

30045-20484

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

Operator MERIDIAN OIL Location: Unit SE Sec. 28 Twp 26 Rng 10

Name of Well/Wells or Pipeline Serviced HUERFANO UNIT #197

cps 990w

Elevation 6647' Completion Date 9/26/75 Total Depth 350' 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. 140'

Depths gas encountered: N/A

Type & amount of coke breeze used: 4200 lbs.

Depths anodes placed: 310', 300', 240', 230', 220', 190', 180', 170', 160', 150'

Depths vent pipes placed: N/A

Vent pipe perforations: 220'

Remarks: agb #1

RECEIVED  
MAY 31 1991  
OIL CON. DIST.

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

*[Signature]*

Drilling Log (Attach Hereto). ☐

Completion Date **9-26-75**

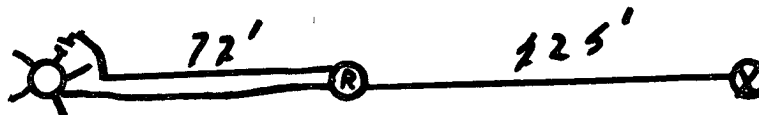
|                                       |            |                         |            |                                      |            |                             |            |                                         |            |            |  |
|---------------------------------------|------------|-------------------------|------------|--------------------------------------|------------|-----------------------------|------------|-----------------------------------------|------------|------------|--|
| Well Name<br><b>HURFANO #197</b>      |            |                         |            | Location<br><b>SE 28-26N-10W</b>     |            |                             |            | CPS No.<br><b>990 W</b>                 |            |            |  |
| Type & Size Bit Used<br><b>6 7/8"</b> |            |                         |            |                                      |            |                             |            | Work Order No.<br><b>54653.19-50-22</b> |            |            |  |
| Anode Hole Depth<br><b>350</b>        |            | Total Drilling Rig Time |            | Total Lbs. Coke Used<br><b>4,200</b> |            | Lost Circulation Mat'l Used |            | No. Sacks Mud Used                      |            |            |  |
| Anode Depth                           | # 1        | # 2                     | # 3        | # 4                                  | # 5        | # 6                         | # 7        | # 8                                     | # 9        | # 10       |  |
|                                       | <b>310</b> | <b>300</b>              | <b>240</b> | <b>230</b>                           | <b>220</b> | <b>190</b>                  | <b>180</b> | <b>170</b>                              | <b>160</b> | <b>150</b> |  |
| Anode Output (Amps)                   | # 1        | # 2                     | # 3        | # 4                                  | # 5        | # 6                         | # 7        | # 8                                     | # 9        | # 10       |  |
|                                       | <b>2.6</b> | <b>3.0</b>              | <b>3.8</b> | <b>3.6</b>                           | <b>3.6</b> | <b>3.2</b>                  | <b>3.8</b> | <b>4.0</b>                              | <b>4.2</b> | <b>4.0</b> |  |
| 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<br><b>10.5</b>                  |            | Amps<br><b>13.0</b>     |            | Ohms<br><b>0.81</b>                  |            | <b>2650</b>                 |            |                                         |            |            |  |

Remarks: **Drill with Air Driller said water AT 140' Logging Anode stopped AT 325' VENT Hose Perforated 220'**

All Construction Completed

*[Signature]*  
(Signature)

GROUND BED LAYOUT SKETCH



6647

975

**990W**

| MW  | gas/mol               |
|-----|-----------------------|
| 16  | C <sub>1</sub> 6.4    |
| 30  | C <sub>2</sub> 10.12  |
| 44  | C <sub>3</sub> 10.42  |
| 58  | IC <sub>4</sub> 12.38 |
| 72  | NC <sub>4</sub> 11.53 |
| 86  | IC <sub>5</sub> 13.85 |
| 100 | NC <sub>5</sub> 13.71 |
| 114 | IC <sub>6</sub> 15.50 |
| 128 | C <sub>7</sub> 15.57  |
| 142 | NC <sub>6</sub> 17.46 |
| 156 | C <sub>8</sub> 17.90  |
| 170 | C <sub>9</sub> 19.64  |
| 184 | C <sub>10</sub> 19.67 |

| MW | MISC            | gas/mol |
|----|-----------------|---------|
| 14 | CO <sub>2</sub> | 6.39    |
| 28 | N <sub>2</sub>  | 1.17    |
| 42 | H <sub>2</sub>  | 1.18    |

|   |    |     |          |     |              |       |
|---|----|-----|----------|-----|--------------|-------|
| 1 | 40 | 1.6 | 20       | 1.3 | 220'         | PERF. |
|   |    | 1.6 | T.D. 325 |     | DRILLER SAID |       |
|   | 50 | 1.7 | 40       |     | AT 140'      | WATER |
|   |    | 1.6 |          |     |              |       |
|   | 60 | 1.6 | 50       |     |              |       |
|   |    | 1.6 |          |     |              |       |
|   | 70 | 1.6 |          |     |              |       |
|   |    | 1.6 |          |     |              |       |
|   | 80 | 1.6 |          |     |              |       |
|   |    | 1.5 |          |     |              |       |
|   | 90 | 1.5 |          |     |              |       |
|   |    | 1.0 |          |     |              |       |
| 2 | 00 | 0.6 |          |     |              |       |
|   |    | 0.6 |          |     |              |       |
|   | 10 | 0.6 |          |     |              |       |
|   |    | 1.2 | X        |     |              |       |
|   | 20 | 1.5 | -        |     |              |       |
|   |    | 1.6 |          |     |              |       |
|   | 30 | 1.5 | -        |     |              |       |
|   |    | 1.6 |          |     |              |       |
|   | 40 | 1.6 | -        |     |              |       |
|   |    | 1.4 |          |     |              |       |
|   | 50 | 0.7 |          |     |              |       |
|   |    | 0.4 |          |     |              |       |
|   | 60 | 0.5 |          |     |              |       |
|   |    | 0.5 |          |     |              |       |
|   | 70 | 0.5 | 1. 310   | 2.0 | 2.0          |       |
|   |    | 0.4 | 2. 300   | 1.9 | 3.0          |       |
|   |    |     | 3. 240   | 2.0 | 3.8          |       |
|   | 80 | 0.4 | 4. 230   | 1.9 | 3.6          |       |
|   |    | 0.4 | 5. 220   | 1.9 | 3.6          |       |
|   | 90 | 0.4 | 6. 190   | 1.7 | 3.2          |       |
|   |    | 1.4 | 7. 180   | 2.0 | 3.8          |       |
| 3 | 00 | 1.6 | 8. 170   | 1.9 | 4.0          |       |
|   |    | 1.4 | 9. 160   | 1.9 | 4.2          |       |
|   | 10 | 1.5 | 10. 150  | 1.9 | 4.0          |       |
|   |    | 1.5 |          |     |              |       |

2150  
304  
2550 10.5 ✓ 13.9 1812