

SKELLY OIL COMPANY

July 10, 1974

DOMESTIC EXPL. & PROD. DEPARTMENT
MIDLAND F & P. DISTRICT

F. L. FRANZ, DISTRICT PRODUCTION MANAGER
M. J. EKMAN, DISTRICT ENGINEER

F. J. HENSLEY, LEAD RESERVOIR ENGINEER F. J. PETRO, LEAD PRODUCTION ENGINEER

ADDRESS REPLY TO: P. O. BOX 1351 MIDLAND, TEXAS 79701

File: Hobbs "A" Wells No. 6 & 7

Lease No. 54860

Justis Blinebry and Justis Tubb Drinkard

Lea County, New Mexico

Re: Application for Administrative Approval

For Exception to Rule 303-A

Oil Conservation Commission (2)

State of New Mexico P. O. Box 2088

Santa Fe, New Mexico 87501

Oil Conservation Commission (1)

State of New Mexico P. O. Box 1980

Hobbs, New Mexico 88240

Attention: Secretary Director Attention: Mr. Joe D. Ramey

Gentlemen:

Skelly Oil Company respectively requests administrative approval for exception to Rule 303-A of the Commission rules and regulations for the purpose of down-hole commingling of the Justis Drincbry and Justis Tubb Drinkard zones in the Hobbs "A" Wells No. 6 & 7. The Hobbs "A" No. 6 is located 1650' FNL & 330' FWL of Section 30, T-258, R-38E, NMFM. The Hobbs "A" No. 7 is located 467' FNL & 467' FWL of Section 30, T-258, R-38E, NMPM, Lea County, New Mexico.

The Commission authorized the dual completion of Hobbs "A" No. 6 & 7 under Orders No. DC-779 and DC-825, respectively.

Offset operators have been notified by copy of this application. All necessary exhibits and required information for this application are straceed.

Very truly yours,

Leland Frans

DHC/clw Attach.

cc: Offset Operators

OFFSET OPERATORS HOBBS "A" LEASE

Union Texas Petroleum 1300 Wilco Bldg. Midland, Texas 79701

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

Atlantic Richfield Company P. O. Box 1710 Hobbs, New Mexico 88240

Amoco Production Company P. O. Box 68 Hobbs, New Mexico 88240

Requirements for Down-hole Commingling Application

- 1. Current 24 hour productivity tests for both wells on Commission Form C-116 are attached. The Justis Tubb Drinkard zones in both wells are currently temporary abandoned.
- 2. Production decline curves and a completion history for each well are attached. It is recommended the production for each zone from each well be allocated as follows:

Hobbs "A" Well No. 6

Justis Blinebry: Oil 70%; Gas 50% Justis Tubb Drinkard: Oil 30% Gas 50%

Hobbs "A" Well No. 7

Justis Blinebry: Oil 46%; Gas 50%

Justis Tubb Drinkard: Oil 54%; Gas 50%

- 3. The bottom hole pressure for the Justis Blinebry and Justis Tubb Drinkard zones are estimated to be 800 psi (-2300') and 1120 psi (-2800') respectively.
- 4. Results of Water Analyses for both zones are attached.
- 5. The gravity of the individual oil samples from the Justis Blinebry and Justis Tubb Drinkard zones are both 37° API, therefore, the value of the commingled production should increase as a result of resuming production from the Tubb Drinkard zone in both wells.

NEW MEXICO OIL CONSERVATION COMMISSION GAS OIL RATIO TESTS

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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

No well will be assigned an allowable greater than the amount of oil produced on the official test.

Mad 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.

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

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(Signature) Dennis H.

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July 10, 1974

NEW MEXICO OIL CONSERVATION COMMISSION GAS OIL RATIO TESTS

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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.

