

3879

30-045-26678

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 K Sec. 29 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #219E

cps 1965w

Elevation 6539' Completion Date 6/20/88 Total Depth 405' Land Type\* N/A

Casing, Sizes, Types & Depths 20' OF SURFACE CASING

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. 100' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 345', 335', 325', 290', 280', 265', 145', 135', 125', 115'

Depths vent pipes placed: 405'

Vent pipe perforations: 300'

Remarks: gb #1

RECEIVED

MAY 31 1991

OIL CON. DIV

DISC 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) ☒

Comp 6-23-88

Completion Date 6-20-88

|                          |                           |                   |                       |                                                            |
|--------------------------|---------------------------|-------------------|-----------------------|------------------------------------------------------------|
| CPS #                    | Well Name, Line or Plant: | Work Order #      | Static:               | Ins. Union Check                                           |
| 1965W                    | Huerfano 219E             | 54544A            | 600'E = 746           | <input type="checkbox"/> Good <input type="checkbox"/> Bad |
|                          |                           | 2054544A          |                       |                                                            |
| Location:                | Anode Size:               | Anode Type:       | Size Bit:             |                                                            |
| K-29-26-10               | 2" x 60"                  | Durion            | 6 3/4                 |                                                            |
| Depth Drilled            | Depth Logged              | Drilling Rig Time | Total Lbs. Coke Used  | Lost Circulation Mat'l Used                                |
| 405                      | 401                       |                   |                       |                                                            |
| Anode Depth              |                           |                   |                       |                                                            |
| # 1 345                  | # 2 335                   | # 3 325           | # 4 290               | # 5 280                                                    |
| # 6 265                  | # 7 145                   | # 8 135           | # 9 125               | # 10 115                                                   |
| Anode Output (Amps)      |                           |                   |                       |                                                            |
| # 1 4.7                  | # 2 5.0                   | # 3 5.3           | # 4 5.4               | # 5 5.6                                                    |
| # 6 5.2                  | # 7 5.3                   | # 8 7.2           | # 9 6.8               | # 10 5.9                                                   |
| 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 11.9               | Amps 27.4                 | Ohms 434          |                       |                                                            |

Remarks: Drilled to 405', logged 401' driller said water was 100' not enough for water sample set 30' surface casing & br, installed 405' 1" PVC vent pipe, perforated bottom 300'

Q.B. 4074.00<sup>00</sup> -  
Rectifier Size: 40 V 16 A 669.00  
Addn'l Depth: 99' @ 3.50 = 346.50  
Depth Credit: 126' @ .34 = 30.24  
Extra Cable: 399' @ .40 = 159.60  
Ditch & 1 Cable: 399' @ .40 = 159.60  
25' Meter Pole:  
20' Meter Pole:  
10' Stub Pole: 1

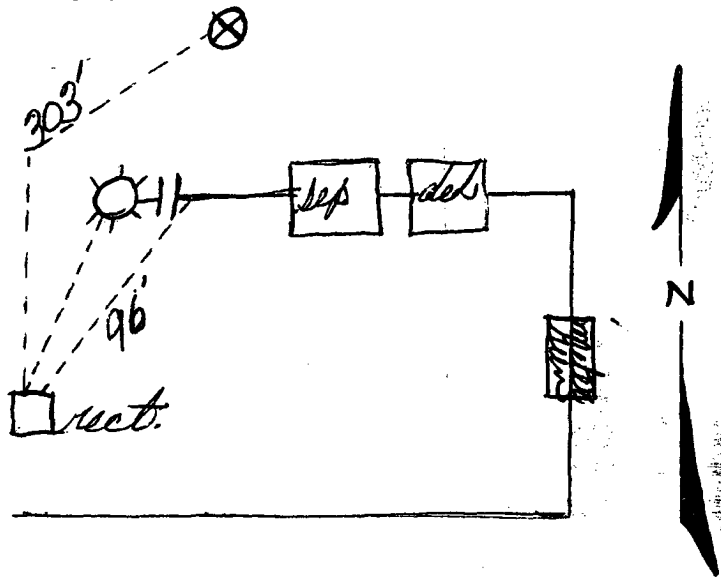
20' casing  
1 hr. casing time  
1 junction Box

5337.54  
266.88  
5604.42

22

659

## GROUND BED LAYOUT SKETCH



## WELL TYPE GROUND BED DATA

TA SHEET NO. \_\_\_\_\_

COMPANY \_\_\_\_\_ JOB NO. 13139 DATE: 6-20-88  
 WELL: HUERTANO # 219E PIPELINE: \_\_\_\_\_  
 LOCATION: SEC 29 TWP. 26 RGE. 10 CO. SAN JUAN STATE N MEX  
 ELEV. \_\_\_\_\_ FT: ROTARY 400 FT: CABLE TOOL -0- FT: CASING 20 FT.  
 GROUND BED: DEPTH 401 FT. DIA. \_\_\_\_\_ IN. GAS \_\_\_\_\_ LBS. ANODES \_\_\_\_\_

