

576

101-30-045-27251

2-30-045-23049

2185

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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator MERIDIAN OIL Location: Unit N Sec. 14 Twp 32 Rng 11Name of Well/Wells or Pipeline Serviced MADDOX & WALLER # 101 & # 2Elevation 6310 Completion Date 9-27-91 Total Depth 334 Land Type FCasing Strings, Sizes, Types & Depths 8" PVC SURFACE CASING  
100' DEEPIf Casing Strings are cemented, show amounts & types used YES with  
22 BAGS. NEAT CEMENTIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
NO.Depths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. Fresh 100'Depths gas encountered: NOGround bed depth with type & amount of coke breeze used: 334' with  
4200 lbs. Horesco Type SWDepths anodes placed: 310, 300, 290, 280, 265, 255, 245, 190, 180, 170, 160, 15Depths vent pipes placed: 334'Vent pipe perforations: bottom 190'

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# 2105-W                                        |       | P/L NAME(s), NUMBER(s) MADDOX Waller #101, #2 |           |           |              |          |  |
| * I339                                             | TOTAL | VOLTS 12.01                                   | AMPS 25.2 | - OHMS 48 | DATE 9-27-91 | NAME MRW |  |
| REMARKS (notes for construction log)               |       |                                               |           |           |              |          |  |
| WATER AT 100' CAUGHT SAMPLE                        |       |                                               |           |           |              |          |  |
| BEST Circulation 160', Drilled 345' Logged 334'    |       |                                               |           |           |              |          |  |
| INSTALLED 330' 1" VENT PIPE PERFORATED BOTTOM 190' |       |                                               |           |           |              |          |  |
| 42 BAGS LORESCO Type SW                            |       |                                               |           |           |              |          |  |

| DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # |       |
|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|-------|
| 100   | 5.2       |         | 295   | 3.8       |         | 490   |           |         | 685   |           |         |       |
| 105   | 4.8       |         | 300   | 3.4       |         | 495   |           |         | 690   |           |         |       |
| 110   | 4.4       |         | 305   | 3.2       |         | 500   |           |         | 695   |           |         |       |
| 115   | 4.2       |         | 310   | 3.3       |         | 505   |           |         | 700   |           |         |       |
| 120   | 4.9       |         | 315   | 3.5       |         | 510   |           |         | ANODE | DEPTH     | NO      | FULLY |
| 125   | 3.9       |         | 320   | 3.0       |         | 515   |           |         | *     |           | COKE    | COK'D |
| 130   | 3.9       |         | 325   | 3.1       |         | 520   |           |         | 1     | 310       | 3.3     | 5.6   |
| 135   | 3.7       |         | 330   | TD        | 334     | 525   |           |         | 2     | 300       | 3.4     | 5.7   |
| 140   | 3.2       |         | 335   |           |         | 530   |           |         | 3     | 290       | 4.3     | 6.1   |
| 145   | 4.9       |         | 340   |           |         | 535   |           |         | 4     | 280       | 3.8     | 5.5   |
| 150   | 4.9       |         | 345   |           |         | 540   |           |         | 5     | 265       | 3.8     | 5.3   |
| 155   | 4.6       |         | 350   |           |         | 545   |           |         | 6     | 255       | 5.2     | 6.8   |
| 160   | 4.8       |         | 355   |           |         | 550   |           |         | 7     | 245       | 4.8     | 6.3   |
| 165   | 4.3       |         | 360   |           |         | 555   |           |         | 8     | 190       | 3.2     | 4.7   |
| 170   | 4.8       |         | 365   |           |         | 560   |           |         | 9     | 180       | 4.7     | 6.3   |
| 175   | 5.4       |         | 370   |           |         | 565   |           |         | 10    | 170       | 5.0     | 7.6   |
| 180   | 3.9       |         | 375   |           |         | 570   |           |         | 11    | 160       | 4.8     | 8.2   |
| 185   | 3.3       |         | 380   |           |         | 575   |           |         | 12    | 150       | 4.9     | 8.2   |
| 190   | 3.2       |         | 385   |           |         | 580   |           |         | 13    |           |         |       |
| 195   | 2.8       |         | 390   |           |         | 585   |           |         | 14    |           |         |       |
| 200   | 2.0       |         | 395   |           |         | 590   |           |         | 15    |           |         |       |
| 205   | 1.8       |         | 400   |           |         | 595   |           |         | 16    |           |         |       |
| 210   | 1.7       |         | 405   |           |         | 600   |           |         | 17    |           |         |       |
| 215   | 1.7       |         | 410   |           |         | 605   |           |         | 18    |           |         |       |
| 220   | 1.7       |         | 415   |           |         | 610   |           |         | 19    |           |         |       |
| 225   | 1.9       |         | 420   |           |         | 615   |           |         | 20    |           |         |       |
| 230   | 2.4       |         | 425   |           |         | 620   |           |         | 21    |           |         |       |
| 235   | 2.2       |         | 430   |           |         | 625   |           |         | 22    |           |         |       |
| 240   | 2.3       |         | 435   |           |         | 630   |           |         | 23    |           |         |       |
| 245   | 3.8       |         | 440   |           |         | 635   |           |         | 24    |           |         |       |
| 250   | 5.1       |         | 445   |           |         | 640   |           |         | 25    |           |         |       |
| 255   | 4.8       |         | 450   |           |         | 645   |           |         | 26    |           |         |       |
| 260   | 3.6       |         | 455   |           |         | 650   |           |         | 27    |           |         |       |
| 265   | 3.8       |         | 460   |           |         | 655   |           |         | 28    |           |         |       |
| 270   | 3.1       |         | 465   |           |         | 660   |           |         | 29    |           |         |       |
| 275   | 3.5       |         | 470   |           |         | 665   |           |         | 30    |           |         |       |
| 280   | 3.8       |         | 475   |           |         | 670   |           |         |       |           |         |       |
| 285   | 3.7       |         | 480   |           |         | 675   |           |         |       |           |         |       |
| 290   | 4.2       |         | 485   |           |         | 680   |           |         |       |           |         |       |