Engineering Technician

July 10, 1974

(Date)

Completion History Hobbs "A" Well No. 6

The subject well was drilled and completed Aug. 15, 1959, as a dual oil producer in the Justis Blinebry and Justis Tubb Drinkard zones. The Blinebry zone was potentialed flowing 1129 BOPD, 0 BWPD, 828 MCFPD after treatment with 500 gallons of acid (15%) and fractured with 30,000 gallons lease oil and 24,600# sand. The producing interval treated was 5373-5547'.

Jan. 9, 1969, a D.R. Plug was set in packer (4 5760) and additional Blinebry perforations were opened from 5099-5329 and this interval fractured with 80,000 gallons gelled brine and 120,000# sand in four (4) stages using temperature survey.

The Justis Tubb Drinkard zone in the Hobbs "A" No. 6 was potentialed in Aug., 1959, for 226 BOPD, 0 BWPD, 92 MCFPD, after treatment with 18,000 gallons of lease oil and 14,000# sand. The producing interval fractured was 5837-5879". Request for authority to shut down one zone of multiple completed well filed 1-24-69, and the lower zone (Justis Tubb Drinkard) was temporarily abandoned.

Completion History Hobbs "A" Well No. 7

The subject well was drilled and completed Sept. 26, 1959, as a dual oil producer in the Justis Blinebry and Justis Tubb Drinkard zones. The Blinebry zone was potentialed at 1104~BOPD, 0~BWPD, 907~MCFPD after treatment with 500 gallons mud acid and fractured with 30,000~gallons lease crude and 30,000~gallons sand. The producing interval treated was 5340-5529.

Nov. 26, 1968, additional Blinebry perforations were added 5117-5309'. An "EZ" Drill BP @ 5674 and interval fractured with 22,000 gallons gelled water and 30,000% sand.

The Justis Tubb Drinkard zone in the Hobbs "A" No. 7 was potentialed for 523 BOPD, 0 BWPD, 345 MCFPD after treatment with 500 gallons mud acid, and fractured with 20,000 gallons lease crude and 10,000# sand. Request for authority to shut down one zone of multiple completed well filed 11-20-68, and the lower zone (Justis Tubb Drinkard) was temporarily abandoned.

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RESULT OF WATER ANALYSES

406 W. ILLINOIS MIDLAND, TEXAS 79701

	1	ABORATORY NO	67482	PHONE 683-4521
Mr. Dennis Cowan			6-17.	-74
P. O. Box 1351 Midland, 7	Cexas BI	ESULTS REPORTE	6-17-	.74
COMPANY Skelly Oil Company FIELD OR POOL	LEASE .	Ho obs	"A"	
FIELD OR POOL	Justice (Blinbry)		
SECTION BLOCK SURVEY	COUNTY	Lea	TATE NE	w Mexico
SOURCE OF SAMPLE AND DATE TAKEN:				
NO. 1 Produced (Tubb) water -	- taken from Sta	ace "L". 5-1	4-74	
Produced (Blinebry) wat	er - taken from	Hobbs "A"	6-14-74	 -
NO. 3				· · · · · · · · · · · · · · · · · · ·
NO. 4				
REMARKS:				
CHEMICA	L AND PHYSICAL F	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1005	1.0789		
pH When Sampfed				
pH When Received	7.9	7.85		
Bicarbonate as HCO3	227	549	ļ <u></u>	
Supersaturation as CaCO3		<u> </u>		
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Calcrum as Ca	24,700	12,600		
Magnesium as Mg	5,800	3,720	ļ	ļ
Sodium and/or Potassium	1,871 51,265	802		 -
Suifate as SO ₄	1,708	41,816 2,806	 	
Chloride as C	95,165	71,019		
Iron as Fe	26.0	7.0		ļ
Barium as Ba				
Turbidity, Electric				
Color as Pt				<u> </u>
Total Solids, Calculated	157,036	120,712		
Temperature : F				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0	1.0		
Resistivity, ohms/m at 77° F.	0,068	0.080		
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Form No. 3 cc: Mr. Dale Crockett, Hobbs

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