

710

#3 30-045-10683  
#336 30-045-27658  
6235W

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

Operator Meridian Oil Location: Unit N Sec. 17 Twp 31 Rng 8

Name of Well/Well's or Pipeline Serviced Quinn #3 and Quinn #336

Elevation 6532' Completion Date 8-1-91 Total Depth 455' Land Type F

Casing Strings, Sizes, Types & Depths 100' 8" PVC

If Casing Strings are cemented, show amounts & types used yes - 20 sacks

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
None

Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 135' - Fresh

RECEIVED  
FEB 24 1992

Depths gas encountered: None OIL CON. DIV. DIST. 3

Ground bed depth with type & amount of coke breeze used: 4.55' Asbury

Depths anodes placed: #1-425' #2-415' #3-405' #4-395' #5-385' #6-375' #7-365' #8-355' #9-345' #10-335' #11-325' #12-300'

Depths vent pipes placed: 455' to surface

Vent pipe perforations: 455' to 65'

Remarks: No gas encountered in drilling of hole. More water making in hole at 260'

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# 6235-W | P/L NAME(S), NUMBER(S): Quinn #336 + Quinn #3 |       |      |        |        |                |
| WO # M315   | TOTAL                                         | VOLTS | AMPS | - OHMS | DATE   | NAME           |
|             |                                               | 12.6  | 14.5 | .86    | 8-1-91 | Don D Ashworth |

REMARKS (notes for construction log)

|           |
|-----------|
| 135 260   |
| 380' Perf |

| DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE | DEPTH | LOG   | ANODE |        |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |       | ANODE | #     |        |
| 100   |       |       | 295   | 1.2   |       | 490   |       |       | 685   |       |       |        |
| 105   |       |       | 300   | 1.7   | 12    | 495   |       |       | 690   |       |       |        |
| 110   |       |       | 305   | 1.3   |       | 500   |       |       | 695   |       |       |        |
| 115   |       |       | 310   | 1.1   |       | 505   |       |       | 700   |       |       |        |
| 120   |       |       | 315   | 1.0   |       | 510   |       |       | ANODE | DEPTH | NO.   | FULLY  |
| 125   |       |       | 320   | 1.0   |       | 515   |       |       | *     |       | COKE  | COKE'D |
| 130   |       |       | 325   | 1.1   | 11    | 520   |       |       | 1     | 425   | 1.9   | 4.4    |
| 135   |       |       | 330   | 1.7   |       | 525   |       |       | 2     | 415   | 2.3   | 4.8    |
| 140   |       |       | 335   | 2.2   | 10    | 530   |       |       | 3     | 405   | 2.4   | 5.1    |
| 145   |       |       | 340   | 2.3   |       | 535   |       |       | 4     | 395   | 2.4   | 4.4    |
| 150   |       |       | 345   | 1.9   | 9     | 540   |       |       | 5     | 385   | 2.0   | 4.3    |
| 155   |       |       | 350   | 1.7   |       | 545   |       |       | 6     | 375   | 1.9   | 4.3    |
| 160   |       |       | 355   | 2.0   | 8     | 550   |       |       | 7     | 365   | 2.1   | 4.3    |
| 165   |       |       | 360   | 2.0   |       | 555   |       |       | 8     | 355   | 1.9   | 4.1    |
| 170   |       |       | 365   | 1.8   | 7     | 560   |       |       | 9     | 345   | 2.2   | 4.4    |
| 175   |       |       | 370   | 1.5   |       | 565   |       |       | 10    | 335   | 2.0   | 4.0    |
| 180   |       |       | 375   | 1.6   | 6     | 570   |       |       | 11    | 325   | 1.9   | 3.9    |
| 185   | 1.5   |       | 380   | 2.1   |       | 575   |       |       | 12    | 300   | 1.7   | 3.6    |
| 190   | 1.0   |       | 385   | 2.2   | 5     | 580   |       |       | 13    |       |       |        |
| 195   | 1.6   |       | 390   | 2.3   |       | 585   |       |       | 14    |       |       |        |
| 200   | 1.5   |       | 395   | 2.3   | 4     | 590   |       |       | 15    |       |       |        |
| 205   | 1.5   |       | 400   | 2.3   |       | 595   |       |       | 16    |       |       |        |
| 210   | 1.5   |       | 405   | 2.4   | 3     | 600   |       |       | 17    |       |       |        |
| 215   | 1.6   |       | 410   | 2.2   |       | 605   |       |       | 18    |       |       |        |
| 220   | 1.5   |       | 415   | 2.2   | 2     | 610   |       |       | 19    |       |       |        |
| 225   | 1.5   |       | 420   | 2.1   |       | 615   |       |       | 20    |       |       |        |
| 230   | 1.5   |       | 425   | 1.6   | 1     | 620   |       |       | 21    |       |       |        |
| 235   | 1.5   |       | 430   | 1.2   |       | 625   |       |       | 22    |       |       |        |
| 240   | 1.5   |       | 435   | 1.1   |       | 630   |       |       | 23    |       |       |        |
| 245   | 1.6   |       | 440   | 1.3   |       | 635   |       |       | 24    |       |       |        |
| 250   | 1.6   |       | 445   | 1.4   |       | 640   |       |       | 25    |       |       |        |
| 255   | 1.6   |       | 450   | 1.4   |       | 645   |       |       | 26    |       |       |        |
| 260   | 1.6   |       | 455   | 1.455 |       | 650   |       |       | 27    |       |       |        |
| 265   | 1.9   |       | 460   |       |       | 655   |       |       | 28    |       |       |        |
| 270   | 1.9   |       | 465   |       |       | 660   |       |       | 29    |       |       |        |
| 275   | 1.1   |       | 470   |       |       | 665   |       |       | 30    |       |       |        |
| 280   | 1.2   |       | 475   |       |       | 670   |       |       |       |       |       |        |
| 285   | 1.2   |       | 480   |       |       | 675   |       |       |       |       |       |        |
| 290   | 1.1   |       | 485   |       |       | 680   |       |       |       |       |       |        |

