

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

P-8

4257

Operator: BLACKWOOD & NICHOLS CO. Location: Unit A, Sec. 12, Twp 30N, Rng 8W.

Name of Well/Wells or Pipeline Served NEBU 467, 30

467 - 30-045-21353 30 - 30-045-09137

Elevation 6380' Completion Date 12-4-93 Total Depth 495' Land Type* Surface: F Mineral: SF-078581

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

If Casing is cemented, show amounts & types used 20 sks Portland Zia I-II

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, 280' of standing water

Depths gas encountered: N/A

Type & amount of coke breeze used: Asbury Flo Coke 6,000#

Depths anodes placed: 153' - 423'

Depths vent pipes placed: Bottom to 4' Above Ground Level

Vent pipe perforations: Bottom - 380'

Remarks: Groundbed located 249' N 30° E of NEBU #467 wellhead.

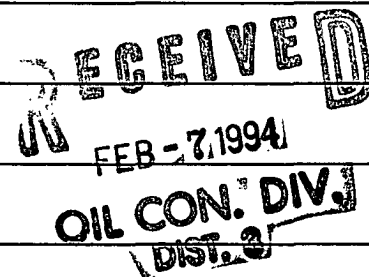
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Signed by: Jama K. All

Title: Operations Engineer

Date: 2/3/94





1115 Farmington Avenue - Farmington, NM 8740
(505) 325-108

Lab Number:

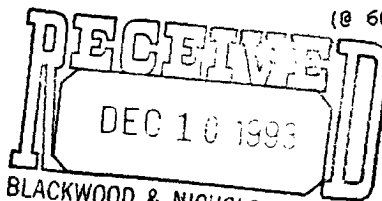
W93-508

Standard A.P.I. Water Analysis Report

Company: BLACKWOOD & NICHOLS CO., LTD. Date Collected: 12/3/93
Well Name: P-8; NEBU #467 & #30 Date Received: 12/6/93
Formation: San Jose Date Analyzed: 12/8/93
Location: UNIT A SEC.12-T30-R08 County: San Juan State: New Mexico
Collected By: J. Evans Analyst: Sheila Feltman *Sheila*
Remarks: Groundbed - Drilling @ 310'

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	59 mg/l		Chloride, Cl	12 mg/l	
Potassium, K	5 mg/l		Sulfate, SO ₄	1230 mg/l	
Calcium, Ca	490 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	29 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NOT RUN	Bicarbonate, HCO ₃	170 mg/l	
Hydrogen Sulfide	0 mg/l	<0.1 mg/L	Resistivity	4.39 ohm-m	
pH	8.0 units		(@25 Degrees C)		
Total Dissolved Solids	2,140 mg/l		Conductivity	2,280 uS	
			Specific Gravity	1.004	
			(@ 60 Degrees F)		

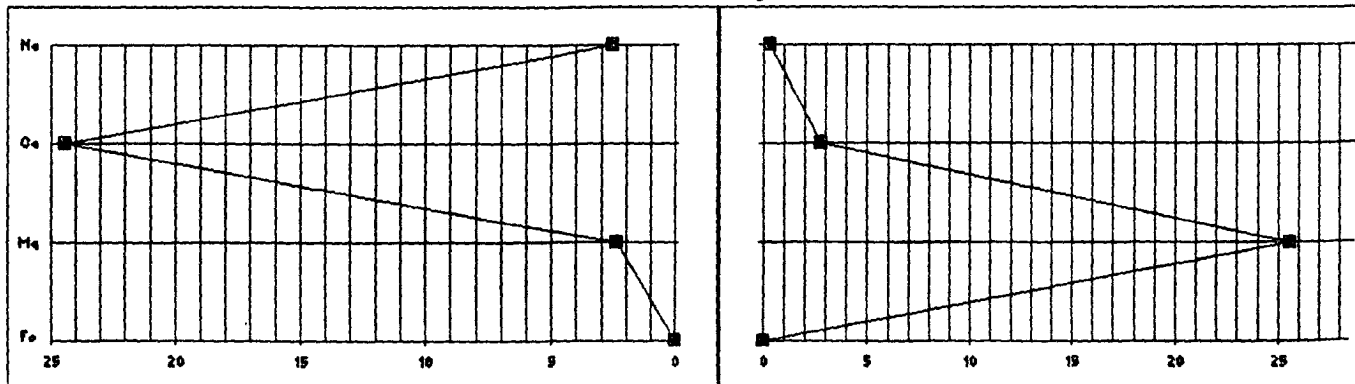
Remarks:



BLACKWOOD & NICHOLS CO., LTD.

Anion/Cation:

Stiff Diagram



CATHODIC GROUND BED DRILLERS REPORT

P-8 WELL # NEBU#467+30

R8W
 S 12 T30N

TH	STRATA	NOTES	DEPTH	STRATA	NOTES
0	X	TOP SOIL			
5'	X				
10'					
15'	X	16' OF BOULDERS			
20'	X				
25'		SANDSTONE			
30'					
35'	X				
40'	X				
45'		SHALE			
50'	X				
55'	X				
60'					
65'					
70'					
75'					
80'					
85'					
90'	S				
95'					
100'	✓				

LER _____

INSPECTOR

Jan Matyssek

CATHODIC GROUND BED
DRILLERS REPORT

P-B

WELL# N.E.B.U. #467, #30

A S 12 T 30-8

TH	STRATA	NOTES	DEPTH	STRATA	NOTES
0	Casing				
100	Sandstone				
120	Sandstone				
130	Shale				
130	Shale				
140	Sandstone				
170	Sandstone				
200	Sandstone				
280	Sandstone				
300	Sandstone				
300	Sandstone				
320	Sandstone				
330	Sandstone				
350	Shale				
370	Shale				
390	Sandstone				
410	Shale				
420	Shale				
430	Sandstone				
440	Shale				
450	Sandstone				
460					
470					
480					
490					
500					
510					
520					
530					
540					
550					
560					
570					
580					
590					
600					

LER

INSPECTOR

MDM