



DEC 12 1969

# CONTINENTAL OIL COMPANY

P. O. Box 460  
Hobbs, New Mexico  
December 10, 1969

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

DHC -27  
Dec 1-1-70

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

Gentlemen:

Subject: Application for Downhole Commingling  
Hawk B-10 Well No. 4 - H-10-21S-37E

Continental Oil Company, Box 460, Hobbs, New Mexico, as operator of the Hawk B-10 Lease respectfully requests administrative approval under the provisions of Order No. R-3845 to commingle in the well bore production from the Wantz Abo and Blinebry Pools in its Hawk B-10 Well No. 4, located in Unit H of Section 10, T21S, R37E, Lea County, New Mexico. This dual completion was authorized by administrative Order No. MC-1355. The attached plat shows the Hawk B-10 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 two zones in this well. As shown by these tests, the combined producing rate is 12 barrels oil, 1 barrel water and 55 MCF gas per day.

On December 2, 1969, the bottom hole pressure in the Abo zone which is capable of flowing, was 624 psi after shut in of 24 hours. The estimated bottom hole pressure after 24 hour shut in of the Blinebry zone, which is artificially lifted, is 552 psi based on the surface shut in pressure and the measured fluid level. The commingled production will be artificially lifted.

Attached hereto is a production curve for each zone. The future production from each zone is estimated by the extension of the curve. Since the Abo has exhibited a more consistent decline rate, we propose to allocate this zone's production on the curve extension and the remainder of the well's production to the Blinebry.

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

NMOCC  
Hawk B-10 No. 4  
Page 2

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 Hawk B-10 is a federal lease and a copy of this application is being furnished the U.S.G.S. and to all offset operators. Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,



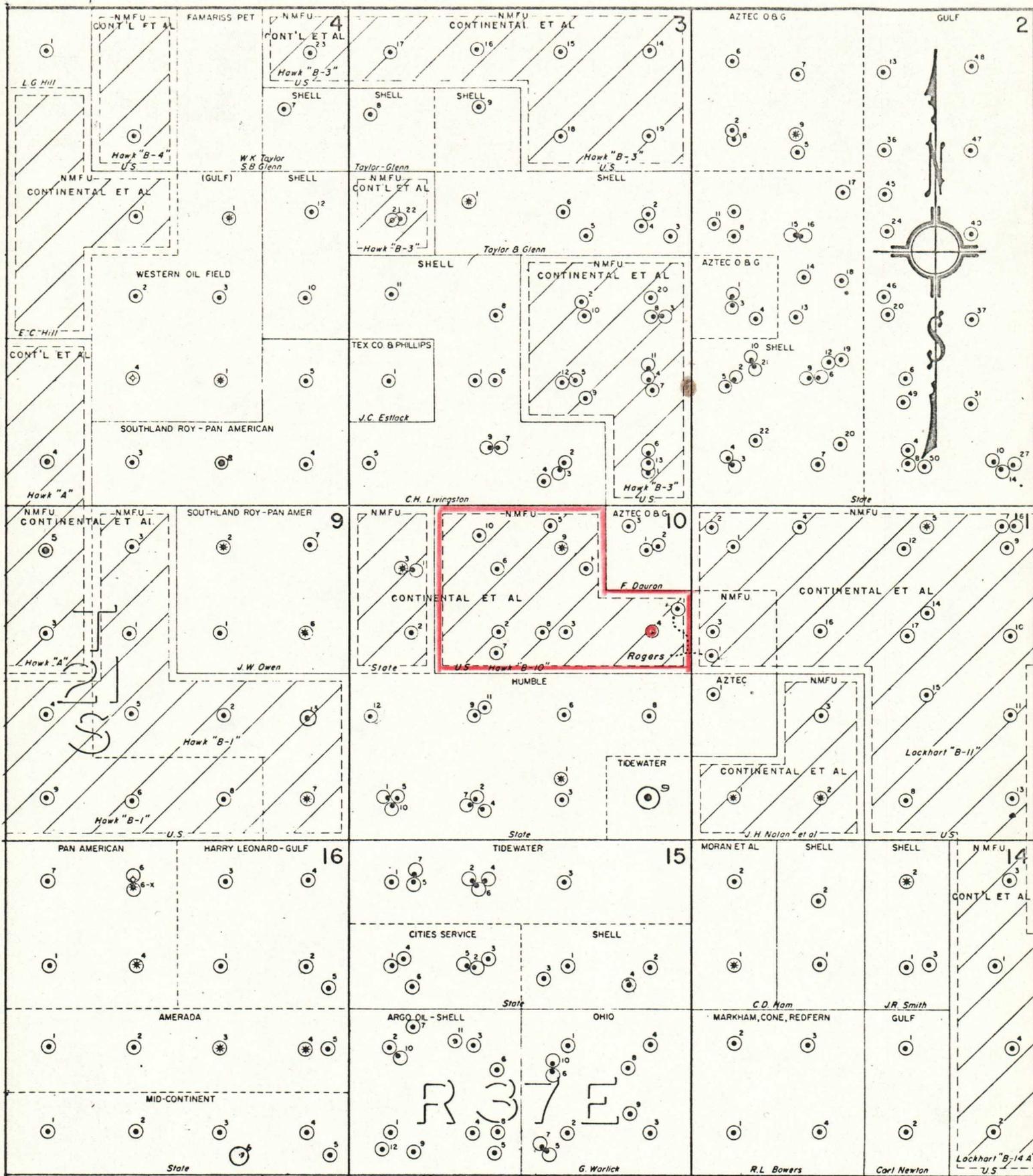
G. C. Jamieson  
Assistant Division Manager

