

624

30-039-24867

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

22460

Operator Mission Oil Inc Location: Unit A Sec. 24 Twp 30 Rng 6Name of Well/Wells or Pipeline Serviced San Juan 30-6 4488Elevation 6390 Completion Date 8-13-91 Total Depth 280 Land Type FCasing Strings, Sizes, Types & Depths 8" P.O.C. set to 100'If Casing Strings are cemented, show amounts & types used 23 sacks  
of neat cementIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
NoneDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. water is at 120' and 150' and  
is clearDepths gas encountered: no gasGround bed depth with type & amount of coke breeze used: 280' of  
loresco sw and Asbury 4578. Total of 36 sacksDepths anodes placed: #1 is at 245' and #15 is at 115'Depths vent pipes placed: 235'Vent pipe perforations: up to 110'

Remarks: \_\_\_\_\_

RECEIVED

FEB 24 1992

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.

## CPS GROUND BED CONSTRUCTION WORKSHEET

|                                                                                       |                                          |                |              |              |                 |                  |
|---------------------------------------------------------------------------------------|------------------------------------------|----------------|--------------|--------------|-----------------|------------------|
| CPS#<br>2246-W                                                                        | P/L NAME(s), NUMBER(s)<br>S J. 30-G #988 |                |              |              |                 |                  |
| WO #<br>L705                                                                          | TOTAL                                    | VOLTS<br>12.15 | AMPS<br>27.2 | - OHMS<br>55 | DATE<br>8-13-91 | NAME<br>R. Smith |
| REMARKS (notes for construction log)<br>420 at 125' bent pipe<br>is ported up to 110' |                                          |                |              |              |                 |                  |

| DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE |        |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|       | ANODE | *     |       | ANODE | *     |       | ANODE | *     |       | ANODE | *     |        |
| 100   | 4.2   |       | 295   |       |       | 490   |       |       | 685   |       |       |        |
| 105   | 3.4   |       | 300   |       |       | 495   |       |       | 690   |       |       |        |
| 110   | 3.1   |       | 305   |       |       | 500   |       |       | 695   |       |       |        |
| 115   | 2.8   | (12)  | 310   |       |       | 505   |       |       | 700   |       |       |        |
| 120   | 1.7   |       | 315   |       |       | 510   |       |       | ANODE | DEPTH | NO    | FULLY  |
| 125   | 1.1   |       | 320   |       |       | 515   |       |       | *     |       | COKE  | COKE D |
| 130   | 1.2   |       | 325   |       |       | 520   |       |       | 1     | 24.5  | 2.3   | 4.5    |
| 135   | 1.1   |       | 330   |       |       | 525   |       |       | 2     | 23.5  | 2.9   | 6.4    |
| 140   | 2.2   |       | 335   |       |       | 530   |       |       | 3     | 22.5  | 3.2   | 5.6    |
| 145   | 3.6   | (1)   | 340   |       |       | 535   |       |       | 4     | 21.5  | 3.9   | 6.6    |
| 150   | 4.5   |       | 345   |       |       | 540   |       |       | 5     | 20.5  | 2.8   | 5.4    |
| 155   | 4.5   | (10)  | 350   |       |       | 545   |       |       | 6     | 19.5  | 2.6   | 4.7    |
| 160   | 3.9   |       | 355   |       |       | 550   |       |       | 7     | 18.5  | 3.5   | 6.4    |
| 165   | 3.4   | (9)   | 360   |       |       | 555   |       |       | 8     | 17.5  | 4.0   | 7.2    |
| 170   | 3.7   |       | 365   |       |       | 560   |       |       | 9     | 16.5  | 3.7   | 7.4    |
| 175   | 4.1   | (8)   | 370   |       |       | 565   |       |       | 10    | 15.5  | 4.5   | 8.3    |
| 180   | 3.9   |       | 375   |       |       | 570   |       |       | 11    | 14.5  | 3.6   | 7.6    |
| 185   | 3.4   | (7)   | 380   |       |       | 575   |       |       | 12    | 11.5  | 2.7   | 5.2    |
| 190   | 2.5   |       | 385   |       |       | 580   |       |       | 13    |       |       |        |
| 195   | 2.6   | (6)   | 390   |       |       | 585   |       |       | 14    |       |       |        |
| 200   | 2.6   |       | 395   |       |       | 590   |       |       | 15    |       |       |        |
| 205   | 2.8   | (5)   | 400   |       |       | 595   |       |       | 16    |       |       |        |
| 210   | 3.2   | (4)   | 405   |       |       | 600   |       |       | 17    |       |       |        |
| 215   | 4.0   | (11)  | 410   |       |       | 605   |       |       | 18    |       |       |        |
| 220   | 3.2   |       | 415   |       |       | 610   |       |       | 19    |       |       |        |
| 225   | 3.1   | (3)   | 420   |       |       | 615   |       |       | 20    |       |       |        |
| 230   | 3.2   |       | 425   |       |       | 620   |       |       | 21    |       |       |        |
| 235   | 2.8   | (2)   | 430   |       |       | 625   |       |       | 22    |       |       |        |
| 240   | 2.4   |       | 435   |       |       | 630   |       |       | 23    |       |       |        |
| 245   | 2.0   | (1)   | 440   |       |       | 635   |       |       | 24    |       |       |        |
| 250   | 1.3   |       | 445   |       |       | 640   |       |       | 25    |       |       |        |
| 255   | 1.1   |       | 450   |       |       | 645   |       |       | 26    |       |       |        |
| 260   | 1.5   |       | 455   |       |       | 650   |       |       | 27    |       |       |        |
| 265   | 2.4   |       | 460   |       |       | 655   |       |       | 28    |       |       |        |
| 270   | 2.3   |       | 465   |       |       | 660   |       |       | 29    |       |       |        |
| 275   | 2.2   |       | 470   |       |       | 665   |       |       | 30    |       |       |        |
| 280   | TD    |       | 475   |       |       | 670   |       |       |       |       |       |        |
| 285   |       |       | 480   |       |       | 675   |       |       |       |       |       |        |
| 290   |       |       | 485   |       |       | 680   |       |       |       |       |       |        |

