

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,

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

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
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	CHOKES 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 N. W. Harrison
(Signature)
Staff Production Engineer
(Title)
5-15-75
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County		Lea								
Shell Oil Company		Blinebry												
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.
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.

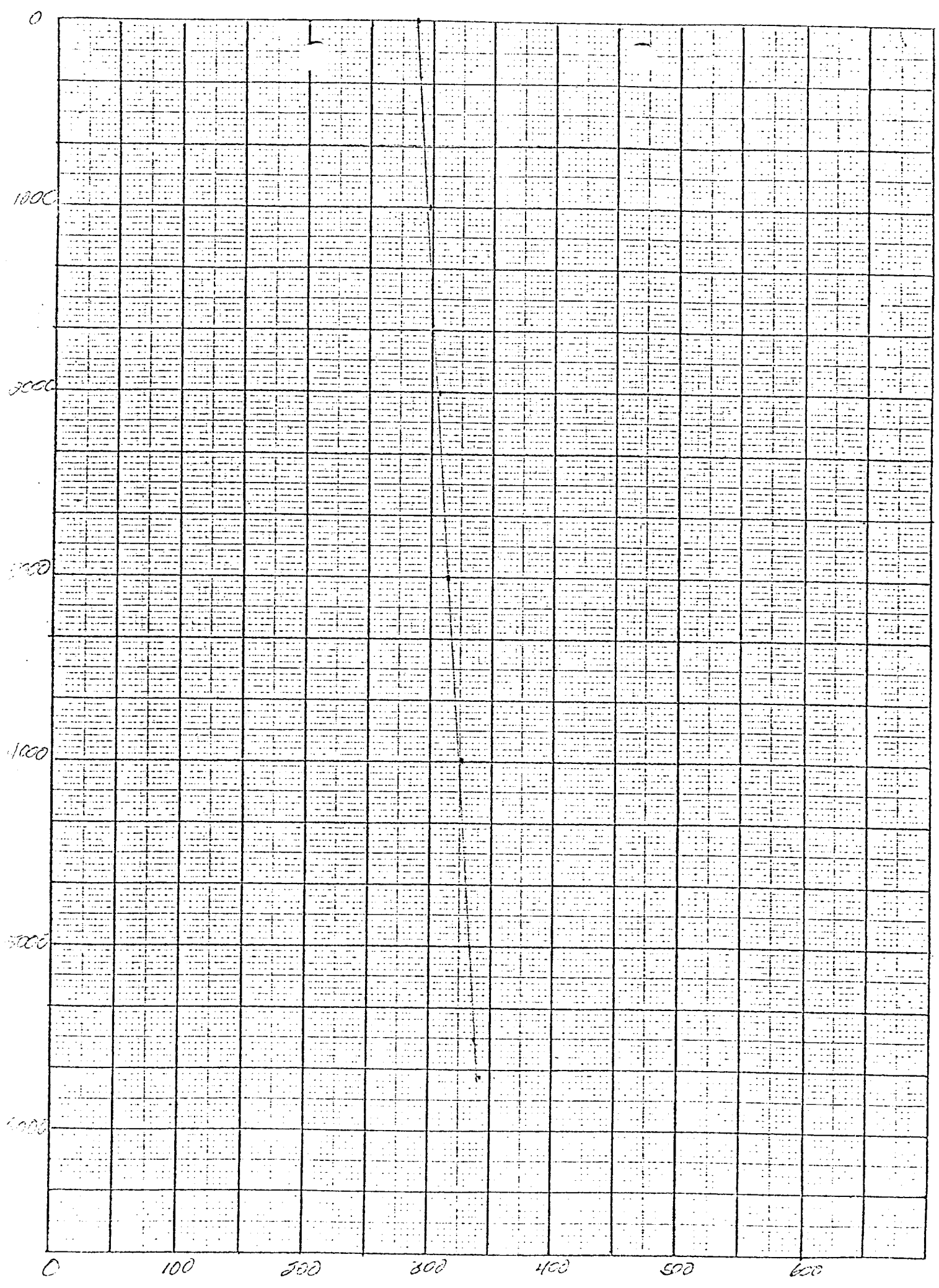
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