VTL-JS  
CC: NMOCC-Hobbs  
USGS-Hobbs (2)

RLA JJB JWK

Aztec Oil & Gas Co.  
Humble Oil & Refining Co.  
Shell Oil Company

*Perforations:*  
*Blinberry 5760' to 6050'*  
*Wantz - Abs 6720' to 7370'*  
*Gas-Oil Ratio Limits*  
*Blinberry 6000 - 1*  
*Abs 2000 - 1*



CONTINENTAL OIL COMPANY  
 PRODUCTION DEPARTMENT  
 HOBBS DIVISION  
 HAWK B-10 LEASE PLAT  
 LEA COUNTY, NEW MEXICO  
 SCALE: 1" = 2000'

Operator Continental Oil Company Pool Blinebry (Oil) County Lea

Address Box 460, Hobbs, N. M. 88240

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	TYPE OF TEST - (X)	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS M.C.F.	GAS - OIL RATIO CU.FT./BBL
		U	S	T	R							WATER BBL.S.	GRAV. OIL	OIL BBL.S.		
Hawk A	5	D	9	21	37	11-10-69P	Open	40	3	24	0	38	3	8	2,667	
Hawk A	4	U	4	21	37	11-23-69P	Open	55	7	24	1	38	11	24	2,180	
Hawk B-3	13	X	3	21	37	11-11-69P	Open	40	8	24	3	38	8	70	8,750	
Hawk B-10	4	H	10	21	37	11-22-69P	Open	45	9	24	0	38	7	30	4,285	
Hawk B-10	9	B	10	21	37	Recompleted	as	single	shut-in	in 1966						

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.

*Alvin D. ...*  
 (Signature)

Administrative Section Chief

12-5-69  
 (Date)

Operator Continental Oil Company Pool Wantz Abo County Lea

Address Box 460, Hobbs, N. M. 88240

LEASE NAME Hawk B-10  
Lockhart B-11  
Lockhart B-12

WELL NO.	LOCATION				DATE OF TEST	STATE	CHOKE SIZE	TGB. 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 BBLs.	GAS M.C.F.		
4	H	10	21	37	11-23-69	F	SCF	220	7	24	1	37	5	25	5,000
16	F	11	20	37	Shut-in	-	tubing plugged								
3	C	12	21	37	Shut-in	-	will not flow								

TYPE OF TEST - (X) Scheduled  Special

Completion

No well will be assigned an allowable greater than the amount of oil produced on the official test.

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

*Shirley D. Taylor*  
(Signature)

Administrative Section Chief

12-5-69  
(Date)

