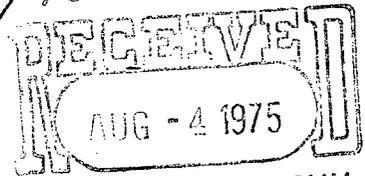




DHC - 170  
Date - 8/25/75



# SKELLY OIL COMPANY

July 28, 1975

OIL CONSERVATION COMM.  
Santa Fe

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: Las Cruces "C" Well No. 1  
Lease No. 71247  
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 Las Cruces "C" Well No. 1. The Las Cruces "C" No. 1 is located 1980' FNL & 1650' FEL of Section 23, T-25-S, R-37-E, NMPM.

The commission authorized the dual completion of Las Cruces "C" No. 1 under Order No. DC-1060.

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

JLM/slw

Attachs.

cc: Offset Operators

OFFSET OPERATORS

Texas Pacific Oil Company  
P. O. Box 1255  
Eunice, New Mexico 88231

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

REQUIREMENTS FOR DOWN-HOLE  
COMMINGLING APPLICATION

1. Current 24 hour productivity test for well on commission Form C-116 are attached.
2. Production decline curve and a completion history for well is attached. It is recommended that the production for the zones be allocated as follows.

Las Cruces "C" Well No. 1

Justis Blinebry:	Oil 86%	Gas 90%
Justis Tubb Drinkard:	Oil 14%	Gas 10%

3. The bottom hole pressure for the Justis Blinebry and Justis Tubb Drinkard zones are estimated to be 500 psi (-2297) and 600 psi (-2783) 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<sup>o</sup> API, therefore, the value of the commingled production should increase as a result of resuming production from the Tubb Drinkard zone.

COMPLETION HISTORY  
LAS CRUCES "C" WELL NO. 1

The subject well was drilled and completed April 20, 1961, as a dual oil producer in the Justis Blinebry and Justis Tubb Drinkard zones. The Justis Blinebry zone potentialled flowing 395 BOPD, 44 BWPD after fraced with 12,000 gallons refined oil and 6,000# sand. The producing interval treated was 5345'-5452'.

The two zones are separated by a Baker Model "D" Production Packer at 5750'.

The Justis Tubb Drinkard zone in the Las Cruces "C" No. 1 was potentialled in April, 1961, for 355 BOPD, 0 BWPD after treatment with 500 gallons mud acid. The producing interval treated was 5890'-5912'. Request for authority to shut down one zone of multiple completed well filed 6-26-69, and lower zone (Justis Tubb Drinkard) was temporarily abandoned.

Martin Water Laboratories

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

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

RESULT OF WATER ANALYSES

TO: Mr. Jerrel Marburger LABORATORY NO. 67482  
P. O. Box 1351 Midland, Texas SAMPLE RECEIVED 6-14-75  
 RESULTS REPORTED 6-17-75

COMPANY Skelly Oil Company LEASE Las Cruces "C"  
 FIELD OR POOL Justice (Blinbry)  
 SECTION      BLOCK      SURVEY      COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:  
 NO. 1 Produced (Tubb) water - taken from Las Cruces "C" 6-14-75  
 NO. 2 Produced (Blinbry) water - taken from Las Cruces "C" 6-14-75  
 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 <sub>3</sub>	227	549		
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	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 <sub>4</sub>	1,708	2,806		
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.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator: Skelly Oil Company  
Pool: Justis Blinebry  
County: Lea

Address: P. O. Box 1351, Midland, Texas 79701  
TYPE OF TEST - (X)  Scheduled  Special

LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	STATES	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PRODUCTION DURING TEST				GAS - OIL RATIO CU.FT./BBL.
		U	S	T							R	WATER BBL.	GRAV. OIL BBL.	OIL BBL.	
Las Cruces "C"	1	G	23	25	37	7-18-75	P	-	35	24	17	37	28	236	8429

The well was tested on allowable greater than the amount of oil produced on the official test.  
During several test runs, each well shall be produced at a rate not exceeding the day unit allowance for the pool in which well 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.

  
Jerrel Warburger  
(Signature)  
Eng. Tech.  
7-29-75  
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

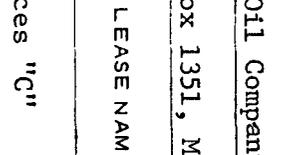
Operator		Pool				County																									
Skelly Oil Company		Justis Tubb Drinkard				Lea																									
Address		LEASE NAME		WELL NO.		LOCATION		DATE OF TEST		TYPE OF TEST - (X)		SCHEDULED		COMPLETION		SPECIAL															
P. O. Box 1351, Midland, Texas 79701		Las Cruces "C"		1 - G		23 25 37		7-17-75		P		-		-		-		-		24		0		36		5		26		5200	
				U		S		T		R		SP. GRAVITY		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		LENGTH OF TEST HOURS		WATER BBL.		GRV. OIL BBL.		OIL BBL.		GAS M.C.F.		GAS - OIL RATIO CU. FT./BBL.	

