

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

MA-31

4271

Operator: BLACKWOOD & NICHOLS CO. Location: Unit E, Sec. 5, Twp 30N, Rng 7W.

Name of Well/Wells or Pipeline Served NEBU 3A

30-045-23088

Elevation 6340' Completion Date 9-30-93 Total Depth 510' Land Type* Surface: F Mineral: SF-079042

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. Water from 260'.

RECEIVED

NOV 23 1993

Depths gas encountered: N/A

OIL COMPANY
DIST. 3

Type & amount of coke breeze used: 123 sx Asbury Graphite Flo-Coke

Depths anodes placed: 443' - 280'

Depths vent pipes placed: 510' to 4' above ground level

Vent pipe perforations: 110' - 510'

Remarks: Ground bed is located 199' - 560° West of NEBU 3A. WELLHEAD

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. Abby

Title: Operations Engineer

Date: 11/19/93



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

Lab Sample No.: W93-406

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood & Nichols Co.

Collection Date: 9/30/93

Well Name: MA #31

Collection Time: Unknown

Formation: Groundbed while drilling

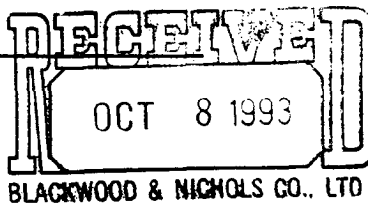
County: Unknown State: Unknown

Location: Unknown

Analyst: K. Lambdin & S. Spencer

Remarks: 260 feet

Analysis Date: 10/7/93



Karen C Lambdin

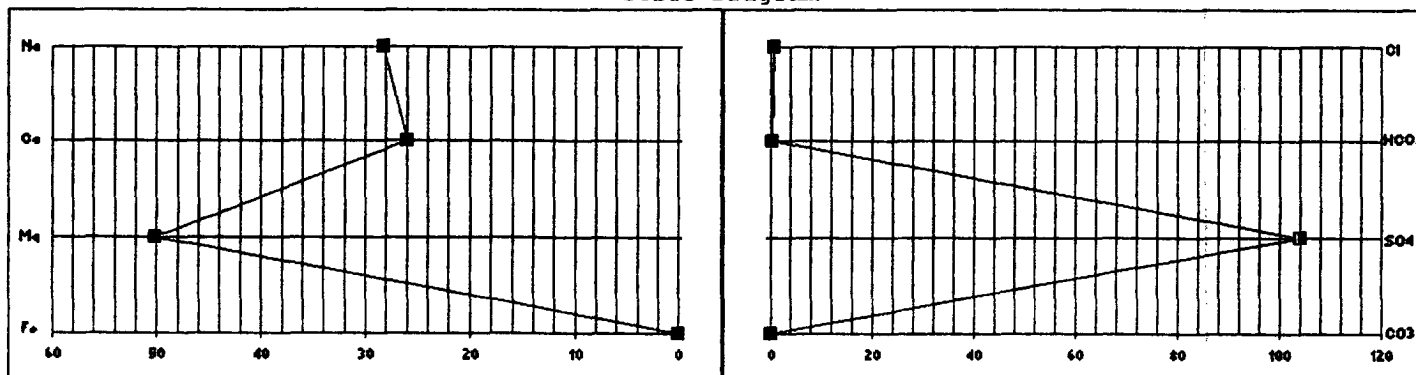
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	650 mg/l	Calculated	Chloride, Cl	23 mg/l	
Potassium, K	30 mg/l		Sulfate, SO ₄	5000 mg/l	
Calcium, Ca	520 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	610 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NR	Bicarbonate, HCO ₃	20 mg/l	
Hydrogen Sulfide	0 mg/l	<0.1	Resistivity	1.799 ohm-m	
pH	6.02 Units		(@25 Degrees C)		
TDS	3,740 mg/l		Conductivity	5,560 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

Remarks: None.

NR = Test Not Run

Anion/Cation: 99.9%

Stiff Diagram



Scale: Meq/L

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

1A-31 WELL # NEBU# 3A

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[illegible]

PER Jose Martinez

INSPECTOR Jas Matyszek

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

743) WELL# NEBU-3A

S T

[illegible]

LER 11/7

INSPECTOR