

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

P-9

4252

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

Name of Well/Wells or Pipeline Serviced NEBU 31A

30-045 24449

Elevation 6160' Completion Date 11-23-93 Total Depth 445' Land Type* Surface: F Mineral: SF-079042

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

If Casing is cemented, show amounts & types used 20 sks Portland Zia I-II

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 at 100'

Depths gas encountered: N/A

Type & amount of coke breeze used: 115 sx Asbury Flo Coke

Depths anodes placed: 150' - 355'

Depths vent pipes placed: 445' to 4' Above Ground Level

Vent pipe perforations: 125' - 445'

Remarks: Groundbed located 150' N 92° E of NEBU #31A.

REC'D
FEB - 7 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-Fee.
If Federal or Indian, add Lease Number.

Signed by: James K. Allen

Title: Operations Engineer

Date: 2/3/94



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

Lab Number:

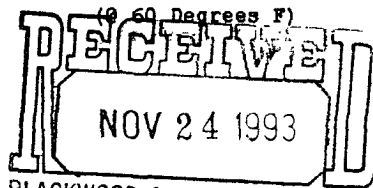
W93-490

Standard A.P.I. Water Analysis Report

Company: BLACKWOOD & NICHOLS CO., LTD. Date Collected: 11/21/93
Well Name: P-9; NEBU #31A Date Received: 11/22/93
Formation: Surface Date Analyzed: 11/23/93
Location: unit E, Sec. 7-T30N-R7W County: San Juan State: New Mexico
Collected By: J. Evans Analyst: Sheila Feltman *Sheila*
Remarks: Groundbed while drilling

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	45 mg/l		Chloride, Cl	14 mg/l	
Potassium, K	5 mg/l		Sulfate, SO ₄	930 mg/l	
Calcium, Ca	365 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	25 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NOT RUN	Bicarbonate, HCO ₃	170 mg/l	
Hydrogen Sulfide	0 mg/l	<0.1 mg/L	Resistivity	5.495 ohm-m	
pH	8.0 units		(@25 Degrees C)		
Total Dissolved Solids:	1,650 mg/l		Conductivity	1,820 us	
			Specific Gravity	1.0038	
			(@ 60 Degrees F)		

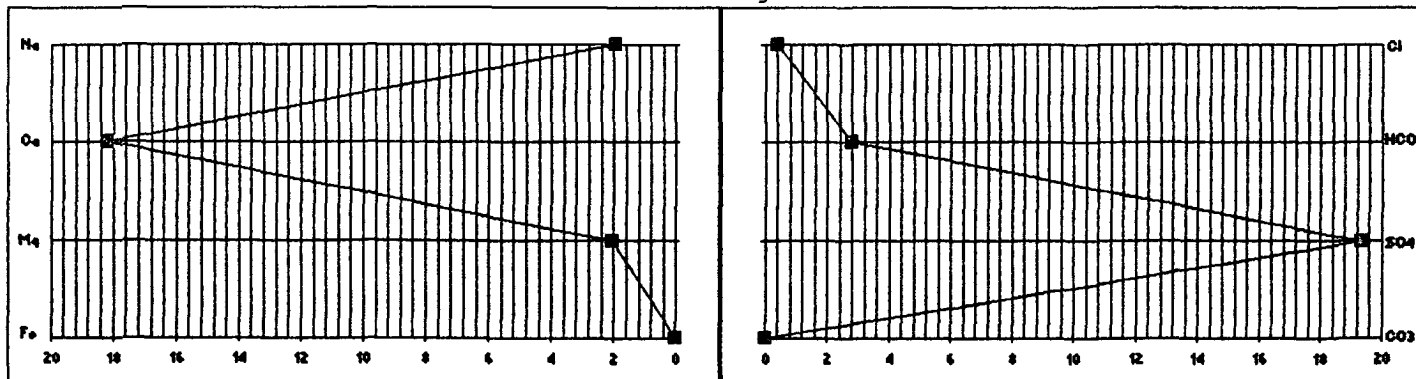
Remarks:



BLACKWOOD & NICHOLS CO., LTD. Anion/Cation:

1018

Stiff Diagram



Scale: Meq/L

CATHODIC GROUND BED DRILLERS REPORT

P-9 WELL# NEB4#31A

P-7W
S 07 TSON

TH	STRATA	NOTES	DEPTH	STRATA	NOTES
0'	↑				
5'	X TOP	SOIL			
10'					
15'	V	Boulder 10 FT.			
20'					
25'					
30'	J				
35'					
40'	V				
45'					
50'	S D				
55'	V				
60'	S				
65'	V				
70'					
75'					
80'					
85'					
90'					
95'					
100'	↓				

LER 02.

INSPECTOR *W. M. Smith*

BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

P-9 WELL# NEBU#31A

S 7 T 30-07

[illegible]

LER RL

INSPECTOR J. E.