

4. 2. 1977

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

RESULT OF WATER ANALYSES

MIDLAND DISTRICT
408 W. ILLINOIS
MIDLAND, TEXAS 79701
PHONE 683-4521

LABORATORY NO. 777266 (Page 2)

TO: Mr. Erd Johnson

SAMPLE RECEIVED 7-27-77

312 HBF Building, Midland, Texas

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 #202.

NO. 2 Produced water - taken from Cooper Jal Unit #204.

NO. 3 Produced water - taken from Cooper Jal Unit #219.

NO. 4

REMARKS:

Jalmat (upper)

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0456	1.0512	1.0251	
pH When Sampled				
pH When Received	8.1	7.8	8.0	
Bicarbonate as HCO ₃	1,293	909	1,000	
Supersaturation as CaCO ₃	70	75	80	
Undersaturation as CaCO ₃	--	--	--	
Total Hardness as CaCO ₃	19,200	21,000	8,600	
Calcium as Ca	800	1,720	464	
Magnesium as Mg	4,180	4,058	1,808	
Sodium and/or Potassium	15,622	18,482	9,478	
Sulfate as SO ₄	2,915	4,188	1,776	
Chloride as Cl	34,799	39,771	18,820	
Iron as Fe	0.60	4.8	1.7	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	59,609	69,128	33,346	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	525	400	525	
Resistivity, ohms/m at 77° F.	0.139	0.122	0.234	
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Sulfate Scaling Tendency	None	None	None	
Calcium Carbonate Scaling Tendency	None	None	None	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks	Well No.	Oil Gravity, °API
	#206	37.1
	#221	37.9

Letter of recommendation attached.