DISTRIBUTION - original - permanent CPS FILE  
 copy - Division Corrosion Supervisor  
 copy - Region Corrosion Specialist

# API WATER ANALYSIS REPORT FORM

 Laboratory No. 25910816-1G
22460

|                                                              |                                       |                                       |                                |                               |
|--------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------------|-------------------------------|
| Company<br><u>MERIDIAN OIL</u>                               |                                       | Sample No.<br><u>1</u>                | Date Sampled<br><u>8-12-91</u> |                               |
| Field<br><u>SJ 30-6</u>                                      | Legal Description<br><u>A 24-30-6</u> | County or Parish<br><u>RIO ARriba</u> | State<br><u>N.M.</u>           |                               |
| Lease or Unit<br><u>SJ 30-6</u>                              | Well<br><u>#488</u>                   | Depth<br><u>150'</u>                  | Formation<br><u>GR. BED</u>    | Water, B/D                    |
| Type of Water (Produced, Supply, etc.)<br><u>WATER TABLE</u> |                                       | Sampling Point                        |                                | Sampled By<br><u>R. SMITH</u> |

**DISSOLVED SOLIDS**
**CATIONS**

|                    | mg/l        | me/l       |
|--------------------|-------------|------------|
| Sodium, Na (calc.) | <u>4300</u> | <u>190</u> |
| Calcium, Ca        | <u>410</u>  | <u>0.2</u> |
| Magnesium, Mg      | <u>15</u>   | <u>1.2</u> |
| Barium, Ba         |             |            |
|                    |             |            |
|                    |             |            |

**OTHER PROPERTIES**

|                                        |               |
|----------------------------------------|---------------|
| pH                                     | <u>8.9</u>    |
| Specific Gravity, 60/60 F.             | <u>1.0115</u> |
| Resistivity (ohm-meters) <u>74' F.</u> | <u>0.75</u>   |
|                                        |               |
|                                        |               |

Total Dissolved Solids (calc.)

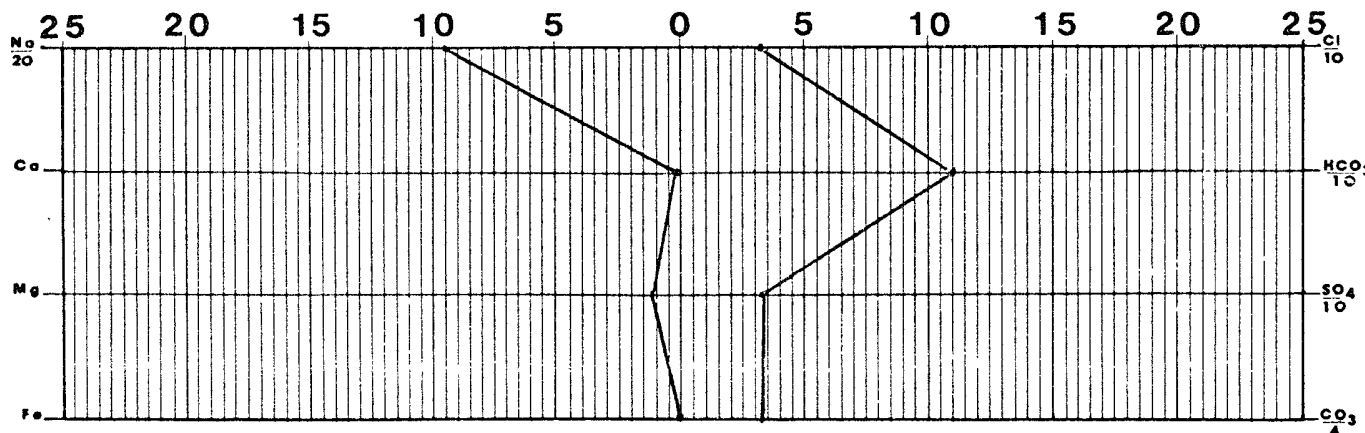
14,000
**ANIONS**

|                      |             |            |
|----------------------|-------------|------------|
| Chloride, Cl         | <u>1100</u> | <u>32</u>  |
| Sulfate, $SO_4$      | <u>1600</u> | <u>33</u>  |
| Carbonate, $CO_3$    | <u>390</u>  | <u>13</u>  |
| Bicarbonate, $HCO_3$ | <u>7000</u> | <u>110</u> |
|                      |             |            |
|                      |             |            |

 Iron, Fe (total)  
Sulfide, as  $H_2S$ 

 \_\_\_\_\_  
\_\_\_\_\_

REMARKS &amp; RECOMMENDATIONS:



|                                  |                        |                                  |                          |
|----------------------------------|------------------------|----------------------------------|--------------------------|
| Date Received<br><u>08/16/91</u> | Preserved<br><u>No</u> | Date Analyzed<br><u>08/16/91</u> | Analyzed By<br><u>ES</u> |
|----------------------------------|------------------------|----------------------------------|--------------------------|



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