

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

BRUCE KING GOVERNOR

-/ed

November 3, 1993

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (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	<u>V</u>	OHC-953	
Gentlemen:			
I have examined the application Stephens & Johnson Operating	•	#7-G	21-21-37
	ease & Well No. Unit		21 21 31
and my recommendations are as	follows:		
Yours very truly,	•		
Jerry Sexton Supervisor, District l			

S. _PHENS & JOHNSON OPERATING).

811 Sixth Street, Suite 300

Post Office Box 2249

WICHITA FALLS, TEXAS 76307-2249

October 29, 1993

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87504

> Re: Application for Exception to Statewide Rule No. 303-A to Downhole Commingle Production from the Tubb and Drinkard Pools of the Weatherly Well No. 7, Lea County, New Mexico

Gentlemen:

We respectfully request administrative approval, subject to the twenty (20) day waiting period, to downhole commingle production from the Tubb and Drinkard Pools in Stephens & Johnson's Weatherly well No. 7 located in Unit G, 1980 feet FNL and 1980 feet FEL of Section 21, TWP 21-S, Rge 37-E, Lea County, New Mexico. The following is pertinent data available on the well.

- Well No. 7 was TA'd in the Drinkard zone (6374'-6584') when the Tubb zone (6144'-6290') was perforated August 24, 1993. The Drinkard zone is classified as a gas well and would not flow due to a low bottomhole pressure of 190 psi. Also, the flow rate from the Drinkard would not justify artificial lift for the well. The Tubb zone will be completed as a gas well and will be artificially lifted by a plunger lift system. The bottomhole pressure of the Tubb zone is 250 psi. The initial potential of the Tubb zone will be .25 barrels oil and 90 MCF per day.
- 2) Both zones will be classified as gas wells.
- 3) Estimated bottomhole pressure for each zone is as follows:

Tubb: 250 psi Drinkard: 190 psi

4) Estimated producing rates for both zones is as follows:

Tubb: .25 BOPD and 90 MCFPD Drinkard: .25 BOPD and 25 MCFPD

- 5) Since the crude oil gravity for both zones is 37 degrees, there will not be any incompatibility in fluids in the wellbore.
- 6) Formula for allocation of production is as follows:

Tubb: 50% of oil, 78% of gas Drinkard: 50% of oil, 22% of gas

Total Production (Both Zones) - .5 BOPD & 115 MCFPD

Total Tubb Zone = .5 BOPD x 50% + 115 MCFPD x 70% = .25 BOPD + 89.7 MCFPD

Total Drinkard Zone = .5 BOPD x 50% + 115 MCFPD x 22% = .25 BOPD + 25.3 MCFPD

Totals		0	<u>i 1</u>	<u>Gas</u>	
Drinl	Tubb kard		BOPD BOPD		MCFPD MCFPD
		.50	BOPD	$\overline{115.0}$	MCFPD

- 6) Forms C-116 attached.
- 7) Offset operators were sent a copy of this request.
- 8) A plat is attached showing dedicated acreage to the well.
- 9) Royalty owners are the same in both zones.

This well was producing from the Drinkard formation but did not have enough bottomhole pressure and gas volume to justify a plunger lift system. By combining the Tubb zone with the Drinkard zone, a plunger lift system will become operable; therefore, we are requesting the authority to downhole commingle the Tubb and Drinkard zones in this well.

Your consideration of this request will be appreciated.

Respectfully yours,

STEPHENS & JOHNSON OPERATING CO.

Bob Gilmore

Submit 2 copies to Appropriate
District Office.
DISTRICTI
P.O. Box 1980, Hobbs, NM 88240
DISTRICTII
P.O. Drawer DD, Artesia, NM 88210
DISTRICTIII

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

		WEATHERLY	LEASE NAME		Adress P O BOX 2249, WICHITA FALLS TX 76307-2249	STEPHENS & JOHNSON OPERATING CO.	perator
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		G	c		763		
		21	S	LOCATION	07-2		
		218	-	NO.	249		
		37E	סב			DR	
Tubbs:	Drinkard:	10-1-93	TEST	DATE OF		DRINKARD/TUBBS	Pool
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			SIZE	CHOKE	⊛¥ 		
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.25	.25	.50	BBLS	NG TEST	8		
90	25	115	M.C.F.	GAS	Special		
360,000	100,000	230,000	CU.FT/BBL	GAS - OIL			

Instructions:

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.

Specific gravity base will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

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

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(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

Bob Gilmore, Petroleum Engineer

Printed name and title

817/723-2166

Telephone No.

Date

10/29/93

Printito Appropriate
Printito Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico E y, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator							Lear	ie					Well No.
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