

#24R/30-039-22564

#431/30-039-24339 SS-11

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

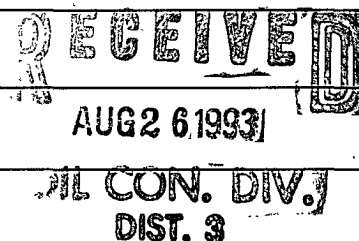
Operator: BLACKWOOD & NICHOLS CO. Location: Unit O, Sec. 17, Twp 30N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 431, 24RElevation 6310' Completion Date 7-19-93 Total Depth 377' Land Type* Surface: Mineral: NM-013706ACasing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100' , 7 7/8" OPEN HOLEIf Casing is cemented, show amounts & types used 20 sks Portland Zia I-IIIf Cement or Bentonite Plugs have been placed, show depths & amounts used N/A

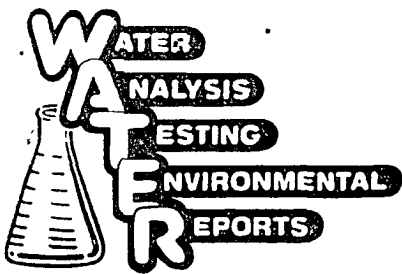
Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Fresh, 130' - 185' small amount. 270' - 5 Bbls P/min.Depths gas encountered: N/AType & amount of coke breeze used: Lorasco - 5,200#Depths anodes placed: 360' to 180'Depths vent pipes placed: TD to 4' above ground levelVent pipe perforations: 377' to 97'Remarks: Groundbed is located 285° Northwest of NEBU 431 wellhead 208'.

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. AllenTitle: Operations EngineerDate: 8/11/93



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

Lab Sample No.: W93-234

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co.

Collection Date: 19-Jul-93

Well Name: C.P. station SS-11

Collection Time: 12:01 PM

Formation: Groundbed

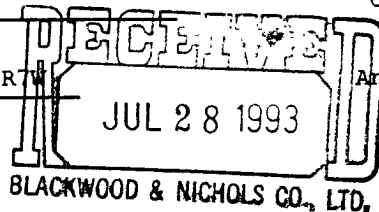
County: Unknown State: Unknown

Location: (O) Sec.17-T30N -R7W

Analyst: K. Lambdin

Remarks: 370 feet

Analysis Date: 7/25/93



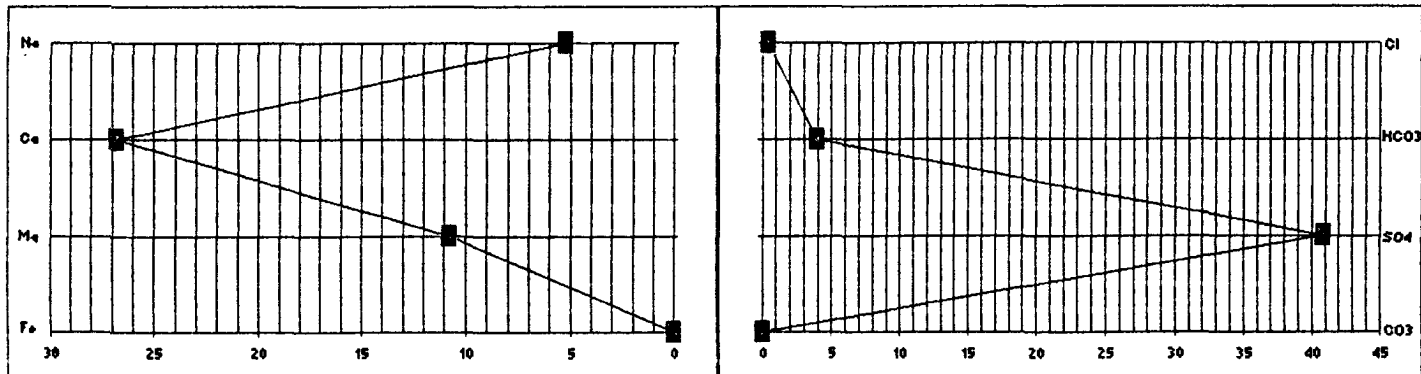
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium , Na	<u>120</u> mg/l		Chloride , Cl	<u>16</u> mg/l	
Potassium, K	<u>7</u> mg/l		Sulfate, SO4	<u>1967</u> mg/l	
Calcium , Ca	<u>537</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium , Mg	<u>131</u> mg/l		Carbonate, CO3	<u>0</u> mg/l	
Iron, Fe (Total)	<u>2.0</u> mg/l		Bicarbonate, HCO3	<u>241</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	<5	Resistivity	<u>3.165</u> ohm-m	
pH	<u>7.50</u> Units		(@25 Degrees C)		
TDS	<u>2,120</u> mg/l		Conductivity	<u>3,160</u> uS	
			Specific Gravity	<u>1.000</u> Units	
			(@ 60 Degrees F)		

Remarks: Small amount of orange precipitate observed at bottom of sample.
Sample not preserved for Fe and H2S.

NR = Test Not Run

Anion/Cation: 105.4%

Stiff Diagram



BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

P# SS 11 WELL# 24R + 431

S 17 T 30N R 7W

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
5'					
10'					
15'	↑				
20'					
25'					
30'					
35'					
40'					
45'					
50'					
55'					
60'					
65'					
70'					
75'					
80'					
85'					
90'					
100'	↓				

DRILLER gerse muntz

INSPECTOR Joe Matysek

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# SS-11 WELL# NEBU. #431, #24R

0 S 17 T 30 R 7

[illegible]

RILLER 

INSPECTOR *MDM.*