DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS P-12
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, 23

Elevation 6200' Completion Date 11-21-93 Total Depth 495' Land Type* **Surface: F Mineral: SF-079042**

Casing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7-7/8" Open Hole

If 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/A

Type & amount of coke breeze used: 133 sx Asbury Graphite Flo-Coke

Depths anodes placed: 200' - 445'

Depths vent pipes placed: 495' to 4' above ground level

Vent pipe perforations: 114' - 495'

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DIST. 3

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. Allen Title: Operations Engineer Date: 1/3/94

WATER ANALYSIS TESTING ENVIRONMENTAL REPORTS

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
Remarks:	GROUNDBED - DRILLING @ 200'; HIT WATER @ 150'		

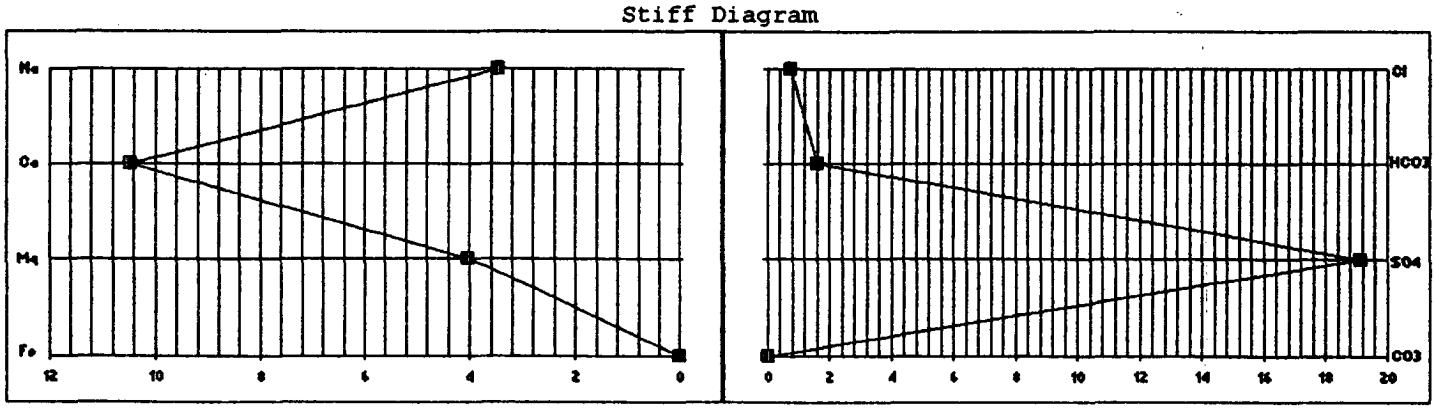
PARAMETER	as ION		Comment
Sodium , Na	80	mg/l	
Potassium, K	2	mg/l	
Calcium , Ca	210	mg/l	
Magnesium , Mg	49	mg/l	
Iron, Fe (Total)	0	mg/l	NOT RUN
Hydrogen Sulfide	0	mg/l	<0.1 mg/l
pH	8.0	units	
Total Dissolved Solids:	1,220	mg	

PARAMETER	as ION		Comment
Chloride , Cl	27	mg/l	
Sulfate, SO4	920	mg/l	
Hydroxide, OH	0	mg/l	
Carbonate, CO3	0	mg/l	
Bicarbonate, HCO3	98	mg/l	
Resistivity (@25 Degrees C)	6.579	ohm-m	
Conductivity	1,520	uS	
Specific Gravity (@ 60 Degrees F)	1.0020		

Remarks:

Anion/Cation: 119%

Stiff Diagram



Scale: Meq/L

CATHODIC GROUND BED
DRILLERS REPORT

-12 WELL# NEBU-453+423 S 6 T 30-0

STRATA	NOTES	DEPTH	STRATA	NOTES
5 Fill				
12 Gravels	7' Boulders J.D.E.			
75 Sand				
100 Shale				

Mark Bailey

INSPECTOR J.D.E

CATHODIC GROUND BED
DRILLERS REPORT

-12

WELL# NEBU #453 + #23 S 6 T30-0

	STRATA	NOTES	DEPTH	STRATA	NOTE
-10	Casing				
0- 50	Sandstone				
50- 210	Shale				
0- 40	Sandstone				
10- 70	Shale				
70- 110	Sandy Shale				
10- 50	Shale				
50- 60	Sandstone				
0- 70	Sandy Shale				
70- 90	Sandstone				
0- 0	Shale				
0- 20	Sandy Shale				
20- 50	Shale				
50- 0	Sandy Shale				

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OIL CON. DIV.
DIST. 3

ER

INSPECTOR J.D.E.