

Release June 23, 1985

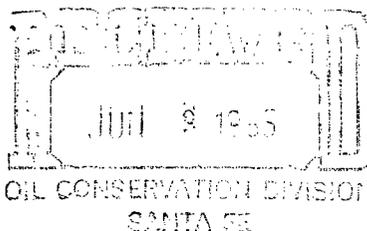
Shell Western E&P Inc.
A Subsidiary of Shell Oil Company



By
DCC

May 30, 1985

P.O. Box 991
Houston, TX 77001



State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

SUBJECT: APPLICATION TO DOWNHOLE COMMINGLE
SHELL - ANDREWS NO. 2
990' FNL AND 1980' FWL, UNIT LETTER "C"
SECTION 14, T-21-S, R-37-E
DRINKARD & BLINEBRY OIL AND GAS POOLS
LEA COUNTY, NEW MEXICO

Pursuant to the provisions of Rule 303-C, Shell Western E&P Inc. respectfully requests administrative approval to commingle production within the wellbore from the Drinkard and Blinebry Oil and Gas Pools for the subject well. Andrews No. 2 was drilled in 1953 as a Wantz Abo producer. The Wantz Abo was abandoned in 1962 and the well recompleted in the Drinkard and Blinebry formations as a dual producer. The Drinkard was abandoned in 1979 and the well has since singly produced from the Blinebry zone. With the indicated marginal production, installation of dual equipment cannot be justified. In the interest of conservation and prevention of waste, we now propose to re-open the Drinkard and downhole commingle the production with that of the Blinebry Oil and Gas Pool in the subject well.

This well qualifies for administrative approval in accordance with Statewide Rule 303-C; and in support thereof, the following facts are submitted:

1. The attached plat indicates the Andrews lease.
2. The latest tests are as follows:
Blinebry: (1-07-85) 3 BO + 1 BW + 146 MCFG
Drinkard: (4-05-85) 2 BO + 0 BW + 36 MCFG
3. Neither zone produces more water than the combined oil limit as determined in Rule 303-C, Section 1, paragraph (1).
4. Shell Western E&P Inc. has commingled these fluids at the surface on the subject lease and has encountered no

CDA8515811

incompatibility problems; therefore, downhole commingling is not expected to result in reservoir damage.

5. Surface commingling resulted in no reduction of oil value; therefore, downhole commingling will not reduce oil value.
6. Ownership of the two pools to be commingled is common and correlative rights will not be violated.
7. The bottom-hole pressures at common datum of 6475' are:

Blinebry: 391 psig (24 hrs SI)
Drinkard: 454 psig (66 hrs SI)

We do not anticipate crossflow of fluids since the well will be maintained at pumped off conditions.

8. Commingling will not jeopardize the efficiency of future secondary operations in either zone.
9. Recommended oil and gas allotments would be as follows:

<u>Blinebry</u>		<u>Drinkard</u>
60%	Oil	40%
80%	Gas	20%

10. Copies of this application have been furnished to all offset operators by certified mail.

Other supporting data attached are resume of the well's history, C-116 for each zone, a schematic of the present and proposed downhole configuration, and a production decline curve of the Blinebry zone.

If additional information is required, please advise.

Yours very truly,



A. J. Fore
 Supervisor Regulatory and Permitting
 Production Administration
 Mid-Continent Division

JMW:LG

Attachments

cc: State of New Mexico
 Energy and Minerals Department
 Oil Conservation Division
 P. O. Box 1980
 Hobbs, NM 88240
 CDA8515811

WELL HISTORY
ANDREWS #2
DRINKARD FIELD

- 1/53 Drilled and completed in the Wantz Abo formation.
- 9/62 Set CIBP over Wantz Abo and recompleted in the Drinkard and Blinebry formations as a dual producer.
- 7/79 TA'd the Drinkard formation.
- 4/81 Installed artificial lift.
- 2/85 Commingled Blinebry/Drinkard formations.

