

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

DHC - ~~237#~~ 230

Due - 7/25/77

June 28, 1977

Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Tubb Gas
Drinkard

Attention: Mr. Joe D. Ramey
Secretary-Director

Campbell & Hedrick request administrative exception to rule 303-a to permit commingling in the well bore of production from the Tubb formation and from the Drinkard formation in the Campbell & Hedrick W.E. Lee Well No. 2, Unit B Sect. 20, T21 South, R 37 East, Lea Count, New Mexico. Said well is located 440' FNL & 1650' FEL of section. Pertinent facts and conditions are as follows:

- (a) Both zones to be commingled in the well bore are oil zones.
- (b) The total daily production from both zones before commingling does not exceed the value specified in Rule 303-C 1 (b).
- (c) Both zones are capable of flowing.
- (d) Neither zone produces more water than the combined oil limit.
- (e) The fluid from each zone is compatible with the fluid from the other.
- (f) The total value of the crude will not be reduced by commingling.
- (g) Ownership of the two zones to be commingled is common.
- (h) The commingling will not jeopardize the present or future secondary recovery of operations in either of the zones.

Specified information and attachments to support this down hole commingling as specified in Rule 303-C 2 are:

- (a) Campbell & Hedrick
P.O. Box 401
Midland, Texas 79702
- (b) W. E. Lee Well No. 2 located 440' FNL & 1650' FEL of Sect. 20, T21S, R37E, NMPM, Lea County, New Mexico.
- (c) Tubb Oil and Drinkard Oil, with approval for dual completion requested simultaneously with this application to down-hole commingle.
- (d) Current C-116 for both zones attached.
- (e) Production decline curve for Drinkard zone showing constant decline is attached. The Tubbs is a new completion and no production history is available. Tubbs interval was perforated with 33 jet shots. Acidize down 2 7/8" tubing with 2000 gal of 15% DS-30 using 8 ball sealer. Fractured perforated interval with 24,360 gal gelled brine with 800# J-2, 350# aqua seal, 15 gal LT-22, and 29,000 lbs. 20/40 sand. Maximum treating pressure 5100 psi avg. injection rate 20bpm. Swabbed and flowed back treating fluid. Production stabilized as per C-116 attached.
- (f) Bottom hole pressures: Drinkard 810 psi, Tubbs 895psi.
- (g) The oil from both zones is classified intermediate grade. Drinkard oil is 37.5 degrees API and the Tubbs is 38.2 degrees API. The fluids are compatible.

- (h) Since the API gravities are so nearly the same and both are classified as intermediate grade, it can readily be ascertained that the value of the commingling production will not be less than the sum of the values of the individual streams.
- (i) All offset operators have been notified in writing of this proposed commingling. By granting administrative approval of this application waste will not result thereby, and the correlative rights will not be violated. Should the Secretary-Director of the Commission see fit to grant this application, it is requested that production of oil and gas from this well, respectively, be allocated as follows: Drinkard- 28% & 55%, Tubbs- 72% & 45%.

Sincerely,

Oley F. Hedrick, Jr.

Oley F. Hedrick, Jr.
PARTNER

cc: Oil Conservation Commission, Box 1980, Hobbs, New Mexico 88240
 Getty Oil Co., P.O. Box 249, Hobbs, New Mexico 88240
 Sun Oil Co., P.O. Box 1861, Midland, Texas 79702
 Petro-Lewis, P.O. Box 2250, Denver, Colorado 80201
 ARCO, P.O. Box 1610, Midland, Texas 79702
 Sohio Oil Co., P.O. Box 3000, Midland, Texas 79702
 File

Encls: C-116s
 Production Decline Curve
 Lease Plat

Bottom Pf 6535 - max prod: 40 BOPD

<i>Tubbs 1380 - 72%</i>	<i>70.4 mcf - 45%</i>
<i>Drx 580 - 28%</i>	<i>86.7 mcf - 55%</i>
<i>18</i>	<i>157.1</i>

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator **CAMPBELL & HEDRICK** Pool **DRINKARD** County **LEA**

Address **P.O. Box 401, Midland, Texas 79702** TYPE OF TEST - (X) Scheduled Special

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.	
		U	S	T	R						WATER BBL.S.	GRAV. OIL	OIL BBL.S.		GAS M.C.F.
LEE	2	B	20	21	37	4/12/77F	24/64	50/325	5	24	0	37.5	5	86.68	17,336

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.

