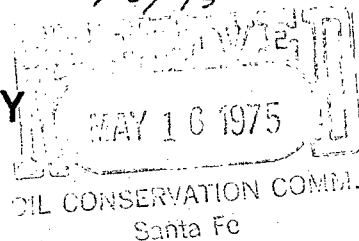


DHC - 161  
Due - 6/5/75

**SHELL OIL COMPANY**

P.O. BOX 991  
HOUSTON, TEXAS 77001



May 15, 1975

Subject: Application for Downhole Commingling  
for State Section 2 Lease, Well No. 3,  
Unit Letter U, Located 660' FSL &  
660' FWL Sec. 2, T-21-S, R-37-E,  
Lea County, New Mexico

New Mexico Oil Conservation Commission (3)  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention Mr. A. L. Porter, Jr.

Gentlemen:

Shell Oil Company requests administrative approval to commingle in the wellbore oil produced from the Blinebry and Drinkard Pools on their State Section 2 Lease in Well No. 3, located in Lot 21 (Unit Letter U), Sec. 2, T-21-S, R-37-E, Lea County, New Mexico, according to Rule 303C.

The subject well is presently a producing Drinkard well, cased through the Blinebry pool. The Blinebry, under Unit Letter U, is presently being produced by natural flow from Well No. 22. The Drinkard in Well No. 3 (subject well) is presently pumping approximately 12 BOPD.

