

GARREY CARRUTHERS

GOVERNOR

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

12-11-90

POST OFFICE BOX 1980 HOBBS. NEW MEXICO 88241-1980 (505) 393-6161

ANC-285 amerikan

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:

<u>khart #2-m 17-21-37</u> No. Unit S-T-R edric Operatør Lease & Well

and my recommendations are as follows:

Youns very truly, Jerry Sexton

Supervisor, District 1

/ed



1 31V 310N

CAMPBELL & HEDRICK

P. 0. BOX 401 220 MID-AMERICA BLDG. MIDLAND, TEXAS 79701 20113 3 5 9 38

November 15, 1990

Re: Request for Exception to Rule 303-A Down-Hole Commingling Campbell & Hedrick Lockhart No. 2 Unit M, 660'FSL & 990' FWL, Sect. 1/, 7721S-37E, Lea County, New Mexico Blinebry Oil, Tubbs Oil & Drinkard Oil.

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

Gentlemen:

Campbell & Hedrick, P. O. Box 401, Midland, Texas 79702, request administrative approval for an exception to Rule 303-A to permit the commingling within the well bore of production from the Blinebry Oil zone, the Tubbs Oil zone and the Drinkard zone in captioned well. All three zones are very low marginal.

The Drinkard zone was TA'd November 6, 1978 with a#45A Baker Model C Bridge Plug. The Tubb Oil and the Blinebry Oil zones were perforated, treated and tested. Campbell & Hedrick applied for permission to DHC the Blinebry Oil-Tubbs Oil zones and was authorized to do so in DHC #285. Removing the Bridge Plug which shuts off the Drinkard zone as the well now is completed so as to commingle down-hole the three zones will enhance the economics of this well and permit the recovery of oil and gas that otherwise may not be recovered by this well.

All three zones in this well are classified as oil zones. Since the Drinkard was pumping when it was TA'd and since the Blinebry-Tubbs no longer will flow consistently, it is proposed to put the well to pumping after down-hole commingling is approved. This will eliminate any possibility of fluid thiefing into the old Drinkard completion and thereby maximize recovery of oil. Total combined production is estimated to be ± 10BOPD, 1BWPD and 160Mcfpd.

Ownership of the three zones to be commingled is common as to working interest, royalty and overiding royalty. Other information requested in Section 2 follows:

(a) Campbell & Hedrick
P. O. Box 401
Midland, Texas 79702



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- (b) A M Lockhart Well No. 2 (Federal Lse. No. <u>032096(a)</u>). 660' FSL & 990' FWL Sect 17, T-21S, R-37E Lea County, New Mexico
- (c) Plat of the area Attachment 1.
- (d) Form C-116 for the Blinebry-Tubbs DHC <u>#285</u>. Attachment 2. No recent test data is available on the Drinkard zone.
- (e) Production decline curves Blinebry-Tubbs DHC #285 Attachment 3.

Production decline curves Drinkard Attachment 4.

Complete resume of the well's history including description of treating, testing, etc. each zone and prognostication of future production from each zone Attachment 5.

(f) Estimated BHP each zone

Blinebry	310
Tubbs	310
Drınkard	275

(g) Crude from all three zones is classified West Texas-New Mexico Intermediate and on other leases in the area surface commingling confirms there are no incompatibilities.

(h)	Value 🤉	of	Blinebry-Tubbs production	\$123.50
	Value 🛛	of	Drinkard production	160.32
	Value 🛛	of	combined production	283.82
	Value (of	commingled production	283.90

(i) It is requested that production as to oil be allocated

Blinebry 37% Tubbs 8% Drinkard 55%

and that production as to gas be allocated Blinebry 48% Tubbs 7% Drinkard 45%

(j) All offset operators have been notified by a copy of this application as has the Bureau of Land Management.

Bureau of Land Management, P.O. Box 1778, Carlsbad, N.M. 88220 Texaco, P. O. Box 3109, Midland, Texas 79702-3109 Oryx, P.O.Box 1861, Midland, Texas 79702-1861



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Graham Energy, P.O. Box 62731, New Orleans, Louisiana 70162 Chevron, P.O. Box 1150, Midland, Texas 79702-1150

Very truly yours,

O. F. Hedrick,

Partner

OFH:mes





~ mpbell & Hedrick Lockhart -? Well Sketch Blinebry/Tubbs/Drinkard Fields





Attachment 2

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Ariesia, NM 88210 DISTRICT III Submit 2 copies to Appropriate District Office. 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

Revised 1/1/89 Form C-116

GAS - OIL RATIO TEST

	Report casing pressure in lieu of tubing pressure for any well producing through casing.	During gas-oil ratio test, each well shall be produced as a fact for exclosing the top one more than the province of the produced as a fact for the advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.	Instructions:	Downhole Comminglin Permit No. <u>DHC</u> #285	LOCKHART	LEASE NAME	Address P. U. BOX 401, MI	Operator CAMPBELL & HEDRICK	
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	00	Signature O. F. HEDRICK. Printed name and title	ertify that the best	ages- y Oi: jil &	Ϋr	WATER BBIS	Completion	- c	
		CK, JR.	I hereby certify that the above information is complete to the best of my knowledge and belief.		34.0	PROD DURING TEST TERI GRAV OIL LS OIL BIBLS		County LEA	1
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Telephone No.	915-684-4393	3R	of.	ed Total Frod: all zones	51219	CAS-OIL RATIO CU.FT/BBL			

(See Rule 301, Rule 1116 & appropriat -,



Attachment 3



Attachment 4





- Blinebry zone: Perforate interval 5670-5735 with 3 1/8 WJM, 20 holes. Run Baker RTBP and Baker Full Bore on 2 7/8" OD frac tubing. Tested Tubing to 5000 #psi and casing to 1500 #. Set RTBP at 5781 spot 750 gal 15% DS-30 acid and treat with 15000 gal gelled 91b. brine and 11,250 lbs. 20/40 sand. Max treat pressure 5600psi, min 4000psi, ave inj rate 21 BPM. Swab and flow back load. Flow at rate of 9.7BOPD 8bbl treating fluid and 151mcf gas per day. GOR 15,567.
- Tubb zone: Ran perf log and perforated 5½" csg. w/2 shots per foot, 6562', 6547', 6532', 6517', 6406', 6373', 6347', 6309', 6291', 6270', 6241', and 6212'. Acidized above perfs with 3000 gal 15% acid and sand-fractured w/35000gal gelled 9.2 brine with 45,0001b. 20/40 sd using 2 7/8" tubing. Ave inj rate 23BPM, Pressure 5350psi. Well tested 2 BOPD, GOR 10,000. Blinebry and Tubbs zones were commingled under DHC #285 in July 1979.
- Drinkard zone: Drinkard production is from open hole, 6600 to 6690'. 12/27/1951 acidize with 1000 gal 15% LT acid. Max pressure 1800psi. ave rate 1.6 BPM. 1/10/1952 acidize with 5000 gal LTXR special. Max pressure 1650psi ave rate 2.4 BPM. 12/8/1956 Frac open hole with 20000 gal refined oil and 400001b 20/40 sd. Max pressure 2600psi ave rate 25 BPM. Well flowed 80 BOPD. GOR 1861. March 1979 production 2 BOPD and 43Mcf gas per day November 6, 1978 set Baker #45A Model C Ret Bridge Plug at 6585.

Down hole commingling will protect correlative rights, permit the recovery cf additional oil from the Drinkard Oil zone and extend the economic life of the well, which will result in additional oil being recovered from the Blinebry and Tubbs zones as well.