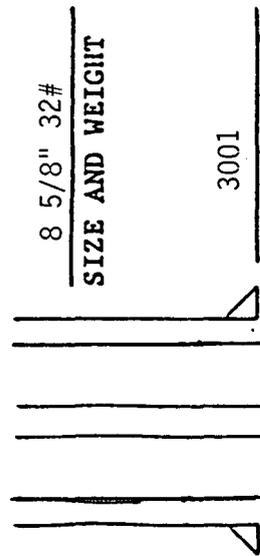
MECHANICAL CONFIGURATION

WELL Andrews #2

FIELD Drinkard

DATE January, 1985

PRESENT



8 5/8" 32#

SIZE AND WEIGHT

3001

5 1/2" 15.5#

SIZE AND WEIGHT

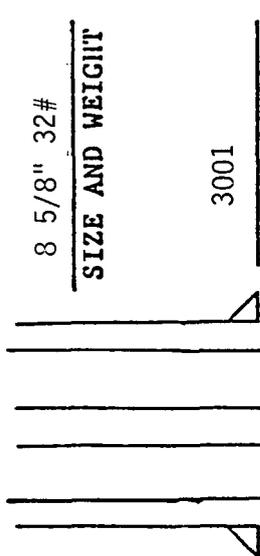
Blinebry
5578-5814
CIBP @ 5839
Drinkard 6476-6616

CIBP @ 6850

6940

TD 7443

PROPOSED



8 5/8" 32#

SIZE AND WEIGHT

3001

5 1/2" 15.5#

SIZE AND WEIGHT

Blinebry 5578-5814

Drinkard 6476-6616

CIBP @ 6850

6940

TD 7443

GAS-OIL RATIO TESTS

LEASE NAME	WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	VESS. OF TEST	PROD. DURING TEST			GAS-OIL RATIO CU.FT/D										
		U	S						T	A	WATER BBL/D		GRAV. OIL	OIL BBL/D	GAS M.C.F.							
ANDREWS	2	C	14	21-S	37-E	P	20	24	1	37.8	5	182	36,400									
					60%		3 BOPD															
					40%		2 BOPD															
					100%		5 BOPD															
					80%		146 MCF/D															
					20%		36 MCF/D															
					100%		182 MCF/D															

TYPE OF TEST - (X) Scheduled (COMMINGLED TEST) Special

County LEA

Pool BLINEBRY OIL AND GAS & DRINKARD

P. O. BOX 991, HOUSTON, TEXAS 77001

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

A. J. Fore
(Signature)
A. J. FORE
SUPERVISOR REG. & PERMITTING

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 used by more than 33 percent. Operator is encouraged to take advantage of this 33 percent tolerance in order that well can be assigned a rate allowable when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 14.73 psia and a temperature of 60° F. Specific gravity base 11.86 g/cc.

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 Division in accordance with 19-301 and appropriate pool rules.

