

Release June 23, 1985

Shell Western E&P Inc.

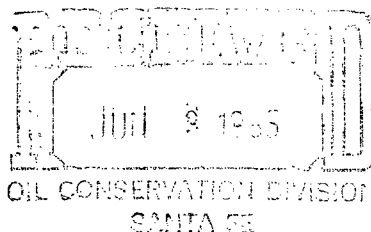
A Subsidiary of Shell Oil Company



*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

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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:

<u>Blinebry</u> :	391 psig (24 hrs SI)
<u>Drinkard</u> :	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.

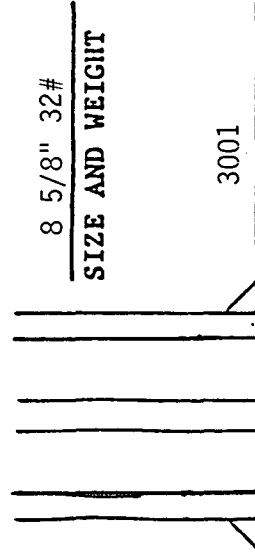
MECHANICAL CONFIGURATION

WELL Andrews #2

FIELD Drinkard

DATE January, 1985

PRESENT

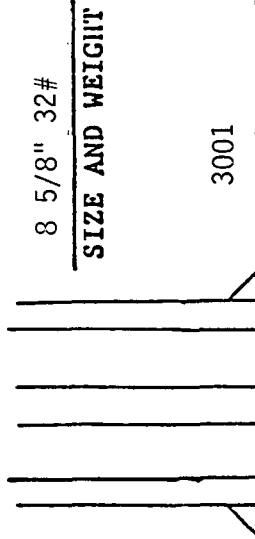


Blinebry
5578-5814
CIBP @ 5839
Drinkard 6476-6616

CIBP @ 6850
6940

TD 7443

PROPOSED



