

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

#453 → 30-045-27263

#23 → 30-045-13332

3596

Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec. 6, Twp 30N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 453, 23Elevation 6200' Completion Date 11-21-93 Total Depth 495' Land Type* Surface: F Mineral: SF-079042Casing, 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, 120'Depths gas encountered: N/AType & amount of coke breeze used: 133 sx Asbury Graphite Flo-CokeDepths anodes placed: 200' - 445'Depths vent pipes placed: 495' to 4' above ground levelVent pipe perforations: 114' - 495'Remarks: Ground Bed located 140' S 49° of NEBU #453 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 EngineerDate: 1/3/94



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

Lab Number:

W93-483

Standard A.P.I. Water Analysis Report

Company: BLACKWOOD & NICHOLS CO., LTD. Date Collected: 11/9/93
Well Name: P-12; NEBU #453 & #23 Date Received: 11/11/93
Formation: Surface Date Analyzed: 11/13/93
Location: SW SEC. 6-T30-R07 County: San Juan State: New Mexico
Collected By: J. Evans Analyst: Sheila Feltman *Sheila*
Remarks: GROUND BED - DRILLING @ 200'; HIT WATER @ 150'

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	80 mg/l		Chloride, Cl	27 mg/l	
Potassium, K	2 mg/l		Sulfate, SO ₄	920 mg/l	
Calcium, Ca	210 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	49 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NOT RUN	Bicarbonate, HCO ₃	98 mg/l	
Hydrogen Sulfide	0 mg/l	<0.1 mg/l	Resistivity	6.579 ohm-m	
pH	8.0 units		(@ 25 Degrees C)		
Total Dissolved Solids:	1,220 mg/l		Conductivity	1,520 uS	
			Specific Gravity	1.0020	
			(@ 60 Degrees F)		

Remarks:

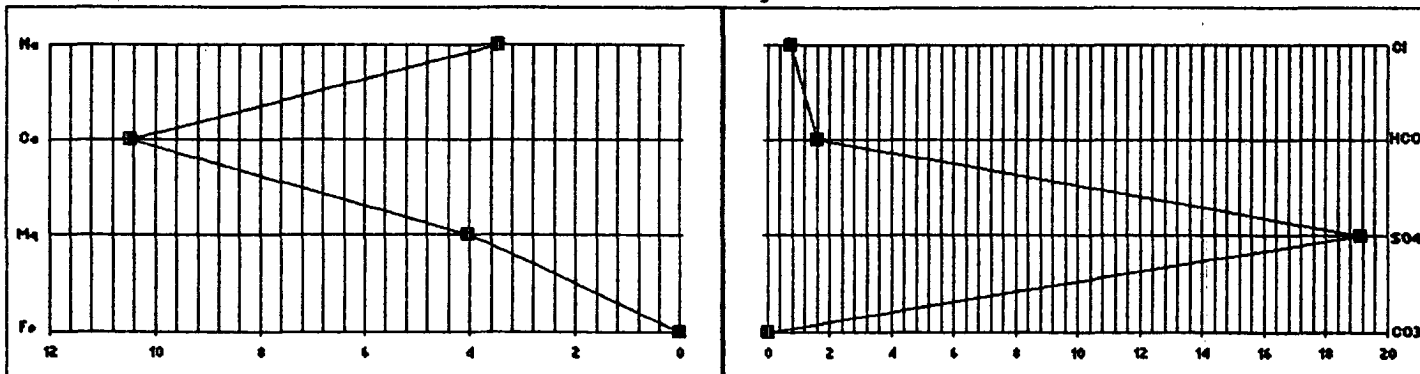
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CON. DIV.
DIST. 9

Anion/Cation:

1198

Stiff Diagram



CATHODIC GROUND BED DRILLERS REPORT

-12
WELL# NEBU-453+23

S. 6 T 30-0

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DIST. 3

Mark Bailey

INSPECTOR

CATHODIC GROUND BED DRILLERS REPORT

412

WELL# NEBU # 453 + # 23

S 6 T30-07

	STRATA	NOTES	DEPTH	STRATA	NOTE
10	Casing				
10	Sandstone				
20	Shale				
30	Sandstone				
40	Shale				
50	Sandstone				
60	Shale				
70	Sandstone				
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870	Sandstone				
880	Shale				
890	Sandstone				
900	Shale				
910	Sandstone				</

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INSPECTOR