



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. 13,
Unit Letter N, Located 2970' FSL &
1650' 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. 13 located in Lot 14 (Unit Letter N), Sec. 2, T-21-S, R-37-E, Lea County, New Mexico, according to Rule 303C.

The subject well is presently an abandoned Drinkard well, cased through the Blinebry pool. The Blinebry, under Unit Letter N, is presently being produced by natural flow from Well No. 18. The Drinkard in Well No. 13 was abandoned in June 1971 as non-commercial (3 BOPD + 40 BWPD).

After commingling (Drinkard water shut off by CIBP @ 6735') 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 economically produced and promote 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. Mahaffey
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

OFFSET OPERATORS

STATE SECTION 2 LEASE

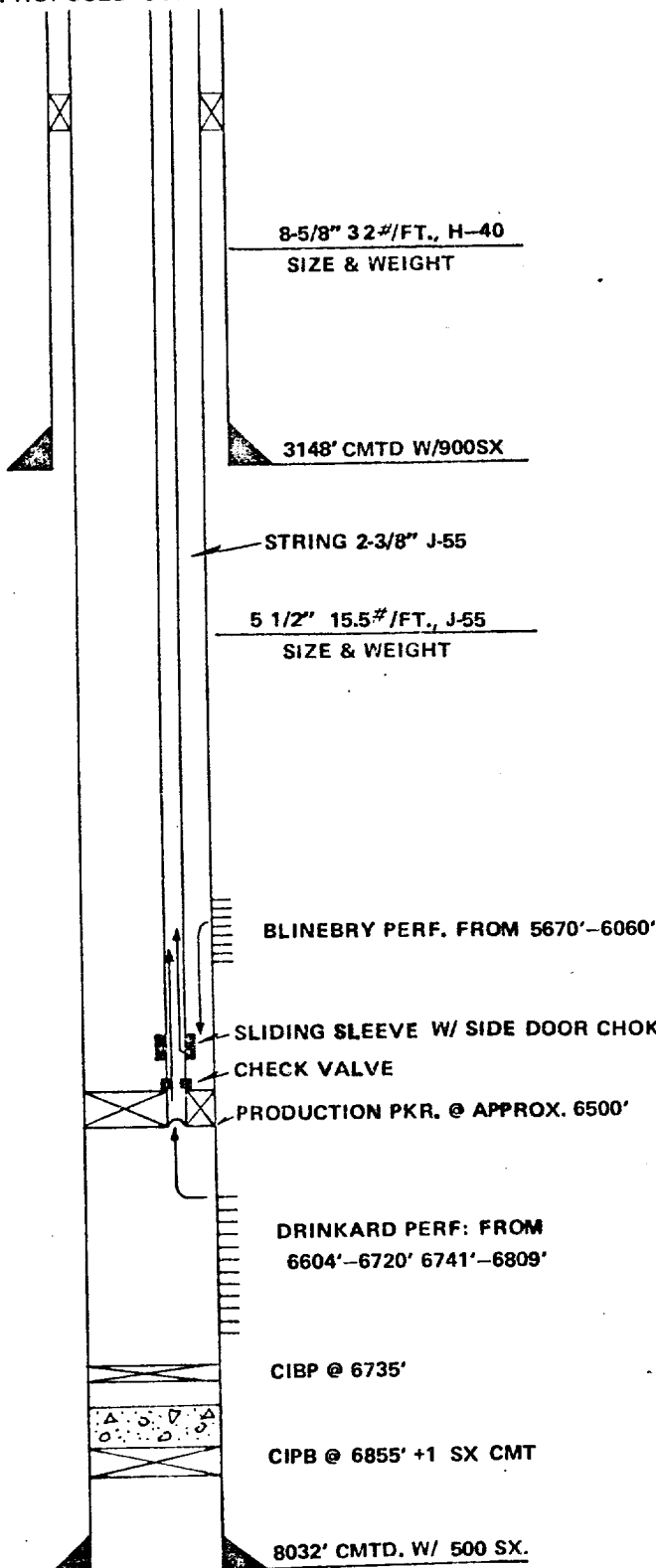
Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

