

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

P-20

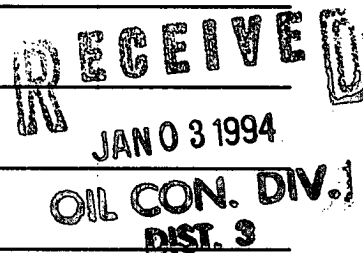
NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

#40 → 30-045-10127

#473 → 30-045-27298

Operator: BLACKWOOD & NICHOLS CO. Location: Unit G, Sec. 36, Twp 31N, Rng 8W.Name of Well/Wells or Pipeline Served NEBU 473, 40Elevation 6440' Completion Date 11-5-93 Total Depth 495' Land Type* Surface: S Mineral: E-3150-1Casing, 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. Water at 480' when drilled.Depths gas encountered: N/AType & amount of coke breeze used: Asbury. RECARBURIZED CARBON GRAPHITE - 6,900#Depths anodes placed: 115' - 441'Depths vent pipes placed: Bottom to 4' above ground level.Vent pipe perforations: Bottom - 380'Remarks: Groundbed is located at 228° N & 151' from NEBU #473 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



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

Lab Number:

W93-475

Standard A.P.I. Water Analysis Report

Company: BLACKWOOD & NICHOLS CO., LTD.

Date Collected: 11/3/93

Well Name: P-20; NEBU #473

Date Received: 11/4/93

Formation: SURFACE

Date Analyzed: 11/10/93

Location: NE SEC. 36-31-08

County: San Juan State: New Mexico

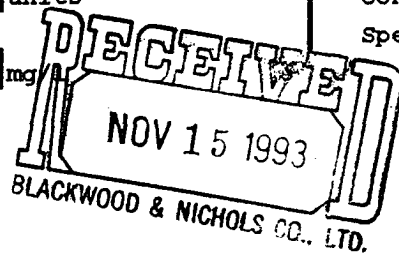
Collected By: J. EVANS

Analyst: Sheila Feltman *Sala*

Remarks: GROUND BED - DRILLING @ 455'

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	92 mg/l		Chloride, Cl	28 mg/l	
Potassium, K	7 mg/l		Sulfate, SO ₄	1370 mg/l	
Calcium, Ca	520 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	11 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NR	Bicarbonate, HCO ₃	160 mg/l	
Hydrogen Sulfide	0 mg/l	< 0.1 mg/L	Resistivity	4.367 ohm-m	
pH	7.7 units		(@ 25 Degrees C)		
TDS	2,140 mg/l		Conductivity	2,290 uS	
			Specific Gravity	1.0048	
			(@ 60 Degrees F)		

Remarks:

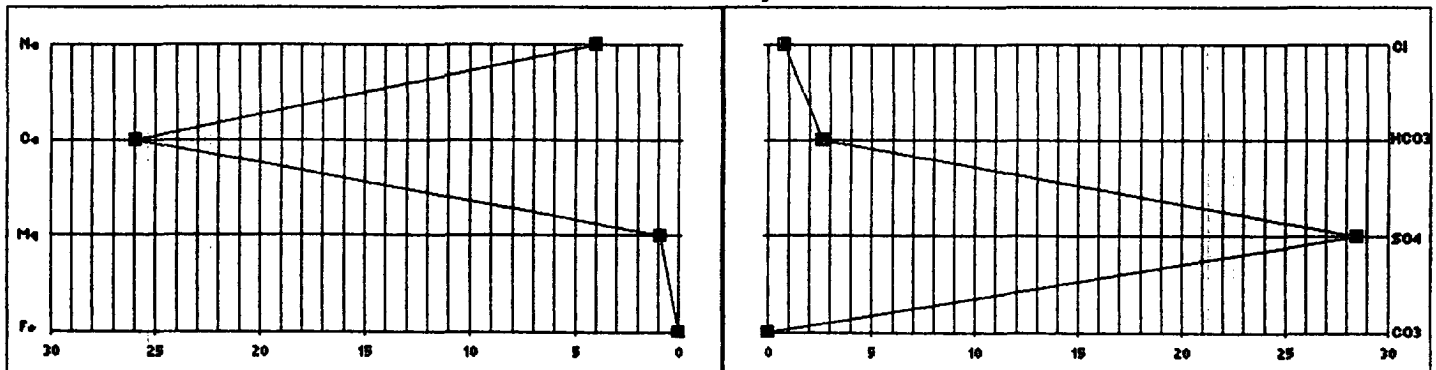


NR = Test Not Run

Anion/Cation:

102.8%

Stiff Diagram



DRILLERS REPORT

WELL# N.E.B.U. # 473, 40

G S 26-31-

[illegible]

ER Mark A. Smith

INSPECTOR *MM.*

CATHODIC GROUND BED DRILLERS REPORT

P-20 WELL# N.F.B.U. #473, #40

C S 36 T 31-

NO	STRATA	NOTES	DEPTH	STRATA	NOTES
100	Case				
100	Shale				
120					
120	Sandstone				
140					
140	Sandy Shale				
200					
200	Sandstone				
220					
220	Sandy Shale				
240					
240	Sandstone				
260					
260	Sandy Shale				
280					
280	Sandstone				
300					
300	Shale				
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320	Sandstone				
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LER

INSPECTOR MM