

#2A 30-045-22109

#6 30-045-20541

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

Operator Meridian Oil Co. Location: Unit C Sec. 19 Twp 31 Rng 10

Name of Well/Wells or Pipeline Serviced _____

Crandell #2A AND #6

Elevation _____ Completion Date 4-4-93 Total Depth 375' Land Type P

Casing Strings, Sizes, Types & Depths 12 1/2 SET 98' OF 8" PVC CASING.

NO WATER, OR GAS, BUT 38' OF RIVER BOULDERS WERE ENCOUNTERED DURING CASING.

If Casing Strings are cemented, show amounts & types used Cemented

WITH 26 SACKS

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

N/A

Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 120' Fresh

Depths gas encountered: NONE

Ground bed depth with type & amount of coke breeze used: 375'

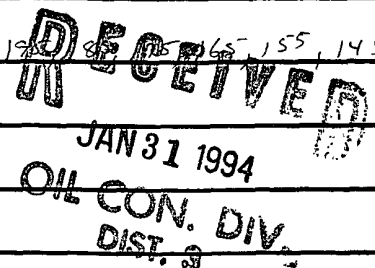
52 SACKS OF Luresco

Depths anodes placed: 325', 300', 285', 275', 265', 255', 245', 235', 225', 195', 185', 175', 165', 155', 145'

Depths vent pipes placed: 375'

Vent pipe perforations: Bottom 255'

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

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930417-1K

Company MERIDIAN OIL		Sample No.	Date Sampled 4/4/93	
Field 4139W	Legal Description	County or Parish	State	
Lease or Unit CRANDALL	Well #2A & #6	Depth	Formation	Water, B/D
Type of Water (Produced, Supply, etc.)		Sampling Point Groundbed		Sampled By K. Bishop

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	1900	84
Calcium, Ca	387	19.3
Magnesium, Mg	2	0.2
Barium, Ba		

ANIONS

Chloride, Cl	78	2.2
Sulfate, SO_4	4900	100
Carbonate, CO_3	20	0.6
Bicarbonate, HCO_3		

OTHER PROPERTIES

pH	9.6
Specific Gravity, 60/60 F.	1.0102
Resistivity (ohm-meters) 76 F.	1.25

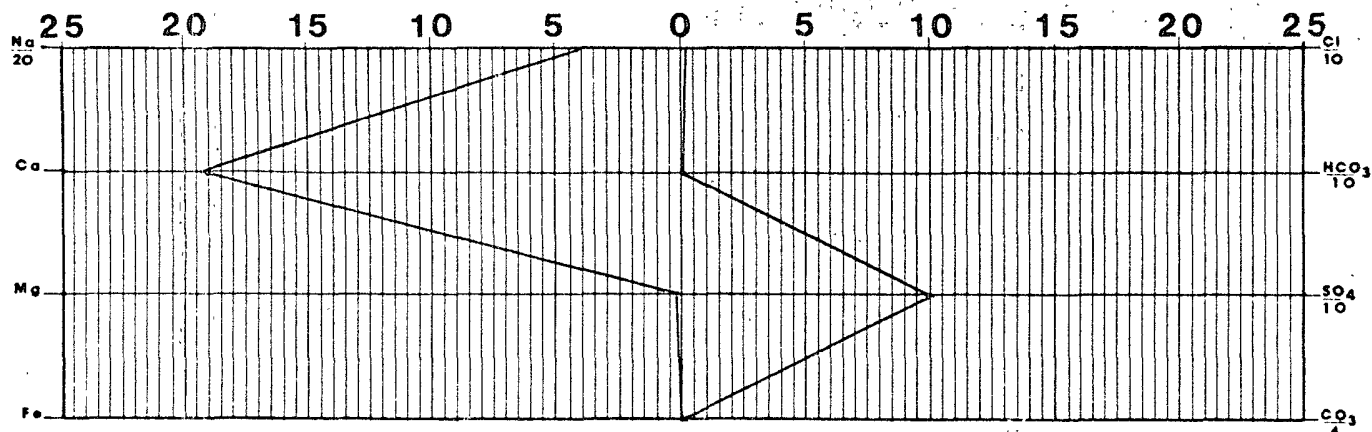
Total Dissolved Solids (calc.)

7300

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:



Date Received April 17, 1993	Preserved	Date Analyzed May 20, 1993	Analyzed By R.H.
--	-----------	--------------------------------------	----------------------------



TECH, Inc.

333 East Main

Farmington

New Mexico

87401

505/327-3311