

#101 30-039-07893 SW-15
#411 30-039-24365

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

Operator: BLACKWOOD & NICHOLS CO. Location: Unit G, Sec. 10, Twp 30N, Rng 7W.

Name of Well/Wells or Pipeline Serviced NEBU 411, 101

Elevation 6261' Completion Date 7-9-93 Total Depth 418' Land Type* Surface: F Mineral: SF-079001A

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

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

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

Fresh, Clear, Salty, Sulphur, Etc. Clear water at 265'

Depths gas encountered: N/A

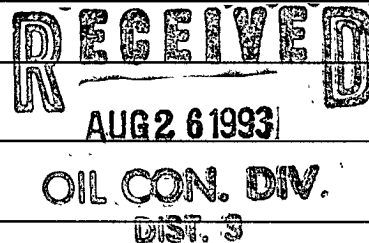
Type & amount of coke breeze used: Asbury 120 sx

Depths anodes placed: 405'

Depths vent pipes placed: 418' to 4' above ground level

Vent pipe perforations: 88' to 418'

Remarks: Groundbed located 166' S 86° W of NEBU 411



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: 8/16/93



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

Lab Sample No.: W93-212

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 9-Jul-93

Well Name: SN #15

Collection Time: Unknown

Formation: Surface

County: Rio Arriba

State: NM

Location: (G) Sec. 10-T30-R07

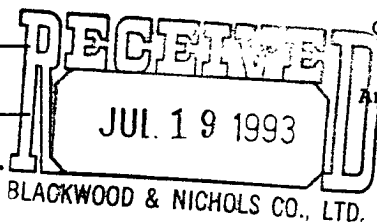
Analyst: K. Lambdin

Karen Lambdin

Remarks: Sample from groundbed.

Analysis Date:

7/14/93



PARAMETER	AS ION	Comment	PARAMETER	AS ION	Comment
Sodium, Na	450 mg/l	calculated	Chloride, Cl	11 mg/l	
Potassium, K	14 mg/l		Sulfate, SO4	2290 mg/l	
Calcium, Ca	560 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	15 mg/l		Carbonate, CO3	0 mg/l	
Iron, Fe (Total)	0.0 mg/l	NR	Bicarbonate, HCO3	60 mg/l	
Hydrogen Sulfide	0 mg/l	<5	Resistivity	3.106 ohm-m	
pH	7.78 Units		(@25 Degrees C)		
TDS	2,140 mg/l		Conductivity	3,220 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

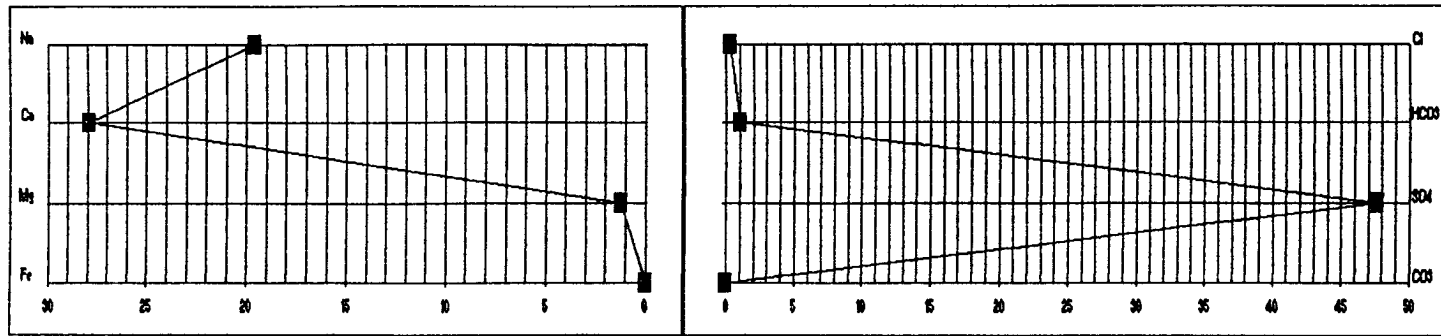
Remarks: Gray clay observed at bottom of sample.

NR = Test Not Run

Anion/Cation:

99.6%

Stiff Diagram



BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

SW/5 WELL# NEB 411

S 10 T 30 N R 7W

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
0					
10'	SANDSTONE				
20'					
30'	SANDSTONE				
40'					
50'	SOFT SHALE				
60'					
70'	SOFT SHALE				
80'	HARD SHALE				
90'					
100'	HARD SHALE				

DRILLER gerse martinez

INSPECTOR Joe Matyssek

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

#SN-15 WELL# NEBU 411 + 101

S 10 T 30 R 07

[illegible]

ILLER 

INSPECTOR Joseph. Evans