After commingling the energy of the Blinebry, gas will be utilized to gas lift the Drinkard and flow the Blinebry production by the use of a packer, check valve, and side door choke, according to the attached drawing. This will allow the Drinkard pool to be more economically produced and the pumping equipment to be used more effectively in another location, thereby promoting the recovery of additional reserves. The fluids from these zones are known to be compatible and are presently being commingled at the battery by Order R-2100; therefore, the price of the product will not be affected. Ownership of both zones is common. Secondary operations will not be jeopardized by approval of this application.

The offset operators are being notified by copy of this application.

Yours very truly,

*C. D. Fairbanks*  
For: Jack L. Mahaffey  
Division Production Manager  
Mid-Continent Division

BWB:NPK

Attachments

cc - Offset Operators

New Mexico Oil Conservation Commission  
P. O. Box 1980  
Hobbs, New Mexico 88240

*Bottom perf: 6828'*  
*allow: 40 BOPD*

OFFSET OPERATORS

STATE SECTION 2 LEASE

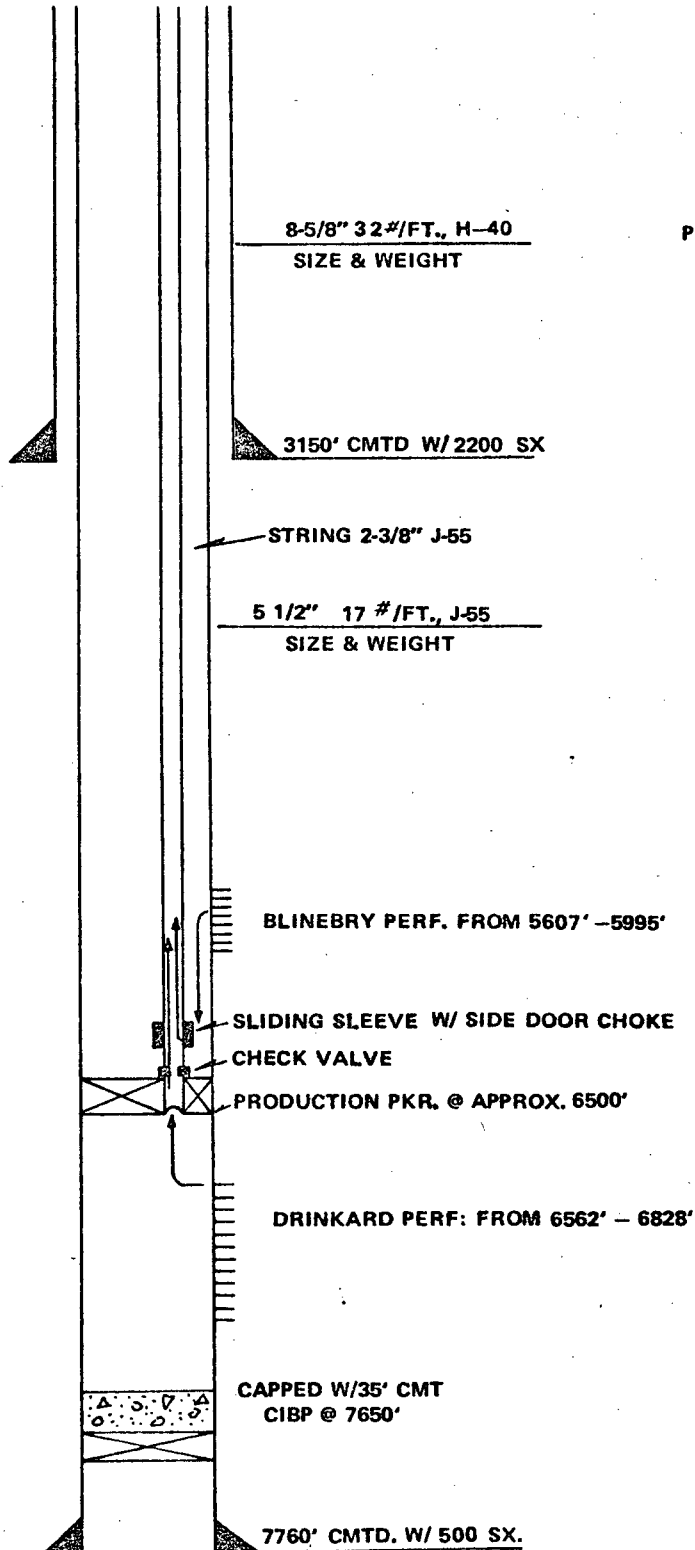
Continental Oil Company  
P. O. Box 460  
Hobbs, New Mexico 88240

