

673

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO#14 30-045-23520  
#26 30-045-27459  
#7 30-045-60252  
23116Operator Meridian Oil Inc. Location: Unit H Sec. 7 Twp 31 Rng 9Name of Well/Wells or Pipeline Serviced Johnston Fed #7, #14, #26Elevation 6375 Completion Date 10-21-91 Total Depth 462 Land Type FCasing Strings, Sizes, Types & Depths Set 700' of 8" P.U.C.If Casing Strings are cemented, show amounts & types used 23 sacks  
of wet cementIf Cement or Bentonite Plugs have been placed, show depths & amounts used:  
No plugsDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. H<sub>2</sub>O is at 140' and clear.Depths gas encountered: No gasGround bed depth with type & amount of coke breeze used: 462' with  
70 sacks of Asbury 4518Depths anodes placed: #1 is at 390 & #12 is at 205'Depths vent pipes placed: Bottom to SurfaceVent pipe perforations: Vent pipe is perfed up to 160'

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

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-Free.  
If Federal or Indian, add Lease Number.

RECEIVED

FEB 24 1992

OIL CON. DIV.  
DIST. 3

## CPS GROUND BED CONSTRUCTION WORKSHEET

|                |                                                     |                |              |             |      |      |
|----------------|-----------------------------------------------------|----------------|--------------|-------------|------|------|
| CPS#<br>2311-W | P/L NAME(s), NUMBER(s)<br>Johnston Fed. #7, #14 #26 |                |              |             |      |      |
| ID #           | TOTAL                                               | VOLTS<br>12.03 | AMPS<br>22.0 | OHMS<br>.55 | DATE | NAME |

REMARKS (notes for construction log)

H<sub>2</sub>O at 140, Tent is  
perfected up to 140'

| DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |
| 100   |       |       | 295   | 1.4   |       | 490   |       |       | 685   |       |       |       |       |       |
| 105   |       |       | 300   | 1.0   |       | 495   |       |       | 690   |       |       |       |       |       |
| 110   |       |       | 305   | .9    |       | 500   |       |       | 695   |       |       |       |       |       |
| 115   |       |       | 310   | .8    |       | 505   |       |       | 700   |       |       |       |       |       |
| 120   |       |       | 315   | 1.0   |       | 510   |       |       | ANODE | DEPTH | NO    | FULLY |       |       |
| 125   |       |       | 320   | 1.7   |       | 515   |       |       | *     |       | COKE  | COKE  |       |       |
| 130   | 2.0   |       | 325   | 2.3   | 0     | 520   |       |       | 1     | 390   | 3.2   | 5.9   |       |       |
| 135   | 1.7   |       | 330   | 2.1   | 4     | 525   |       |       | 2     | 380   | 3.5   | 6.3   |       |       |
| 140   | 1.5   |       | 335   | 1.5   |       | 530   |       |       | 3     | 370   | 3.1   | 6.0   |       |       |
| 145   | 1.3   |       | 340   | 1.5   |       | 535   |       |       | 4     | 360   | 3.1   | 5.6   |       |       |
| 150   | 1.0   |       | 345   | 2.2   |       | 540   |       |       | 5     | 350   | 2.8   | 5.0   |       |       |
| 155   | 1.0   |       | 350   | 2.7   | (3)   | 545   |       |       | 6     | 345   | 2.4   | 4.6   |       |       |
| 160   | 1.1   |       | 355   | 2.2   |       | 550   |       |       | 7     | 330   | 2.7   | 5.4   |       |       |
| 165   | 1.1   |       | 360   | 3.0   | 4     | 555   |       |       | 8     | 320   | 4.0   | 6.4   |       |       |
| 170   | 1.0   |       | 365   | 3.1   |       | 560   |       |       | 9     | 310   | 3.6   | 5.8   |       |       |
| 175   | 1.1   |       | 370   | 2.8   | (3)   | 565   |       |       | 10    | 305   | 3.2   | 5.8   |       |       |
| 180   | 1.6   |       | 375   | 3.2   |       | 570   |       |       | 11    | 300   | 4.6   | 7.1   |       |       |
| 185   | 2.3   |       | 380   | 3.3   | (2)   | 575   |       |       | 12    | 295   | 2.7   | 5.6   |       |       |
| 190   | 2.4   |       | 385   | 2.2   |       | 580   |       |       | 13    |       |       |       |       |       |
| 195   | 2.3   |       | 390   | 2.9   | 0     | 585   |       |       | 14    |       |       |       |       |       |
| 200   | 2.2   |       | 395   | 2.5   |       | 590   |       |       | 15    |       |       |       |       |       |
| 205   | 2.5   | (12)  | 400   | 1.8   |       | 595   |       |       | 16    |       |       |       |       |       |
| 210   | 4.1   |       | 405   | .8    |       | 600   |       |       | 17    |       |       |       |       |       |
| 215   | 4.1   | (11)  | 410   | .7    |       | 605   |       |       | 18    |       |       |       |       |       |
| 220   | 3.1   |       | 415   | .6    |       | 610   |       |       | 19    |       |       |       |       |       |
| 225   | 2.9   | (10)  | 420   | .7    |       | 615   |       |       | 20    |       |       |       |       |       |
| 230   | 2.3   |       | 425   | .8    |       | 620   |       |       | 21    |       |       |       |       |       |
| 235   | 2.1   |       | 430   | .9    |       | 625   |       |       | 22    |       |       |       |       |       |
| 240   | 1.9   |       | 435   | 1.0   |       | 630   |       |       | 23    |       |       |       |       |       |
| 245   | 2.5   |       | 440   | 1.0   |       | 635   |       |       | 24    |       |       |       |       |       |
| 250   | 3.3   | (9)   | 445   | .9    |       | 640   |       |       | 25    |       |       |       |       |       |
| 255   | 3.4   |       | 450   | 1.0   |       | 645   |       |       | 26    |       |       |       |       |       |
| 260   | 3.7   | (8)   | 455   | .7    |       | 650   |       |       | 27    |       |       |       |       |       |
| 265   | 3.2   |       | 460   | 10462 |       | 655   |       |       | 28    |       |       |       |       |       |
| 270   | 2.5   | (7)   | 465   |       |       | 660   |       |       | 29    |       |       |       |       |       |
| 275   | 2.2   |       | 470   |       |       | 665   |       |       | 30    |       |       |       |       |       |
| 280   | 1.9   |       | 475   |       |       | 670   |       |       |       |       |       |       |       |       |
| 285   | 1.5   |       | 480   |       |       | 675   |       |       |       |       |       |       |       |       |
| 290   | 1.5   |       | 485   |       |       | 680   |       |       |       |       |       |       |       |       |

