

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 M, Sec. 2, Twp 30N, Rng 7W.

Name of Well/Wells or Pipeline Serviced NEBU 417, 15

417 - 30-039-24321 15 - 30-039-07913

Elevation 6300' Completion Date 6-17-93 Total Depth 420' Land Type* Surface: S Mineral: E-289-9

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, 185' - 192'

Depths gas encountered: N/A

Type & amount of coke breeze used: Asbury Recarburized

Depths anodes placed: 395' to 185'

Depths vent pipes placed: 415' to 3' above ground level

Vent pipe perforations: 415' to 115'

Remarks: Drilling water from Frances Canyon.

RECEIVED

SEP 16 1993

OIL CON. D:
DIST. 3

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

CDS Laboratories
75 Suttle Street
PO Box 2605
Durango, Co. 81302

Phone: (303)-247-4220
Fax : (303)-247-4227

Report Date: 07/29/93

ANALYSIS REPORT

Attn:

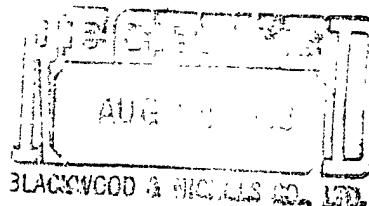
Blackwood & Nichols
PO Box 1237
Durango, CO 81302

Our Lab #: A93-118259
Sample ID: SN-22
Date Rec'd: 06/23/93

COLLECTION INFORMATION

Date/Time/By: 06/17/93 Loftis
Location: grnd bed, depth 190'

Lab#	Testname	Result	Units
A93-118259	Total alkalinity as CaCO3	115	mg/L
	Bicarbonate	140	mg/L
	Carbonate	0	mg/L
	Calcium dissolved	440	mg/L
	Chloride	10	mg/L
	Iron dissolved	< 0.5	mg/L
	Hardness as CaCO3	1190	mg/L
	Hydroxide	0	mg/L
	Potassium dissolved	5.3	mg/L
	Magnesium dissolved	21.3	mg/L
	Sodium dissolved	154	mg/L
	Ph	7.75	Units
	Resistivity	465	ohm-cm
	Specific Gravity	1.000	
	Sulfate	1380	mg/L
	Total dissolved solids	2260	mg/L



Approved By: Dr. Joe Bowden Checked By: [Signature]
Dr. Joe Bowden, Director

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

M S 2 T 30 R 7

DRILLER MR INSPECTOR Mary D. McFarland

INSPECTOR

Mary D. McFarland