



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

BRUCE KING
GOVERNOR

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

DAC-953
12/1/93

RE: Proposed:

MC	_____
DHC	<u> X </u> _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Stephens & Johnson Operating Co.	Weatherly	#7-G	21-21-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

Yours very truly,

Jerry Sexton
Supervisor, District 1

- /ed

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.

- 1) 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	<u>Oil</u>	<u>Gas</u>
Tubb	.25 BOPD	89.7 MCFPD
Drinkard	.25 BOPD	25.3 MCFPD
	.50 BOPD	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

BG/dk

Form C-116
Revised 1/1/89

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

GAS - OIL RATIO TEST

Operator						Pool							County							
STEPHENS & JOHNSON OPERATING CO.									DRINKARD/TUBBS										LFA	
Address P O BOX 2249, WICHITA FALLS TX 76307-2249									TYPE OF TEST - (X)		Scheduled	Completion		Special						
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	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.					
WEATHERLY	7	G	21	21S	37E	10-1-93	F		70		24	0	37	.50	115	230,000				
						Drinkard:						. 25</td <td>25</td> <td>100,000</td>	25	100,000						
						Tubbs:					. 25</td <td>90</td> <td>360,000</td>	90	360,000							

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

(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

10/29/93

817/723-2166

Date _____

Telephone No. _____

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, 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 I
P.O. Box 1980, Hobbs, NM 88240

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator S & J Operating Company			Lease Weatherly		Well No. 7
Unit Letter 6G	Section 21	Township 21S	Range 37E	County NMPM	Lea
Actual Footage Location of Well: 1980 feet from the north line and 1980 feet from the east line					
Ground level Elev. 3442 DF	Producing Formation Tubb		Pool Drinkard Tubb	Dedicated Acreage: 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 interest 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 interest, has been approved by the Division.

OPERATOR CERTIFICATION

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

Signature
Bob Gilmore
Printed Name
Bob Gilmore
Position
Petroleum Engineer
Company
S & J Operating Co.
Date
8-23-93

SURVEYOR CERTIFICATION

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.

Date Surveyed
Signature & Seal of
Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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