



DHC-171
Well - 8/25/75

SKELLY OIL COMPANY

July 28, 1975

DOMESTIC EXPL. & PROD. DEPARTMENT

MIDLAND E & P DISTRICT

F. L. FRANZ, DISTRICT PRODUCTION MANAGER

M. J. EKMAN, DISTRICT ENGINEER

C. F. BOSECKER, LEAD RESERVOIR ENGINEER

F. J. PETRO, LEAD PRODUCTION ENGINEER

ADDRESS REPLY TO:
P. O. BOX 1351
MIDLAND, TEXAS 79701

File: State "L" Wells No. 3 & 4
Lease No. 16220
Justis Blinebry and Justis Tubb Drinkard
Lea County, New Mexico

Re: Application for Administrative Approval
for Exception to Rule 303-A

Oil Conservation Commission (2) ✓
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Oil Conservation Commission (1)
State of New Mexico
P. O. Box 1980
Hobbs, New Mexico 88240

Attention: Secretary Director

Gentlemen:

Skelly Oil Company respectfully requests administrative approval for exception to Rule 303-A of the commission rules and regulations for the purpose of down-hole commingling of the Justis Blinebry and Justis Tubb Drinkard zones in the State "L" Wells No. 3 & 4. The State "L" No. 3 is located 1656' FNL & 2310' FWL of Section 2, T-25-S, R-37-E, NMPM. The State "L" No. 4 is located 1655.4' FNL & 990' FWL of Section 2, T-25-S, R-37-E, NMPM, Lea County, New Mexico.

✓ The Commission authorized the dual completion of State "L" No. 3 & 4 under orders No. MC-1252 and MC-1262, respectively.

Offset operators have been notified by copy of this application. All necessary exhibits and required information for this application are attached.

Very truly yours,

Leland Franz
Leland Franz

JLM/slw

Attachs.

cc: Offset Operators

Bottom Pf #3 — 6034
" " #4 — 6218

OFFSET OPERATORS
STATE "L" LEASE

Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240

Atlantic Richfield Company
P. O. Box 1710
Hobbs, New Mexico 88240

Shell Oil Company
P. O. Box 1950
Hobbs, New Mexico 88240

W. H. Aikman
1204 Vaughn
Midland, Texas

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Texaco Inc.
P. O. Box 728
Hobbs, New Mexico 88240

G. L. Buckles Company
P. O. Box 145
Monahans, Texas 79756

REQUIREMENTS FOR DOWN-HOLE
COMMINGLING APPLICATION

1. Current 24 hour productivity test for both wells on commission Form C-116 are attached. The Justis Tubb Drinkard zone in Well No. 3 is temporarily abandoned.
2. Production decline curves and a completion history for each well are attached. It is recommended that the production for each zone from each well be allocated as follows:

State "L" Well No. 3

Justis Blinebry:	Oil 77%	Gas 56%
Justis Tubb Drinkard:	Oil 23%	Gas 44%

State "L" Well No. 4

Justis Blinebry:	Oil 68%	Gas 50%
Justis Tubb Drinkard:	Oil 32%	Gas 50%

3. The bottom hole pressure for the Justis Blinebry and Justis Tubb Drinkard zones are estimated to be 500 psi (-2271) and 600 psi (-2871) respectively.
4. Results of water analyses for both zones are attached.
5. The gravity of the individual oil samples from the Justis Blinebry and Justis Tubb Drinkard zones are both 37 API, therefore, the value of the commingled production should increase as a result of resuming production from the Tubb Drinkard zone in both wells.

COMPLETION HISTORY
STATE "L" WELL NO. 3

The subject well was drilled and completed October 14, 1962, as a dual oil producer in the Justis Blinebry and Justis Tubb Drinkard zones. The Justis Blinebry zone potentialled flowing 120 BOPD, 0 BWPD, 255 MCFPD after treatment with 1000 mud acid and fraced with 15,000 gallons, 15,000# sand with 150 ball sealers. The producing interval treated was 5455'-5653'.

The two zones are separated by a Baker Model "D" Production Packer set at 6010'.

