

#302/30-039-23560

#497/30-039-24625 L-5

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 I, Sec. 30, Twp 31N, Rng 6W.

Name of Well/Wells or Pipeline Serviced NEBU 497, 302

Elevation 6500' Completion Date 6-7-93 Total Depth 275' Land Type* Surface: F Mineral: NM 03357

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 19 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, 65' to 70' - 110' to 115'

Depths gas encountered: N/A

Type & amount of coke breeze used: Anotec Sha-Carbon Graphite - 3,300#

Depths anodes placed: 265' to 115' - 15 anodes

Depths vent pipes placed: 275' to 6' above ground level

Vent pipe perforations: 1" PVC - 275' to 110'

Remarks:

500' 162° SE of 497.

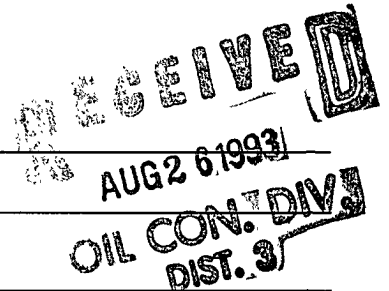
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Signed by: James K. Abery

Title: Operations Engineer

Date: 8/11/93



BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

CP# L-5 WELL# 497 & 302

I S 30 T 31 R 6

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
0					
100	Casing				
110	H2O	Fresh WATER.			
120	BLACK SHALE				
130	↓				
140	GRAY SANDSTONE				
150	↓				
160	STREAK BLACK SHALE				
170	GRAY SANDSTONE				
180	GRAY SHALE				
190					
200					
210					
220					
230					
240					
250					
260					
270					
280					
290	↓				

DRILLER 

INSPECTOR Mark D. McFarland

.. 6-9-93

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

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

Report Date: 07/08/93

ANALYSIS REPORT

Attn:

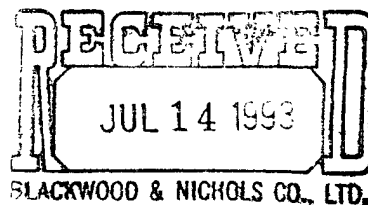
Blackwood & Nichols
PO Box 1237
Durango, CO 81302

Our Lab #: A93-118064
Sample ID: L-5
Date Rec'd: 06/15/93

COLLECTION INFORMATION

Date/Time/By: 06/07/93 Loftis
Location: Ground Bed; depth 110'

Lab#	Testname	Result	Units
A93-118064	Total alkalinity as CaCO3	214	mg/L
	Bicarbonate	261	mg/L
	Carbonate	0	mg/L
	Calcium dissolved	18.9	mg/L
	Chloride	15	mg/L
	Iron dissolved	< 0.5	mg/L
	Hardness as CaCO3	64.5	mg/L
	Hydroxide	0	mg/L
	Potassium dissolved	1.9	mg/L
	Magnesium dissolved	3.4	mg/L
	Sodium dissolved	340	mg/L
	Ph	8.16	Units
	Resistivity	630	ohm-cm
	Specific Gravity	insuff samp	
	Sulfate	560	mg/L
	Total dissolved solids	1320	mg/L



Approved By: _____

Dr. Joe Bowden, Director

Checked By: _____