Oley J Hedrick
PARTNER
(Signature)
(Title)
6/28/77
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator **CAMPBELL & HEDRICK** Pool **TUBBS** County **LEE**

Address **P.O. Box 401, Midland, Texas 79702** TYPE OF TEST - (X) Scheduled Completion Spec of **XX**

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.	
		U	S	T	R						WATER BBLs.	GRAV. OIL BBLs.	OIL BBLs.		GAS M.C.F.
LEE	2	B	20	21	37	6/27/77	F 24/ 64	350	-	24	0	38.2	13	70.40	5,415

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.

Wiley H Hedrick
 (Signature)
PARTNER
 (Title)
 6/28/77
 (Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

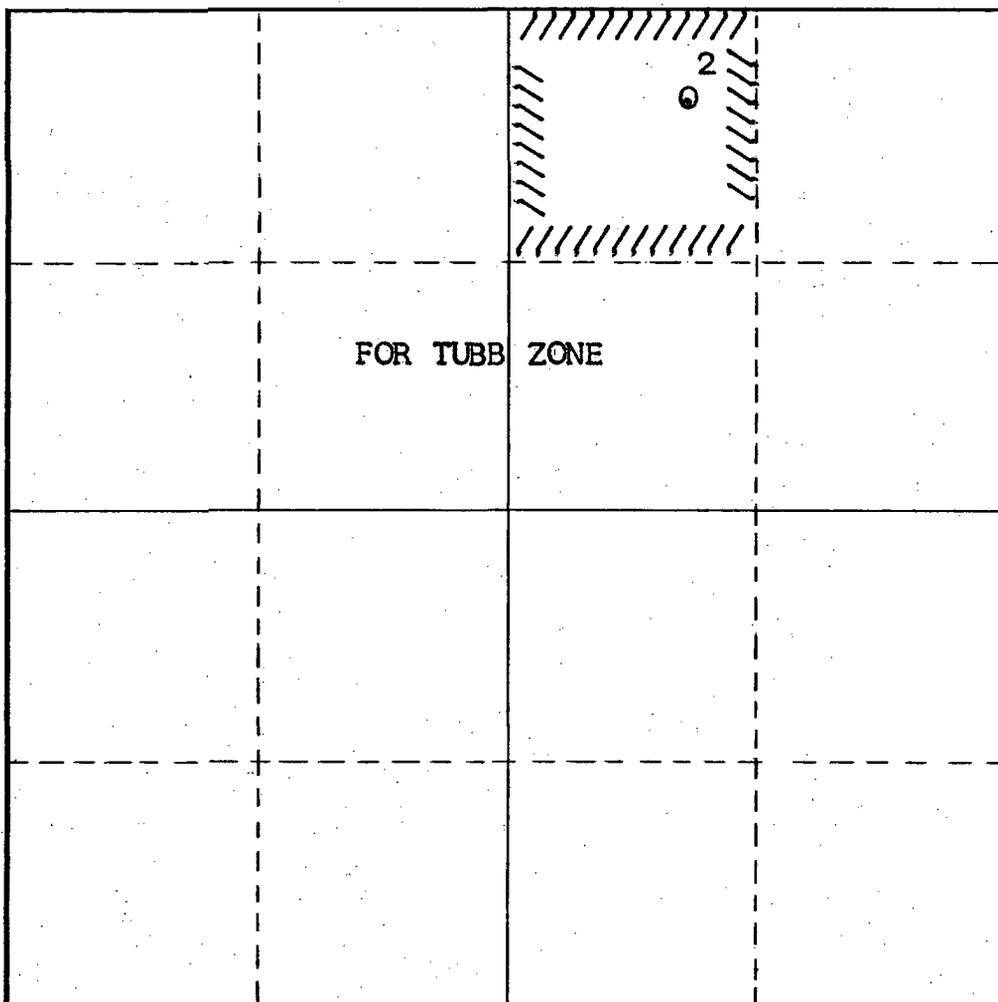
Operator CAMPBELL & HEDRICK		Lease LEE			Well No. 2
Unit Letter B	Section 20	Township 21S	Range 37E	County Lea	
Actual Footage Location of Well: 440 feet from the North line and 1650 feet from the East line of Section					
Ground Level Elev: 3484	Producing Formation TUBBS		Pool TUBBS	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Clyde J Hedrick
Name

