

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

MD-9

Operator: BLACKWOOD & NICHOLS CO. Location: Unit A, Sec. 18, Twp 31N, Rng 6W.

Name of Well/Wells or Pipeline Served NEBU 438

30-045-27659

Elevation 6400' Completion Date 8-5-93 Total Depth 310' Land Type* Surface: F Mineral: SF-078970

Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7-7/8" Open Hole

If 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, water caught from 220'.

Depths gas encountered: N/A

Type & amount of coke breeze used: 69 sx - Asbury recarburized Flo-Coke

Depths anodes placed: 185' - 289'

Depths vent pipes placed: 310' to 4' above ground level

Vent pipe perforations: 110' - 310'

Remarks: Ground bed is located 178' S 55° W of NEBU 438.

RECEIVED
SEP 16 1993
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.

Signed by:

James K. Allen

Title: Operations Engineer

Date: 8/27/93



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

Lab Sample No.: W93-267

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 5-Aug-93

Well Name: NEBU #438

Collection Time: Unknown

Formation: Surface

County: San Juan State: NM

Location: Unknown

Analyst: K. Lambdin & S. Spencer

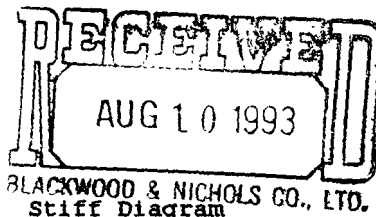
Remarks: Water sample from groundbed at 220 feet. MD #9 Analysis Date: 8/8/93

S. Spencer

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium , Na	600 mg/l		Chloride , Cl	637 mg/l	
Potassium, K	0 mg/l	<5	Sulfate, SO4	223 mg/l	
Calcium , Ca	27 mg/l		Hydroxide, OH	0 mg/l	
Magnesium , Mg	4 mg/l		Carbonate, CO3	0 mg/l	
Iron, Fe (Total)	0.0 mg/l	NR	Bicarbonate, HCO3	278 mg/l	
Hydrogen Sulfide	0 mg/l	<5	Resistivity	3.759 ohm-m	
pH	7.99 Units		(@25 Degrees C)		
TDS	1,800 mg/l		Conductivity	2,660 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

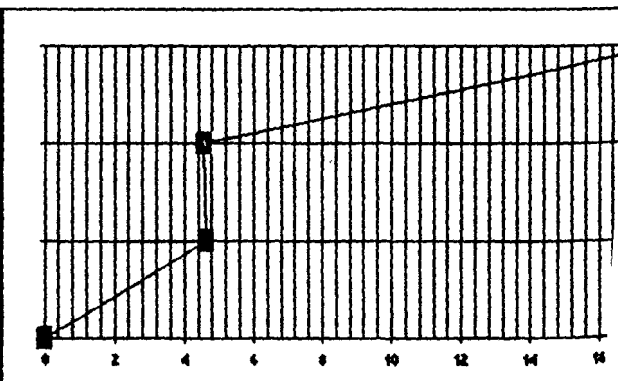
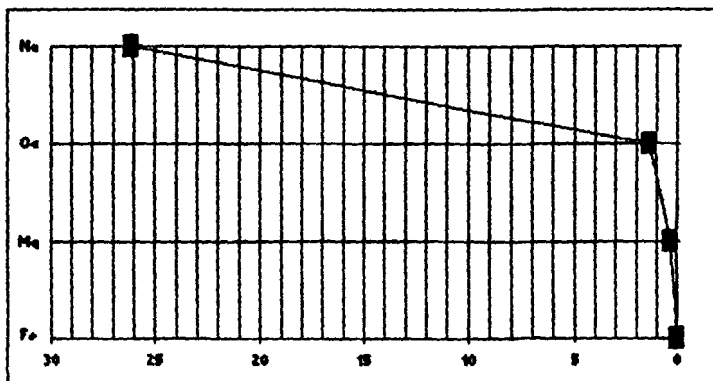
Remarks: None.

NR = Test Not Run



Anion/Cation:

97.89



Scale: Meq/L

DEACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

MD-9 WELL# NEBIA-438

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[illegible]

ILLER

INSPECTOR J. E.