

30-045-10676 HARPER#2

3673

30-045-24675 HARPER#3

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICOOperator Meridian Oil Co. Location: Unit P Sec. 14 Twp 31 Rng 12

Name of Well/Wells or Pipeline Serviced _____

HARPER #2 AND #3Elevation _____ Completion Date 3-30-93 Total Depth 395 Land Type PCasing Strings, Sizes, Types & Depths 12/11 SET 100' OF 8" PVC CASINGNO GAS, WATER, OR BOULDERS WERE ENCOUNTERED DURING CASING.If Casing Strings are cemented, show amounts & types used CementedWITH 24 SACKS.

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

no plugsDepths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 180' and clear.Depths gas encountered: no gasGround bed depth with type & amount of coke breeze used: 395' with57 (100 lb) sacks of Loreco S.W.Depths anodes placed: #1 is at 370' and #15 is at 190'Depths vent pipes placed: Bot. to SurfaceVent pipe perforations: up to 180'

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-Free.

If Federal or Indian, add Lease Number.

API WATER ANALYSIS REPORT FORM

Laboratory No. 25-930417-38

Company Meridian Oil		Sample No.		Date Sampled 3-30-93
Field 401760	Legal Description P14-31-12	County or Parish S.T.	State N.M.	
Lease or Unit	Well HARPER	# 2, # 3	Depth	Formation MU & OK
Type of Water (Produced, Supply, etc.)	Sampling Point G. Bed		Water, B/D	Sampled By R. Smith

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	1100	48
Calcium, Ca	455	22.7
Magnesium, Mg	16	1.3
Barium, Ba		

OTHER PROPERTIES

pH	7.65
Specific Gravity, 60/60 F.	1.0036
Resistivity (ohm-meters)	74 F.

Total Dissolved Solids (calc.)

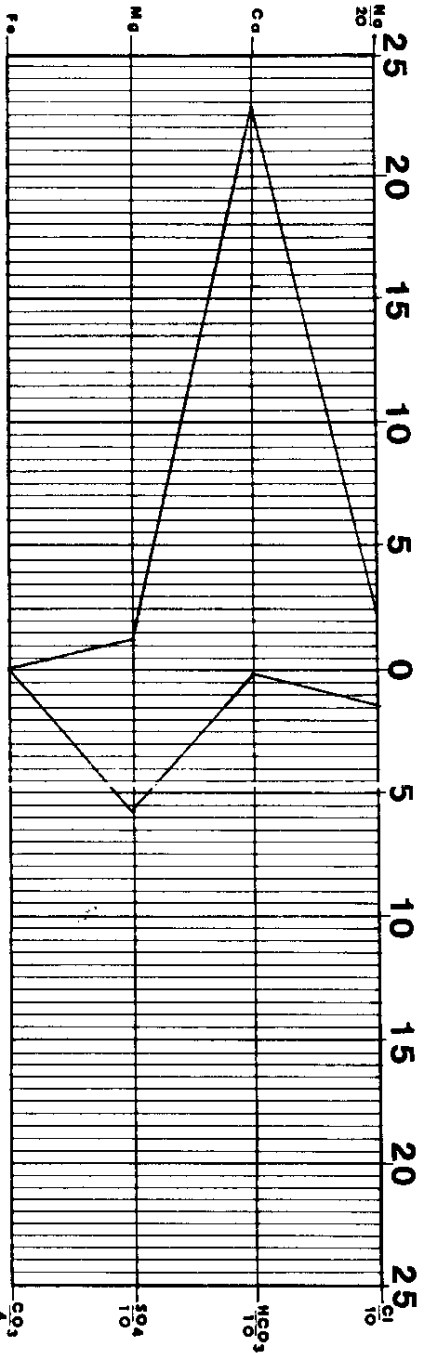
4,900

ANIONS

Chloride, Cl	500	14
Sulfate, SO_4	2800	57
Carbonate, CO_3		
Bicarbonate, HCO_3	50	0.8

REMARKS & RECOMMENDATIONS:

1770: G. Donathue



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



TECH, Inc.
333 East Main
Farmington
New Mexico
87401

505/327-3311