

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

RESULT OF WATER ANALYSES

406 W. ILLINOIS
MIDLAND, TEXAS 79701
PHONE 683-4521

TO: Mr. Erd. Johnson LABORATORY NO. 777266
312 HRF Building, Midland, Texas SAMPLE RECEIVED 7-27-77
RESULTS REPORTED 1-1-77

COMPANY Reserve Oil, Inc. LEASE Cooper Jal Unit

FIELD OR POOL _____

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from Cooper Jal Unit #117.

NO. 2 Produced water - taken from Cooper Jal Unit #121..

NO. 3 Produced water - taken from Cooper Jal Unit #128.

NO. 4 _____

REMARKS:

Langlie - Mattix (Lower)

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0328	1.0318	1.0199	
pH When Sampled				
pH When Received	8.1	8.2	7.85	
Bicarbonate as HCO ₃	1,232	1,165	1,104	
Supersaturation as CaCO ₃	180	185	150	
Undersaturation as CaCO ₃	--	--	--	
Total Hardness as CaCO ₃	10,400	10,000	6,000	
Calcium as Ca	900	580	448	
Magnesium as Mg	1,980	2,078	1,186	
Sodium and/or Potassium	13,257	12,147	8,310	
Sulfate as SO ₄	3,518	1,591	1,374	
Chloride as Cl.	24,502	23,969	15,411	
Iron as Fe	0.92	2.1	0.36	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	45,389	41,530	27,833	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	350	275	350	
Resistivity, ohms/m at 77° F.	0.174	0.193	0.270	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Sulfate Scaling Tendency	None	None	None	
Calcium Carbonate Scaling Tendency	Marginal	Marginal	Marginal	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Well No. Oil Gravity, °API
#125 37.6
#132 - 37.8