

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

MD-12

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

436-30-045-27510

61-30-045-10572

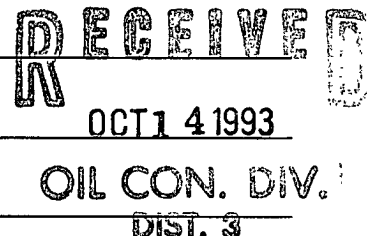
Operator: BLACKWOOD & NICHOLS CO. Location: Unit G, Sec. 19, Twp 31N, Rng 6W.Name of Well/Wells or Pipeline Served NEBU 436, 61Elevation 6340' Completion Date 8-9-93 Total Depth 450' Land Type* Surface: F Mineral: SF-078988Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7-7/8" Open HoleIf Casing is cemented, show amounts & types used 20 sks Portland Zia I-II - 90# ea.If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Fresh, Clear, water sample taken from 437' depth.Depths gas encountered: N/AType & amount of coke breeze used: 105 sx Asbury recarburized flo-coke.Depths anodes placed: 168' - 426'Depths vent pipes placed: 450' to 4' above ground level.Vent pipe perforations: 110' - 450'Remarks: Groundbed is located at 119' S 12° E of NEBU 436.

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.

Signed by: James K. AllenTitle: Operations EngineerDate: 10/12/93



1115 Farmington Avenue - Farmington , NM 87401
(505) 325-1085

Lab Sample No.: W93-281

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols

Collection Date: 9-Aug-93

Well Name: MD-12

Collection Time: Unknown

Formation: Surface

County: San Juan State: NM

Location: (G) Sec.19-T31N-R6W

Analyst: K. Lambdin & S. Spencer

Remarks: Groundbed from depth of 410 feet

Karen C. Lambdin
Analysis Date: 8/12/93

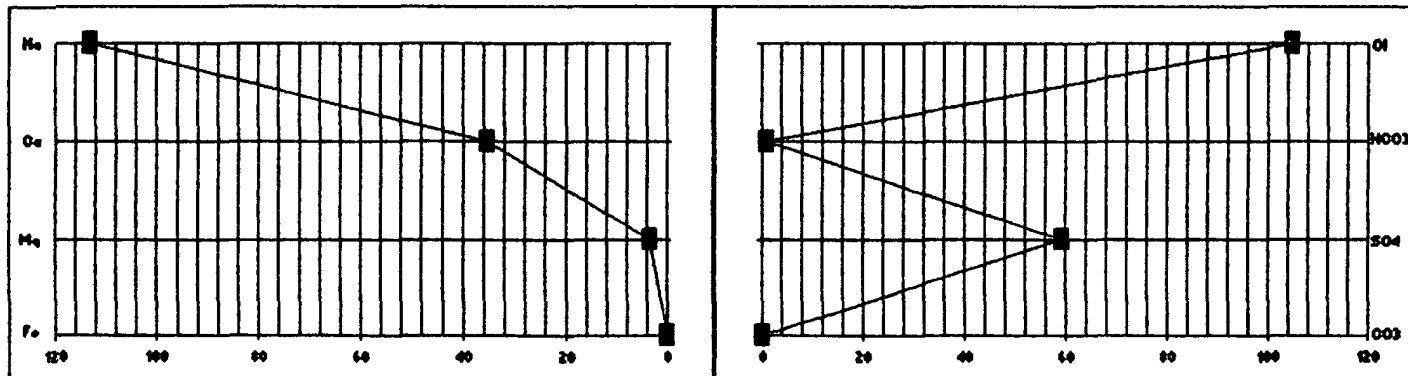
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium , Na	<u>2,600</u> mg/l		Chloride , Cl	<u>3,720</u> mg/l	
Potassium, K	<u>15</u> mg/l		Sulfate, SO ₄	<u>2850</u> mg/l	
Calcium , Ca	<u>710</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium , Mg	<u>42</u> mg/l		Carbonate, CO ₃	<u>0</u> mg/l	
Iron, Fe (Total)	<u>0.0</u> mg/l	NR	Bicarbonate, HCO ₃	<u>54</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	<0.1	Resistivity	<u>0.735</u> ohm-m	
pH	<u>7.50</u> Units		(@25 Degrees C)		
TDS	<u>10,300</u> mg/l		Conductivity	<u>13,600</u> uS	
			Specific Gravity	<u>1.009</u> Units	
			(@ 60 Degrees F)		

Remarks: None.

NR = Test Not Run

Anion/Cation: 108.3%

Stiff Diagram



Scale: Meq/L

BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

#MD-12 WELL# NEBU#436

S 19 T 31 N R 66

EPH	STRATA	NOTES	DEPTH	STRATA	NOTES
5'					
10'					
15'	^				
20'					
25'					
30'					
35'					
40'					
45'					
50'					
55'					
60'	X				
65'	C				
70'	O				
75'	R				
80'					
85'					
90'					
95'					
100'	V				

ILLER Gene Martinez

INSPECTOR Joe Matyssek

BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

2#MD#12 WELL# NEBLA# 436 + #61

S 19 T 31 I

[illegible]

RILLER

INSPECTOR W. L.