

30-039-24659

L-1

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 J, Sec. 25, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 491Elevation 6200' Completion Date 6-6-93 Total Depth 360' Land Type* Surface: F Mineral: SF-079010Casing, 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, 190' - 200'Depths gas encountered: N/AType & amount of coke breeze used: Asbury, (4518) Flo-Coke - 4,700#Depths anodes placed: 330' to 205' - 10 anodesDepths vent pipes placed: 350' to 4' above ground levelVent pipe perforations: 350' to 100'

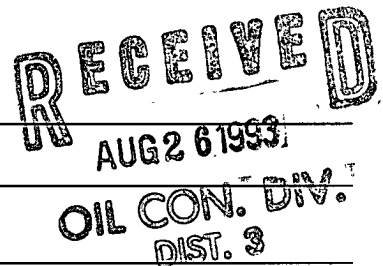
Remarks:

177' 220° SW of 491 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. AllenTitle: Operations EngineerDate: 8/11/93

BLACKWOOD & NICHOLS
CATHODIC GROUND BED
DRILLERS REPORT

6-6-93

CP# 6-1 WELL# NEB 491

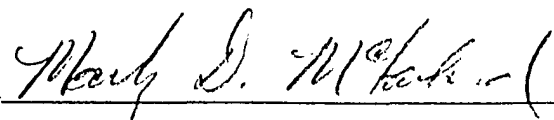
S 25 T 31 R 7

DEPTH	STRATA	NOTES	DEPTH	STRATA	NOTES
0	↑		340	Grey Sandstone	
100	↓	CASING		+ clay	
110	Black Shale		350	Grey Sandstone	
120	↓		360	Grey Sandstone	TD
130	↓				
140	↓				
150	↓				
160	Grey Sandstone				
170	↓				
180	↓				
190	H ₂ O	Fresh Water			
200	↓				
210	Grey Shale				
220	↓				
230	↓				
240	↓				
250	Grey Sandstone				
260	↓				
270	↓				
280	↓				
290	Grey Sandstone				
300	+ Clay				
310	↓				
320	↓				
330	↓				

DRILLER



INSPECTOR



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 #: A93-117939
Sample ID: L-1

Sample Date 6/5/93
Rec'd 6/9/93

lab#	testname	Result	units
A93-117939	Total alkalinity as CaCO ₃	182	mg/L
	Bicarbonate	222	mg/L
	Carbonate	0	mg/L
	Calcium dissolved	599	mg/L
	Chloride	< 10	mg/L
	Iron dissolved		mg/L
	Hardness as CaCO ₃	1390	mg/L
	Hydroxide	0	mg/L
	Potassium dissolved	10.3	mg/L
	Magnesium dissolved	59.9	mg/L
	Sodium dissolved	394	mg/L
	Ph	7.61	Units
	Resistivity	300	ohm-cm
	Specific Gravity	1.000	
	Sulfate	1940	mg/L
	Total dissolved solids	3330	mg/L

Checked by: SKD

Date: 6/21/93