | Sand stone                | gray        |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |
|                          |     |                           |             |

## REMARKS:

left overnight at 130 ft but didn't make  
enough water to get sample.  
Bent a Gum

Driller

Tool Dresser