P. O. BOX 1468 MONAHANS, TEXAS 79786 PHONE 943-3234 OR 562-1040

Martin Water Laboratories, Inc.

709 W. INDIANA MIDLAND, TEXAS 79701 Phone 683-4821

RESULT OF WATER ANALYSES

	LABORATORY NO. 6812
TO:District Engineer	SAMPLE RECEIVED _6-1-81
P.O. Box 4815, Midland, Texas	RESULTS REPORTED 6-1-81

COMPANYEnserch_Exploration. Inc	LEASE <u>Amoco State</u>	
FIELD OR POOL		
SECTION BLOCK SURVEY	COUNTY ROOSEVELT STATE	New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Amoco State #1. 5-29-81

NO. 2 Produced water - taken from Amoco State #2. 5-29-81

NO. 3 Produced water - taken from Amoco State #3. 5-29-81

NO. 4 _____

CHEMIC	Pennsylvani			
	NO. 1	NO. 2	NO. 3	
Specific Gravity at 60° F.	1.1019	1.1021	1.1084	NO. 4
pH When Sampled			1.1004	
pH When Received	5.8	5.9	5.3	
Bicarbonate as HCO3	354	329		
Supersaturation as CaCO3		1	110	
Undersaturation as CaCO3				
Total Hardness as CaCO3	27.000	27.500	21 500	
Calcium as Ca	9,600	10.000	31,500	
Magnesium as Mg	729	608	11.200	
Sodium and/or Potassium	46,988	46.736	851	
Sulfate as SO4	656	6 32	46,609	
Chloride as Cl	90,904	90,904	535	
Iron as Fe	92.8	140	93,745	
Barium as Ba		+	97.5	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	149,231	149,209	152.050	
Temperature °F.		-141,2119	153,050	
Carbon Dioxide, Calculated		1		
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	0.070	0.070	0.069	
Suspended Oil			0.009	
Filtrable Solids as mg/1				
Volume Filtered, ml				
				•
				···
	ults Reported As Milligrams			
Additional Determinations And Remarks Based	on a comparison	with our reco	ords of Pennsy	lvanian
ater in the South Peterson fie e a natural connate Pennsylvan	ld, the above wai	ter from all 1	hree wells app	pears to

Form No. 3

Waylan C. Martin, M. A.

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