

NORTHWESTERN NEW MEXICO
(Submit 3 Copies to OCD Aztec Office)

30-045-27705

Operator: BLACKWOOD & NICHOLS CO. Location: Unit L, Sec. 12, Twp 31N, Rng 7W.Name of Well/Wells or Pipeline Serviced NEBU 489Elevation 6410 Completion Date 8-5-93 Total Depth 380' Land Type* Surface: P Mineral: FeeCasing, Sizes, Types & Depths 8-5/8" SCH 40 P.V.C. - 100', 7-7/8" Open HoleIf 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:

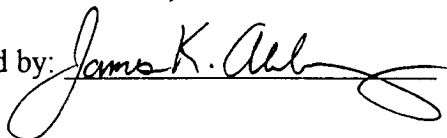
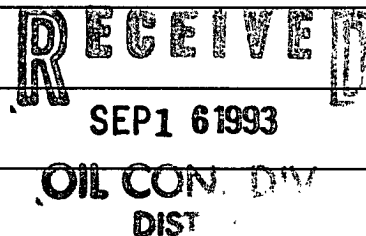
Fresh, Clear, Salty, Sulphur, Etc. Fresh, 235'Depths gas encountered: N/AType & amount of coke breeze used: Asbury 4,725#Depths anodes placed: 267' to 355'Depths vent pipes placed: Drillers TD to 4' above ground levelVent pipe perforations: Bottom 280'Remarks: Ground bed is located 28° from North and 130' from 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:

Title: Operations EngineerDate: 8/27/93



1115 Farmington Avenue - Farmington, NM 87401
(505) 325-1085

Lab Sample No.: W93-277

Standard A.P.I. Water Analysis Report

Collected By: M.D.M.

Company: Blackwood and Nichols Co.

Collection Date: 6-Aug-93

Well Name: MD - 4

Collection Time: Unknown

Formation: Surface

County: Unknown State: Unknown

Location: (L) Sec. 12-T31N-R7W

Analyst: K. Lambdin & S. Spencer

Remarks: Depth Sampled - 235 feet

Analysis Date: 8/10/93

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	360 mg/l		Chloride, Cl	20 mg/l	
Potassium, K	7 mg/l		Sulfate, SO ₄	546 mg/l	
Calcium, Ca	32 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	7 mg/l		Carbonate, CO ₃	8 mg/l	
Iron, Fe (Total)	0.0 mg/l	NR	Bicarbonate, HCO ₃	387 mg/l	
Hydrogen Sulfide	0 mg/l	<0.1	Resistivity	6.431 ohm-m	
pH	8.32 Units		(@25 Degrees C)		
TDS	1,094 mg/l		Conductivity	1,555 uS	
			Specific Gravity	1.000 Units	
			(@ 60 Degrees F)		

Remarks: None.

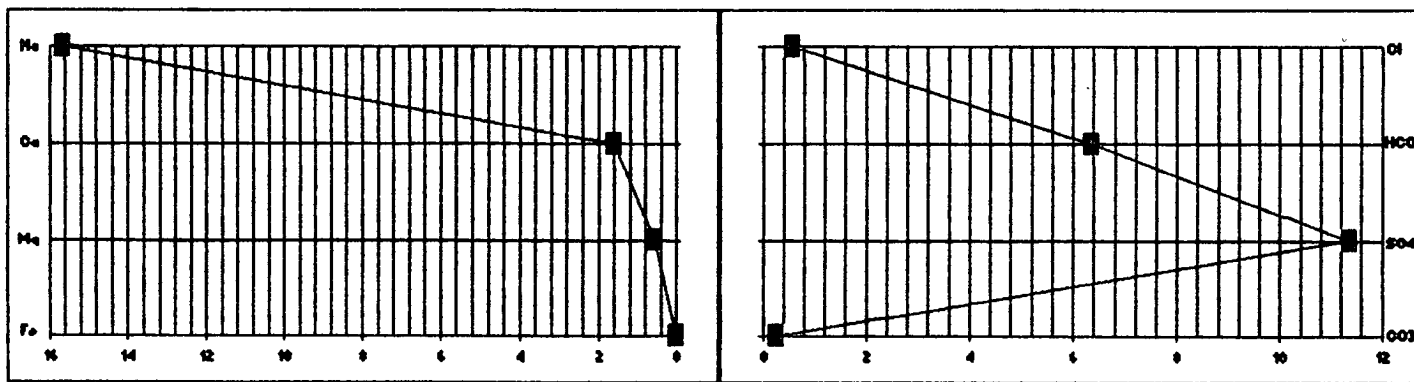
AUG 12 1993

BLACKWOOD & NICHOLS CO., LTD.

NR = Test Not Run

Anion/Cation: 102.9%

Stiff Diagram



Scale: Meq/L

BLACKWOOD & NICHOLS CATHODIC GROUND 'BED DRILLERS REPORT'

P# MD-4 WELL# NEBU#289

S 12 T 31N R 11

[illegible]

RILLER Gene Martiney

INSPECTOR Joe Matysak

BLACKWOOD & NICHOLS CATHODIC GROUND BED DRILLERS REPORT

CP# MD-4 WELL# N.E.B.U. #489

L S 12 T 31 R

[illegible]

DRILLER 

INSPECTOR MDM.