

#103/30-045-29278

#443/30-045-27763-5

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 N, Sec. 24, Twp 30N, Rng 8W.

Name of Well/Wells or Pipeline Serviced NEBU 443, 103

Elevation 6200' Completion Date 7-15-93 Total Depth 458' Land Type* Surface: F Mineral: SF-078615

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 N/A

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

Fresh, Clear, Salty, Sulphur, Etc. Fresh, water sample from 270'

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Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: Asbury Recarburized (140 sx)

Depths anodes placed: 130' - 433'

Depths vent pipes placed: 458' to 4' above ground level

Vent pipe perforations: 100' - 458'

Remarks: Groundbed located 386' N 83° W of NEBU 443

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. Abbott

Title: Operations Engineer

Date: 8/11/93



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

Lab Sample No.: W93-229

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 13-Jul-93

Well Name: SS #5

Collection Time: Unknown

Formation: Unknown

County: Unknown State: Unknown

Location: C.P. Station SS #5

Analyst: K. Lambdin *Karen Lambdin*

Remarks: Sampled at well bore; 270 feet.

Analysis Date: 7/17/93

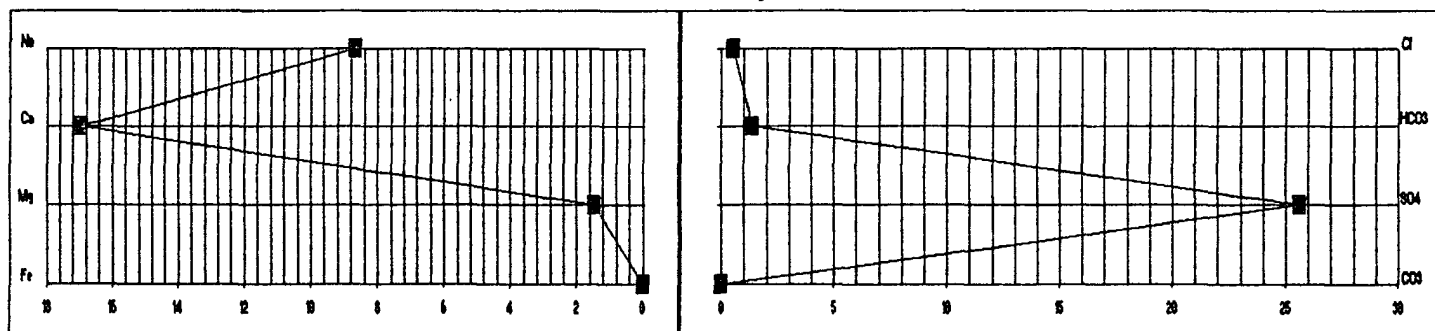
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	<u>200</u> mg/l	calculated	Chloride, Cl	<u>18</u> mg/l	
Potassium, K	<u>15</u> mg/l		Sulfate, SO ₄	<u>1231</u> mg/l	
Calcium, Ca	<u>340</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium, Mg	<u>18</u> mg/l		Carbonate, CO ₃	<u>0</u> mg/l	
Iron, Fe (Total)	<u>0.0</u> mg/l	NR	Bicarbonate, HCO ₃	<u>83</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	<5	Resistivity	<u>6.112</u> ohm-m	
pH	<u>7.18</u> Units		(@25 Degrees C)		
TDS	<u>1,074</u> mg/l		Conductivity	<u>1,636</u> uS	
			Specific Gravity	<u>1.000</u> Units	
			(@ 60 Degrees F)		

Remarks: Gray clay observed at bottom of sample.

NR = Test Not Run

Anion/Cation: 99.8%

Stiff Diagram



Scale: Meq/L

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BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

CP# SS5 WELL# 103 & 443

S 24 T 30N R 2

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
		Couldn't get			
10'		water sample			
15'					
20'					
25'					
30'					
35'					
40'					
45'					
50'					
55'					
60'					
65'					
70'					
75'					
80'					
85'					
90'					
95'					
100'					

DRILLER

INSPECTOR

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

CP# SS-5 WELL# NEBU # 443 + # 103

S 24 T 30 R 0

[illegible]DRILLER

INSPECTOR Jose Lora