

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

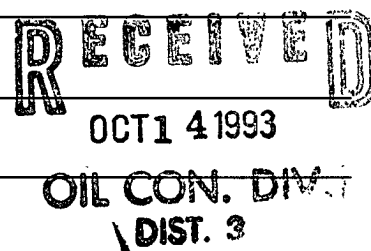
MC-3

NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

30-045-27567

Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec. 11, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Served NEBU 490Elevation 6460' Completion Date 8-17-93 Total Depth 330' Land Type* Surface: F Mineral: NM-03358Casing, 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-II - 90# ea.If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A

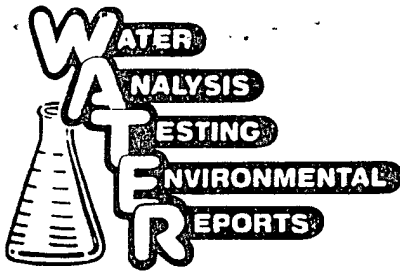
Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Fresh, Clear water at 256'.Depths gas encountered: N/AType & amount of coke breeze used: 66 sx Asbury recarburized flo-coke.Depths anodes placed: 215' - 308'Depths vent pipes placed: 330' to 4' above ground level.Vent pipe perforations: 110' - 330'Remarks: Groundbed is located at 160' N 24° E of NEBU #490.

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: 10/12/93



1115 Farmington Avenue - Farmington, NM 87401
 (505) 325-1085
 AUG 23 1993
 BLACKWOOD & NICHOLS CO., LTD.

Lab Sample No.: W93-298

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 16-Aug-93

Well Name: MC #3

Collection Time: Unknown

Formation: Surface

County: San Juan State: NM

Location: (H) Sec. 14-T31N-R7W

Analyst: S. Spencer

Remarks: Groundbed at 256' after 2 days.

NEBU #490

Analysis Date: 8/19/93

S. Spencer

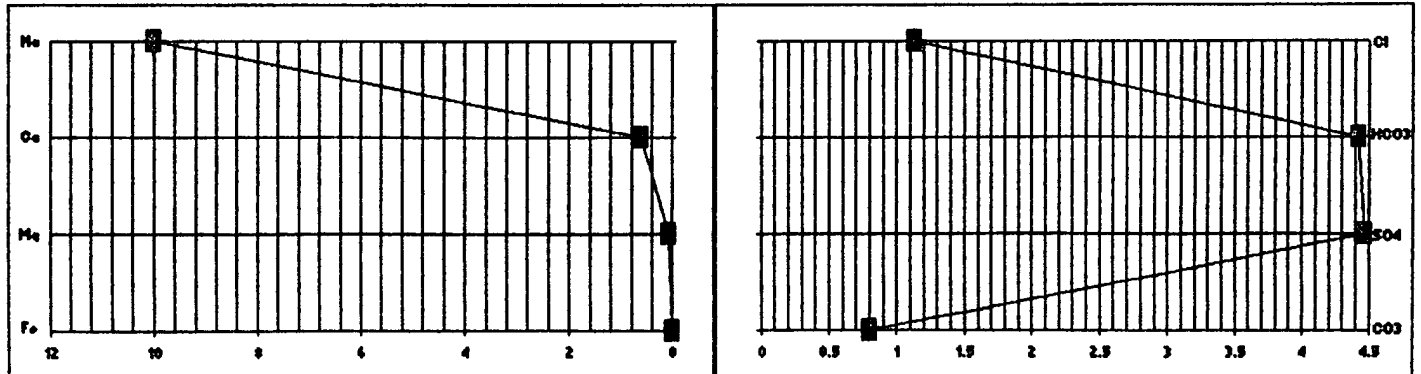
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	<u>230</u> mg/l		Chloride, Cl	<u>40</u> mg/l	
Potassium, K	<u>2</u> mg/l		Sulfate, SO ₄	<u>215</u> mg/l	
Calcium, Ca	<u>12</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium, Mg	<u>1</u> mg/l		Carbonate, CO ₃	<u>24</u> mg/l	
Iron, Fe (Total)	<u>0.0</u> mg/l	NR	Bicarbonate, HCO ₃	<u>270</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	<0.1	Resistivity	<u>9.970</u> ohm-m	
pH	<u>8.74</u> Units		(@25 Degrees C)		
TDS	<u>674</u> mg/l		Conductivity	<u>1,003</u> uS	
			Specific Gravity	<u>1.000</u> Units	
			(@ 60 Degrees F)		

Remarks: None.

