

Release February 14, 1985

Gulf Oil Exploration and Production Company

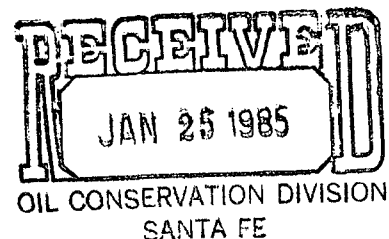
R. C. Anderson
PRODUCTION MANAGER.
HOBBS AREA

January 18, 1985

P. O. Box 670
Hobbs, NM 88240

Re: Mattern (NCT-D) #9, 10, & 15

Mr. Richard L. Stamets
Energy and Minerals Department
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501



Gentlemen:

Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of Drinkard and Tubb Oil and Gas production in the subject wells.

Please find enclosed all pertinent data regarding this application as outlined in Rule No. 303-C.

Yours very truly,


R. C. ANDERSON

DR/skc
Enclosures

cc: New Mexico Oil Conservation Division
District I Office
P. O. Box 1980
Hobbs, New Mexico 88240

Offset Operators



A DIVISION OF GULF OIL CORPORATION

H. T. Mattern "D" #9
Section 6-T22S-R37E
Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Drinkard and Tubb in the subject well.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Currently, the Tubb is pumping and the Drinkard is TA'd. After down-hole commingling existing pumping equipment will be used to produce both zones.

Should secondary recovery operation become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators are being notified of the intent to down-hole commingle subject well by copy of this application.

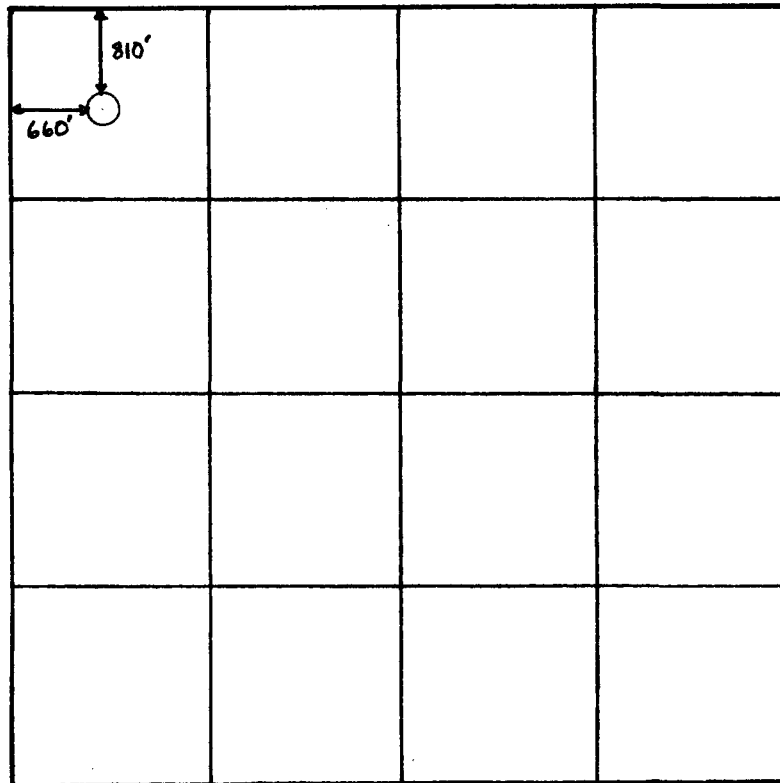
1. Operator: Gulf Oil Corporation, P. O. Box 670, Hobbs, New Mexico 88240
2. Lease, Well and Location: H. T. Mattern "D" #9, 810' FNL and 660' FWL, Section 6-T20S-R37E, Lea County, New Mexico.
3. Producing Zones: Currently producing from a single completion in the Tubb Pool.
4. Decline Curve: See attached graphs.
5. Bottom Hole Pressure: The BHP for the Tubb is 1313 psi. The BHP for the Drinkard is 966 psi.
6. Fluid Characteristics: Gulf Oil has commingled these fluids at the surface and downhole in offset wells and has encountered no incompatibility problems; therefore, no reservoir damage should result from downhole commingling subject well.
7. Well History: The well was spudded 8-28-74 and drilled to a total depth of 6800'. Five and one half inch production casing was set at 6800'. The Drinkard was perforated at 6434-6674' with 64 holes. Perfs were acidized with 4000 gallons 15% NEA and fractured with 48,000 gallons gel water with $\frac{1}{2}$ to $1\frac{1}{2}$ pounds sand per gallon.

