

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

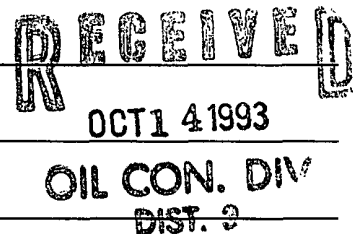
P-23

445-30-045-27246 NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

50 30-045-10241

Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec. 25, Twp 31N, Rng 8W.Name of Well/Wells or Pipeline Served NEBU 445, 50Elevation 6346' Completion Date 7-27-93 Total Depth 470' Land Type* Surface: P Mineral: SF-079082Casing, 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, Damp 120' - 140' - 270', water at 430', caught water sample.Depths gas encountered: N/AType & amount of coke breeze used: Asbury & Loresco - 7,200#Depths anodes placed: 122' to 446'Depths vent pipes placed: TD to 4' above ground levelVent pipe perforations: Bottom 380'Remarks: Ground bed 15° from North and 174' from #445 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:

A handwritten signature in cursive script, appearing to read "James K. Allen".

Title: Operations EngineerDate: 10/12/93

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# P-23 WELL# NEAR-445950

S 25 T 31 N R24

[illegible]

RILLER Gene Mauring

INSPECTOR _____

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P-23 WELL# N.E.B.U. #445, #50

MS 25 T 31 R 8

[illegible]

RILLER

INSPECTOR

RDW



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

Lab Sample No.: W93-253

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co.

Collection Date: 27-Jul-93

Well Name: CP Station P-23

Collection Time: 10:30 AM

Formation: C.P. Groundbed (430 feet)

County: Unknown State: Unknown

Location: (M) Sec.25-T31N-R8W

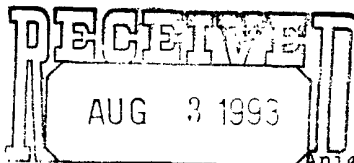
Analyst: K. Lambdin & S. Spencer

Remarks: Surface sampling point

Analysis Date: 7/31/93

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	<u>110</u> mg/l	calculated	Chloride, Cl	<u>11</u> mg/l	
Potassium, K	<u>11</u> mg/l		Sulfate, SO ₄	<u>1413</u> mg/l	
Calcium, Ca	<u>525</u> mg/l		Hydroxide, OH	<u>0</u> mg/l	
Magnesium, Mg	<u>17</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>157</u> mg/l	
Hydrogen Sulfide	<u>0</u> mg/l	<1	Resistivity	<u>4.329</u> ohm-m	
pH	<u>7.51</u> Units		(@25 Degrees C)		
TDS	<u>1,536</u> mg/l		Conductivity	<u>2,310</u> uS	
			Specific Gravity	<u>1.000</u> Units	
			(@ 60 Degrees F)		

Remarks: None.

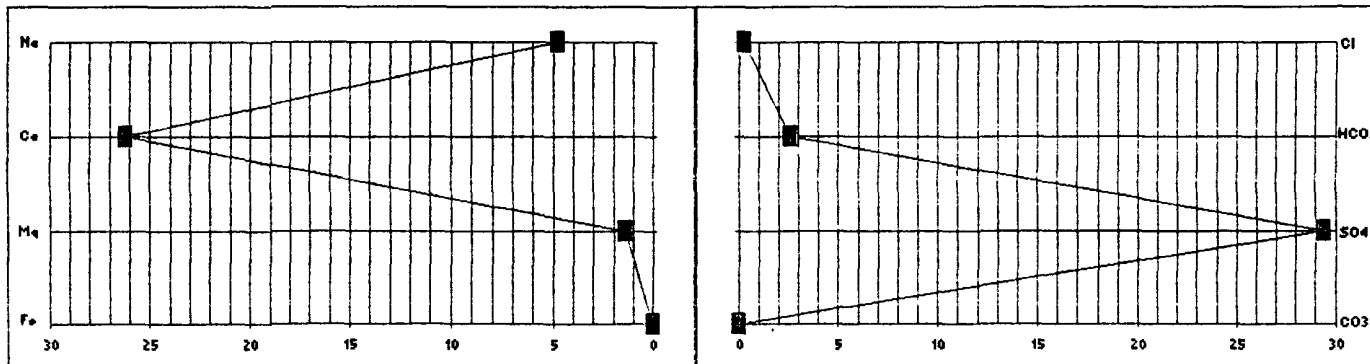


NR = Test Not Run

BLACKWOOD & NICHOLS CO., LTD
Stiff Diagram

Anion/Cation:

98.8%



Scale: Meq/L