

CAMPBELL & HEDRICK

P. O. BOX 401 220 MID-AMERICA BLDG.  
MIDLAND, TEXAS 79701

June 27, 1979

DHC - 285  
Due - 7/23/79

Energy & Minerals Department  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,  
Director

Campbell & Hedrick herewith requests exception to Rule 303-A to permit commingling in the well bore of production from the Blinebry and Tubb Formations in the Campbell & Hedrick A M Lockhart Well No. 2, Unit M, Sect. 17, T21S, R37E, Lea County, New Mexico. This well is located 660'FSL and 990'FWL of said section. An example of a similar down hole commingling is Campbell & Hedrick Lockhart No. 1, Order DC 744. Pertinent facts, information and conditions follow:

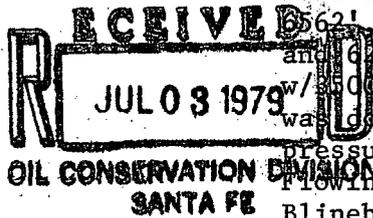
- (a) Both zones to be commingled in the well bore are oil zones.
- (b) The total daily production expected from the two zones tested individually does not exceed the amount specified in Rule 303 C 1 (b).
- (c) Each of the zones is capable of flowing.
- (d) Water production from each zone is less than the combined oil limit.
- (e) The fluid from each zone is compatible with the fluids from the other zone.
- (f) The total value of the crude will not be reduced by commingling.
- (g) Ownership of the zones to be commingled is common.
- (h) The commingling will not jeopardize the present or future secondary recovery operations of the zones to be commingled.

To support the above statements the following information is tabulated or attached:

- (a) Campbell & Hedrick  
P.O. Box 401  
Midland, Texas 79702
- (b) A.M. Lockhart Well No. 2, 660'FSL and 990'FWL of Sect. 17, T-21-S, R-37-E, NMPM., Lea County, New Mexico.
- (c) Well is presently completed and producing from the Blinebry zone.
- (d) Productivity Test on C-116's attached.
- (e) Both the Tubbs and Blinebry zones are newly completed with little or no production history.

Tubb zone-ran perf log and perforated 5 1/2" Csg. w/2 shots per foot, 562', 6547', 6532', 6517', 6406', 6373', 6347', 6309', 6291', 6270', 6241', and 612'. Acidized above perfs with 3000 gal. 15% acid and Sand-fraced w/ 5000 gelled 9.2 brine with 45000# 20/40 mesh sand. Acid and Frac job was done down 2 7/8" tubing. Aver. inj. rate 23/bbls/minute; aver. pressure 5350#. After job well produced 2 bbls. oil with GOR 10,000. Flowing on intermitter.

Blinebry zone-perforate interval 5670'-5735' with 3 1/8"WJM, 20 holes. Run Baker RTBP and Baker Full Bore on 2 7/8 Ø frac tubing. Tested tubing to 5000# psi and casing to 1500#. Set RTBP at 5781.40 spot 750



gal 15% DS-30 acid and treat with 15000 gal gelled 9 lb brine and 11,250 lbs 20/40 sand. Max trtg press 5600 psi, min 4000 psi, aver. inj rate 21/1 BPM. Swabbed well. Job Complete 6/7/79. Flow at rate of 9.7 BOPD. 8 bbls of treating fluid and 151,000 cf gas. GOR 15567. A consideration of other Blinebry and Tubbs completions on this lease and in the area indicate it is reasonable to expect decline in these two zones will be comparable.

- (f) Bottom hole pressure data:  
     Blinebry      845  
     Tubbs         907
- (g) The oil from both zones consists of 37-38° API intermediate grade crude and each is compatible with the other.
- (h) Since (1) the gravities are almost identical and (2) since as intermediate grade crudes the prices as indicated on schedules are the same, it can readily be ascertained that the value of the commingled crude will not be less than the sum of the values of the individual crudes.
- (i) All offset operators and the United States Geological Survey by copy of this application have been notified of this proposed commingling.

By granting the administrative approval of this application waste will not result thereby, and correlative rights will not be violated. Should the Director of the Commission grant this application it is requested that production of oil and gas from this well, respectively, be allocated as follows: Blinebry- 83% & 87%; Tubbs- 17% & 13%.

Sincerely,

O.F. Hedrick, Jr.  
PARTNER

cc: Oil Conservation Commission, Box 1980, Hobbs, New Mexico 88240  
U.S.G.S., Drawer 1857, Roswell, New Mexico 88201  
Texaco, Inc., Box 3109, Midland, Texas 79701  
Gulf Oil Corp., Box 1150, Midland, Texas 79702.. Attention: J.M. Thacker  
Getty Oil Co., P.O. Box 730, Hobbs, New Mexico 88240  
Petro-Lewis Corp., Box 2250, Denver, Colorado 80201  
Sun Oil Co., Box 1861, Midland, Texas 79702.. Attention: Fritz Brandes  
File

*Blinebry Oil Gas Prod ✓  
Tubb Gas Pool ✓*

B1 - 9.7	BO 83%	151 mcf	88%
Tubb - 2.0	BO 17%	20 mcf	12%
<u>11.7</u>		<u>171</u>	

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**OIL CONSERVATION DIVISION**  
**SANTA FE**

*Bottom pf 6562' - max prod = 40 BOPD*

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-55

Operator <b>CAMPBELL &amp; HEDRICK</b>		Pool <b>TUBBS OIL</b>		County <b>IEA</b>												
Address <b>P.O. BOX 401, MIDLAND, TEXAS 79702</b>		Type of Test - (X) <input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> Special		Completion <input type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	SIZING	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL.	
		U	S	T	R							WATER BLS.	GRAV. OIL	OIL BLS.		GAS M.C.F.
LOCKHART	2	M	17	21	37	5/2/79	F	24/64	45/150	0	24	Tr	37.7	2.0	20	10,000



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.  
Well 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.

*J. Hedrick*  
PARTNER  
(Signature)  
6/27/79  
(Title)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-55

Operator		Pool		County												
CAMPBELL & HEDRICK		BLINEBRY OIL		LEA												
Address P. O. BOX 401, MIDLAND, TEXAS 79702				TYPE OF TEST - (X) <input type="checkbox"/> Scheduled <input checked="" type="checkbox"/> 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/BSL			
		U	S	T						R	WATER BLS.	GRAV. OIL		OIL BLS.	GAS M.C.F.	
LOCKHART	2	M	17	21	37	6/8/79	F	19/64	45/190	0	24	8	37.1	9.70	151	15,567

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**JUL 03 1979**  
OIL CONSERVATION DIVISION  
SANTA FE

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*[Signature]*  
PARTNER  
6/27/79  
(Title)

OIL CONSERVATION COMMISSION  
HOBBS DISTRICT

285-

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE July 2, 1979

RE: Proposed MC \_\_\_\_\_  
Proposed DHC X \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated \_\_\_\_\_  
for the Campbell & Hedrick Lockhart No. 2-M 17-21-37  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

(See Application Attached)

Yours very truly,

*Jimmy Senter*

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JUL 03 1979  
OIL CONSERVATION DIVISION  
SANTA FE