| DEPTH.<br>FT. | DRILLER'S LOG | EXPLORING ANODE<br>TO STRUCTURE |   |   | NO<br>COKE<br>I | WITH<br>COKE<br>I | ANODE<br>NO. | DEPTH.<br>TOP OF<br>ANODES |
|---------------|---------------|---------------------------------|---|---|-----------------|-------------------|--------------|----------------------------|
|               |               | E                               | I | R |                 |                   |              |                            |
| 50            |               |                                 |   |   |                 |                   |              |                            |
| 55            |               |                                 |   |   |                 |                   |              |                            |
| 60            |               |                                 |   |   |                 |                   |              |                            |
| 65            |               |                                 |   |   |                 |                   |              |                            |
| 70            |               |                                 |   |   |                 |                   |              |                            |
| 75            |               |                                 |   |   |                 |                   |              |                            |
| 80            |               |                                 |   |   |                 |                   |              |                            |
| 85            |               |                                 |   |   |                 |                   |              |                            |
| 90            |               |                                 |   |   |                 |                   |              |                            |
| 95            |               |                                 |   |   |                 |                   |              |                            |
| 100           |               |                                 |   |   | 0.8             |                   |              |                            |
| 5             |               |                                 |   |   | 1.6             |                   |              |                            |
| 10            |               |                                 |   |   | 1.2             |                   |              |                            |
| 15            |               |                                 |   |   | 2.0             | 2.7               | 5.9          | 10                         |
| 20            |               |                                 |   |   | 2.0             |                   |              |                            |
| 25            |               |                                 |   |   | 2.1             | 2.8               | 6.8          | 9                          |
| 30            |               |                                 |   |   | 2.2             |                   |              |                            |
| 35            |               |                                 |   |   | 2.1             | 2.9               | 7.2          | 9                          |
| 40            |               |                                 |   |   | 2.2             |                   |              |                            |
| 45            |               |                                 |   |   | 1.9             | 2.3               | 5.3          | 7-                         |
| 50            |               |                                 |   |   | 1.6             |                   |              |                            |
| 55            |               |                                 |   |   | 1.6             |                   |              |                            |
| 60            |               |                                 |   |   | 1.2             |                   |              |                            |
| 65            |               |                                 |   |   | 1.1             |                   |              |                            |
| 70            |               |                                 |   |   | 1.3             |                   |              |                            |
| 75            |               |                                 |   |   | 1.3             |                   |              |                            |
| 80            |               |                                 |   |   | 0.6             |                   |              |                            |
| 85            |               |                                 |   |   | 0.5             |                   |              |                            |
| 90            |               |                                 |   |   | 0.7             |                   |              |                            |
| 95            |               |                                 |   |   | 0.8             |                   |              |                            |
| 200           |               |                                 |   |   | 0.4             |                   |              |                            |
| 5             |               |                                 |   |   | 1.2             |                   |              |                            |
| 10            |               |                                 |   |   | 1.4             |                   |              |                            |
| 15            |               |                                 |   |   | 1.3             |                   |              |                            |
| 20            |               |                                 |   |   | 1.2             |                   |              |                            |
| 25            |               |                                 |   |   | 1.0             |                   |              |                            |
| 30            |               |                                 |   |   | 1.4             |                   |              |                            |
| 35            |               |                                 |   |   | 1.5             |                   |              |                            |
| 40            |               |                                 |   |   | 1.0             |                   |              |                            |
| 45            |               |                                 |   |   | 0.8             |                   |              |                            |
| 50            |               |                                 |   |   | 0.6             |                   |              |                            |
| 55            |               |                                 |   |   | 0.6             |                   |              |                            |

GROUND BED RESISTANCE: (1) VOLTS 11.9 - AMPS 27.4 - OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUCAS COMPANY

D. A SHEET NO. \_\_\_\_\_

WELL: \_\_\_\_\_ PIPELINE: \_\_\_\_\_

ELEV. \_\_\_\_\_ FT: ROTARY \_\_\_\_\_ FT: CABLE TOOL \_\_\_\_\_ FT: CASING \_\_\_\_\_

GROUNDING: DEPTH \_\_\_\_\_ FT. DIA. \_\_\_\_\_ IN. GAS \_\_\_\_\_ LBS. ANCHORS \_\_\_\_\_

GROUNDING RESISTANCE: (1) VOLTS \_\_\_\_\_ AMPS \_\_\_\_\_ OHMS \_\_\_\_\_

(C) VIDEOGROUND \_\_\_\_\_ CHMS

# GENERAL CATHODIC PROTECTION SERVICES CO.

**• LUKENS : 2000**

D Cross

DRILLING CO.

1965

Drill No. 3

DRILLER'S WELL LOG

S. P. No. Huerfano-219.EDK Date 12-20-85

Client Meridian Oil Co Prospect \_\_\_\_\_

County SAN JUAN State New Mex

If hole is a redrill or if moved from original staked position show distance and direction moved: \_\_\_\_\_

| FROM | TO  | FORMATION — COLOR — HARDNESS |
|------|-----|------------------------------|
| 0    | 15  | SAND                         |
| 15   | 40  | SANDY SHALE                  |
| 40   | 90  | SHALE                        |
| 90   | 100 | SAND ✓                       |
| 100  | 150 | SHALE                        |
| 150  | 210 | SANDSTONE                    |
| 210  | 240 | SANDY SHALE                  |
| 240  | 260 | SAND                         |
| 260  | 300 | SHALE                        |
| 300  | 320 | SANDSTONE                    |
| 320  | 350 | SHALE                        |
| 350  | 400 | SANDY SHALE                  |

Mud \_\_\_\_\_ Bran \_\_\_\_\_ Lime \_\_\_\_\_

Rock Bit Number \_\_\_\_\_ Make \_\_\_\_\_

Remarks: Water @ 100

Driller

Emmie Brown