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Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWEEL DISTRICT

Juan Chacin
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 1938
Roswell, New Mexico 88201

January 4, 1971

DHC - 76

Due Jan 28

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Re: Application for Downhole Commingling
J. A. Stuart Well No. 8
Justis Blinebry and Justis Tubb-Drinkard
Pools, Lea County, New Mexico

Gentlemen:

Gulf Oil Corporation respectfully requests administrative approval for downhole commingling in its J. A. Stuart Well No. 8 located 330 feet FNL and 990 feet FWL of Section 11, T-25-S, R-37-E, Lea County, New Mexico.

This well qualifies for administrative approval in accordance with Statewide Rule 303, Paragraph C, and in support thereof, the following facts are submitted:

- (1) The attached plat shows the J. A. Stuart Lease outlined in red and is described as the NW/4 NW/4 Section 11, E/2 NW/4, NE/4 Section 10, all in T-25-S, R-37-E, Lea County, New Mexico. Well No. 8 is circled in red on the plat.
- (2) The well was dually completed in the Justis Blinebry and Justis Tubb-Drinkard Pools approved by Commission Order No. MC-1410 dated November 8, 1963. The Tubb-Drinkard zone was plugged and abandoned on June 20, 1968. The Blinebry zone production was continued until September, 1970 when mechanical difficulties caused the well to cease production. Applicant proposes to re-enter the well to repair the mechanical trouble in the Justis Blinebry zone and at the same time to drill out and recomplete also in the Tubb-Drinkard zone if downhole commingling is approved by the Commission.
- (3) Attached is a copy of Commission Form C-116 showing productivity test for the J. A. Stuart Well No. 8 in the Justis Blinebry Pool. This test was taken on April 3, 1970 and since the well is not producing due to mechanical difficulties, a current (within 30 days) test cannot be taken.



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The average daily production in August, 1970 was 4 barrels of oil and 3 barrels of water from the Blinebry zone. No test is possible for the Tubb-Drinkard zone since it is plugged and abandoned. The average daily production in March, 1968 before the well was plugged and abandoned was 9 barrels of oil and 3 barrels of water from the Tubb-Drinkard zone.

- (4) Neither zone would produce more water than the combined oil limit as determined in Rule 303, Paragraph C(b).
- (5) The fluids have been commingled on the surface for several years and no problems have been encountered to indicate incompatibility; therefore, there will be no damage to the reservoir.
- (6) The commingling on the surface resulted in no reduction of oil value; therefore, downhole commingling will not result in a lesser value for the crude.
- (7) The ownership of the two zones to be commingled is common.
- (8) Attached is a production decline curve showing the monthly production of oil for each zone since 1966.
- (9) It is difficult to arrive at a reasonable estimate of bottom hole pressure in view of the well condition at this time; however, we believe that neither zone would have a BHP above 200 psig. The production from both zones was pumped prior to abandoning the Tubb-Drinkard zone and the downhole commingled production would also be pumped.
- (10) The commingling in the well bore would not jeopardize the efficiency of future secondary recovery operations in either of the zones to be commingled.
- (11) Copies of this application have been furnished to all offset operators.

Respectfully submitted,

GULF OIL CORPORATION


M. I. Taylor

Attachments
JHH:sz

cc: New Mexico Oil Conservation Commission
Post Office Box 1980
Hobbs, New Mexico 88240

Texaco Inc.
Post Office Box 728
Hobbs, New Mexico 88240

Union Texas Petroleum
1300 Wilco Building
Midland, Texas 79701

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County		Completion		Special							
Gulf Oil Corporation		J. A. Stunt		J. A. Stunt		J. A. Stunt		J. A. Stunt							
Address		P. O. Box 230, Kermit, Texas 79745		TYPE OF TEST - (X)		SCHEDULED		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./BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
J. A. Stunt	3	D	11	258	372	4-3-70	--	25	6	24	4	37.2	4	6	1,500
Vinson Ramsey MCT-B	1	M	36	253	372	3-30-70	--	30	4	24	9	37.2	6	46	7,667
	6	K	36	253	372	2-13-70	--	30	21	24	26	37.2	27	34	1,259
	7	J	36	253	372	3-7-70	--	30	35	24	0	37.2	29	21	724
	8	I	36	253	372	3-14-70	--	30	30	24	0	37.2	33	50	1,515
	9	P	36	253	372	3-2-70	--	30	6	24	0	37.2	6	42	7,000
	10	O	36	253	372	2-15-70	--	30	23	24	0	37.2	17	25	1,472
	11	N	36	253	372	2-9-70	--	30	4	24	46	37.2	3	37	4,625
	12	L	36	253	372	2-17-70	--	30	23	24	15	37.2	26	30	1,500
W. A. Ramsey MCT-C	5	D	36	243	372		Well temporarily abandoned.								

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.

ORIGINAL SIGNED BY
J. D. SUBLETT

(Signature) J.D. Sublett
Area Engineer
May 3, 1970
(Title)
(Date)

AM 9 59