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

# API WATER ANALYSIS REPORT FORM

 Laboratory No 25-91108-12

|                                        |                                       |                                     |                                |                          |
|----------------------------------------|---------------------------------------|-------------------------------------|--------------------------------|--------------------------|
| Company<br><u>Meridian</u>             |                                       | Sample No.                          | Date Sampled<br><u>9-27-91</u> |                          |
| Field<br><u>2185W</u>                  | Legal Description<br><u>N-14-32-N</u> | County or Parish<br><u>San Juan</u> | State<br><u>NM</u>             |                          |
| Lease or Unit                          | Well<br><u>MADDOX WALKER #101</u>     | Depth<br><u>100'</u>                | Formation<br><u>FC</u>         | Water, B/D               |
| Type of Water (Produced, Supply, etc.) |                                       | Sampling Point<br><u>Ground Rod</u> |                                | Sampled By<br><u>MRW</u> |

## DISSOLVED SOLIDS

| CATIONS            | mg/l         | me/l        |
|--------------------|--------------|-------------|
| Sodium, Na (calc.) | <u>2,480</u> | <u>108</u>  |
| Calcium, Ca        | <u>15</u>    | <u>0.75</u> |
| Magnesium, Mg      | <u>20.7</u>  | <u>1.7</u>  |
| Barium, Ba         |              |             |
|                    |              |             |
|                    |              |             |

## OTHER PROPERTIES

|                                       |               |
|---------------------------------------|---------------|
| pH                                    | <u>8.10</u>   |
| Specific Gravity, 60/60 F.            | <u>1.0084</u> |
| Resistivity (ohm-meters) <u>68</u> F. | <u>1.5</u>    |
|                                       |               |
|                                       |               |

Total Dissolved Solids (calc.)

8,500

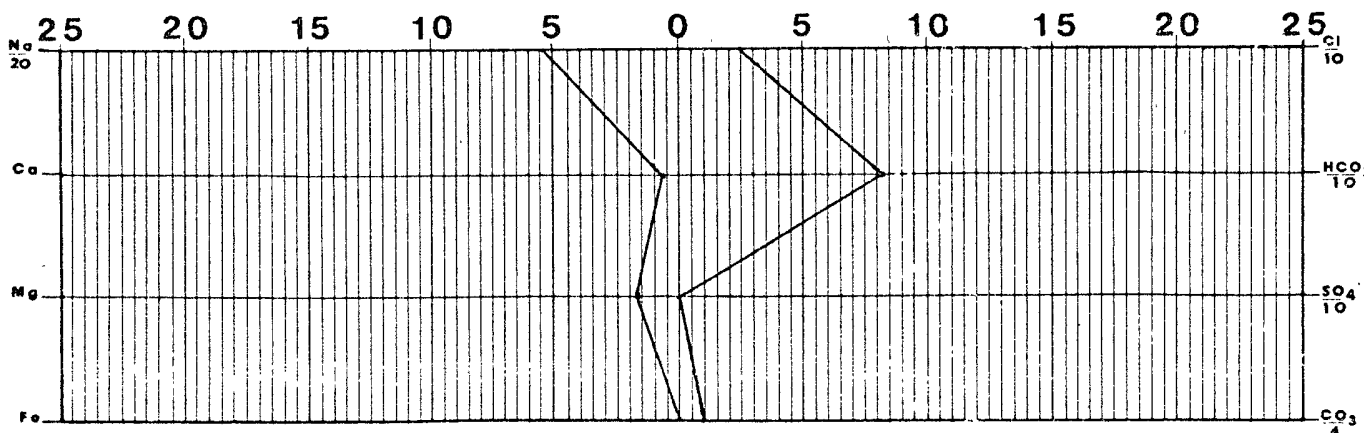
## ANIONS

|                               |              |             |
|-------------------------------|--------------|-------------|
| Chloride, Cl                  | <u>872</u>   | <u>24.6</u> |
| Sulfate, SO <sub>4</sub>      | <u>-</u>     | <u>-</u>    |
| Carbonate, CO <sub>3</sub>    | <u>170</u>   | <u>4</u>    |
| Bicarbonate, HCO <sub>3</sub> | <u>4,950</u> | <u>81.8</u> |
|                               |              |             |
|                               |              |             |

Iron, Fe (total)

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

REMARKS &amp; RECOMMENDATIONS:



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



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