

## DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 Copies to OCD Aztec Office)

MA-1

MA-2

4278

Operator: BLACKWOOD & NICHOLS CO. Location: Unit M, Sec. 10, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Served NEBU 464, 64, Middle Mesa CDP464 = 30-045-27548 64 = 30-045-23089Elevation 6671' Completion Date 9-12-93 Total Depth 550' Land Type\* MA-2: F Mineral: NM-03358Casing, 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-IIIf 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. No water.Depths gas encountered: N/AType & amount of coke breeze used: Asbury 6,950#Depths anodes placed: 150' - 435' (25)Depths vent pipes placed: TD to 4' Above Ground LevelVent pipe perforations: Bottom 230'

Remarks:

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. AllTitle: Operations EngineerDate: 11/19/93

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NOV 23 1993

OIL CON. DIV.  
DIST. 3



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

Lab Sample No.: W93-347

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 9/3/93

Well Name: MA #1

Collection Time: Unknown

Formation: Groundbed

County: Unknown State: Unknown

Location: Unknown

Analyst: K. Lambdin & S. Spencer

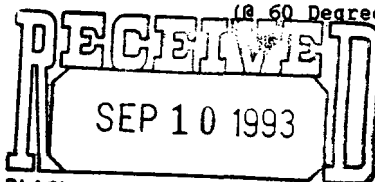
Remarks: Groundbed at 460 feet while drilling.

Analysis Date: 9/9/93

*S. Spencer*

| PARAMETER        | as ION     | Comment     | PARAMETER                     | as ION      | Comment |
|------------------|------------|-------------|-------------------------------|-------------|---------|
| Sodium, Na       | 1,170 mg/l | Calculated. | Chloride, Cl                  | 120 mg/l    |         |
| Potassium, K     | 20 mg/l    |             | Sulfate, SO <sub>4</sub>      | 3500 mg/l   |         |
| Calcium, Ca      | 490 mg/l   |             | Hydroxide, OH                 | 0 mg/l      |         |
| Magnesium, Mg    | 15 mg/l    |             | Carbonate, CO <sub>3</sub>    | 0 mg/l      |         |
| Iron, Fe (Total) | 0 mg/l     | NR          | Bicarbonate, HCO <sub>3</sub> | 61 mg/l     |         |
| Hydrogen Sulfide | 0 mg/l     | <0.1        | Resistivity                   | 1.842 ohm-m |         |
| pH               | 7.20 Units |             | (@25 Degrees C)               |             |         |
| TDS              | 3,770 mg/l |             | Conductivity                  | 5,430 uS    |         |
|                  |            |             | Specific Gravity              | 1.000 Units |         |
|                  |            |             | (@ 60 Degrees F)              |             |         |

Remarks: None.

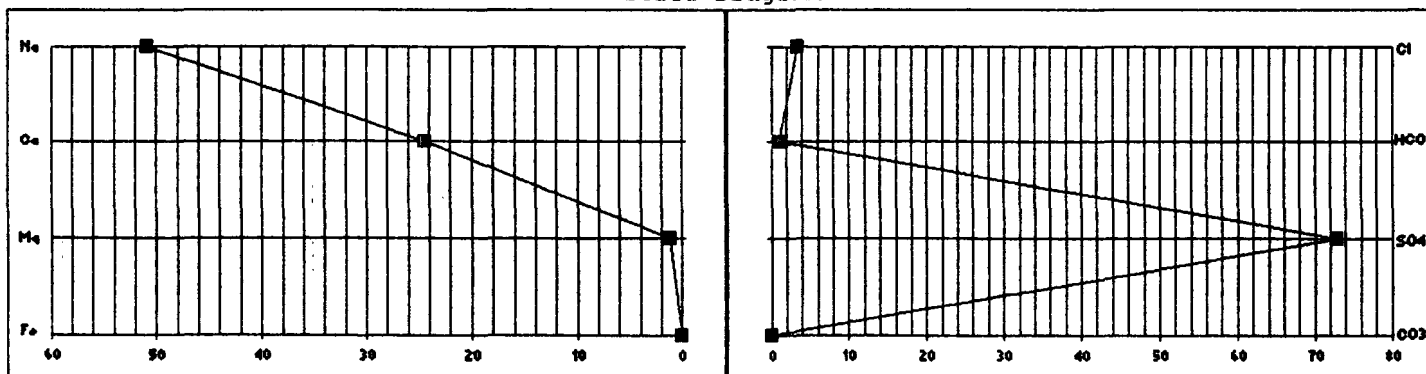


BLACKWOOD & NICHOLS CO., LTD.

NR = Test Not Run

Anion/Cation: 100.1%

Stiff Diagram



Scale: Meq/L

# BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

MA-1  
#MA-2 WELL# NERU#464 & C.D.P

S 10 T 3/11 R 2

[illegible]

ILLER gessle martinez

INSPECTOR Joe Matyssek

# CATHODIC GROUND BED DRILLERS REPORT

-1  
-2 WELL # NEBU# 464, 964, CDP

S / 0 T 3 / N 7

[illegible]

INSPECTOR

1991