

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

MD-6

30-045-28271

Operator: BLACKWOOD & NICHOLS CO. Location: Unit L, Sec. 7, Twp 31N, Rng 6W.

Name of Well/Wells or Pipeline Serviced NEBU 400R

Elevation 6630' Completion Date 8-3-93 Total Depth 450' Land Type\* Surface: F Mineral: SF-078988

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. Fresh, water from 240'

Depths gas encountered: N/A

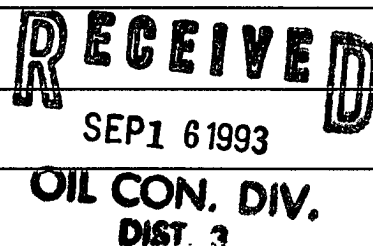
Type & amount of coke breeze used: 126 sx - Asbury, Flo-Coke

Depths anodes placed: 240' - 425'

Depths vent pipes placed: 450' to 4' above ground level

Vent pipe perforations: 110' - 450'

Remarks: Ground bed is located 185' N 56° E of NEBU 400R.



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: 8/27/93



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

Lab Sample No.: W93-256

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 30-Jul-93

Well Name: NEBU #400R

Collection Time: Unknown

Formation: Surface

County: San Juan State: NM

Location: (L) Sec. 7-T31N-R6W

Analyst: K. Lambdin & S. Spencer

Remarks: Groundbed wellbore at 240 feet. (MD-6)

Analysis Date: 8/2/93

*S. Spencer*

| PARAMETER        | as ION | Comment  | PARAMETER         | as ION | Comment |
|------------------|--------|----------|-------------------|--------|---------|
| Sodium , Na      | 380    | mg/l     | Chloride , Cl     | 215    | mg/l    |
| Potassium, K     | 3      | mg/l <10 | Sulfate, SO4      | 280    | mg/l    |
| Calcium , Ca     | 10     | mg/l     | Hydroxide, OH     | 0      | mg/l    |
| Magnesium , Mg   | 0      | mg/l <5  | Carbonate, CO3    | 31     | mg/l    |
| Iron, Fe (Total) | 0.0    | mg/l NR  | Bicarbonate, HCO3 | 305    | mg/l    |
| Hydrogen Sulfide | 0      | mg/l NR  | Resistivity       | 6.090  | ohm-m   |
| pH               | 8.50   | Units    | (@25 Degrees C)   |        |         |
| TDS              | 1,094  | mg/l     | Conductivity      | 1,642  | uS      |
|                  |        |          | Specific Gravity  | 1.000  | Units   |
|                  |        |          | (@ 60 Degrees F)  |        |         |

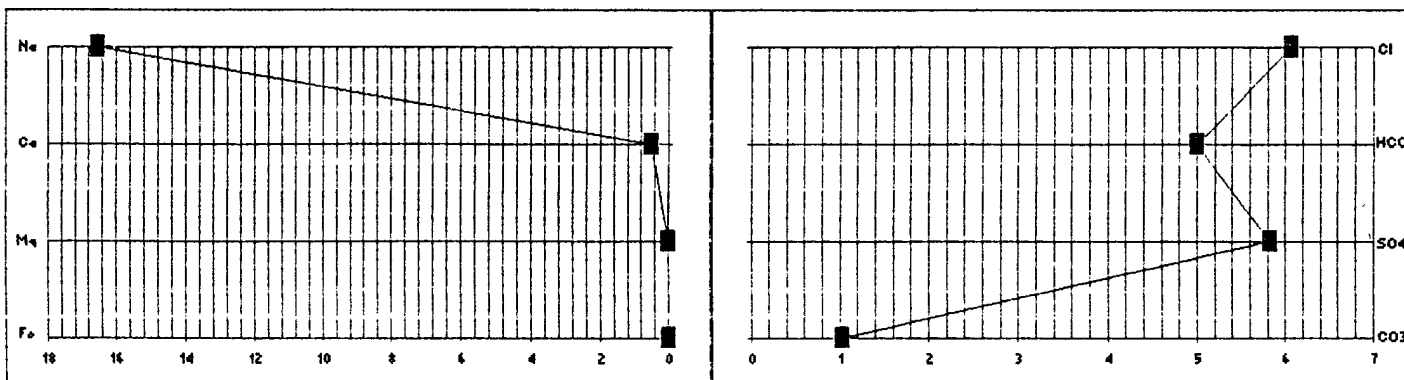
RECEIVED  
AUG 4 1993  
BLACKWOOD & NICHOLS CO., LTD.

Remarks: Sample contained a large quantity of fine silt.  
H2S not run due to cloudiness of sample.

NR = Test Not Run

Anion/Cation: 104.8%

Stiff Diagram



# BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

MD-6 WELL# NERU#400R

S 7 T 31N R 6H

| DEPTH | STRATA         | NOTES | DEPTH | STRATA | NOTES |
|-------|----------------|-------|-------|--------|-------|
| 5'    |                |       |       |        |       |
| 10'   |                |       |       |        |       |
| 15'   | ↑              |       |       |        |       |
| 20'   | W              |       |       |        |       |
| 25'   | Z              |       |       |        |       |
| 30'   | Z <sub>o</sub> |       |       |        |       |
| 35'   | H              |       |       |        |       |
| 40'   | NG             |       |       |        |       |
| 45'   |                |       |       |        |       |
| 50'   | X              |       |       |        |       |
| 55'   | X              |       |       |        |       |
| 60'   |                |       |       |        |       |
| 65'   |                |       |       |        |       |
| 70'   | F              |       |       |        |       |
| 75'   | L              |       |       |        |       |
| 80'   | A              |       |       |        |       |
| 85'   | H              |       |       |        |       |
| 90'   | S              |       |       |        |       |
| 95'   |                |       |       |        |       |
| 100   | ✓              |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |

ELLER gene machine

INSPECTOR

Joe Matyskiel

# BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

P# MD#6 WELL# NEBU #400R

S 7 T 31 R 4

[illegible]RILLER 12

INSPECTOR *QWZ.*