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. 13
2970' FSL & 1650' FWL, SEC. 2, T-21-S, R-37-E
LEA COUNTY, NEW MEXICO

DOWN HOLE DRAWING
OF PROPOSED COMPLETION



ELEVATION 3494' DF
TD 8143'

PERF: BLINEBRY : PROPOSE TO PERF. AT
INTERVAL: 5670'- 6060'

DRINKARD: 6604', 36', 80', 94',
6702', 06', 14', 20', W/ 2 JSPF
6741', 47', 58', 61', 74', 90', 93',
98', 6805', 09' W/ 1 JSPF

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

5-1/2" CALCULATED CEMENT TOP
BY FREEZE POINT @ 5900'

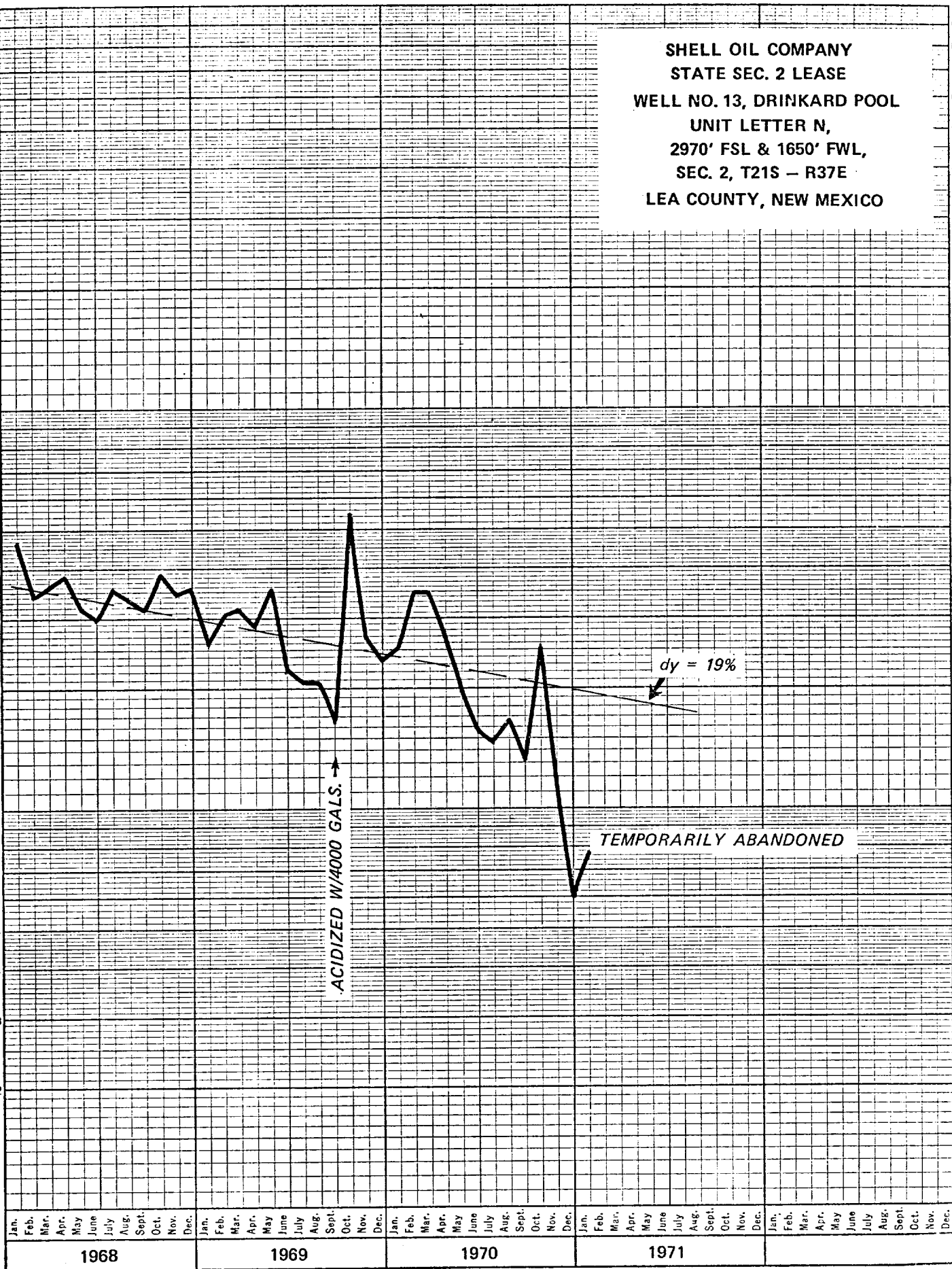
BOPM

SHELL OIL COMPANY
 STATE SEC. 2 LEASE
 WELL NO. 13, DRINKARD POOL
 UNIT LETTER N,
 2970' FSL & 1650' FWL,
 SEC. 2, T21S - R37E
 LEA COUNTY, NEW MEXICO

1000

100

10



BOPM

SHELL OIL COMPANY
 STATE SEC. 2 LEASE
 WELL NO. 18, BLINEBRY POOL
 UNIT LETTER N,
 3550' FSL & 2300' FWL,
 SEC. 2, T21S - R37E
 LEA COUNTY, NEW MEXICO

1000

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											

ACIDIZED W/8500 GALS.

dy = 29%

dy = 29%

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
Shell Oil Company		Blinebry		Lea											
Address		TYPE OF TEST - (X)		Completion ☐		Special ☒									
P. O. Box 1509, Midland, Texas 79701															
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKES 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	18	N	2	21	37	3-16-75	P	-	7	24	0	37.6	5	118	23,600

