

#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

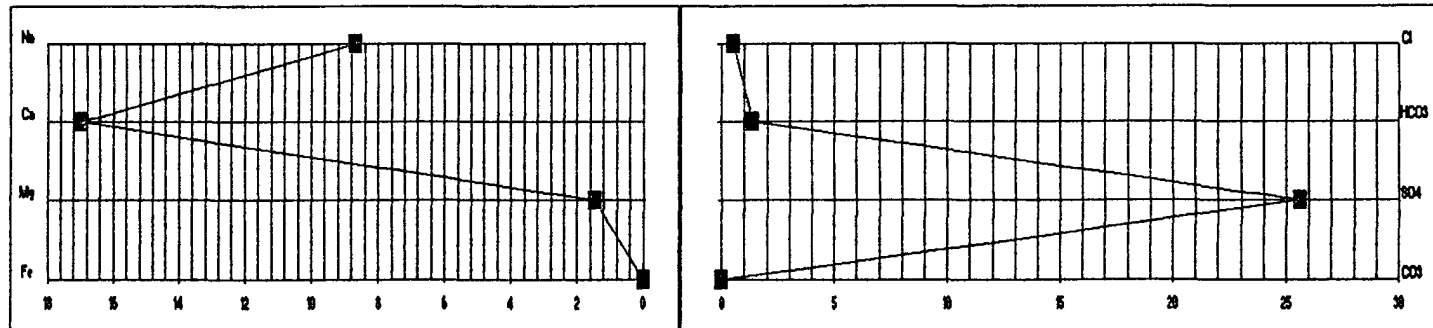
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	<u>200</u> mg/l	calculated	Chloride, Cl	<u>18</u> mg/l	
Potassium, K	<u>15</u> mg/l		Sulfate, SO ₄	<u>1231</u> mg/l	
Calcium, Ca	<u>340</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium, Mg	<u>18</u> mg/l		Carbonate, CO ₃	<u>0</u> mg/l	
Iron, 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



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BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

CP# SS5 WELL# 103 4 443

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

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INSPECTOR

Joe Matyssek

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

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

S 24 T 30 R 0

[illegible]

DRILLER

INSPECTOR