

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

P-21

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

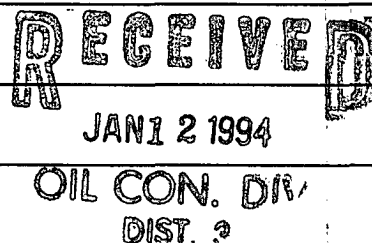
3595

#457 → 30-045-27266

#66A → 30-045-22922

Operator: BLACKWOOD & NICHOLS CO. Location: Unit F, Sec. 31, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 457, 66AElevation 6400' Completion Date 11-5-93 Total Depth 495' Land Type\* Surface: F Mineral: SF-079082Casing, 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 &amp; thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. Clear, 395'Depths gas encountered: N/AType & amount of coke breeze used: AsburyDepths anodes placed: 170' - 380' (15)Depths vent pipes placed: Bottom to 4' above ground levelVent pipe perforations: Bottom - 380'Remarks: Ground Bed located East of NEBU #457 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:

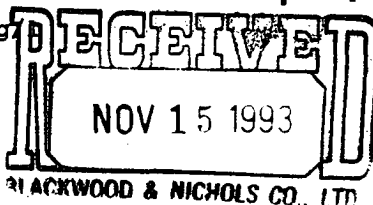
W93-463

Standard A.P.I. Water Analysis Report

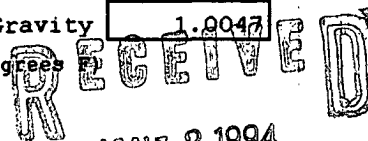
Company: BLACKWOOD & NICHOLS CO., LTD. Date Collected: 11/2/93  
Well Name: P 21; NEBU #457 & #66A Date Received: 11/3/93  
Formation: SURFACE Date Analyzed: 11/10/93  
Location: NW 31-31-07 County: San Juan State: New Mexico  
Collected By: J. EVANS Analyst: Sheila Feltman  
Remarks: GROUNDBED - DRILLING @ 480'

| PARAMETER        | AS ION | Comment        | PARAMETER                     | AS ION | Comment |
|------------------|--------|----------------|-------------------------------|--------|---------|
| Sodium, Na       | 95     | mg/l           | Chloride, Cl                  | 25     | mg/l    |
| Potassium, K     | 8      | mg/l           | Sulfate, SO <sub>4</sub>      | 1270   | mg/l    |
| Calcium, Ca      | 440    | mg/l           | Hydroxide, OH                 | 0      | mg/l    |
| Magnesium, Mg    | 17     | mg/l           | Carbonate, CO <sub>3</sub>    | 0      | mg/l    |
| Iron, Fe (Total) | 0      | mg/l NR        | Bicarbonate, HCO <sub>3</sub> | 210    | mg/l    |
| Hydrogen Sulfide | 0      | mg/l <0.1 mg/L | Resistivity                   | 4.695  | ohm-m   |
| pH               | 7.8    | units          | (@25 Degrees C)               |        |         |
| TDS              | 1,900  | mg/l           | Conductivity                  | 2,130  | us      |
|                  |        |                | Specific Gravity              | 1.0047 |         |
|                  |        |                | (@ 60 Degrees F)              |        |         |

Remarks:



BLACKWOOD & NICHOLS CO., LTD



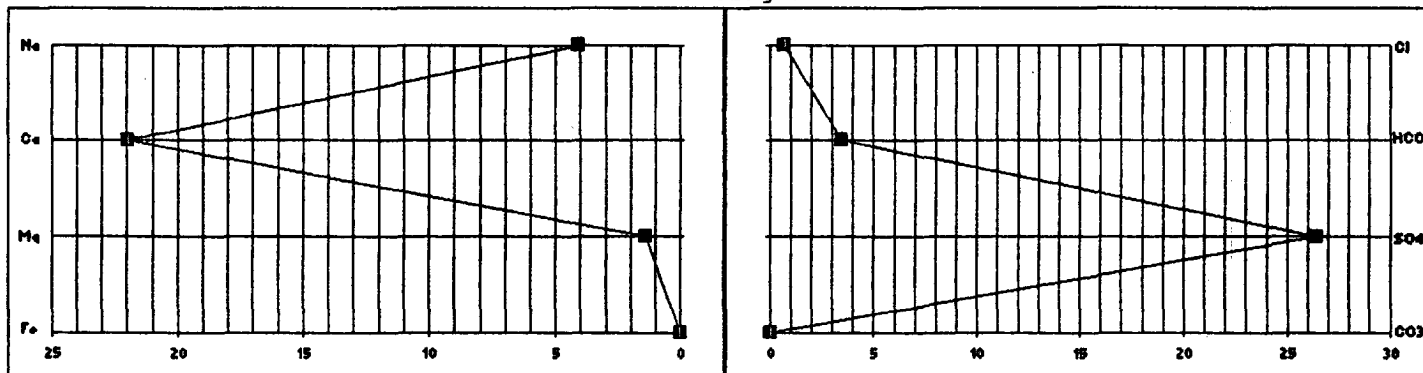
OIL CON. DIV.

NR = Test Not Run

Anion/Cation:

110.4%

Stiff Diagram



Scale: Meq/L

# CATHODIC GROUND BED DRILLERS REPORT

WELL# NFB.U. # 457, # 66A

F S 31 T 31-

[illegible]

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~~JAN 2 1994~~

~~CONFIDENTIAL~~  
 CON. DIV  
 DIST. 3

LER

INSPECTOR

NDM

# CATHODIC GROUND BED DRILLERS REPORT

WELL# NFB.U #457-#66A

FS 31 T 31-7

[illegible]

RECEIVED  
JAN 2 1994  
OIL CON. DIV.  
DIST. 3

R. Mark A. Spruill

INSPECTOR \_\_\_\_\_