

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

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 Served 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

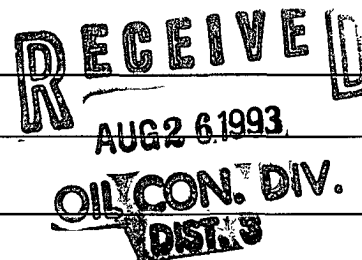
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*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
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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

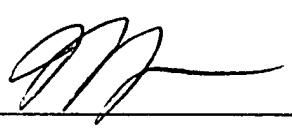
BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

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. McFarland