

DEC 8 1969

December 5, 1969

New Mexico Oil Conservation Commission (2)
P. O. Box 2088
Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary Director

Gentlemen:

Subject: Application for Downhole Commingling
Lockhart B-11 Well No. 4 - C-11-21S-37E

Continental Oil Company, Box 460, Hobbs, New Mexico, as operator of the Lockhart B-11 Lease respectfully requests administrative approval under the provisions of Order No. R-3845 to commingle in the well bore production from the Drinkard and Terry-Blinebry Pools in its Lockhart B-11 Well No. 4 located in Unit C of Section 11, T21S, R37E, Lea County, New Mexico. This dual completion was authorized by administrative Order No. MC-1799. The attached plat shows the Lockhart B-11 Lease outlined in red and the No. 4 well by the red circle.

Attached hereto are forms C-116 showing the results of tests taken within the last 30 days on the Blinebry zone in this well. The Drinkard was tested at 3 BOPD before being shut in during February, 1969. As shown by these tests, the combined producing rate is 13 barrels oil, 2 barrels water and 111 MCF gas per day.

The estimated bottom hole pressure after 24 hour shut in of the Blinebry zone which is artificially lifted, is 857 psi based on the surface shut in pressure and the measured fluid level. The Drinkard was artificially lifted prior to its shut-in in February, 1969. The estimated BHP of the Drinkard is 400 psi. The commingled production will be artificially lifted.

Attached hereto is a production curve for each zone. The future production from the Blinebry zone is estimated by the extension of the curve. Since the Blinebry has been artificially lifted without obstruction, we propose to allocate this zone's production on the curve extension and the remainder of the well's production to the Drinkard.

The fluid from these two pools has been commingled at the tank battery for a number of years and there has been no indication of incompatibility. Both crudes are typical Permian high gravity crude. Since

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Lockhart B-11 No. 4
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the crudes have been commingled at the tank battery before sale to the pipe line, there should be no difference between the value of the commingled stream at the surface and that commingled within the well bore.

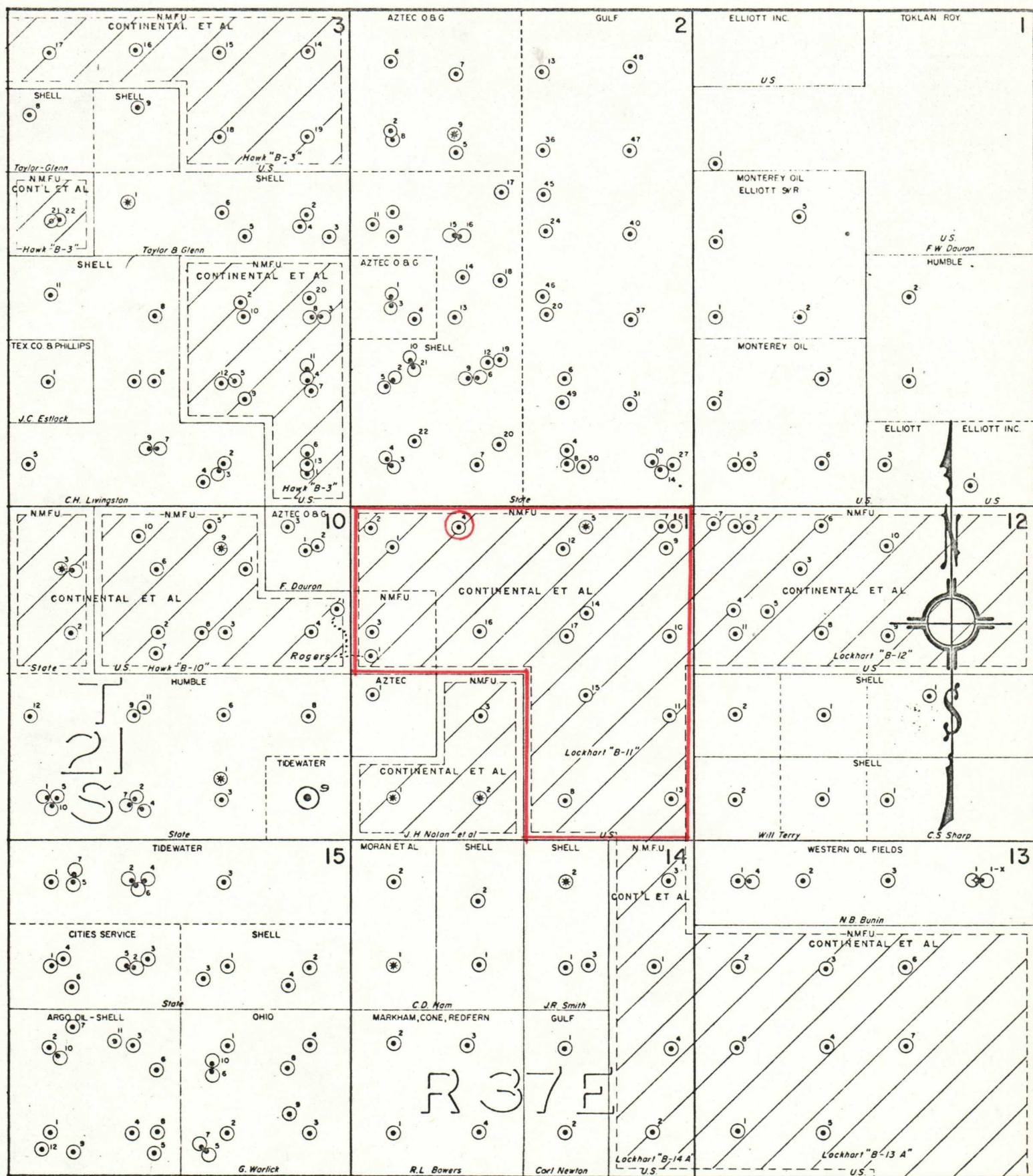
The Lockhart B-11 is a federal lease and a copy of this application is being furnished the USGS and to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,