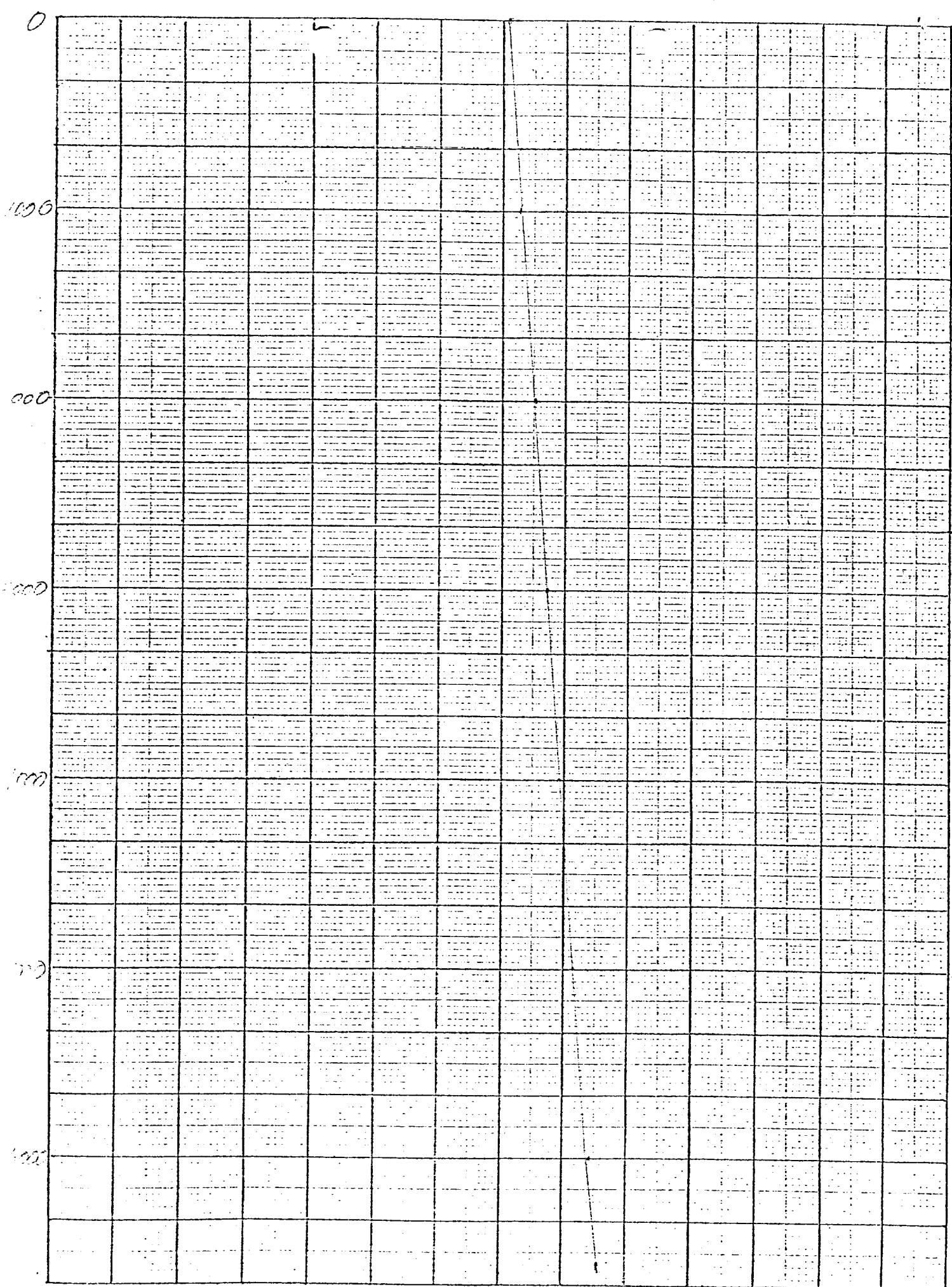
N. W. Harrison
(Signature)
Staff Production Engineer

(Title)

5-15-75

(Date)





