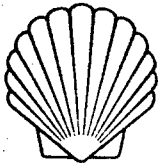


Shell - midland
684-5511

Jim Sullivan - Engr
called about Blinbry-
Drinkard DHC s 160-165

Will talk to Houston
office about testing.

I said a 24 hr test OK



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. 2,
Unit Letter L, Located 4620' 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. 2 located in Lot 12 (Unit Letter L), 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 L, is presently being produced by natural flow from Well No. 8. The Drinkard in the subject well is by natural flow.

Two zones downhole commingled can be more economically produced than two separate wells. Therefore, these zones can be produced to a lower rate of production thereby increasing reserves and decreasing operation cost. 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,

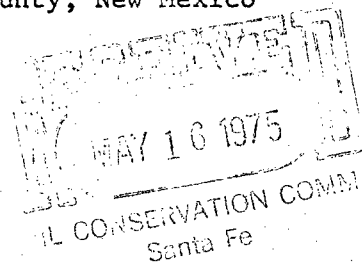
C. D. Fairbank
For: Jack L. Mahaffey
Division Production Manager
Mid-Continent Division

BWB:NPK

Attachments

cc - Offset Operators
New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

bottom perf: 6760'
allow: 40 30/day



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

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-1116
Revised 1-1-65

Operator		Pool		County		Lea									
Shell Oil Company		Drinkard													
Address		P. O. Box 1509, Midland, Texas 79701		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			Special ☒		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
State Section 2	2	L	2	21	37	4-19-75	PL	50	4	24	1	36.4	4	91	22,750

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 Shell Oil Company		Pool Blinebry		County Lea											
Address P. O. Box 1509, Midland, Texas 79701		TYPE OF TEST - (X)		Completion ☐ Special ☒											
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		OIL BBLs.	GAS M.C.F.
State Section 2	8	L	2	21	37	4-20-75	PL	210	6	24	0	36.4	7	171	24,428

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)

SHELL OIL COMPANY

Company Shell oil co.
Lease STATE SEC 2 Well No. 8
Field DRINKARD State N. Mex.
Test Date 5/6/25

Company Running Survey
Element - Range & No.
Clock - Range & No.
Calibration Date

Shell Unit 1967
J500# 5583
2hr - 19133
4/14/75

Pressure at Datum @)	<u>344.2</u>	psig
Shut-in Time)	<u>51.75</u>	hrs
P _i at Datum	<u>—</u>	psig
Shut-in Tubing Pressure	<u>288</u>	psig
Shut-in Casing Pressure	<u>320</u>	psig
Top of Oil	<u>—</u>	
Top of Water	<u>—</u>	
Temperature at <u>5750</u> feet	<u>107</u>	°F
Date of Last Test		
Pressure @ Datum, Last Test		psig
Shut-in Time, Last Test		

* 344.2	psig
51.75	hrs
—	psig
288	psig
320	psig
—	
—	
107	°F
	psig

Choke Size	in
Period of Stabilized Flow	hrs
Stabilized Production (q)	
Oil	bbls/day
Gas	MCF/day
Water	bbls/day
Flowing Tubing Pressure	psig
Flowing Casing Pressure	psig
Cumulative Production (Q)	
Oil	bbls
Gas	MCF
Water	bbls
Effect. Prod. Life, $t = 24 Q/q$	hrs

Remarks: BHP Projected to datum

Operator

L. K. Braswell

Depth D	Time	Press., P, psig	ΔP	Static Test	
				ΔD	Gradient
0	51.75 hr	288.6			
1000	"	299.1	10.5	1000	1.05
2000	"	306.1	7.0	1000	1.70
3000	"	314.9	8.8	1000	1.88
4000	"	325.4	10.5	1000	1.05
5000	"	334.1	8.7	1000	1.87
5500	"	337.6	3.5	500	7
5750	"	341.1	3.5	250	1.4

KE 5 YEARS BY MONTHS 46 6690
X 3 LOG CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.