Position
PARTNER

Company
CAMPBELL & HEDRICK

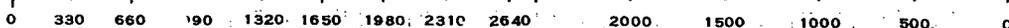
Date
6/28/77

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

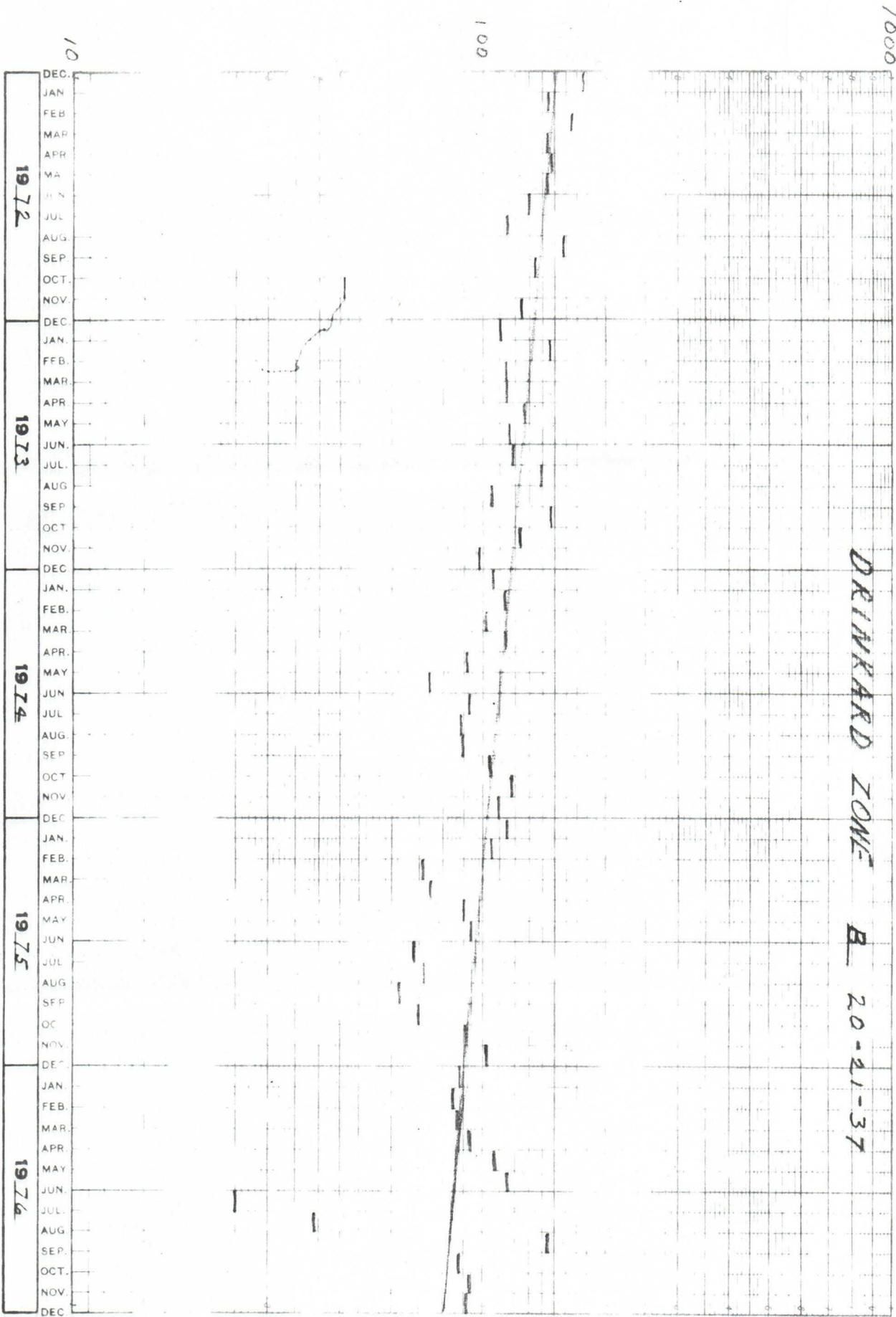
1947
Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.



Barrels Per Month



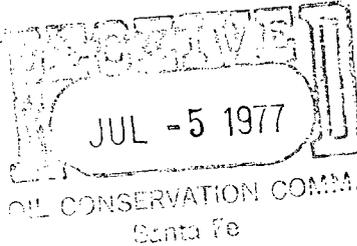
CAMPBELL & HEORIK - W.C. LEE #2

DRINKARD ZONE B 20-21-37

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE June 30, 1977



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 W. E. Lee #2-B 20-21-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Jerry S. [unclear]". The signature is written over a horizontal line.