The Justis Tubb Drinkard zone in the State "L" No. 3 was potentialled in October, 1962, for 95 BOPD, 0 BWPD, 62 MCFPD, after treatment with 1000 mud acid and fraced with 15,000 gallons, 15,000# sand with 150 ball sealers. Request for authority to shut down one zone of multiple completed well filed 9-25-73, and lower zone (Justis Tubb Drinkard) was temporarily abandoned.

COMPLETION HISTORY
STATE "L" WELL NO. 4

The subject well was drilled and completed December 6, 1962, as a dual oil producer in the Justis Blinebry and Justis Tubb Drinkard zones. The Blinebry zone was potentialled at 78 BO (14 hrs.), 0 BWPD after treatment with 1000 gallons acid, fraced with 15,000 gallons oil and 15000# sand. The producing interval treated was 5368'-5723'.

The two zones are separated by a Baker Model "D" Production Packer set at 6060'.

The Justis Tubb Drinkard zone in the State "L" Well No. 4 was potentialled for 110 BO (14 hrs.), 0 BWPD after treatment with 1000 gallons acid, fraced with 15,000 ballons oil and 15,000# sand.

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator Skelly Oil Company		Pool Justis Blinberry		County Lea												
Address P. O. Box 1351, Midland, Texas 79701		TYPE OF TEST - (X) ☒ TEST - (X)		SCHEDULED ☐ SPECIAL ☒												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STAT.	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - O RATIO CU. FT./B
		U	S	T	R							WATER BBL'S.	GRAV. OIL	OIL BBL'S.	GAS M.C.F.	
State "L"	3	F	2	25	37	7-22-75	P	-	-	38	24	1	40	32	73	2281
	4	E	2	25	37	7-24-75	P	-	-	30	24	4	40	27	64	2370

No well shall be assigned an allowable greater than the amount of oil produced on the standard test.

During standard test, each well shall be produced at a rate not exceeding one (1) well at 25 percent for the pool in which it is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

James M. Jerrel Marburg
(Signature)

Eng. Tech.
7-29-75
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
Skelly Oil Company		Justis Tubb Drinkard		Lea											
Address		TYPE OF TEST - (X)		Completion ☐		Special ☒									
P. O. Box 1351, Midland, Texas 79701															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL
		U	S	T							R	WATER BBL'S.	GRAV. OIL BBL'S.	OIL BBL'S.	
State "L"	3	F	2	25	37	P	-	-	-	24	0	37	10	57	5700
	4	E	2	25	37	P	-	-	16	24	2	37	13	64	4923

Well #3 returned to active status.
Assignment of allowable requested.

No well can be operated on allowable basis until the amount of oil produced on the current basis during previous test, each well shall be produced at a rate not exceeding the oil for which it is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent allowance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

James M. Jettrel
James M. Jettrel Marburger
(Signature)
Eng. Tech.

7/29/75

(Date)

