

#2A 30-045-22453

#5 30-045-20449

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit E Sec. 30 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

Pierce #2A AND #5Elevation \_\_\_\_\_ Completion Date 4/22/93 Total Depth 400' Land Type FCasing Strings, Sizes, Types & Depths 4 1/2" SET 92' OF 8" PVC CASING.NO GAS OR WATER, BUT 54' (35'-89') OF BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 38 SACKS. Added 10 sacks on 4/20/93

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used

None

Depths &amp; thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. 100' clearDepths gas encountered: NoneGround bed depth with type & amount of coke breeze used: 392', 35 bagslorosco type SW coke & 38 bags Asbury, grade 4518.Depths anodes placed: 370, 360, 335, 305, 295, 285, 270, 260, 250,215, 205, 190, 180, 160, 150Depths vent pipes placed: 392'Vent pipe perforations: Bottom 290'

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

RECEIVED

JAN 31 1994

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.

# API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930520-2F

|                                        |  |                                 |  |                             |  |
|----------------------------------------|--|---------------------------------|--|-----------------------------|--|
| Company<br>MERIDIAN CAL                |  | Sample No.                      |  | Date Sampled<br>4-22-93     |  |
| Field<br>5087 W                        |  | Legal Description<br>E 30 31 10 |  | County or Parish<br>State   |  |
| Lease or Unit<br>S218                  |  | Well<br>Pierce 2A & 5           |  | Depth                       |  |
|                                        |  |                                 |  | Formation                   |  |
| Type of Water (Produced, Supply, etc.) |  | Sampling Point                  |  | Water, B/D                  |  |
|                                        |  |                                 |  | Sampled By<br>Dennis Torres |  |

## DISSOLVED SOLIDS

| CATIONS            | mg/l | me/l |
|--------------------|------|------|
| Sodium, Na (calc.) | 1600 | 70   |
| Calcium, Ca        | 140  | 7.0  |
| Magnesium, Mg      | 15   | 1.2  |
| Barium, Ba         |      |      |
|                    |      |      |
|                    |      |      |

## OTHER PROPERTIES

|                                      |        |
|--------------------------------------|--------|
| pH                                   | 8.03   |
| Specific Gravity, 60/60 F.           | 1.0067 |
| Resistivity (ohm-meters) $\times$ F. | 1.5    |
|                                      |        |
|                                      |        |

Total Dissolved Solids (calc.)

5,500

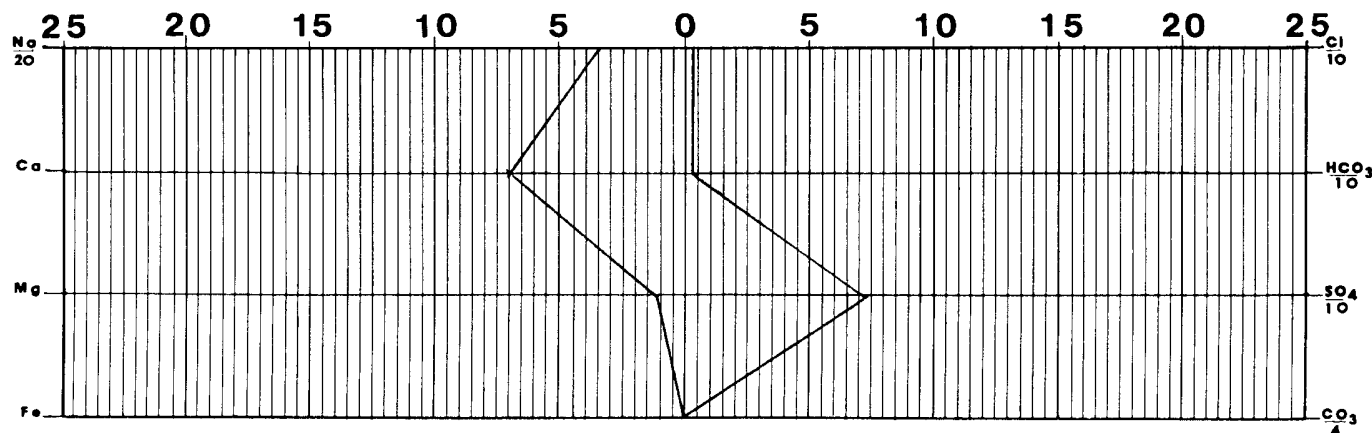
## ANIONS

|                      |      |     |
|----------------------|------|-----|
| Chloride, Cl         | 100  | 3.0 |
| Sulfate, $SO_4$      | 3500 | 7.3 |
| Carbonate, $CO_3$    | -    | -   |
| Bicarbonate, $HCO_3$ | 160  | 2.6 |
|                      |      |     |
|                      |      |     |

Iron, Fe (total)

Sulfide, as  $H_2S$

REMARKS & RECOMMENDATIONS



|                                 |           |                                  |                     |
|---------------------------------|-----------|----------------------------------|---------------------|
| Date Received<br>May 20th, 1993 | Preserved | Date Analyzed<br>June 12th, 1993 | Analyzed By<br>R.H. |
|---------------------------------|-----------|----------------------------------|---------------------|



**TECH, Inc.**  
333 East Main  
Farmington  
New Mexico  
87401  
505/327-3311