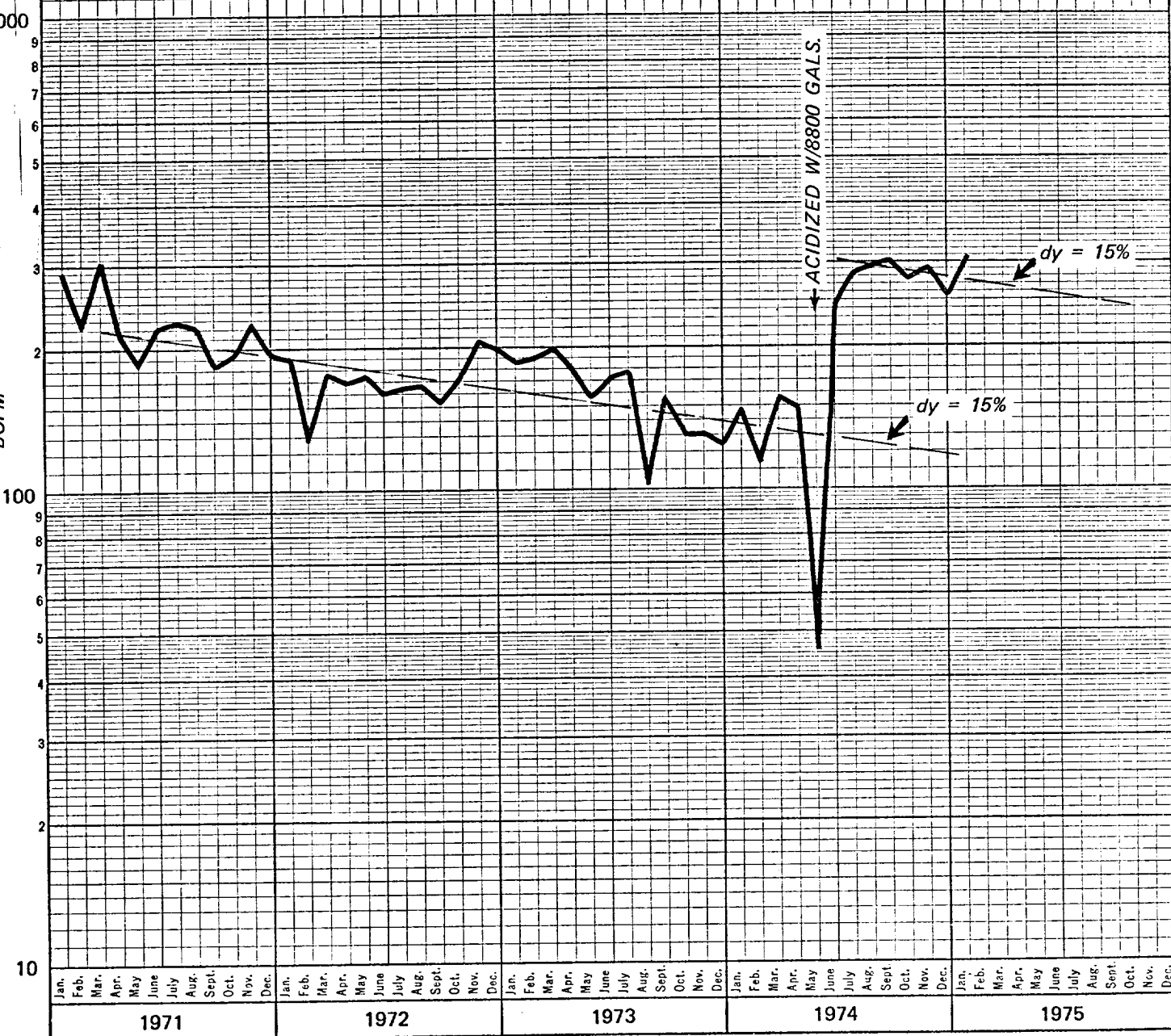
0 100 200 300 400 500 600 700 800 900

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




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

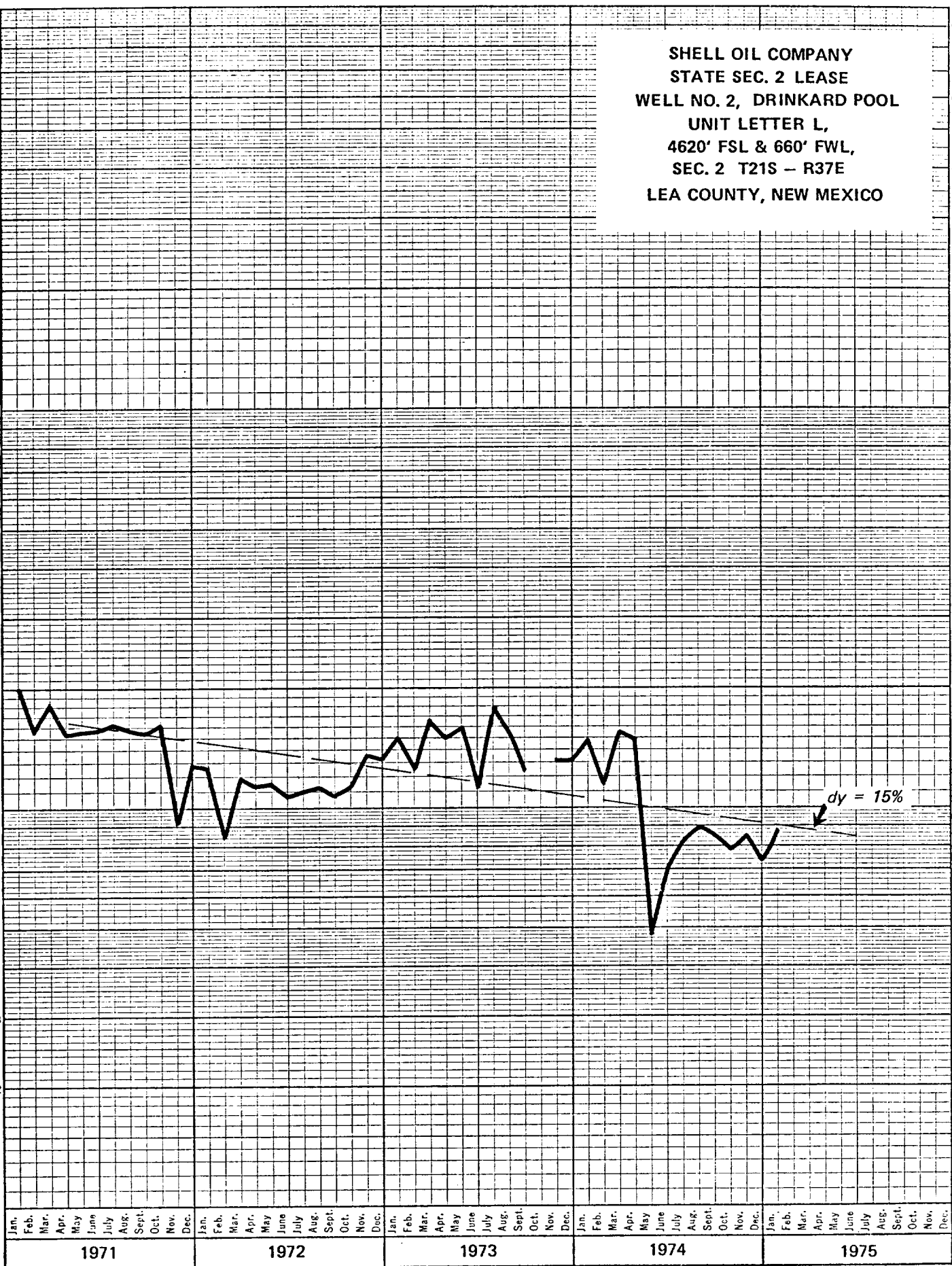
1000

BOPM

100

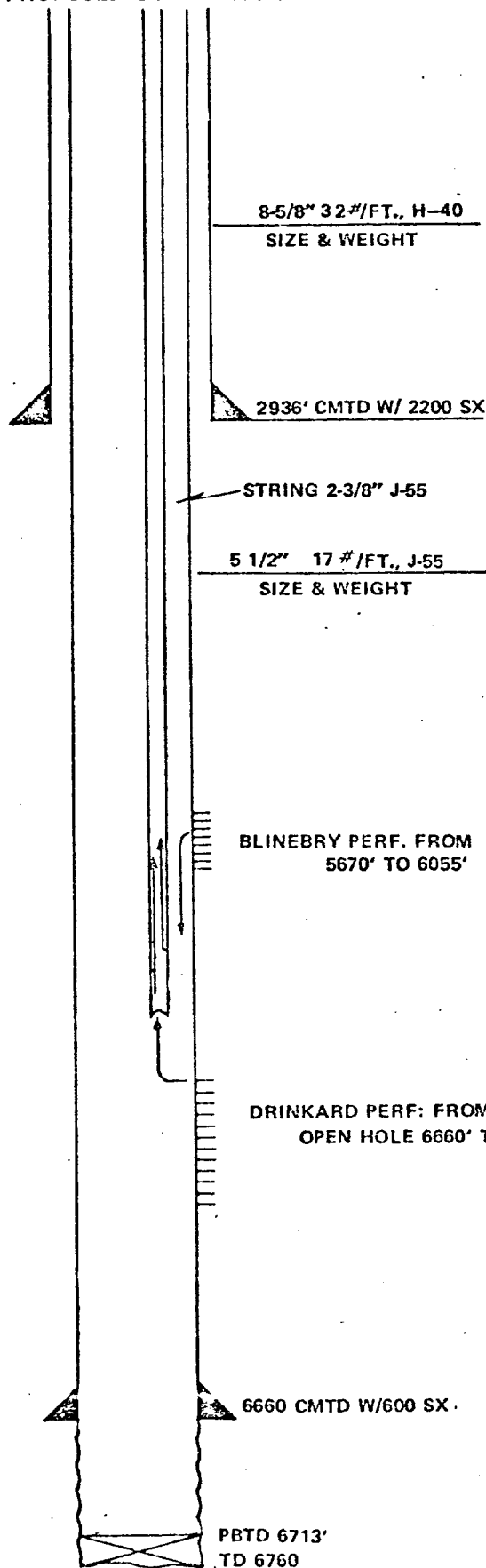
10

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



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'

Blinebry
Warren
Unit
U.S.

3511 (C)

3524 (C)