MAY 30, 1985

OFFSET OPERATORS

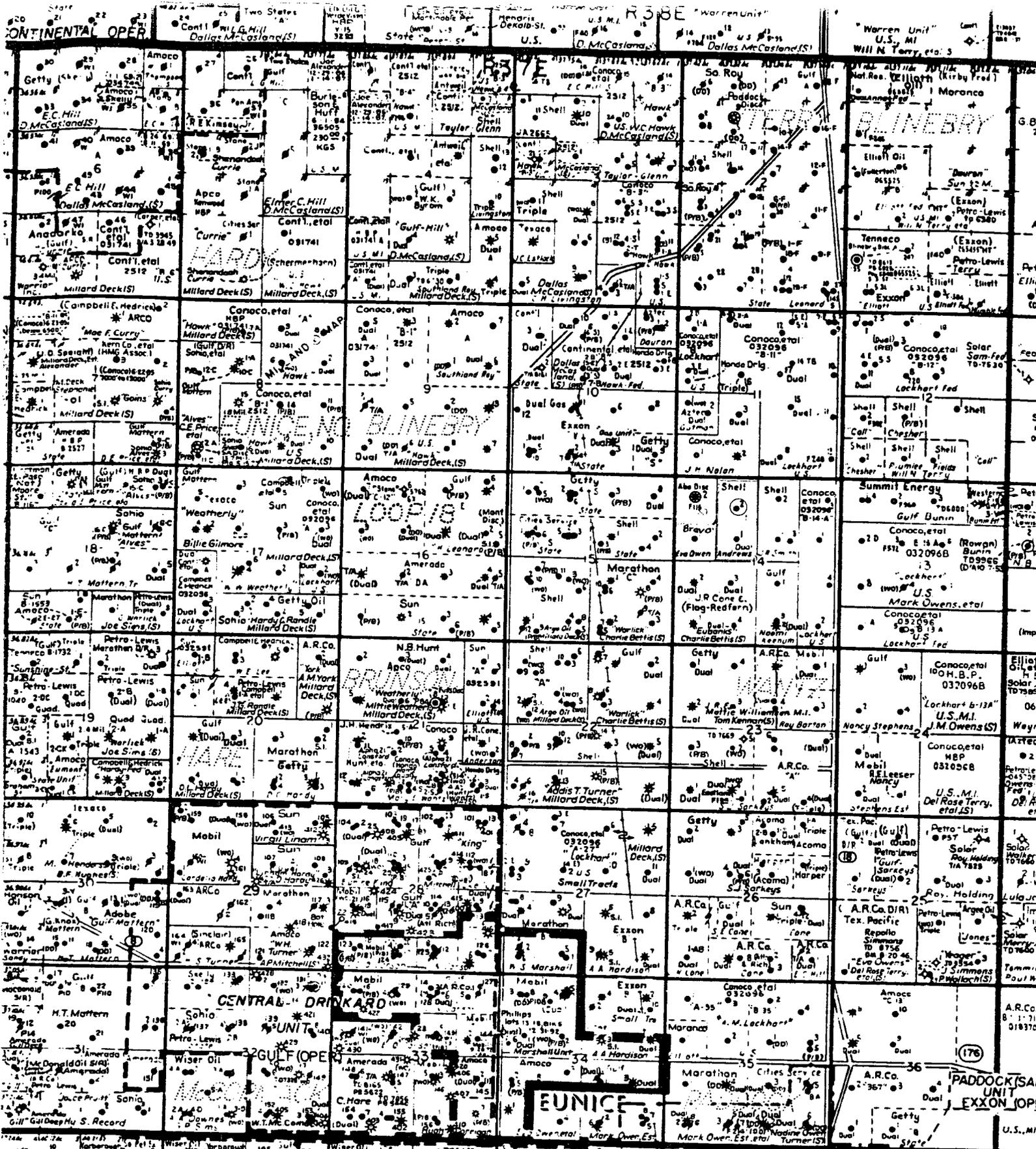
SHELL - ANDREWS LEASE

BRAVO ENERGY, INC.
P.O. BOX 2160
HOBBS, NEW MEXICO 88240

J.R. CONE
P.O. BOX 10217
LUBBOCK, TEXAS 79408

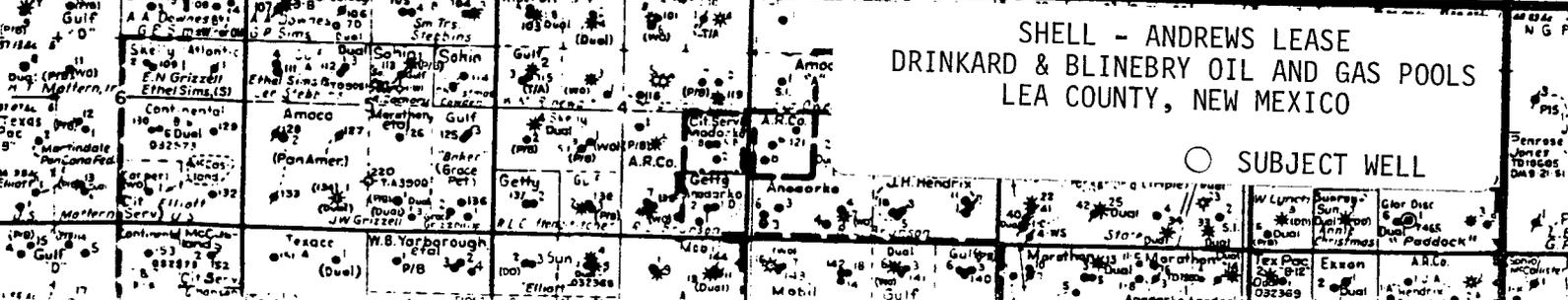
CONOCO INC.
P.O. BOX 460
HOBBS, NEW MEXICO 88240