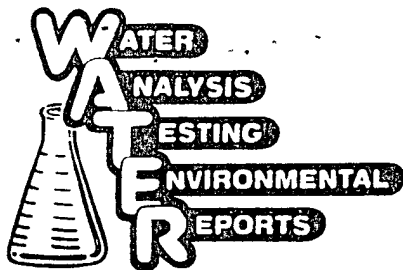
NR = Test Not Run

Anion/Cation: 100.8%

Stiff Diagram



Scale: Meq/L

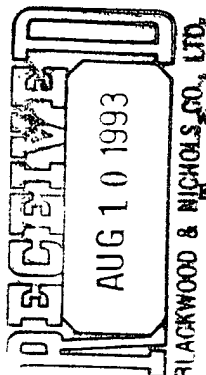


1115 Farmington Avenue - Farmington , NM 87401
(505) 325-1085

Lab Sample No.: W93-269

Standard A.P.I. Water Analysis Report

Collected By: J. Evans



Company: Blackwood and Nichols Co.

Collection Date: 3-Aug-93

Well Name: NEBU #490 MC-3

Collection Time: Unknown

Formation: Surface

County: San Juan State: NM

Location: (L) Sec. 18-T31-R6

Analyst: K. Lambdin & S. Spencer

Remarks: Groundbed at 240'. Contaminated with lake water. Analysis Date: 8/8/93

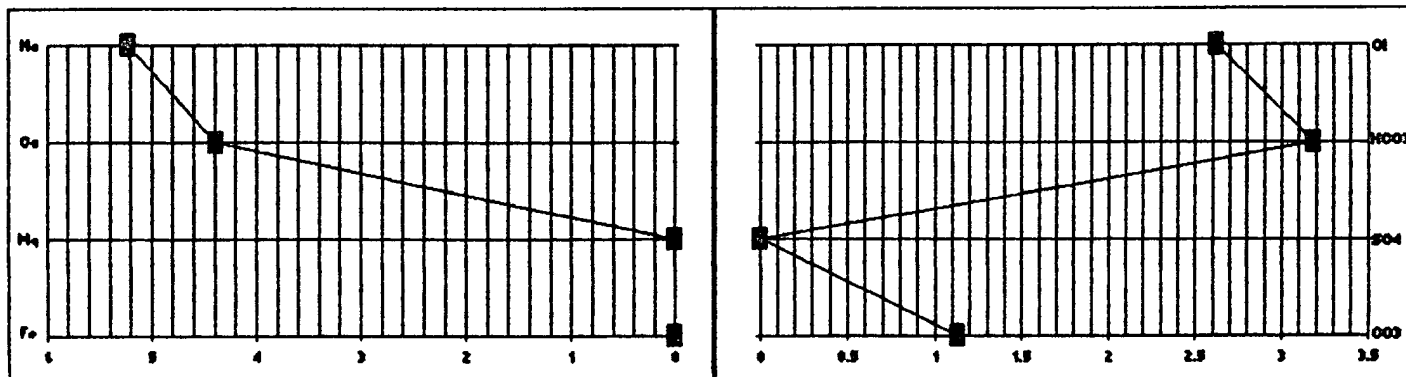
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium , Na	<u>120</u> mg/l		Chloride , Cl	<u>93</u> mg/l	
Potassium, K	<u>0</u> mg/l	<5	Sulfate, SO4	<u>0</u> mg/l	NR
Calcium , Ca	<u>88</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium , Mg	<u>0</u> mg/l	<5	Carbonate, CO3	<u>34</u> mg/l	
Iron, Fe (Total)	<u>0.0</u> mg/l	NR	Bicarbonate, HCO3	<u>194</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	NR	Resistivity	<u>20.000</u> ohm-m	(@ 25 Degrees C)
pH	<u>9.01</u> Units		Conductivity	<u>500</u> uS	
TDS	<u>330</u> mg/l		Specific Gravity	<u>1.000</u> Units	(@ 60 Degrees F)

Remarks: Very muddy sample--Stiff Diagram & Anion/Cation Balance invalid as a Sulfate reading was impossible to obtain due to the amount of unfilterable silt in water. H2S was not run for the same reason.

NR = Test Not Run

Anion/Cation: 72.2%

Stiff Diagram



BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# MC-3 WELL# NERU#490

S 14 T 31N R 7

[illegible]

ILLER

INSPECTOR

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# MC#3 WELL# NEBIA# 490

S 14 T 31 F

[illegible]

RILLER 

INSPECTOR