Blinebry 3527 (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)

3504 S
3504 (C)

3508 (C)
3508 (C)

3520 (C)

3521 (C)

"Hawk"
U.S.

3437 (C)

3431 (C)
3435 (C)
3433 (C)

3435 (C)
3433 (C)
3430 (C)

3503 (C)

3507 (C)

3513 (C)

M. F. Taylor - Glenn
3453 (C)

Continental
"B-3"

3473 (C)
3473 (C)
3473 (C)

3491 (C)
3480 (C)

3493 (C)
3490 (C)

3499 (C)

3499 (C)

3510 (C)

3453 (C)
3451 (C)

3474 (C)
3473 (C)
3474 (C)

3487 (C)
3480 (C)
3483 (C)
3481 (C)

3491 (C)
3488 (C)
3487 (C)

3482 (C)
3483 (C)

3492 (C)

-4341-572"
-494 (111/43) 865
TA
-4361 (10, 511 6-93
5000 GR

3454 (C)
3453 (C)
3455 (C)

3472 (C)
3458 (C)
3457 (C)

3477 (C)
3473 (C)

3487 (C)
3487 (C)
3487 (C)

3488 (C)
3488 (C)
3488 (C)

U.S.
"WC Hawk"

State

Harry Leonard

3443 (C)
3446 (C)

3444 (C)
3453 (C)
3452 (C)

3455 (C)
3453 (C)

3462 (C)

Continental, et al
"B-11"

3453 (C)
3450 (C)
3453 (C)
3453 (C)

T-21-5, R-37-E

Lee Currey, New Mexico

FW Dorton

R. Sears

3422 (C)
3427 (C)

3415 (C)

3419 (C)

3415 (C)

3415 (C)