

Exhibit 5
Case No. 8312
August 22, 1984

Data on Proposed Operation
of Gulf Oil Corporation's
North Seven Rivers Queen Pilot
Well Nos. 10WI, 11WI, 12WI, 13 WI

1-5012
7-10
741/1000
1000

1. Proposed average and maximum daily rate and volume of fluids to be injected:

Average daily rate of 525 BWPB
Maximum daily rate of 700 BWPB
2. The injection system will be closed.
3. The maximum injection pressure will be limited to 0.2 PSI/ft depth to the top most interval until an actual step rate test can be taken to determine the actual parting pressure. Once the parting pressure has been determined, the maximum injection pressure will be limited to this pressure upon approval of the OCD.
4. The source of injection fluids will be from Gulf Oil Corporation's Janda and Ramsay Consolidated batteries on the William A. Ramsay (NCT-A) Lease, northeast of the J. F. Janda (NCT-F) Lease.

RESULT OF WATER ANALYSES

LABORATORY NO. 584214 (Page 2)
TO: Mr. Chris Reznor SAMPLE RECEIVED 5-16-84
P.O. Box 670, Hobbs, NM RESULTS REPORTED 5-23-84

COMPANY Gulf Oil Exploration & Production LEASE As listed
FIELD OR POOL Company
SECTION BLOCK SURVEY COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Mixture of 35% Ramsay water & 65% Janda water.
NO. 2 Mixture of 25% Ramsay water & 75% Janda water.
NO. 3 Mixture of 4% Janda water & 96% disposal water.
NO. 4 Mixture of 11% Janda water & 89% disposal water.

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.				
pH When Sampled				
pH When Received				
Bicarbonate as HCO ₃	2,202	2,196	2,367	2,355
Supersaturation as CaCO ₃	225	260	90	155
Undersaturation as CaCO ₃	---	---	---	---
Total Hardness as CaCO ₃				
Calcium as Ca	360	356	480	456
Magnesium as Mg				
Sodium and/or Potassium				
Sulfate as SO ₄	394	400	316	316
Chloride as Cl	8,523	9,230	6,248	6,532
Iron as Fe				
Barium as Ba				
Turbidity, Electric	5	7	8	8
Color as Pt				
Total Solids, Calculated				
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide				
Resistivity, ohms/m at 77° F.				
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Calcium Carbonate Scaling Tendency	NONE	NONE	NONE	NONE
Calcium Sulfate Scaling Tendency	NONE	NONE	NONE	NONE

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks A careful examination of the results herein reveals no evidence of any incompatibility between any combination of these waters. The water from Janda #14 shows a minor excess of supersaturation to calcium carbonate, but we do not consider this to be of any concern. We would not expect any difficulty with potential calcium carbonate scaling in mixing these waters though this is an aspect of the water that should be checked under actual operating conditions of the waterflood. In summary, we have identified no concern with combining these waters though we do suggest the waters be maintained air-free and that examination of the mixture of the waters should be made after injection has been commenced for confirmation of conditions.

Form No. 3

cc: Mr. Elvin Allen, Eunice

By Waylan C. Martin, M.A.