

#8 30-039-07880SW-13  
#409 30-039-24215

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

Operator: BLACKWOOD & NICHOLS CO. Location: Unit K, Sec. 10, Twp 30N, Rng 7W.

Name of Well/Wells or Pipeline Served NEBU 409, 8

Elevation 6260' Completion Date 7-7-93 Total Depth 410' Land Type\* Surface: S Mineral: SF-079001

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

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, Clear water at 250'

Depths gas encountered: \_\_\_\_\_

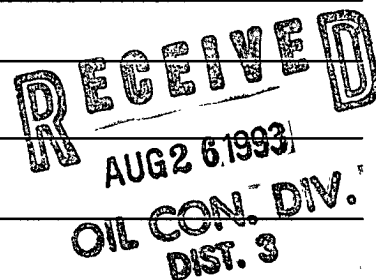
Type & amount of coke breeze used: Asbury Flo-coke

Depths anodes placed: 230' to 375'

Depths vent pipes placed: 388' to 4' above ground level

Vent pipe perforations: 108' to 388'

Remarks: Groundbed located N 35° W (270') from NEBU 409



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. Alee

Title: Operations Engineer

Date: 8/11/93



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

Lab Sample No.: W93-210

Standard A.P.I. Water Analysis Report

Collected By: J. Evans

Company: Blackwood and Nichols Co.

Collection Date: 6-Jul-93

Well Name: SN - 13

Collection Time: unknown

Formation: Groundbed Wellbore

County: Unknown State: Unknown

Location: Unknown

Analyst: S. Spencer

Remarks: Depth - 225 feet

Analysis Date: 7/10/93

*S. Spencer*

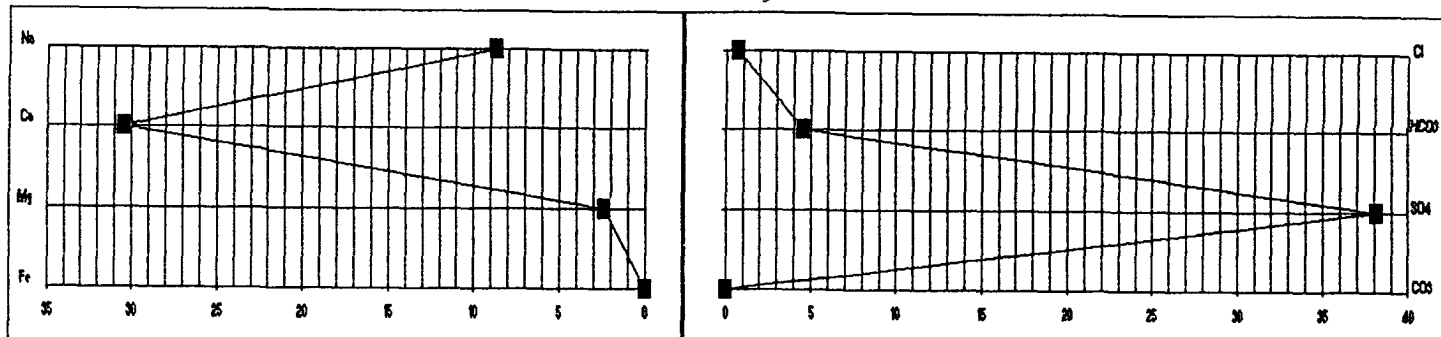
| PARAMETER        | as ION | Comment | PARAMETER                     | as ION | Comment |
|------------------|--------|---------|-------------------------------|--------|---------|
| Sodium, Na       | 200    | mg/l    | Chloride, Cl                  | 25     | mg/l    |
| Potassium, K     | 9      | mg/l    | Sulfate, SO <sub>4</sub>      | 1835   | mg/l    |
| Calcium, Ca      | 611    | mg/l    | Hydroxide, OH                 | 0      | mg/l    |
| Magnesium, Mg    | 29     | mg/l    | Carbonate, CO <sub>3</sub>    | 0      | mg/l    |
| Iron, Fe (Total) | 0.0    | mg/l NR | Bicarbonate, HCO <sub>3</sub> | 278    | mg/l    |
| Hydrogen Sulfide | 0      | mg/l <1 | Resistivity                   | 3.413  | ohm-m   |
| pH               | 7.35   | Units   | (@25 Degrees C)               |        |         |
| TDS              | 1,960  | mg/l    | Conductivity                  | 2,930  | uS      |
|                  |        |         | Specific Gravity              | 1.000  | Units   |
|                  |        |         | (@ 60 Degrees F)              |        |         |

Remarks: None.

NR = Test Not Run

Anion/Cation: 103.9%

Stiff Diagram



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BLACKWOOD & NICHOLS  
CATHODIC GROUND BED  
DRILLERS REPORT

#SN13 WELL#NER#8-10

S 10 T30N R7W

| DEPTH | STRATA         | NOTES | DEPTH | STRATA | NOTES |
|-------|----------------|-------|-------|--------|-------|
| 0     |                |       |       |        |       |
| 10'   | ↑              |       |       |        |       |
|       |                |       |       |        |       |
| 20'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 30'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 40'   | HARD SANDSTONE |       |       |        |       |
|       |                |       |       |        |       |
| 50'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 60'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 70'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 80'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 90'   |                |       |       |        |       |
|       |                |       |       |        |       |
| 100'  | ↓              |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |
|       |                |       |       |        |       |

DRILLER gerse mauting

INSPECTOR Joe Matysak

# BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

WELL# NEBU 409 + #8

S 10 T 30 R 20

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ILLER 

INSPECTOR Jose D. Evans