Return to active status.  
Assignment of Allowable Requested.

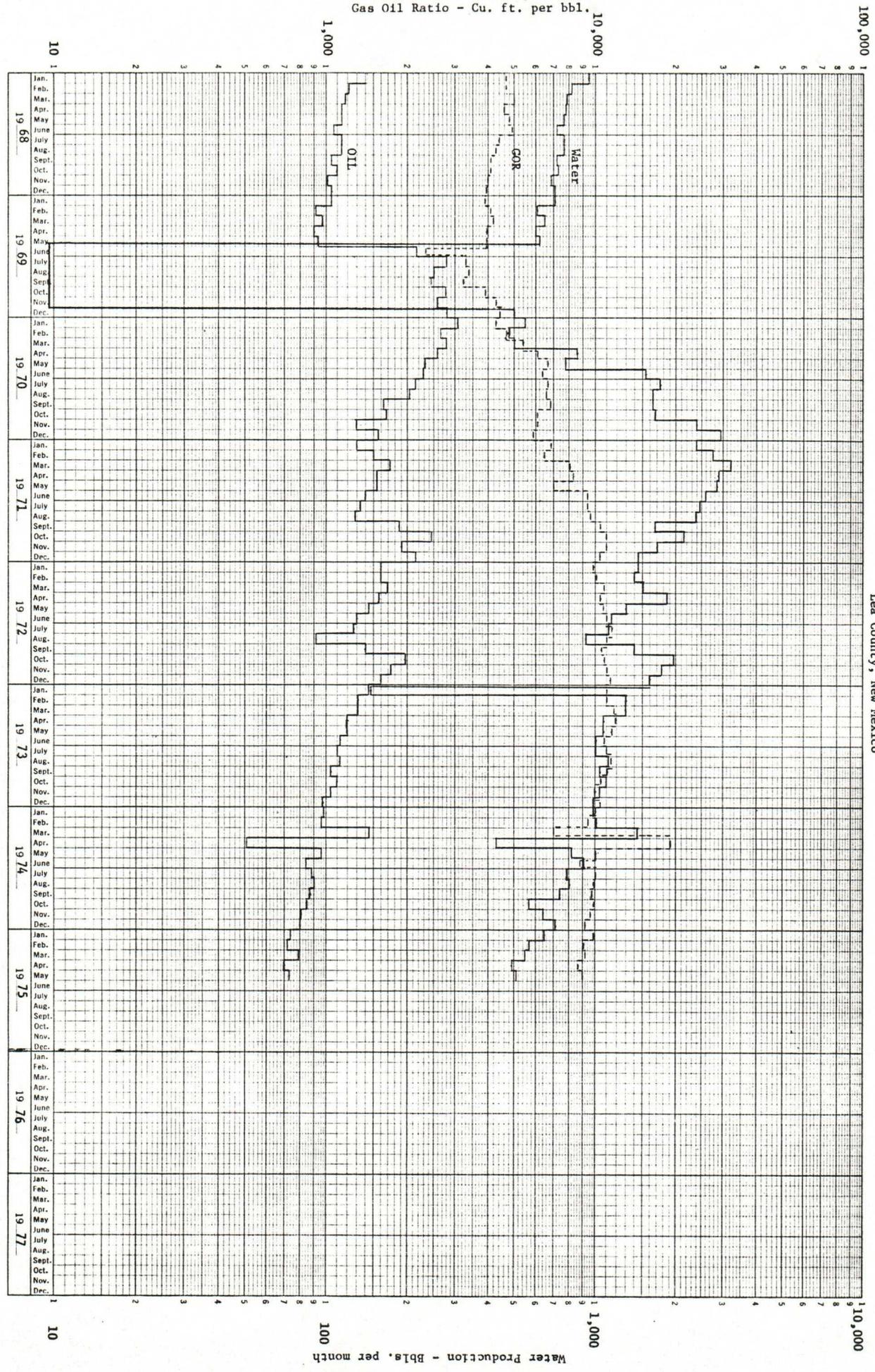
No well can be developed an allowable greater than the amount of oil produced on the original test.  
During an initial test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage 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.  
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
 Jerrel Marburger  
 Eng. Tech.  
 (Title)  
 7-29-75  
 (Date)