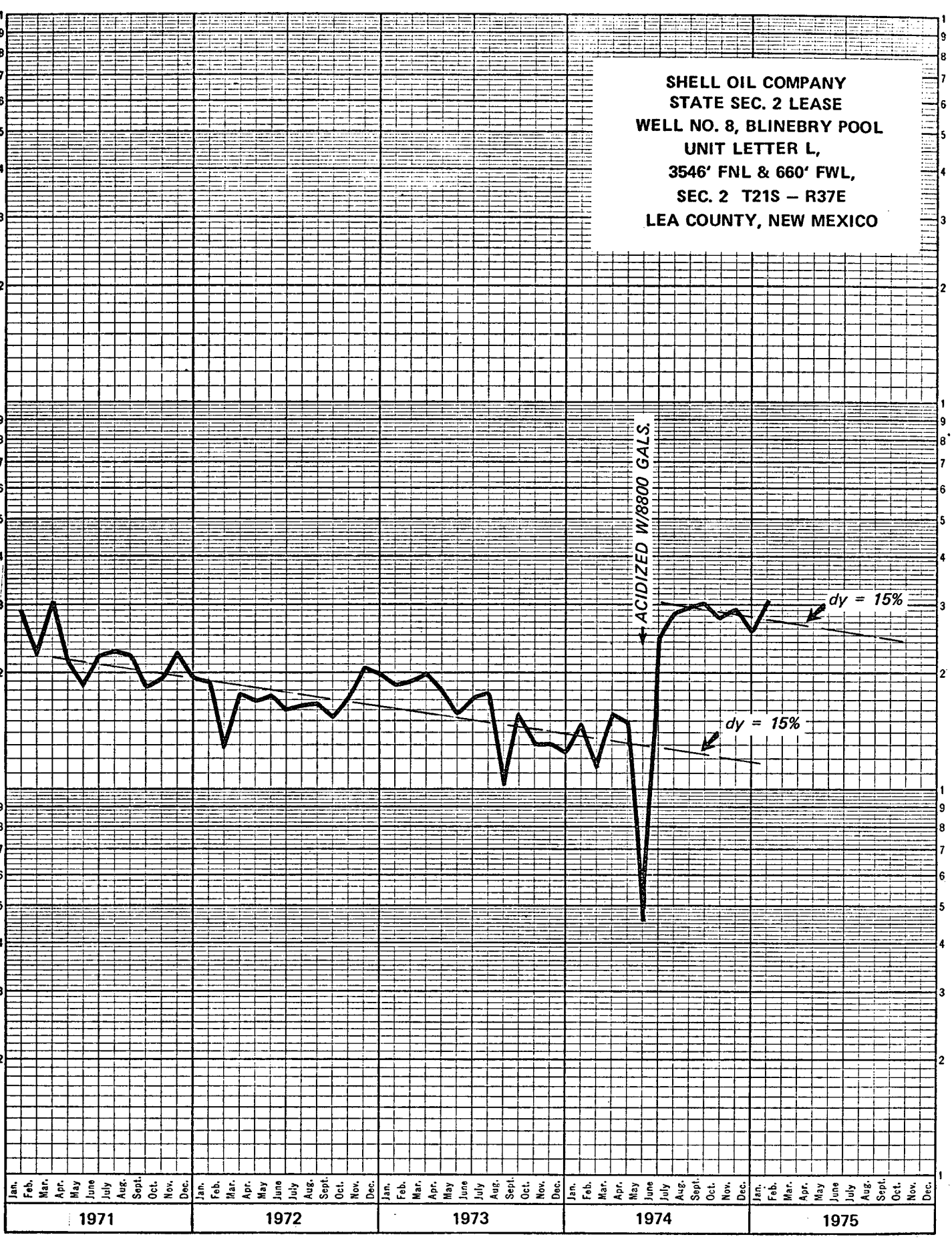
BOPM

SHELL OIL COMPANY
STATE SEC. 2 LEASE
WELL NO. 8, BLINEBRY POOL
UNIT LETTER L,
3546' FNL & 660' FWL,
SEC. 2 T21S - R37E
LEA COUNTY, NEW MEXICO

1000

100

10



SHELL OIL COMPANY
STATE SEC. 2 LEASE
WELL NO. 2, DRINKARD POOL
UNIT LETTER L,
4620' FSL & 660' FWL,
SEC. 2 T21S - R37E
LEA COUNTY, NEW MEXICO

