P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

JUL 9 1979

LABORATORY NO. 679309

TO: Mr. Jerry Nash
P.O.Box 4315, Midland, Texas

SAMPLE RECEIVED 6-28-79

RESULTS REPORTED 7-5-79

COMPANY Enserch Exploration, Inc. LEASE Lambirth

FIELD OR POOL South Peterson

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Roosevelt STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced (Penn) water - taken from Lambirth #4. 6-27-79

NO. 2 Produced (Fusselman) water - taken from Lambirth #6. 6-27-79

NO. 3 Produced (Fusselman) water - taken from Lambirth #7. 6-27-79

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0698	1.0717	1.0721	
pH When Sampled				
pH When Received	6.7	6.7	6.7	
Bicarbonate as HCO_3	476	566	637	
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	23,400	16,300	17,800	
Calcium as Ca	7,040	4,560	5,120	
Magnesium as Mg	1,409	1,191	1,215	
Sodium and/or Potassium	30,268	34,682	33,902	
Sulfate as SO_4	662	1,066	821	
Chloride as Cl	62,497	63,917	63,917	
Iron as Fe	81.1	56.6	97.5	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	102,352	105,982	105,612	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohms/m at 77° F.	0.093	0.091	0.091	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: We are not familiar with the objectives herein; but if a differentiation is desired, we see only a very slightly higher calcium and magnesium and lower sodium and sulfate in the Pennsylvanian water as compared to the Fusselman. This is considered a relatively minor difference; but if conclusive evidence as to the stability of the characteristics can be acquired, then it would be possible to differentiate the waters.

Form No. 3

By

Waylan C. Martin, M. A.