GULF OIL EXPLORATION AND PRODUCTION COMPANY
P.O. BOX 670
HOBBS, NEW MEXICO 88240



SHELL - ANDREWS LEASE
 DRINKARD & BLINERY OIL AND GAS POOLS
 LEAKE COUNTY, NEW MEXICO

○ SUBJECT WELL

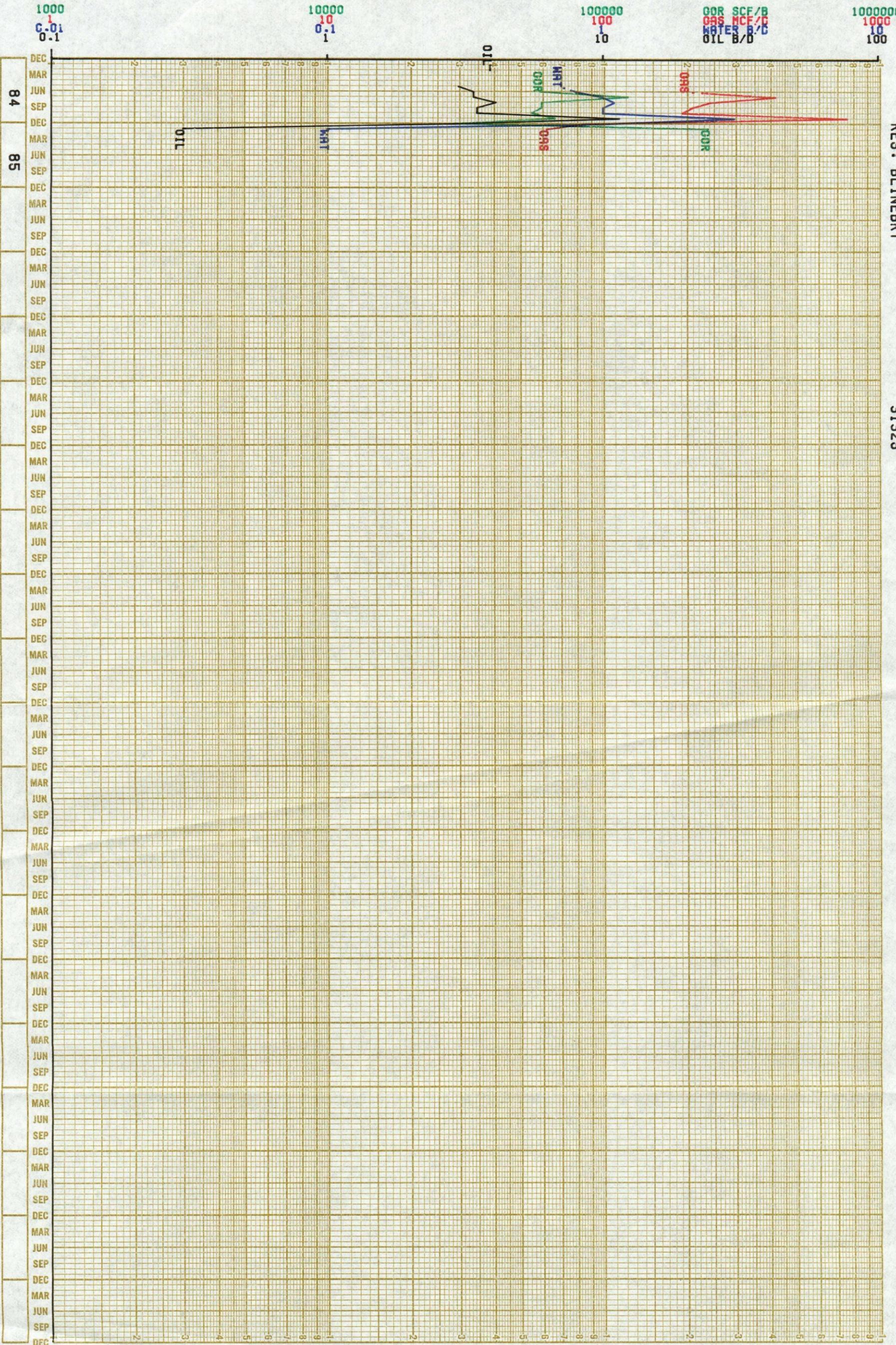


PRODUCTION UNIT 647: NEW MEXICO
 LSE: ANDREWS ESTATE
 RES: BLINEBRY

3115
 50462

FLD: DRINKARD
 WLL: 2-14

33614
 31325



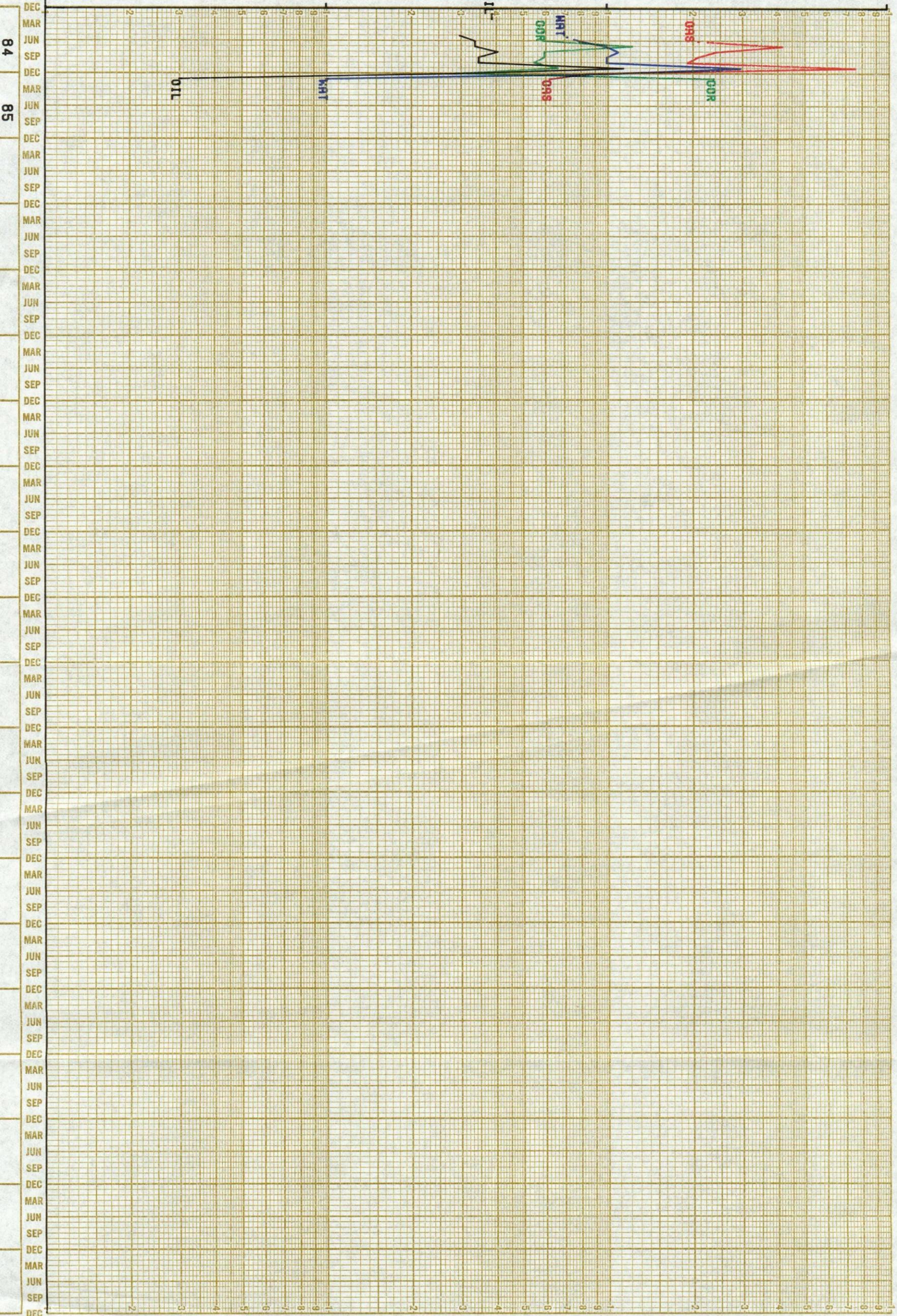
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GOR SCF/B
 GAS MCF/D
 WATER B/D
 OIL B/D

1000000
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 10
 100





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

June 4, 1985

TONY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

RECEIVED
JUN 10 1985
OIL CONSERVATION DIVISION
SANTA FE

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____ X _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Shell Western E&P Inc.	Andrews	No.-2-C	14-21-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K. ----J.S.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc