

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

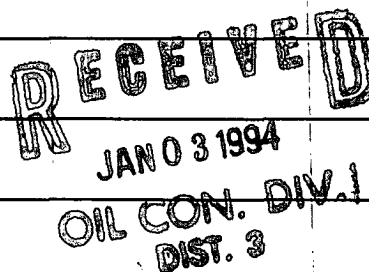
P-27

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

3579

Operator: BLACKWOOD & NICHOLS CO. Location: Unit G, Sec. 19, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Served NEBU 459 30-045-27448Elevation 6500' Completion Date 11-1-93 Total Depth 495' Land Type* Surface: F Mineral: SF-080557Casing, 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. Clear, 475'Depths gas encountered: N/AType & amount of coke breeze used: Asbury Flo-Coke - 6,150#Depths anodes placed: 135' to 426' (10)Depths vent pipes placed: Bottom to 4' above ground level.Vent pipe perforations: Bottom - 380'Remarks: Groundbed is located at 117° N & 132' from NEBU #459 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. AllenTitle: Operations Engineer Date: 12-22-93



2115 Farmington Avenue - Farmington, NM 87401
(505) 325-1085

NOV 4 1993

Lab Sample No.: W93-445

BLACKWOOD & NICHOLS CO., LTD.

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood & Nichols Co.

Collection Date: 10/28/93

Well Name: P - 27

Collection Time: Unknown

Formation: C.P. Groundbed while drilling

County: Unknown State: Unknown

Location: Unknown

Analyst: K. Lambdin & S. Spencer

Remarks: Water at 475 feet - Depth sampled 495 feet

Analysis Date: 11/2/93

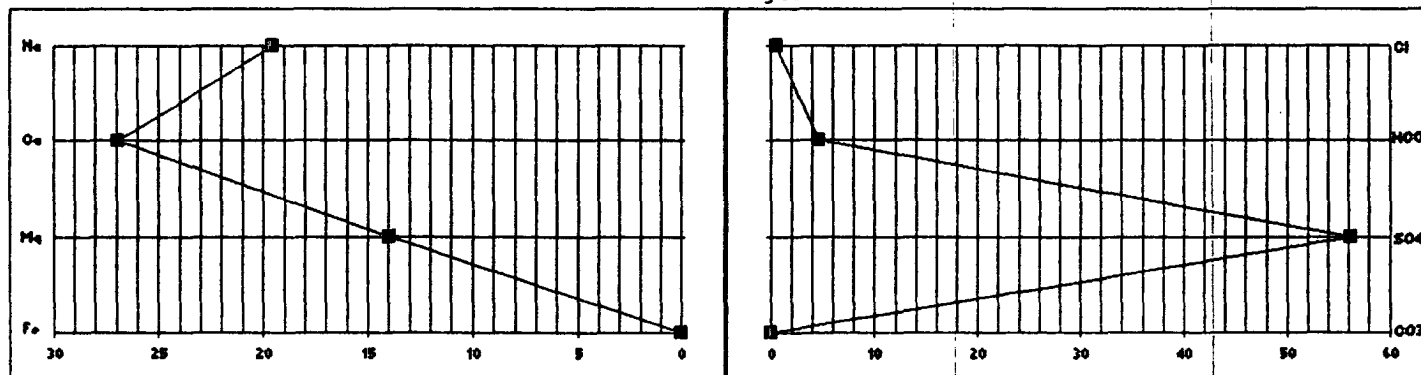
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	450 mg/l	calculated	Chloride, Cl	20 mg/l	
Potassium, K	34 mg/l		Sulfate, SO ₄	2700 mg/l	
Calcium, Ca	540 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	170 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NR	Bicarbonate, HCO ₃	280 mg/l	
Hydrogen Sulfide	0 mg/l	NR	Resistivity	2.941 ohm-m	
pH	7.80 Units		(@25 Degrees C)		
TDS	2,270 mg/l		Conductivity	3,400 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

Remarks: Not enough sample to run H₂S -- lots of mud.

NR = Test Not Run

Anion/Cation: 99.9%

Stiff Diagram



Scale: Meq/L

CATHODIC GROUND BED DRILLERS REPORT

227 WELL# N.E.B.U. #495

G 19 T 31-7

[illegible]

ER Mark A. Givens

INSPECTOR *ADM*

CATHODIC GROUND BED DRILLERS REPORT

D-27 WELL # N.E.B.U. #459

G S 19 T 31-

[illegible]

ER

INSPECTOR

MDM.