DISTRIBUTION - original - permanent CPS FILE

copy - Division Correction Supervisor

copy - Region Correction Specialist

## API WATER ANALYSIS REPORT FORM

6235-W

Laboratory No. 25910808-1E

|                                                                      |  |                                        |  |                                     |  |
|----------------------------------------------------------------------|--|----------------------------------------|--|-------------------------------------|--|
| Company<br><b>MERIDIAN OIL</b>                                       |  | Sample No.                             |  | Date Sampled<br><b>8-1-91</b>       |  |
| Field                                                                |  | Legal Description<br><b>N-17, 31-8</b> |  | County or Parish<br><b>SAN JUAN</b> |  |
| Lease or Unit                                                        |  | Well<br><b>QUINN #336</b>              |  | Depth                               |  |
| Type of Water (Produced, Supply, etc.)<br><b>CATHODIC PROTECTION</b> |  | Sampling Point                         |  | Formation<br><b>GR. BED</b>         |  |
|                                                                      |  |                                        |  | Water, B/D                          |  |
|                                                                      |  |                                        |  | Sampled By<br><b>D. ASHWORTH</b>    |  |

## DISSOLVED SOLIDS

## CATIONS

|                    | mg/l        | me/l       |
|--------------------|-------------|------------|
| Sodium, Na (calc.) | <u>5600</u> | <u>240</u> |
| Calcium, Ca        | <u>12</u>   | <u>0.6</u> |
| Magnesium, Mg      | <u>36</u>   | <u>3.0</u> |
| Barium, Ba         |             |            |
|                    |             |            |
|                    |             |            |

## ANIONS

|                      |               |             |
|----------------------|---------------|-------------|
| Chloride, Cl         | <u>1300</u>   | <u>38</u>   |
| Sulfate, $SO_4$      | <u>2.9</u>    | <u>1.06</u> |
| Carbonate, $CO_3$    | <u>530</u>    | <u>18</u>   |
| Bicarbonate, $HCO_3$ | <u>11,000</u> | <u>190</u>  |
|                      |               |             |
|                      |               |             |

## OTHER PROPERTIES

|                                       |               |
|---------------------------------------|---------------|
| pH                                    | <u>8.7</u>    |
| Specific Gravity, 60/60 F.            | <u>1.0124</u> |
| Resistivity (ohm-meters) <u>69</u> F. | <u>0.65</u>   |
|                                       |               |
|                                       |               |

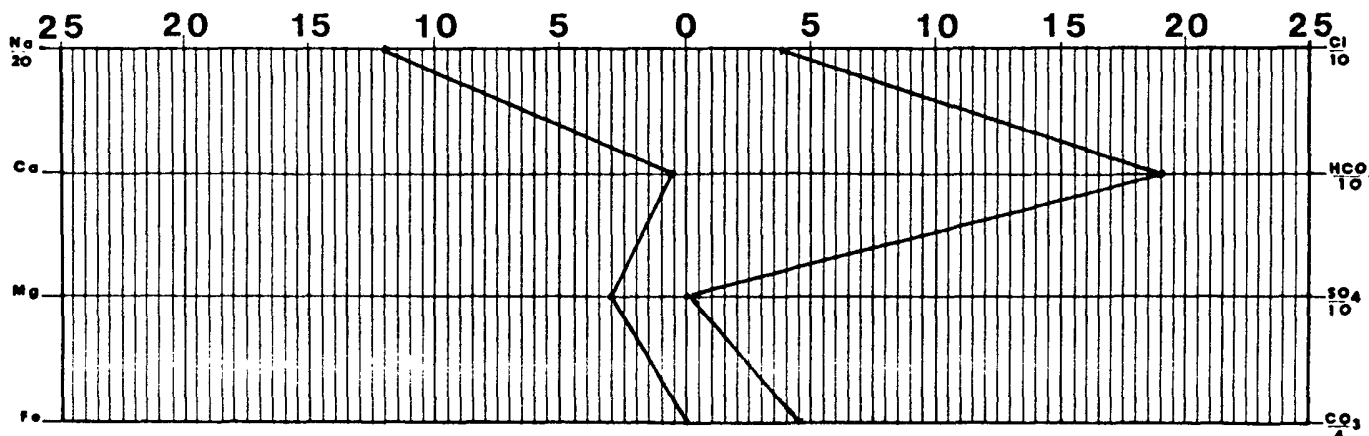
Total Dissolved Solids (calc.)

18,000

Iron, Fe (total)

Sulfide, as  $H_2S$ 

REMARKS &amp; RECOMMENDATIONS:



|                       |                        |                                |                          |
|-----------------------|------------------------|--------------------------------|--------------------------|
| Date<br><b>8/8/91</b> | Preserved<br><b>No</b> | Date Analyze<br><b>8/12/91</b> | Analyzed By<br><b>ES</b> |
|-----------------------|------------------------|--------------------------------|--------------------------|



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