Aztec Oil & Gas Company  
P. O. Box 337  
Hobbs, New Mexico 88240

Gulf Oil Company - U. S.  
P. O. Box 670  
Hobbs, New Mexico 88240

SHELL OIL COMPANY  
DOWN-HOLE COMMINGLING BLINEBRY & DRINKARD POOLS  
STATE SEC. 2 WELL NO. 3  
660' FSL & 660' FWL, SEC. 2, T-21-S, R-37-E  
LEA COUNTY, NEW MEXICO

DOWN HOLE DRAWING  
OF PROPOSED COMPLETION



ELEVATION 3467' DF  
TD 7906'

PERF: BLINEBRY : PROPOSE PERF.  
INTERVAL: 5607' - 5995'

DRINKARD: 6562', 67', 78', 84', 90', 99',  
6606', 12', 47', 55', 67', 73', 79', 89',  
6702', 09', 15', 21', 37', 47', 54', 59',  
68', 75', 81', 97'.

CSG: 8-5/8" CEMENT CIRCULATED TO SURFACE

5-1/2" CALCULATED CEMENT TOP  
BY FREEZE POINT @ 5200'

KE 5 YEARS BY MONTHS 46 6690  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

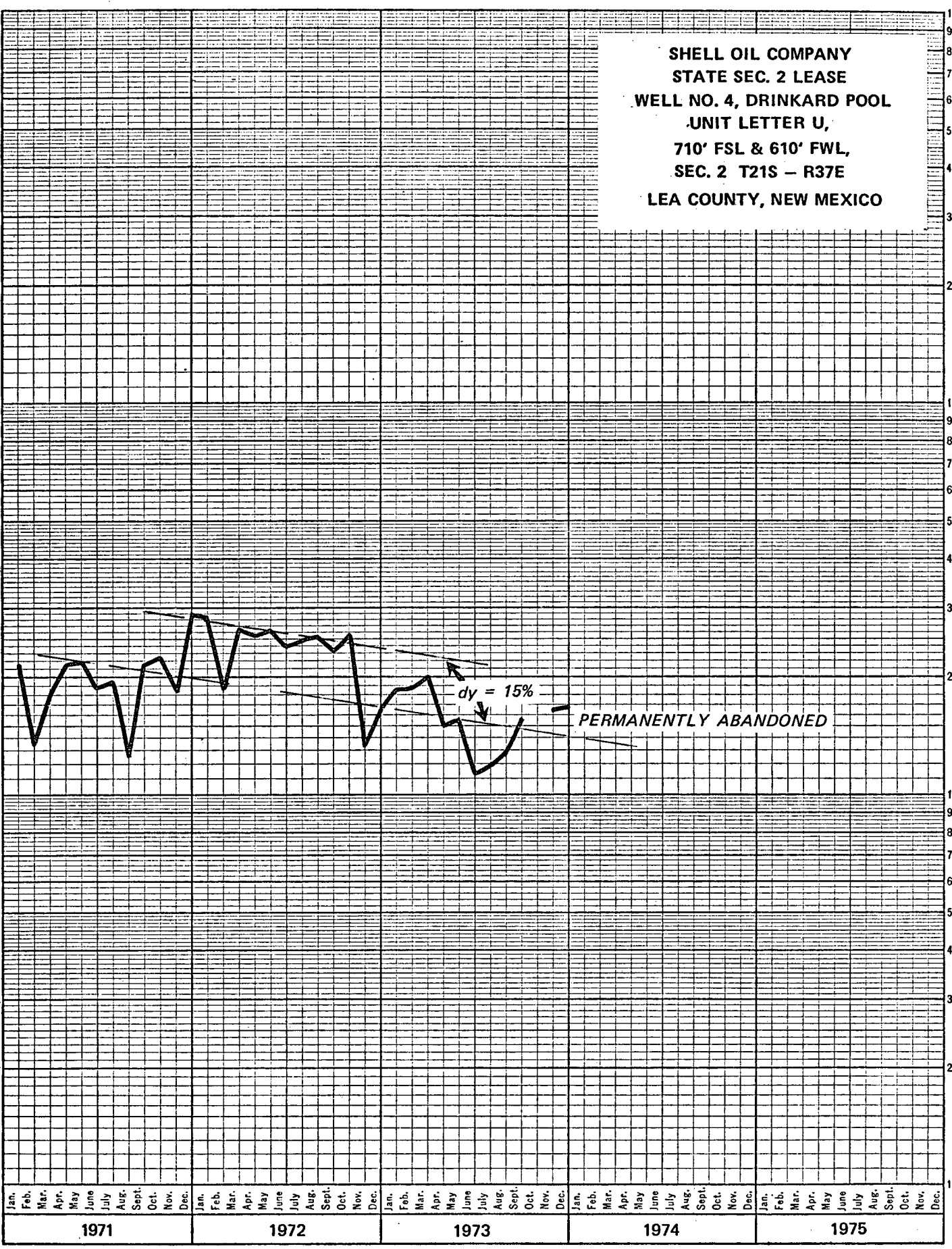
1000

BOPM

100

10

SHELL OIL COMPANY  
STATE SEC. 2 LEASE  
WELL NO. 4, DRINKARD POOL  
UNIT LETTER U,  
710' FSL & 610' FWL,  
SEC. 2 T21S - R37E  
LEA COUNTY, NEW MEXICO



SHELL OIL COMPANY  
STATE SEC. 2, LEASE  
WELL NO. 22, BLINEBRY POOL  
UNIT LETTER U,  
990' FSL & 990' FWL,  
SEC. 2 T21S - R37E  
LEA COUNTY, NEW MEXICO

1000

BOPM

100

10

ACIDIZED W/10,150 GALS.