Martin Water Laboratories

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

LABORATORY NO. 6-14-75
SAMPLE RECEIVED 6-17-75
RESULTS REPORTED _____

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 2

NO. 3 _____

NO. 4

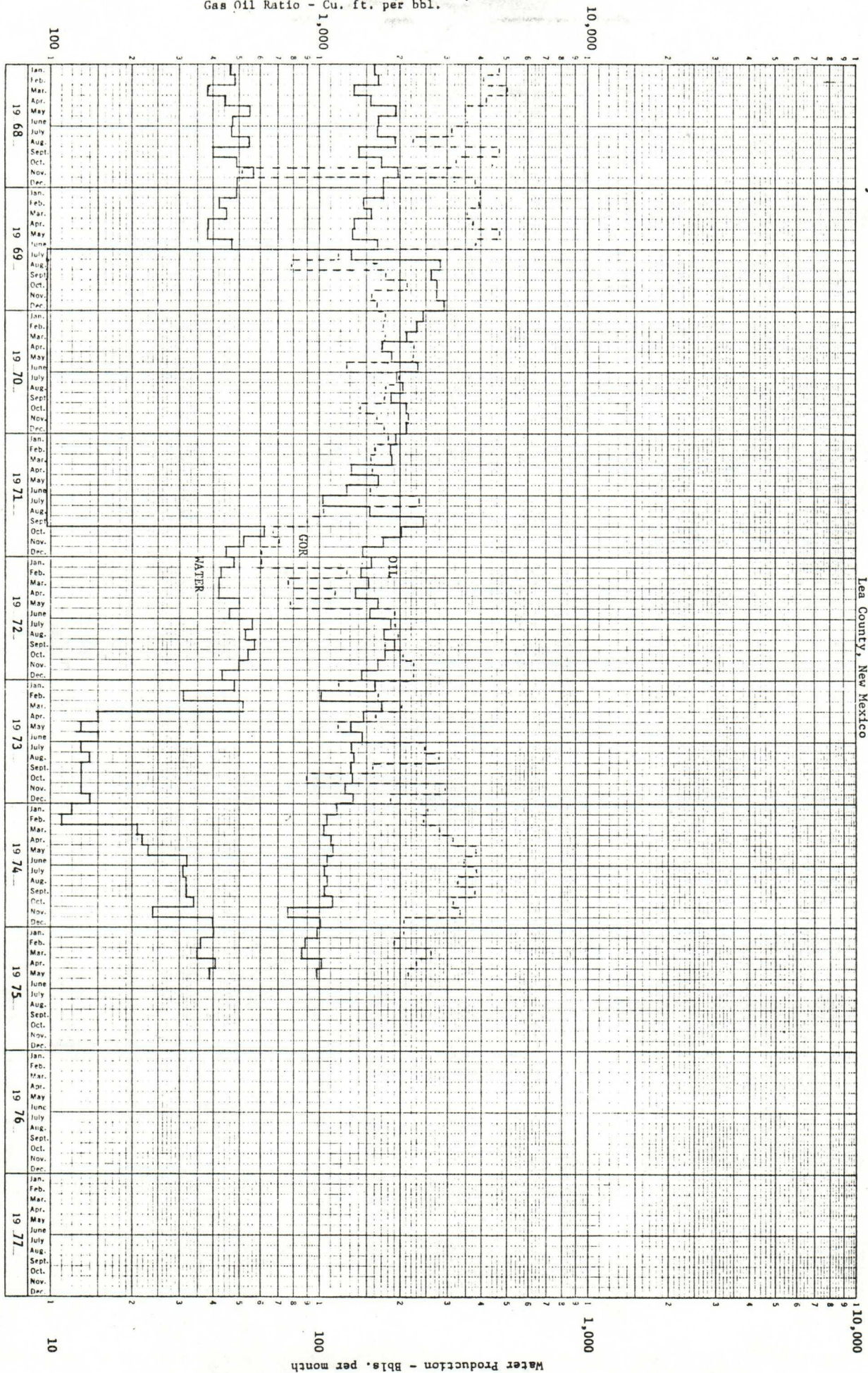
REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1005	1.0789		
pH When Sampled				
pH When Received	7.9	7.85		
Bicarbonate as HCO ₃	227	549		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	24,700	12,600		
Calcium as Ca	6,800	3,720		
Magnesium as Mg	1,871	802		
Sodium and/or Potassium	51,265	41,816		
Sulfate as SO ₄	1,708	2,306		
Chloride as Cl	95,165	71,019		
Iron as Fe	26.0	7.0		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	157,036	120,712		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	1.0		
Resistivity, ohms/m at 77° F.	0.068	0.030		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks A careful examination of the above analyses reveals no evidence which would indicate any incompatibility problem between these waters for mixing them or producing them from the same well.

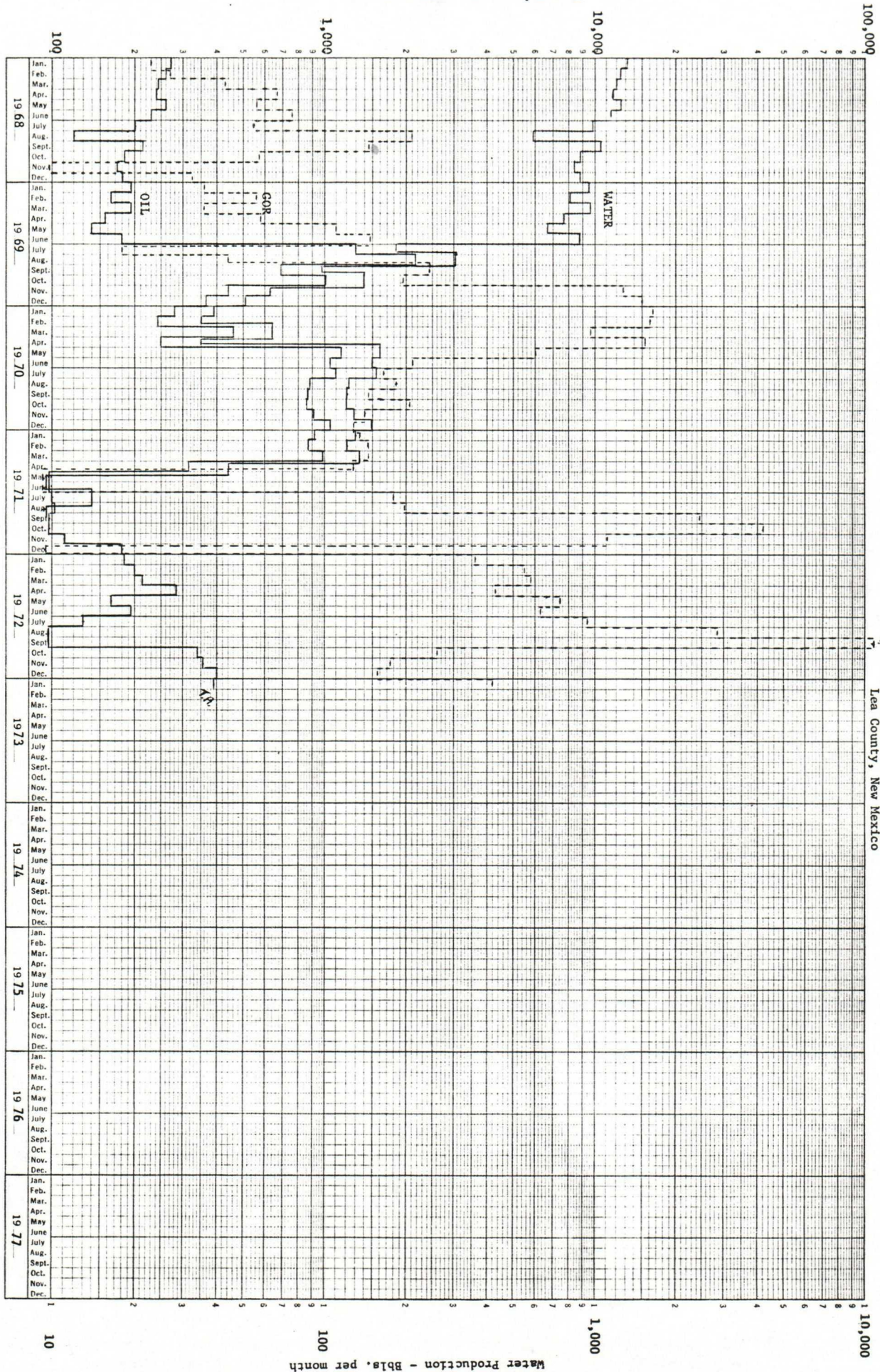
Oil Production - Bbls. per month
Gas Oil Ratio - Cu. ft. per bbl.



