

30-039-25016 SN-4

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 J, Sec. 8, Twp 30N, Rng 7W.

Name of Well/Wells or Pipeline Served NEBU 423R, 7 7/8" OPEN HOLE

Elevation 6285' Completion Date 7-9-93 Total Depth 340' Land Type* F, Lease No. SF-079042

Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100'

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 140'

Depths gas encountered: N/A

Type & amount of coke breeze used: Asbury Recarburizer 5,200#

Depths anodes placed: 325' to 116'

Depths vent pipes placed: 340' to 4' above ground level

Vent pipe perforations: 340' to 120'

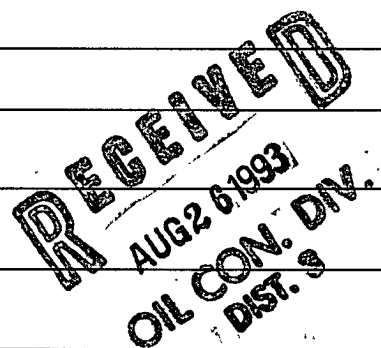
Remarks: Ground bed 126' and 270° W of North of wellhead

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. Abbott

Title: Operations Engineer Date: 8/11/93





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

Lab Sample No.: W93-213

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co.

Collection Date: 9-Jul-93

Well Name: SN-4

Collection Time: 2:47:23 P.M.

Formation: Unknown

County: San Juan

State: NM

Location: (J) Sec.8-T30N-R7W BLACKWOOD & NICHOLS CO., LTD.

Analyst: K. Lambdin

Karen Lambdin

Remarks: 195 feet - Groundbed. Fresh water. SN - 4

Analysis Date: 7/14/93

NEBU #423R

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	92 mg/l		Chloride, Cl	20 mg/l	
Potassium, K	5 mg/l		Sulfate, SO ₄	1742 mg/l	
Calcium, Ca	555 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	77 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0.0 mg/l	NR	Bicarbonate, HCO ₃	87 mg/l	
Hydrogen Sulfide	0 mg/l	<5	Resistivity	3.584 ohm-m	
pH	6.98 Units		(@25 Degrees C)		
TDS	1,856 mg/l		Conductivity	2,790 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

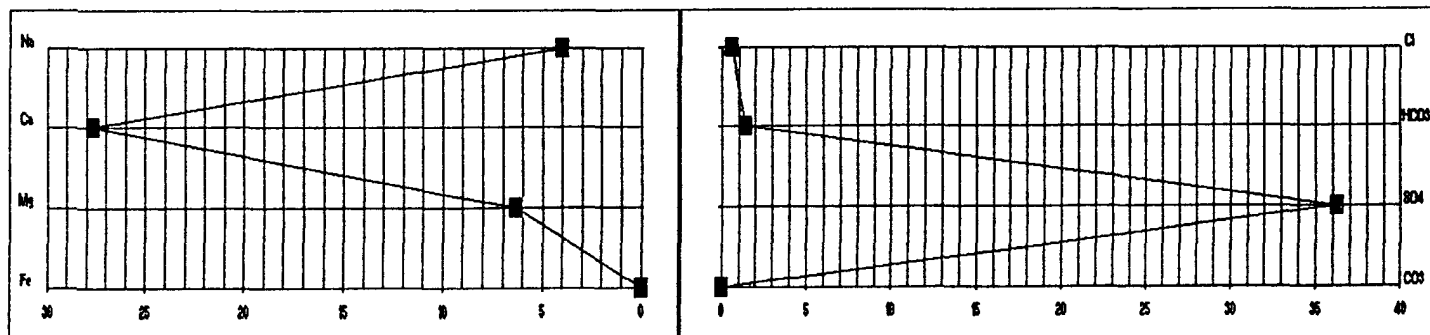
Remarks: None.

NR = Test Not Run

Anion/Cation:

100.2%

Stiff Diagram



Scale: Meq/L

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# SN-4 WELL# N.E.B.U. #423 R

UNIT LETTER 'J' S 8 T 30 R 7

[illegible]

MILLER

INSPECTOR

Mark D. McFarland