

1193

30-039-23952

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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 C Sec. 14 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #54A

cps 1895w

Elevation 6245' Completion Date 6/17/87 Total Depth 500' 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. 220' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 440', 410', 400', 390', 380', 365', 335', 325', 315', 305'

Depths vent pipes placed: N/A

Vent pipe perforations: 340'

Remarks: gb #1

**RECEIVED**

MAY 31 1991

OIL CON. DIV.

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.

Complete  
7-17-87

M-07-0238 (Rev. 10-82)

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

Drilling Log (Attach Hereto) ☐

Completion Date 6-17-87

|                                               |                                                    |                                   |                          |                                                                                           |
|-----------------------------------------------|----------------------------------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------|
| CPS #<br><u>1895</u><br><u>1902W</u>          | Well Name, Line or Plant:<br><u>S.J. 29-7 #54A</u> | Work Order #                      | Static:<br><u>.83 IV</u> | Ins. Union Check<br><input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad |
| Location<br><u>C14-29-7</u>                   | Anode Size<br><u>2" x 60"</u>                      | Anode Type<br><u>Duriron</u>      | Size Bit<br><u>6 3/4</u> |                                                                                           |
| Depth Drilled<br><u>500</u>                   | Depth Logged<br><u>475</u>                         | Drilling Rig Time<br><u>6 hrs</u> | Total Lbs. Coke Used     | Lost Circulation Mat'l Used                                                               |
| No. Sacks Mud Used                            |                                                    |                                   |                          |                                                                                           |
| Anode Depth<br>#1 <u>440</u>                  | #2 <u>410</u>                                      | #3 <u>400</u>                     | #4 <u>390</u>            | #5 <u>380</u>                                                                             |
| #6 <u>365</u>                                 | #7 <u>335</u>                                      | #8 <u>325</u>                     | #9 <u>315</u>            | #10 <u>305</u>                                                                            |
| Anode Output (Amps)<br>#1 <u>1.4</u>          | #2 <u>2.2</u>                                      | #3 <u>2.1</u>                     | #4 <u>2.7</u>            | #5 <u>1.6</u>                                                                             |
| #6 <u>1.4</u>                                 | #7 <u>1.9</u>                                      | #8 <u>2.6</u>                     | #9 <u>3.0</u>            | #10 <u>2.3</u>                                                                            |
| Anode Depth<br>#11                            | #12                                                | #13                               | #14                      | #15                                                                                       |
| #16                                           | #17                                                | #18                               | #19                      | #20                                                                                       |
| Anode Output (Amps)<br>#11                    | #12                                                | #13                               | #14                      | #15                                                                                       |
| #16                                           | #17                                                | #18                               | #19                      | #20                                                                                       |
| Total Circuit Resistance<br>Volts <u>12.4</u> | Amps <u>10</u>                                     | Ohms <u>1.24</u>                  | No. 8 C.P. Cable Used    | No. 2 C.P. Cable Used                                                                     |

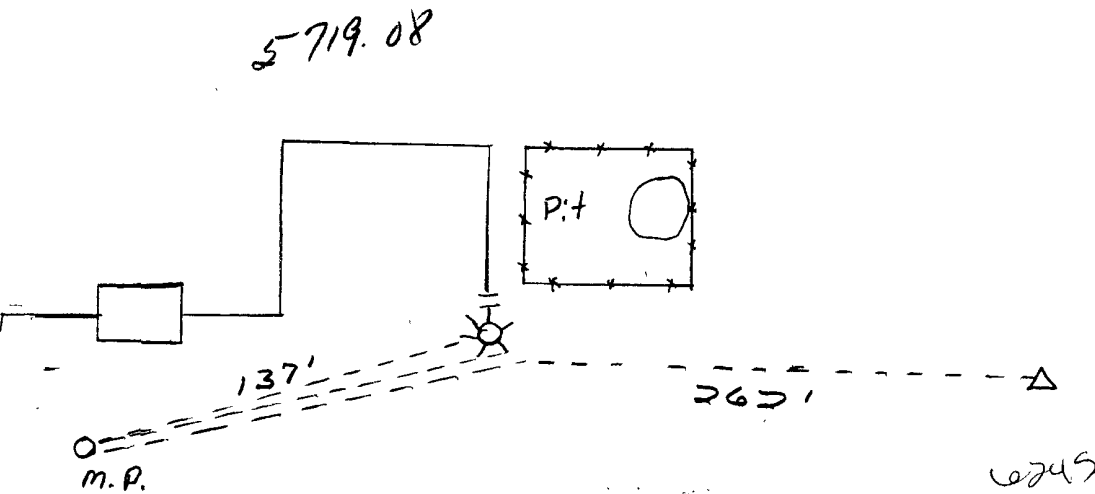
Remarks: Driller said water was at 220'  
Perforated cent pipe up to 160'  
Little shale above water, and lots  
of sand under water, did not log  
very good at all. Hole was starting to  
cave in at about 480'

Rectifier Size: 40 V 16 A  
Addn'l Depth  
Depth Credit: 25'  
Extra Cable: 304'  
Ditch & 1 Cable: 262'  
25' Meter Pole:  
20' Meter Pole: L  
10' Stub Pole:  
Junction Box:

All Construction Completed

Randy Smith  
(Signature)