Skelly Oil Company
State "L" Well No. 3
Justis Blinbery
Lea County, New Mexico

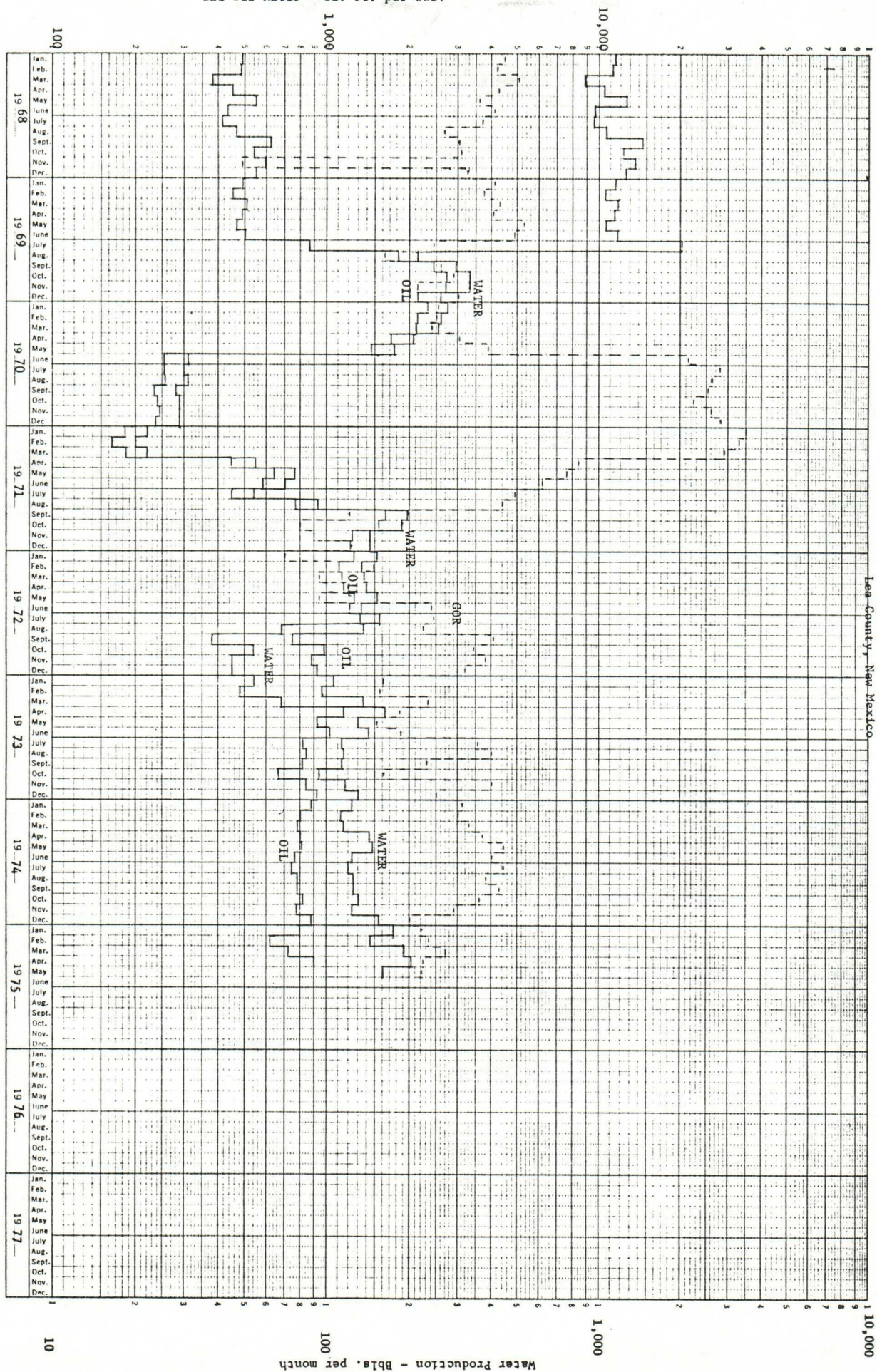
Water Production - Bbls. per month

Oil Production - Bbls. per month
Gas Oil Ratio - Cu. ft. per bbl.