1000

BOPM

100

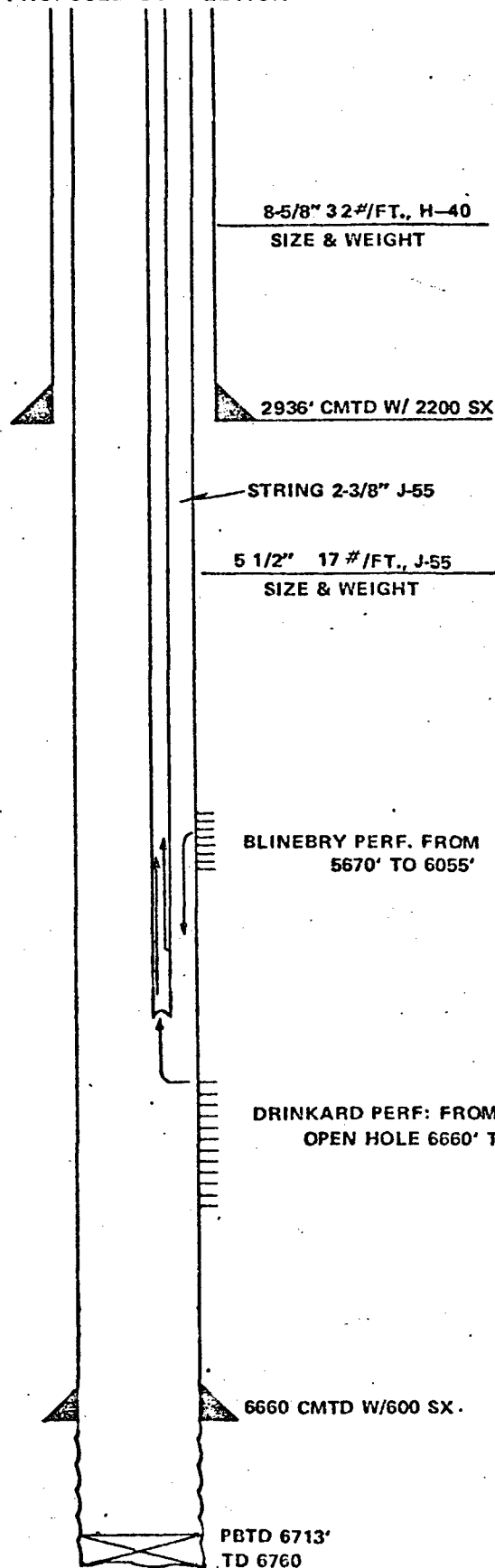
10

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

dy = 15%

SHELL OIL COMPANY
DOWN-HOLE COMMINGLING BLINEBRY & DRINKARD POOLS
STATE SEC. 2 WELL NO. 2
4620' FSL & 660' FWL, SEC. 2, T-21-S, R-37-E
LEA COUNTY, NEW MEXICO

DOWN HOLE DRAWING
OF PROPOSED COMPLETION



ELEVATION 3496' DF
TD 6760'

PERF: BLINEBRY : PROPOSE PERF.
INTERVAL: 5670' - 6055'

DRINKARD: 6597', 99', 6601', 05', 06',
07', 14', 15', 19', 30', 32', 39',
W/1 JSPF 6625'-30',
6618'-22', 6612'-16', 6604'-08',
6596'-6602', 6584'-92', W/ 1 JSPF

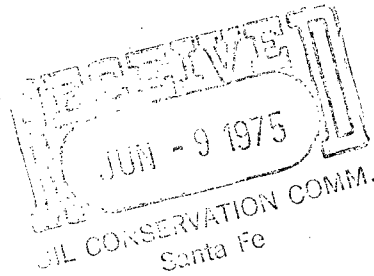
CSG: 8-5/8" CEMENT CIRCULATED TO SURFACE

5-1/2" CALCULATED CEMENT TOP
AT 3610' FREEZE POINT @ 3200'

ZM-431 - C

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 #2-L 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. Runyan