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



Skelly Oil Company  
 Las Cruces "C" Well No. 1  
 Justice Blinberry  
 Lea County, New Mexico

10

10

1,000

10,000

100,000

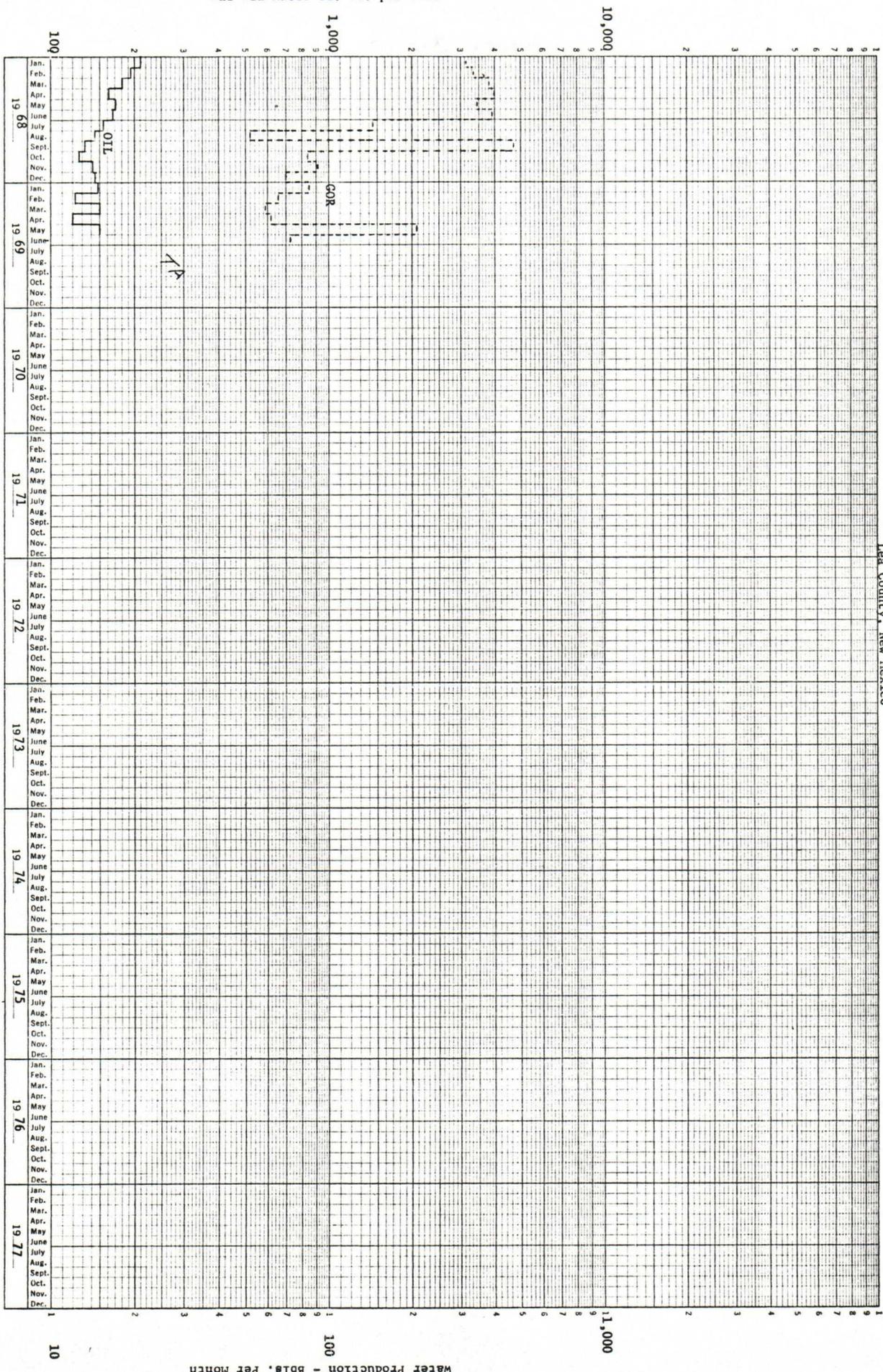
100

1,000

10,000

Water Production - Bbls. per month

Oil Production-Bbls. Per Month  
 Gas Oil Ratio-Cu. ft. per bbl.



Skelly Oil Company  
 Las Cruces "C" Well No. 1  
 Justis Tubb Drinkard  
 Lea County, New Mexico

Water Production - Bbls. Per Month



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. Las Cruces "C" #1-G 23-25-37  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.W.R.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,