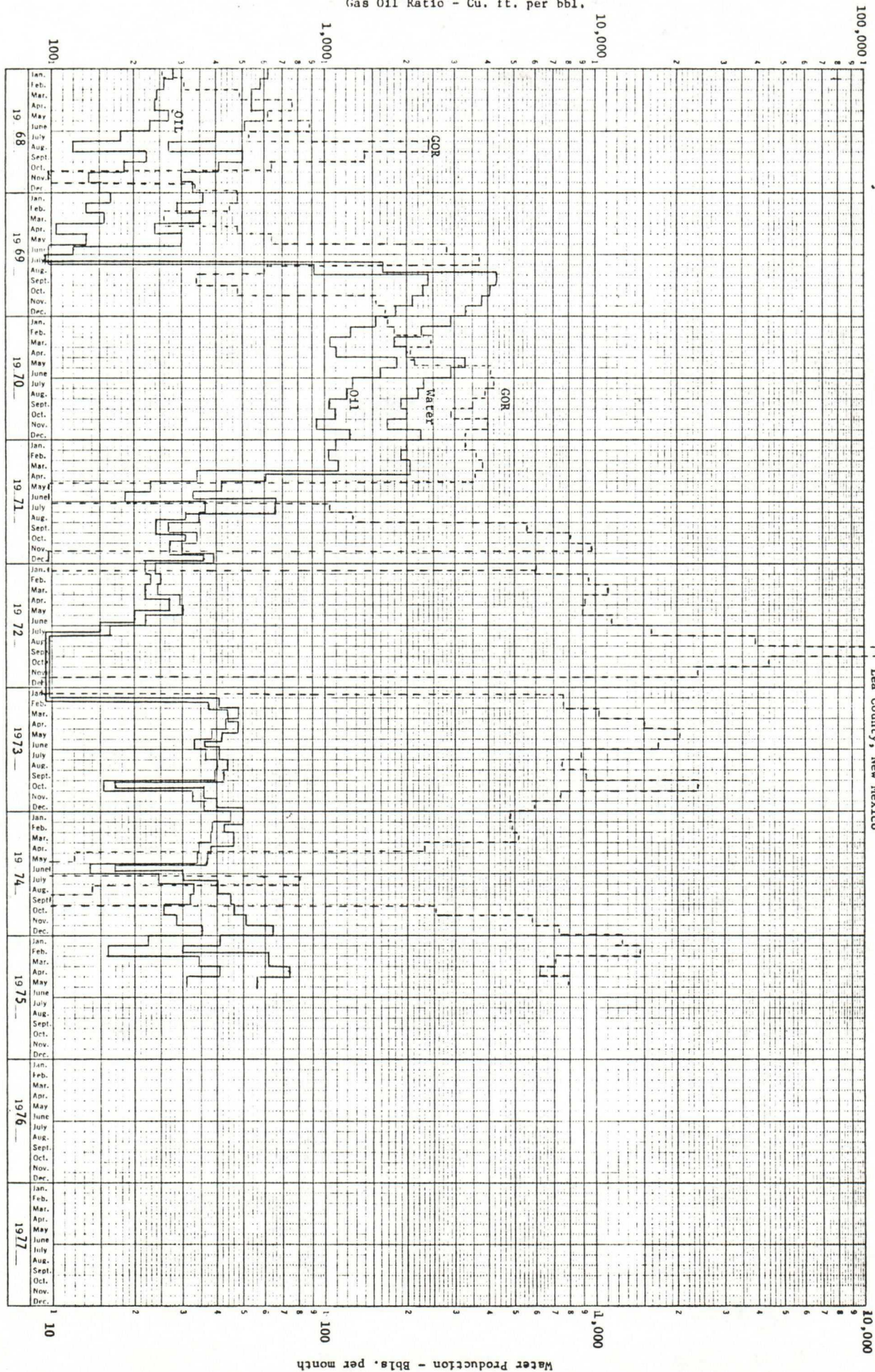
Skelly Oil Company
State "L" Well No. 3
Justis Tubb Drinkard
Lea County, New Mexico

Oil Production - Bbls. per month.
Gas Oil Ratio - Cu. ft. per bbl.



Skelly Oil Company
State "L" Well No. 4
Justis Blinbery
Dea County, New Mexico

Oil Production - Bbls. per month
Gas Oil Ratio - Cu. ft. per bbl.



Skelly Oil Company
State "L" Well No. 4
Justis Tubb Drinkard
Lea County, New Mexico

OIL CONSERVATION COMMISSION
Hobbs DISTRICT



OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE Aug. 5, 1975

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Skelly Oil Co. State L #3-F & #4-E 2-25-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K. --- J.W.R.

Yours very truly,

