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Martin Water Laboratories, Inc.

REC'D MAR 28 2000

709 W. INDIANA  
MIDLAND, TEXAS 79701  
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## RESULT OF WATER ANALYSES

TO: Mr. Terry Lawler LABORATORY NO. 300184  
3300 North "A" Street, Bldg. 4, Ste. 100 SAMPLE RECEIVED 3-24-00  
Midland, TX 79705 RESULTS REPORTED 3-27-00

COMPANY Energen Resources Corporation LEASE Langlie-Lynn

FIELD OR POOL \_\_\_\_\_

SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE NM

## SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Texaco Jal Water System. 3-24-00

NO. 2 Produced water - taken from Langlie-Lynn. 3-24-00

NO. 3 \_\_\_\_\_

NO. 4 \_\_\_\_\_

## REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0087	1.0282		
pH When Sampled				
pH When Received	6.94	7.14		
Bicarbonate as HCO <sub>3</sub>	927	1,586		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	3,200	6,200		
Calcium as Ca	720	352		
Magnesium as Mg	340	1,293		
Sodium and/or Potassium	1,834	9,502		
Sulfate as SO <sub>4</sub>	1,751	508		
Chloride as Cl	3,266	17,750		
Iron as Fe	0.27	12.5		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	8,838	30,991		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	95.0	27.0		
Resistivity, ohms/m at 77° F.	0.740	0.250		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The objective herein is to evaluate the compatibility between the two waters represented. A careful study of these waters has revealed no evidence of any incompatibility in any proportion of mixtures between these two waters. This is to say that we would not expect any scaling potential or precipitation as a result of combining these waters.

NMOCD CASE NO. 13,170  
DECEMBER 4, 2003  
ENERGEN EXHIBIT NO. 6

Form No. 3

By \_\_\_\_\_

Waylan C. Martin, M.A.