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

# API WATER ANALYSIS REPORT FORM

Laboratory No. 25-911108-11K

|                                        |  |                                          |  |                                     |  |
|----------------------------------------|--|------------------------------------------|--|-------------------------------------|--|
| Company<br><b>MERIDIAN</b>             |  | Sample No.                               |  | Date Sampled<br><b>10-21-91</b>     |  |
| Field<br><b>2311W</b>                  |  | Legal Description<br><b>H 7 - 31 - 9</b> |  | County or Parish<br><b>San Juan</b> |  |
| Lease or Unit                          |  | Well<br><b>JOHNSTON FLD #7</b>           |  | Depth                               |  |
|                                        |  |                                          |  | Formation<br><b>Ground Bed</b>      |  |
| Type of Water (Produced, Supply, etc.) |  | Sampling Point<br><b>Water Table</b>     |  | Water, B/D                          |  |
|                                        |  |                                          |  | Sampled By<br><b>R. Smith</b>       |  |

## DISSOLVED SOLIDS

### CATIONS

|                    | mg/l  | me/l |
|--------------------|-------|------|
| Sodium, Na (calc.) | 3,860 | 168  |
| Calcium, Ca        | 19    | 0.95 |
| Magnesium, Mg      | 14    | 1.15 |
| Barium, Ba         |       |      |
|                    |       |      |
|                    |       |      |

## OTHER PROPERTIES

|                                  |        |
|----------------------------------|--------|
| pH                               | 8.42   |
| Specific Gravity, 60/60 F.       | 1.0102 |
| Resistivity (ohm-meters) @ 68 F. | 0.95   |
|                                  |        |
|                                  |        |

Total Dissolved Solids (calc.)

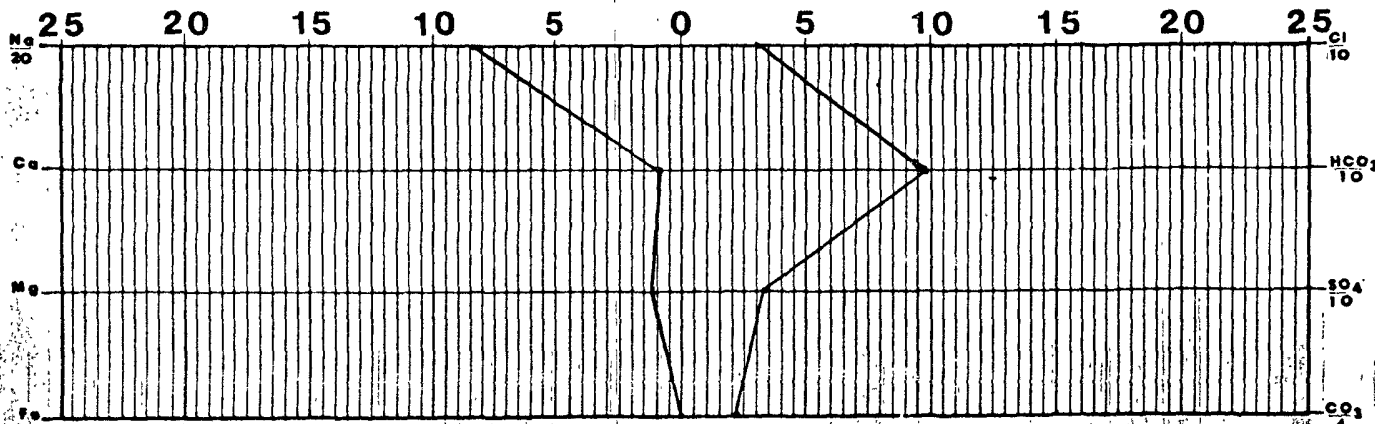
12,800

### ANIONS

|                      |       |      |
|----------------------|-------|------|
| Chloride, Cl         | 1,100 | 31   |
| Sulfate, $SO_4$      | 1,570 | 32.8 |
| Carbonate, $CO_3$    | 260   | 8.7  |
| Bicarbonate, $HCO_3$ | 5,940 | 97.3 |
|                      |       |      |
|                      |       |      |

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

## REMARKS & RECOMMENDATIONS:



|                                       |           |                                        |                            |
|---------------------------------------|-----------|----------------------------------------|----------------------------|
| Date Received<br><b>8th Nov, 1991</b> | Preserved | Date Analyzed<br><b>27th Dec, 1991</b> | Analyzed By<br><b>R.H.</b> |
|---------------------------------------|-----------|----------------------------------------|----------------------------|



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