4-23-76, well was chemical squeezed with 3000 gallons 15% NEFE HCL treated with 3 gallons Tretolite AR-25 and 165 gallons Tretolite SP-203 in the first 1000 gallons acid.

1-5-79, well was equipped to pump.

8-25-82, Drinkard was TA'd with a CIBP set at 6350'. The Tubb was perforated at 6146-6306' with 56 holes. Perfs were acidized with 3500 gallons 15% NEFE HCL and fractured with 56,000 gallons and 73,000 pounds 20/40 sand.
8. Value of Commingled Fluids: The Tubb and Drinkard Zones are being commingled in surface storage facilities on the subject lease per order CTB-254. Therefore, down-hole commingling will not effect the price.
9. Current Production: See attached State Form C-116.

Section 6



H. T. Mattern "D" #9
Section 6-T22S-R37E

Dedicated Acreage
Drinkard: 40 acres
Tubb: 40 acres

SUGGESTED ALLOCATION

Drinkard: 5 BOPD, 7 BWPB, 80 MCFGPD

Average Prod. from Decline Curves

Tubb: 9 BOPD, 10 BWPB, 50 MCFGPD

The proposed allocation of oil and gas production per zone based on the attached decline curves is as follows:

	<u>Drinkard</u>	<u>Tubb</u>
Oil	36%	64%
Gas	62%	38%

DRINKARD

H T MATTERN NCT-D 9

46 6690

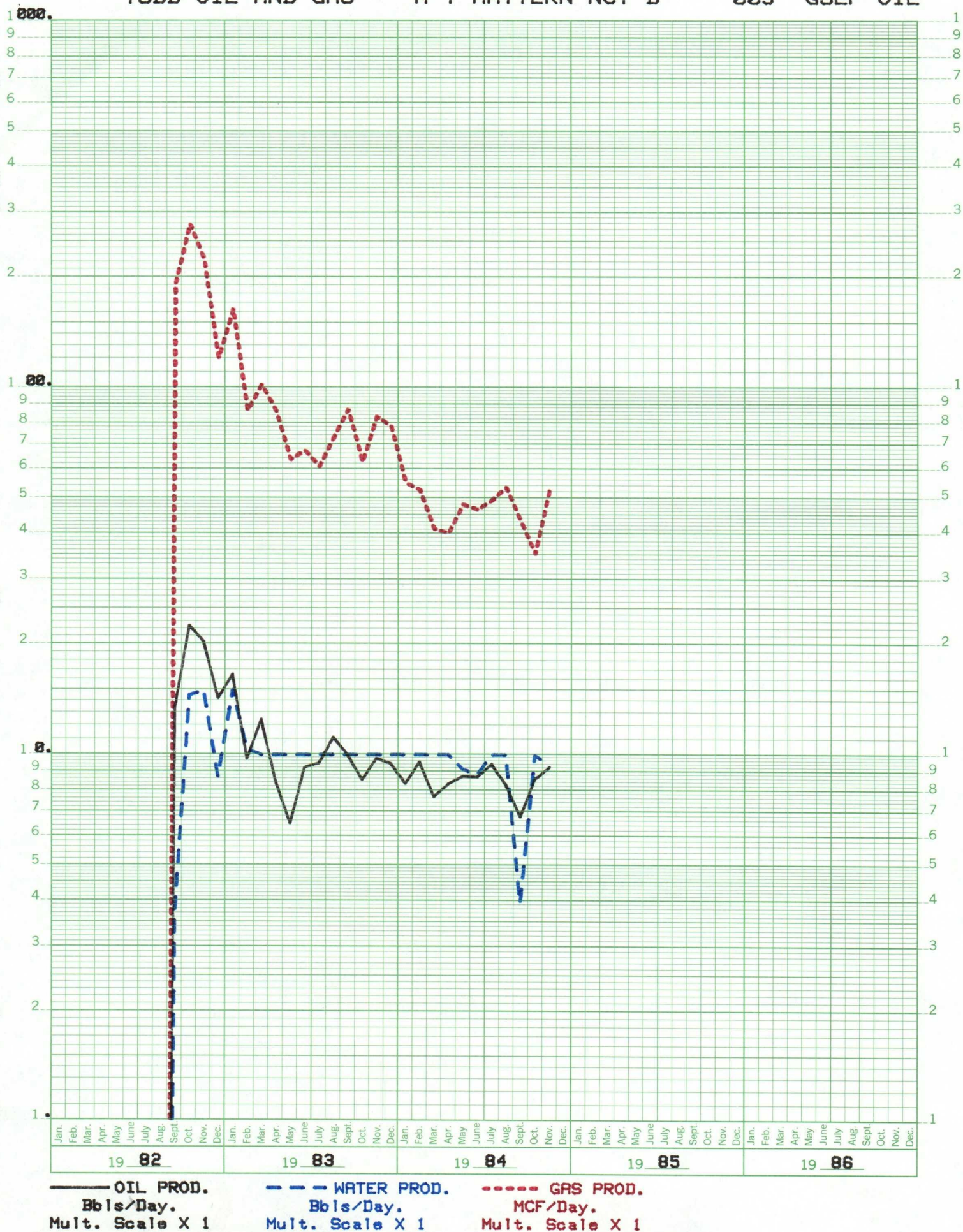
5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