G. C. Jamieson
Assistant Division Manager

VTL-JS
CC: NMOCC-Hobbs
USGS-Hobbs(2)
RLA JJB JWK
Shell Oil Company
Gulf Oil Corporation
Aztec Oil and Gas Company
J. W. Rogers



CONTINENTAL OIL COMPANY
 PRODUCTION DEPARTMENT
 HOBBS DIVISION
 LOCKHART B-11 LEASE PLAT
 LEA COUNTY, NEW MEXICO
 SCALE: 1"=2000'

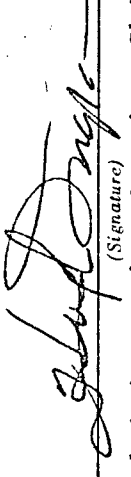
NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-1116
Revised 1-1-65

Operator Continental Oil Company		Pool Drinkard		County Lea											
Address Box 460, Hobbs, N. M. 88240		TYPE OF TEST - (X) ☐ Scheduled ☐ 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.
Lockhart B-11	10	H	11	21	37	11-17-69p	Open	40	5	24	1	37	2	50	25,000
Lockhart B-11	4	C	11	21	37	Shut-in; pumping unit moved.	Open	40	4	24	Last test	38	3 BOPD	25	3,571
Hawk A	5	D	9	21	37	11-22-69p	Open	40	4	24	1	38	7	25	
Hawk A	4	U	4	21	37	Shut-in - pumping unit moved.	Open	45	2	24	0	37	2	33	16,500
Hawk B-3	13	X	3	21	37	11-16-69p	Open	40	10	24	1	36	10	32	3,200
Lockhart B-11	11	I	11	21	37	11-13-69p	Open	40	8	24	2	38	5	24	4,800
Lockhart B-14A	1	H	14	21	37	11-15-69p	Open	30	8	24	2	38	5	24	
Lockhart B-11	16	F	11	20	37	Shut-in - pumping unit moved.	Open	40	33	24	3	38	13	53	4,070
Lockhart B-12	3	C	12	21	37	11-22-69p	Open	40	33	24	3	38	13	53	

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

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.


(Signature)
Administrative Section Chief
(Title)
12-5-69
(Date)

NMOCC (2) FILE

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Continental Oil Company		Pool Terry Blinebry		County Lea											
Address Box 460, Hobbs, N. M. 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ 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.
Lockhart B-11	10	H	11	21	37	11-10-69P	Open	40	12	24	5	38	11	71	6,450
Lockhart B-11	4	C	11	21	37	11-22-69P	Open	35	7	24	2	38	10	52	5,200
Lockhart B-11	11	I	11	21	37	11-13-69F	SCF	200	15	24	2	39	12	98	8,160
Lockhart B-14A	1	H	14	21	37	11-11-69F	Open	140	5	24	2	39	5	1030	206,000
Lockhart B-11	16	F	11	20	37	11-23-69F	32/64	120	51	24	5	38	23	343	14,900

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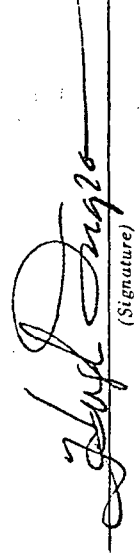
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(Signature)

Administrative Section Chief
(Title)

12-5-69

(Date)



LOCKHART B-11 NO. 4

TERRY-BLINEBRY

DRINKARD



BOPM