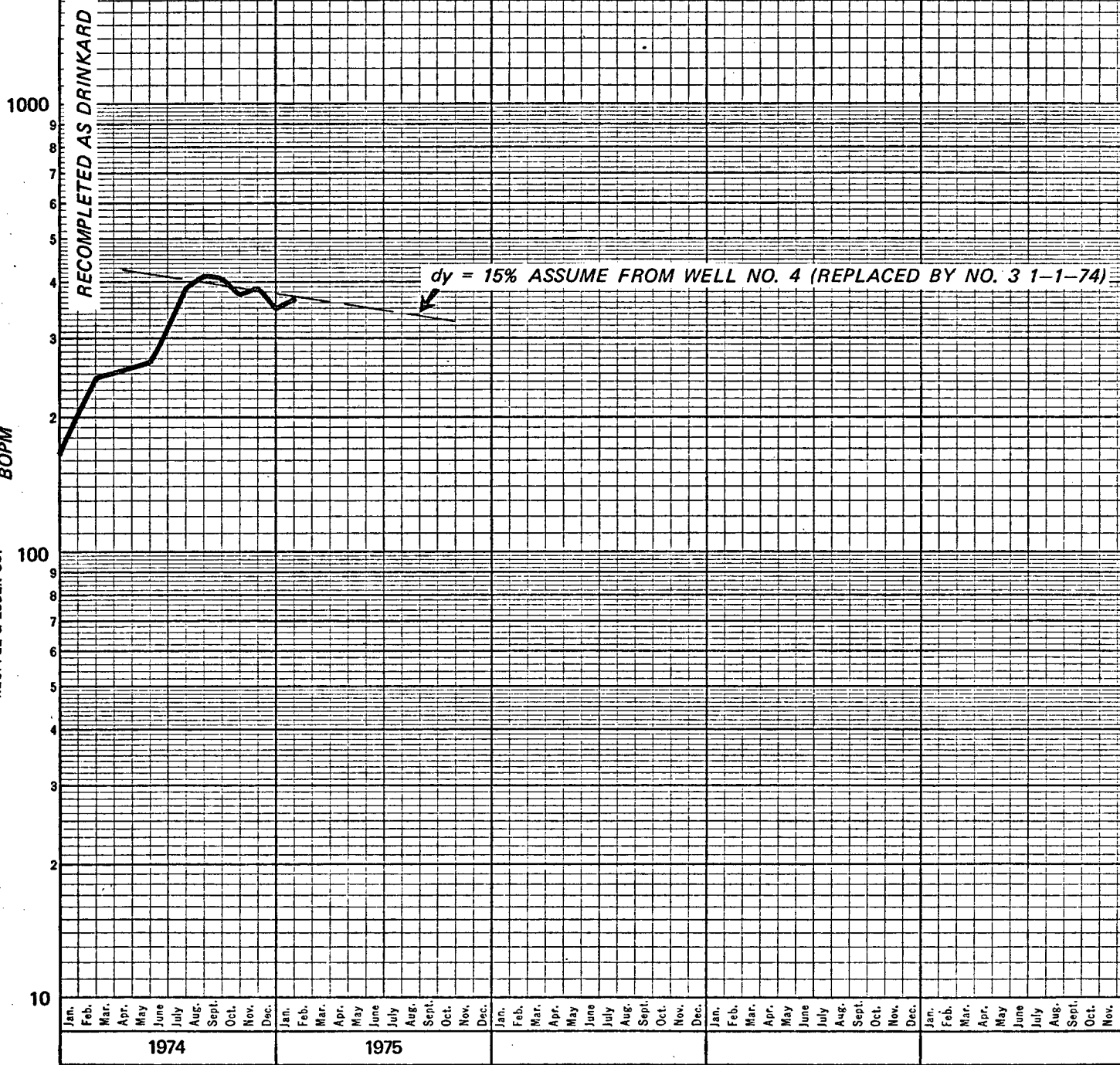
dy = 7%

dy = 7%

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.												
1971												1972												1973												1974												1975											

5 YEARS BY MONTHS 46 6690  
 X X 3 LOG CYCLES  
 KEUFFEL & ESSER CO.  
 BOPM

SHELL OIL COMPANY  
 STATE SEC. 2 LEASE  
 WELL NO. 3, DRINKARD POOL  
 UNIT LETTER U,  
 660' FSL & 660' FWL,  
 SEC. 2, T21S - R37E  
 LEA COUNTY, NEW MEXICO





State Section 2 No. 3

Drinkard - Estimated BHP 400 psi



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

C-116  
Revised 1-1-65

Operator <b>Shell Oil Company</b>		Pool <b>Drinkard</b>		County <b>Lea</b>											
Address <b>P. O. Box 1509, Midland, Texas 79701</b>		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABL.	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.		
		U	S	T						R	WATER BBLs.	GRAV. OIL BBLs.		GAS M.C.F.	
State Section 2	3	U	2	21	37	4-20-75	P	-	20	24	1	35.4	14	109	7,785

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

During gas-oil ratio 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.

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.

*N. W. Harrison*  
(Signature) **N. W. Harrison**

**Staff Production Engineer**

(Title)  
**5-15-75**

(Date)

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

C-116  
Revised 1-1-65

Operator <b>Shell Oil Company</b>		Pool <b>Blinebry</b>		County <b>Lea</b>											
Address <b>P. O. Box 1509, Midland, Texas 79701</b>				TYPE OF TEST - (X)	Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	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 BBLs.	GRAV. OIL BBLs.		GAS M.C.F.	
State Section 2	22	U	2	21	37	4-13-75	64/64"	60	13	24	1	34.2	7	311	44,428

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

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

*N. W. Harrison*  
(Signature) **N. W. Harrison**  
Staff Production Engineer

5-15-75  
(Date)



OIL CONSERVATION COMMISSION  
Hobbs DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE June 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 Shell Oil Co. State Sec. 2 #3-U 2-21-37  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

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

Yours very truly,

John W. Runyon