

#16 30-045-11800
#109 30-045-27303

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

Operator Meridian Oil Co. Location: Unit K Sec. 32 Twp 32 Rng 12

Name of Well/Wells or Pipeline Serviced _____

Culpepper MARTIN #109 AND #10

Elevation _____ Completion Date 4-8-93 Total Depth 335' Land Type P

Casing Strings, Sizes, Types & Depths 3 1/2" SET 98' OF 8" PVC CASING.

NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.

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

WITH 19 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' - Not enough to take a sample. Hit main

Water at 300' - Fresh but could smell a little sulphur

Depths gas encountered: Little gas at 300'

Ground bed depth with type & amount of coke breeze used: 335'

Loresco - 4200/lbs

Depths anodes placed: #1-320, 310, 300, 290, 280, 270, 260, 250, 240, 230, 220, 210, 200, 190, 180

Depths vent pipes placed: From surface to 335'

Vent pipe perforations: From 135' to 335'

Remarks: When the main water was drilled into at 300', a sulphur smelling gas could be detected. Returned 4 days after hole had been filled with coke and no gas could be smelled.

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
JAN 31 1994
OIL CON. DIV.
DIST. #

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930417-16

Company MERIDIAN OIL		Sample No.		Date Sampled 4-2-93	
Field 4011 W		Legal Description		County or Parish San Juan	
Lease or Unit		Well Culpepper Mon #109, 10		Depth 300'	
Type of Water (Produced, Supply, etc.)		Formation		Water, B/D	
Sampling Point C. P. Groundwater		Sampled By D. Ashworth			

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	3500	150
Calcium, Ca	653	32.6
Magnesium, Mg	2	0.2
Barium, Ba		

ANIONS

Chloride, Cl	6200	120
Sulfate, SO_4	-	-
Carbonate, CO_3	-	-
Bicarbonate, HCO_3	20	3

OTHER PROPERTIES

pH	6.80
Specific Gravity, 60/60 F.	1.0106
Resistivity (ohm-meters) 71 F.	0.6

Total Dissolved Solids (calc.)

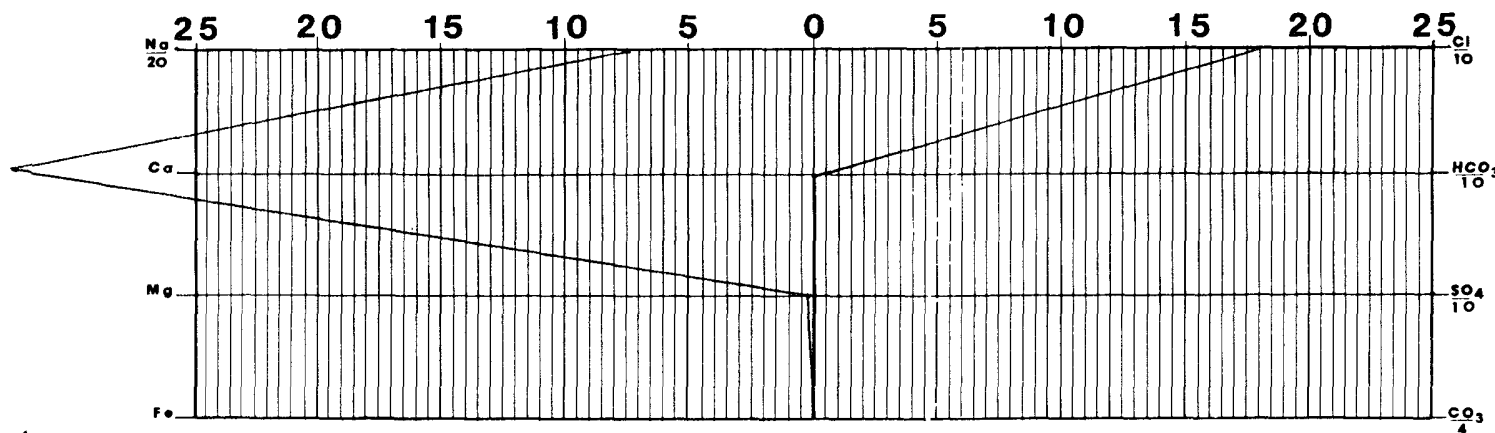
10,300

Iron, Fe (total)

Sulfide, as H_2S

REMARKS & RECOMMENDATIONS:

ATTN: BILL DONOHUE



Date Received April 17th, 1993	Preserved	Date Analyzed April 24th, 1993	Analyzed By R.H.
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TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

#2 30-045-11224

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

Operator Meridian Oil INC. Location: Unit P Sec. 30 Twp 32 Rng 12

Name of Well/Wells or Pipeline Serviced _____

Culpepper MARTIN #2

Elevation _____ Completion Date 4-12-93 Total Depth 375' Land Type P

Casing Strings, Sizes, Types & Depths 3/23 SET 98' OF 8" PVC CASING,

NO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING

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

WITH 19 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. 160'-Fresh, More Fresh water at 290'

Depths gas encountered: None

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

5200 lbs LORESCO

Depths anodes placed: #1-355', 345', 335', 325', 315', 305', 270', 260', 250', 240', 230', 220', 210', 200', 185'

Depths vent pipes placed: From surface to 375'

Vent pipe perforations: From 165' to 375'

Remarks: No gas encountered during drilling.

RECEIVED

JAN 31 1994

OIL CON. DIV. I

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.