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)

State Section 2 No. 13

Drinkard - Estimated BHP 1000 psi

Blinebry - Estimated BHP 400 psi

Blindery
Warren Unit
U.S.

3511 (C)

3524 (C)

Blindery 3522 (C)

Warren
Unit
U.S.

Aztec

R-37-E

Gulf
"F"

3501 (C)

3512 (C)

3511 (C)

3520 (C)

3524 (C)

3533 (C)

3495 (C)

3502 (C)

3506 (C)

3504 (C)

3503 (C)

3506 (C)

3520 (C)

3521 (C)

"Hawk"
U.S.

3457 (C)

3491 (C)

M. F. Taylor - U.S.

Continental
"B-3"

3472 (C)

3481 (C)

3483 (C)

3490 (C)

3493 (C)

3499 (C)

3493 (C)

3510 (C)

3459 (C)

3467 (C)

3456 (C)

3473 (C)

3475 (C)

3481 (C)

3481 (C)

3480 (C)

3481 (C)

3487 (C)

3482 (C)

3483 (C)

3492 (C)

-4341-5/12"
-404 (III/AS) R5h
-4301 T.D. 2000 GA

3454 (C)

3455 (C)

3456 (C)

3472 (C)

3473 (C)

3474 (C)

3477 (C)

3478 (C)

3479 (C)

3480 (C)

3481 (C)

3482 (C)

3483 (C)

3484 (C)

3485 (C)

U.S.
"WC Hawk"

State

Harry Leonard

3451 (C)

3452 (C)

3453 (C)

3454 (C)

3455 (C)

3456 (C)

3457 (C)

3458 (C)

3459 (C)

Continental, et al
"B-11"

3460 (C)

3461 (C)

3462 (C)

3463 (C)

3464 (C)

3465 (C)

7-21-5, R-37-E

Lea County, New Mexico

F.W. Daughan

Continental, et al

3466 (C)

3467 (C)

3468 (C)

3469 (C)

3470 (C)

3471 (C)

3472 (C)

3473 (C)

3474 (C)

3475 (C)