

#11 30-039-07947
#493 30-039-24620
L-2

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 H, Sec. 25, Twp 31N, Rng 7W.

Name of Well/Wells or Pipeline Serviced NEBU 493, 11

Elevation 6400'± Completion Date 6/4/93 Total Depth 405' Land Type* Surface: F Mineral: SF-079010

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, 170'

Depths gas encountered: N/A

Type & amount of coke breeze used: Asbury, (4518) Flo-Coke - 5,700#

Depths anodes placed: 350' to 174' - 15 anodes

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

Vent pipe perforations: Bottom to 100'

Remarks: Good water.

195' 320° NW of 493 wellhead

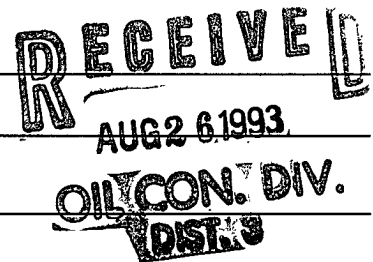
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*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: 8/11/93



CDS Laboratories
75 Suttle Street
PO Box 2605
Durango, CO 81302-2605

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

PRELIMINARY ANALYSIS REPORT

Blackwood & Nichols

Our Lab #: A93-117940

Sample ID: L-2

Sample Date 6/4/93

Rec'd 6/9/93

lab#	testname	Result	units
A93-117940	Total alkalinity as CaCO ₃	257	mg/L
	Bicarbonate	314	mg/L
	Carbonate	0	mg/L
	Calcium dissolved	568	mg/L
	Chloride	15	mg/L
	Iron dissolved		mg/L
	Hardness as CaCO ₃	1880	mg/L
	Hydroxide	0	mg/L
	Potassium dissolved	6.3	mg/L
	Magnesium dissolved	227	mg/L
	Sodium dissolved	646	mg/L
	Ph	7.51	Units
	Resistivity	225	ohm-cm
	Specific Gravity	1.000	
	Sulfate	3150	mg/L
	Total dissolved solids	4600	mg/L

Checked by: SKD

Date: 6/21/93

BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

6-4-93

CP# L-2 WELL# 493 + 11

S 25 T 31 R 7

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
0			340	Grey Sandstone	
100		CASING	350		
110	Brown Sand +	Brown Sand + Clay	360		
120	CLAY ↓		370		
130			380		
140	Hard White ↓		390		
150	Sandstone ↓		400		
160	Black Shale		410	↓	TD
170	Grey Shale				
180					
190					
200					
210					
220	↓				
230	Grey Sandstone with shale streaks				
240	↓				
250	Grey Sandstone				
260					
270					
280					
290					
300					
310					
320	↓				
330	Grey Sandstone with shale streaks				

DRILLER 

INSPECTOR Mark D. Michael