GROUND BED LAYOUT SKETCH



# BURGE CORROSION SYSTEMS, INC.

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

CPS 1895 W

COMPANY Meridian Oil DAILY DRILLING REPORT June 17, 1987

|                             |                      |                |                       |             |
|-----------------------------|----------------------|----------------|-----------------------|-------------|
| WELL NAME:<br>San Juan 29-7 | WELL NUMBER:<br>54-A | SECTION:<br>14 | TOWNSHIP:<br>29       | RANGE:<br>7 |
| WATER AT:<br>110' and 220'  |                      | FEET:<br>500'  | HOLE MADE:<br>TD 475' |             |

## DESCRIPTION OF FORMATION

| FROM | TO  | FORMATION IS         | COLOR |
|------|-----|----------------------|-------|
| 0    | 50  | clay                 |       |
| 50   | 80  | sandstone            |       |
| 80   | 100 | shale                |       |
| 100  | 110 | sand-moisture        |       |
| 110  | 180 | sand-bentonite       |       |
| 180  | 220 | sand-shale           |       |
| 220  | 265 | sand-water           |       |
| 265  | 295 | sand with some shale |       |
| 295  | 325 | sandy shale          |       |
| 325  | 375 | sand                 |       |
| 375  | 410 | sand-shale streamers |       |
| 410  | 475 | sand                 |       |
| 475  | 500 | sand                 |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |
|      |     |                      |       |

REMARKS: Went to injection at 220'. Water was coming in so hard hole was starting to cave and the top was washing out.

*Brian E. Burge*

Driller

Tool Dresser

Date 6-17-87

## DEEP WELL GROUND BED LOG

Company MERIDIAN OIL

Well No. #54-A Location C14-29-7

- Volts Applied 12.4 Amperes 10.5[illegible]



CPS 18956

# API WATER ANALYSIS REPORT FORM

|                                                           |                                    |                                    |                             |
|-----------------------------------------------------------|------------------------------------|------------------------------------|-----------------------------|
| Company <u>Menden Oil Co.</u>                             |                                    | Sample No. <u>11-3-87</u>          | Date Sampled <u>6/17/87</u> |
| Field <u>G 14-29-7</u>                                    | Legal Description <u>C-14-29-7</u> | County or Parish <u>Rio Arriba</u> | State <u>NM</u>             |
| Lease or Unit                                             | Well <u>S.J. 29-7 #54A</u>         | Depth <u>220</u>                   | Formation <u>Ground bed</u> |
| Type of Water (Produced, Supply, etc.) <u>Ground bed.</u> | Sampling Point <u>220'</u>         |                                    | Sampled By <u>R.S.</u>      |

## DISSOLVED SOLIDS

### CATIONS

|                    | mg/l        | me/l        |
|--------------------|-------------|-------------|
| Sodium, Na (calc.) | <u>232</u>  | <u>10.1</u> |
| Calcium, Ca        | <u>57.5</u> | <u>2.9</u>  |
| Magnesium, Mg      | <u>11.3</u> | <u>6.0</u>  |
| Barium, Ba         |             |             |
|                    |             |             |
|                    |             |             |

### ANIONS

|                               |             |            |
|-------------------------------|-------------|------------|
| Chloride, Cl                  | <u>17.1</u> | <u>.5</u>  |
| Sulfate, SO <sub>4</sub>      | <u>413</u>  | <u>8.4</u> |
| Carbonate, CO <sub>3</sub>    | <u>0</u>    | <u>0</u>   |
| Bicarbonate, HCO <sub>3</sub> | <u>313</u>  | <u>5.1</u> |
| <u>hydroxide</u>              | <u>0</u>    | <u>0</u>   |

Total Dissolved Solids (calc.)

1040

Iron, Fe (total)

Sulfide, as H<sub>2</sub>S

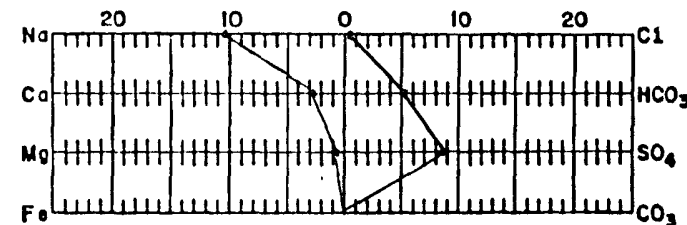
0

## OTHER PROPERTIES

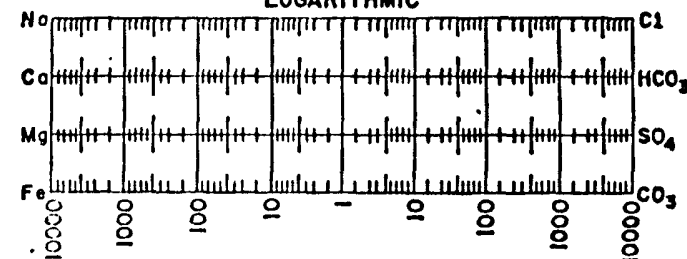
|                                       |               |
|---------------------------------------|---------------|
| pH                                    | <u>7.74</u>   |
| Specific Gravity, 60/60 F.            | <u>1.0175</u> |
| Resistivity (ohm-meters) <u>77°F.</u> | <u>10.50</u>  |
|                                       |               |
|                                       |               |

## WATER PATTERNS — me/l

### STANDARD



### LOGARITHMIC



REMARKS & RECOMMENDATIONS: