

30-045-10250

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

Operator MERIDIAN OIL Location: Unit SW Sec. 28 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL D #1

cps 247w

Elevation 6483' Completion Date 6/20/74 Total Depth 700' 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. 460'

RECEIVED

MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV  
DIST. 3

Type & amount of coke breeze used: 12700 lbs.

Depths anodes placed: 660', 650', 640', 630', 620', 495', 485', 475', 465', 455'

Depths vent pipes placed: N/A

Vent pipe perforations: 495'

Remarks: qb #3. FIRST HOLE CAVED AT 430'. LOST LOGGING ANODE AT 600'.

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). ☐

Completion Date 6/20/74

|                                       |                         |                                            |                             |                                           |               |
|---------------------------------------|-------------------------|--------------------------------------------|-----------------------------|-------------------------------------------|---------------|
| Well Name<br><b>Howell D #1</b>       |                         | Location<br><b>SW 28-31N-8W</b>            |                             | CPS No.<br><b>247 W</b>                   |               |
| Type & Size Bit Used<br><b>6 3/4"</b> |                         |                                            |                             | Work Order No.<br><b>184-52020.19.50-</b> |               |
| Anode Hole Depth<br><b>700'</b>       | Total Drilling Rig Time | Total Lbs. Coke Used<br><b>12,700 EST.</b> | Lost Circulation Mat'l Used | No. Sacks Mud Used                        |               |
| Anode Depth                           |                         |                                            |                             |                                           |               |
| #1 <b>660</b>                         | #2 <b>650</b>           | #3 <b>640</b>                              | #4 <b>630</b>               | #5 <b>620</b>                             | #6 <b>495</b> |
| #7 <b>485</b>                         | #8 <b>475</b>           | #9 <b>465</b>                              | #10 <b>455</b>              |                                           |               |
| Anode Output (Amps)                   |                         |                                            |                             |                                           |               |
| #1 <b>1.5</b>                         | #2 <b>1.9</b>           | #3 <b>2.6</b>                              | #4 <b>2.6</b>               | #5 <b>2.4</b>                             | #6 <b>1.9</b> |
| #7 <b>2.4</b>                         | #8 <b>2.4</b>           | #9 <b>2.0</b>                              | #10 <b>2.0</b>              |                                           |               |
| Anode Depth                           |                         |                                            |                             |                                           |               |
| #11 <b>445</b>                        | #12 <b>420</b>          | #13                                        | #14                         | #15                                       | #16           |
| #17                                   | #18                     | #19                                        | #20                         |                                           |               |
| Anode Output (Amps)                   |                         |                                            |                             |                                           |               |
| #11 <b>2.0</b>                        | #12 <b>2.0</b>          | #13                                        | #14                         | #15                                       | #16           |
| #17                                   | #18                     | #19                                        | #20                         |                                           |               |
| Total Circuit Resistance              |                         | No. 8 C.P. Cable Used                      |                             | No. 2 C.P. Cable Used                     |               |
| Volts <b>11.5</b>                     | Amps <b>10.0</b>        | Ohms <b>1.15</b>                           | <b>385'</b>                 |                                           |               |

Remarks: Hole #1 Drilled with Air Driller said  
Water @ 360 Increase @ 460'-480' Lost Leggin  
Anode in Hole. Hole Caved Moved Rig 20'  
Drill with Mud to 700'. Vent Hose Perfor  
495'. 320' Drill pipe stuck in Hole Freed  
with Diesel and Mag Caber Pipe Hex Chemical  
Additive

All Construction Completed

\$ 3,409.00  
154.00 Cable

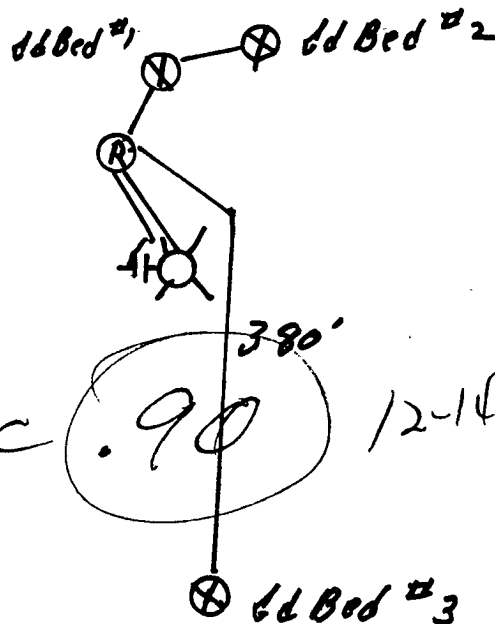
\$ 3,563.00  
\$ 1,387.50 EXTRA Depth  
\$ 4,950.50  
180.00 EXTRA Anodes

\$ 5,130.50  
205.22 TAX

\$ 5,335.72

Edward R. Paulch  
(Signature)

GROUND BED LAYOUT SKETCH



New Statoc **.90** 12-14-83

**STORM WATER WELL DRILLING, INC.**

**DIAMOND CORE DRILLING**  
**DIAMOND DRILLING EQUIPMENT**  
**GROUTING**  
**FOUNDATION TESTING**  
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**WATER WELL DRILLING**

**CONTRACTORS**  
**14991 W. 44TH AVENUE**  
**GOLDEN, COLORADO. 80401**  
**PHONE (303) 278-9505**

**GENERAL OFFICE**  
**14991 W. 44TH AVENUE**  
**BAILEY OFFICE**  
**CALL 1-838-4821**

Drill GD 15 W

Date 6-20-74

Owner C.P.S 247 W

Location: \_\_\_\_\_  
City Summington State N.M. County \_\_\_\_\_

[illegible]

Total Hours \_\_\_\_\_

Equipment Down Time \_\_\_\_\_

Hours Drilling \_\_\_\_\_

Driller Sgt Gladwell

Helper Dan Bates

Helper Doug Peider

C.P.S. Time \_\_\_\_\_

S.W.W.D.I. Time \_\_\_\_\_

**Total Footage** \_\_\_\_\_

Approval of  
C.P.S. Engineer \_\_\_\_\_

247 W

X=26.2

| MW  | gas/mol               |
|-----|-----------------------|
| 16  | C <sub>1</sub> 6.4    |
| 30  | C <sub>2</sub> 9.56   |
| 44  | C <sub>3</sub> 10.42  |
| 58  | IC <sub>4</sub> 12.38 |
| 72  | NC <sub>4</sub> 11.93 |
| 86  | IC <sub>5</sub> 13.85 |
| 100 | IC <sub>6</sub> 15.50 |
| 114 | IC <sub>7</sub> 17.2  |
| 128 | IC <sub>8</sub> 17.46 |
| 142 | IC <sub>9</sub> 19.38 |
| 156 | IC <sub>10</sub> 9.64 |
| 170 | C <sub>11</sub> 9.67  |

| MISC. | gas/mol               |
|-------|-----------------------|
| 44    | CO <sub>2</sub> 6.39  |
| 58    | H <sub>2</sub> S 5.17 |
| 72    | N <sub>2</sub> 4.16   |
| 86    | H <sub>2</sub> 1.38   |

|     |     |      |     |      |                            |
|-----|-----|------|-----|------|----------------------------|
| 400 | .3  | 80   | .4  | 4/18 | Drill 110' said water 360' |
|     | .3  |      | .4  | .4   | INJECTION @ 360'           |
| 10  | .2  | 90   | .4  | .4   | INCREASE 460'-480'         |
|     | .5  | 596' | .4  | .4   | DRILL TO 460' STAND        |
| 20  | 1.3 | 600  | .4  | .4   | OVER NIGHT WATER           |
|     | 1.0 |      | .4  | .4   | STANDING @ 250'            |
| 30  | .8  | 10   | .3  |      | DRILLER SAID 10981 MIN     |
|     | .5  |      |     |      | DRILL TO 600' ATTEMPT TO   |
| 40  | .4  |      |     |      | LOG LOST LOGGING ANODE     |
| 50  | 1.1 |      |     |      | IN HOLE REPLACED LOGGING   |
|     | 1.3 |      |     |      | ANODE AND ATTEMPT TO       |
| 60  | 1.2 | 360  | 1.1 |      | RELOG HOLE CAVED @ 430'    |
| 70  | .7  |      | .3  | 6/19 | MOVED RIG 20' AND DRILL    |
|     | .9  | 70   | .2  |      | WITH MUD STUCK 320'        |
| 80  | 1.1 |      | .2  |      | DRILLER IN HOLE FREED      |
|     | 1.2 | 80   | .3  |      | WITH DIESEL AND MAGNET     |
| 90  | 1.2 |      | .4  |      | PIPE LAX CHEMICAL ADDIT    |
|     | 1.3 | 90   | .4  | 6/20 | DRILL TO 620 AND LOG NOT   |
| 100 | 1.3 |      | .3  |      | ENOUGH VENT HOSE FOR 495   |
|     | 1.3 |      |     |      | WATER COKE                 |
| 500 | .3  | 610  | .3  | 1    | 660 1.0 1.5                |
|     | .2  |      | .4  | 2    | 650 1.3 1.9                |
| 10  | .2  | 620  | 1.1 | 3    | 640 1.5 2.6                |
|     | .2  |      | 1.3 | 4    | 630 1.5 2.6                |
| 20  | .2  | 630  | 1.4 | 5    | 620 1.5 2.4                |
|     | .8  |      | 1.4 | 6    | 495 1.2 1.9                |
| 30  | .4  | 640  | 1.3 | 7    | 485 1.5 2.4                |
|     | .2  |      | 1.3 | 8    | 475 1.5 2.4                |
| 40  | .2  | 650  | 1.3 | 9    | 465 1.2 2.0                |
|     | .3  |      | 1.2 | 10   | 455 1.2 2.0                |
| 50  | .3  | 660  | .9  | 11   | 445 1.3 2.0                |
|     | .4  |      | .9  | 12   | 420 1.4 2.0                |
| 60  | .4  | 670  | .7  |      |                            |
|     | .4  |      | .5  |      | 11.5V 10A 1.16 ~           |
| 70  | .5  | 680  | .4  |      |                            |
|     | .5  |      | .5  |      |                            |
|     |     | 690  | .8  |      |                            |
|     |     | 698  | BOI |      |                            |