

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

MD-1

(Submit 3 Copies to OCD Aztec Office)

Operator: BLACKWOOD & NICHOLS CO. Location: Unit C, Sec. 11, Twp 31N, Rng 7W.

Name of Well/Wells or Pipeline Served NEBU 43A, 203

Elevation 6480' Completion Date 8-9-93 Total Depth 400' Land Type* Surface: F Mineral: NM-03358

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 - 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. Damp 190'. Water at 250'

Depths gas encountered: N/A

Type & amount of coke breeze used: Asbury 4,500#

Depths anodes placed: 255' - 383' (15)

Depths vent pipes placed: TD to 4' above ground level.

Vent pipe perforations: Bottom - 280'

Remarks: Groundbed is located at 180° from North - 150' from 43A wellhead.

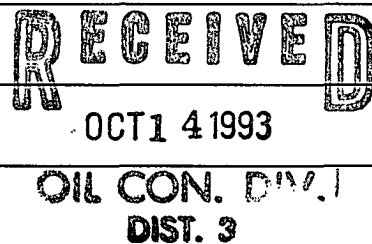
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

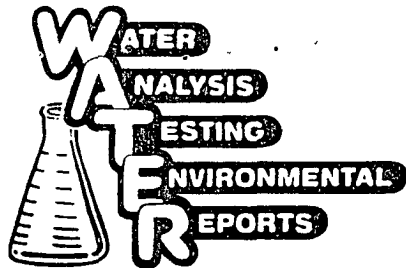
*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Signed by: James K. Aul

Title: Operations Engineer

Date: 10/12/93





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

Lab Sample No.: W93-284

Standard A.P.I. Water Analysis Report

Collected By: MDM

Company: Blackwood and Nichols Co.

Collection Date: 9-Aug-93

Well Name: MD - 1

Collection Time: 10:41 PM

Formation: Surface

County: San Juan State: NM

Location: (C) Sec. 11-T31N-R7W

Analyst: S. Spencer

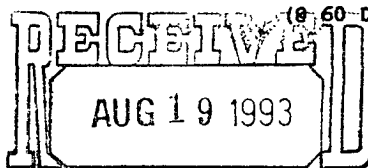
Remarks: NEBU #43A, #203

Analysis Date: 8/16/93

Seena Spencer

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	460	mg/l	Chloride, Cl	280	mg/l
Potassium, K	6	mg/l	Sulfate, SO ₄	340	mg/l
Calcium, Ca	24	mg/l	Hydroxide, OH	0	mg/l
Magnesium, Mg	2	mg/l	Carbonate, CO ₃	0	mg/l
Iron, Fe (Total)	0.0	mg/l	Bicarbonate, HCO ₃	410	mg/l
Hydrogen Sulfide	0	mg/l	Resistivity	4.717	ohm-m
pH	7.92	Units	(@25 Degrees C)		
TDS	1,419	mg/l	Conductivity	2,120	uS
			Specific Gravity	1.000	Units
			(@ 60-Degrees F)		

Remarks: None.

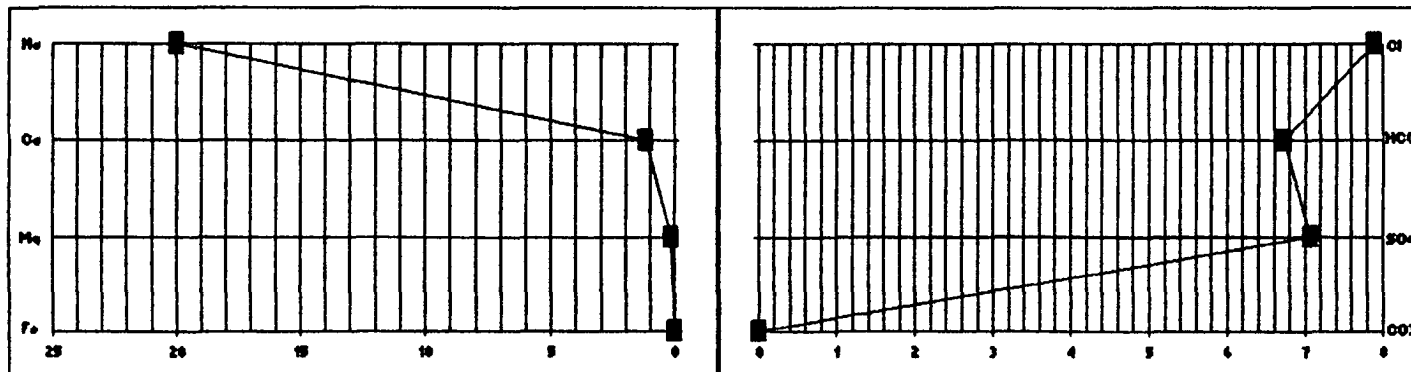


NR = Test Not Run

BLACKWOOD & NICHOLS CO., LTD.

Anion/Cation: 100.8%

Stiff Diagram



Scale: Meq/L

BLACKWOOD & NICHOLS CATHODIC GROUND 'BED DRILLERS' REPORT'

CP# MD-1 WELL# NEBUH 43 A4203

S 11 T 31N R 1

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
5'					
10'					
15'	↓				
20'	NE				
25'	AL				
30'	GS				
35'	✓				
40'					
45'					
50'					
55'					
60'					
65'	✓				
70'	A				
75'	H				
80'	✓				
85'					
90'					
95'					
100'	✓				

DRILLER gene murtine

INSPECTOR _____

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# MD-1 WELL# N.E.B.U. #203 & 43A

C S // T 31 R

[illegible]

RILLER

INSPECTOR H.M.