Blinebry 5578-5814

Drinkard 6476-6616

CIBP @ 6850
6940

TD 7443

OFFSET OPERATORS

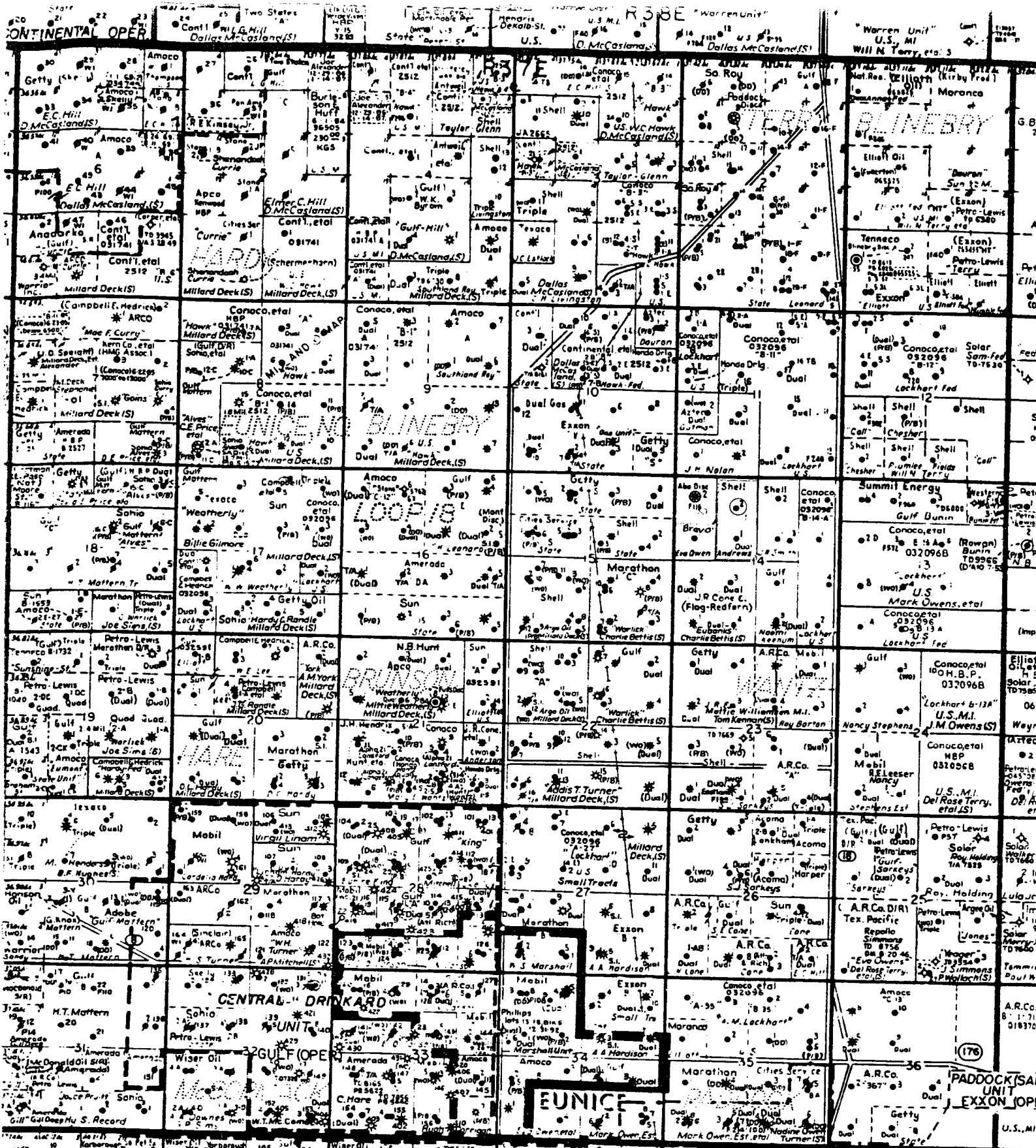
SHELL - ANDREWS LEASE

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 & BLINEBRY OIL AND GAS POOLS
LEA COUNTY, NEW MEXICO

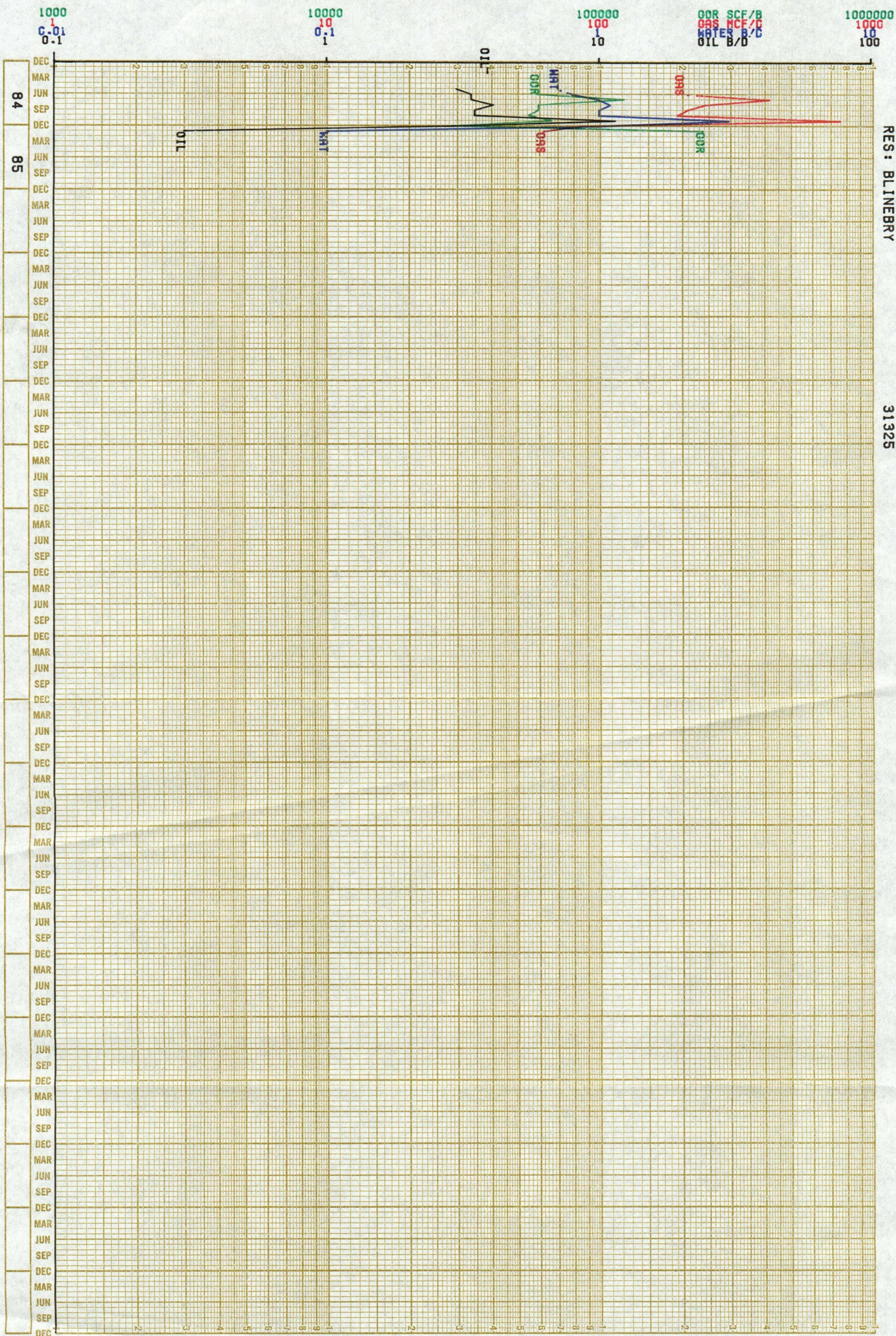
○ SUBJECT WELL

PRODUCTION UNIT647:NEW MEXICO
LSE: ANDREWS ESTATE
RES: BLINEBRY

33614
31325

FLD: DRINKARD
WLL: 2-14

3115
50462



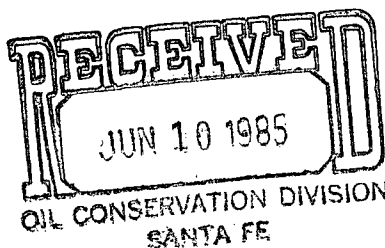


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
June 4, 1985

TONEY ANAYA
GOVERNOR

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

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