— OIL PROD.
Bbls/Day.
Mult. Scale X 1

- - - WATER PROD.
Bbls/Day.
Mult. Scale X 1

----- GAS PROD.
MCF/Day.
Mult. Scale X 1



GAS-OIL RATIO TESTS

Operator		Pool		County											
Gulf Oil Corp.		Drinkard		Lea											
Address		TEST - (X)		Schedul		Completion		Spec							
Box 670, Hobbs, NM 88240		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>							
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 BSL.	GRAV. OIL	OIL BSL.		GAS M.C.F.
H.T. Mattern (NCT-D)	9		6	22	37	8-18-82					10		3	71	23,667
	10		6	22	37	7-7-82					10		5	128	25,600
	15		7	22	37	11-3-82					10		10	107	10,700

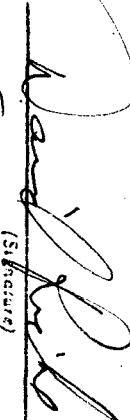
No well will be assigned an allowable greater than the amount of oil produced on the effield test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable 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. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Keep original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 331 and appropriate pool rules.

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


Engineer
(Signature)
10-23-84
(Date)

GAS-OIL RATIO TESTS

Operator		Pool		County															
Gulf Oil Corp		Tubb Oil and Gas		Lea															
Address		TEST - (X)		Scheduled <input checked="" type="checkbox"/>		Completion <input type="checkbox"/>		Special <input type="checkbox"/>											
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	
H.T. Matern (NCT-D)		9		6		22		37		12/5/84									
		10		6		22		37		12/6/84									
		15		7		22		37		12/10/84									

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 Division.

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 Division 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.

David Rich
Engineer
1-18-85
(Date)

OFFSET OPERATORS

H. T. MATTERN (NCT-D) LEASE

Continental Oil Co.
P. O. Box 460
Hobbs, New Mexico 88240

Getty Oil Co.
P. O. Box 249
Hobbs, New Mexico 88240

Yarborough Oil Co.
P. O. Box 1001
Eunice, New Mexico 88231

Petro Lewis
P. O. Box 509
Levelland, Texas 79336

ARCO Oil & Gas
P. O. Box 1610
Midland, Texas 79701

Amerada Hess Corporation
P. O. Drawer 817
Seminole, Texas 79360

Sun Oil Co.
P. O. Box 1861
Midland, Texas 79701

Sohio Petroleum Co.
P. O. Box 3000
Midland, Texas 79701

Shell Oil Co.
P. O. Box 1509
Midland, Texas 79701

El Paso Natural Gas Co.
600 Building of the Southwest
Midland, Texas 79701

Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER
HOBBBS AREA

February 14, 1985

P. O. Box 670
Hobbs, NM 88240

Re: Mattern (NCT-D) Lease Map

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

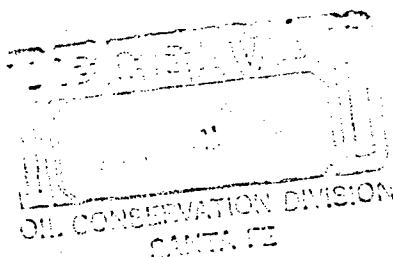
Please find enclosed the Mattern (NCT-D) lease map requested as per telephone conversation with David Ricks of this office.

Yours very truly,



R. C. ANDERSON

DR/skc
Enclosure



W N Turner
P O Box 100
Cambridge, MA 02142

[illegible][illegible][illegible][illegible]

17572
-20-38
✓
Annot.

00-5

06-2

B.F.P.O. Service



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

January 28, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____ X _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX _____

Gentlemen:

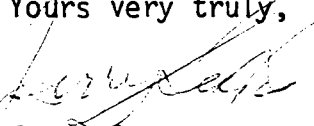
I have examined the application for the:

Gulf Oil Corp.	Nattern (NCT-D) #9, #10, #15	6 & 7-22-37
Operator	Lease & Well No.	Unit S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,


Jerry Sexton
Supervisor, District 1

/mc