

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO EA4ZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

OIL CONSERVATION DIVISION BOX 2088
SANTA FE, NEW MEXICO 87501
DATE Sept. 24, 1995
RE: Proposed MC
Proposed DHC Proposed NSL
Proposed SWD
Proposed WFX Proposed PMX
Troposed TAX
Gentlemen:
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I have examined the application dated Sept. 6, 1985
for the Sennew OilCo. Florence 6 M-73-302-9W
Operator Lease and Well No. Unit, S-T-R
and my recommendations are as follows:
Dorbet for Learning, does not qualify for administrative
with

Yours truly,

Tenneco Oil **Exploration and Production**

A Tenneco Company

6162 South Willow Drive PO. Box 3249 Englewood, Colorado 80155 (303) 740-4800



Western Rocky Mountain Division

July 31, 1985

SEP 06 1985 OIL CON. DIV.

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Gilbert Quintana

RE: Florance 6 990' FSL, 990' FWL Sec. 23, T30N, R9W San Juan County, New Mexico

Gentlemen:

We have enclosed all necessary data for administrative approval to commingle production in the referenced well.

Questions concerning this request can be directed to Mr. Frank Weiss (303) 740-4836.

Very truly yours,

TENNECO OIL COMPANY

PARga Paul Doyle

Division Production Engineer

SMc:st

Enclosures

cc: Mr. Jerry Hertzler Mr. Frank Weiss

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Tenneco Oil Exploration and Production

A Tenneco Company

6162 South Willow Drive P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800



Western Rocky Mountain Division

August 1, 1985

SEP 06 1885

OIL CON, DAY,
DIST. 3

El Paso Natural Gas Post Office Box 4990 Farmington, NM 87499

Attention: Don Reed

RE: Florance 6
990' FSL, 990' FWL
Sec. 23, T30N, R9W
San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501 Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

TENNECO OIL COMPANY

Paul Doyle Division Production Engineer

SMc:st	

•	WAIVER
We hereby waiv commingle prod	e any objections to Tenneco Oil Company's application to uction as set forth above.
Name:	Title:
Date:	·

Tenneco Oil Exploration and Production

A Tenneco Company

6162 South Willow Drive P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800



Western Rocky Mountain Division

August 1, 1985

Amoco Production Company 1670 Broadway Denver, CO 80202

Attention: R. C. Burke, Jr.

RE: Florance 6 990' FSL, 990' FWL Sec. 23, T30N, R9W

San Juan County, New Mexico

Gentlemen:

Tenneco has applied for administrative approval to commingle production from the Mesaverde and Dakota zones in the above referenced well. If you as an offset operator have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

> New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501 Attention: Gilbert Quintana

We would appreciate your returning one copy to the undersigned.

Very truly yours,

Paul Doyle

TENNECO OIL COMPANY

Division Production Engineer

SMc:st WAIVER We hereby waive any objections to Tenneco Oil Company's application to commingle production as set forth above.

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Date:		

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Tenneco Oil Exploration and Production

A Tenneco Company

6162 South Willow Drive PO. Box 3249 Englewood, Colorado 80155 (303) 740-4800



Western Rocky Mountain Division

The Florance 6 was completed as a Mesaverde-Dakota dual in June of 1965 with 4-1/2" casing and one string of 2-3/8" tubing. The Dakota produces up the tubing and the Mesaverde flows up the casing-tubing annulus. Because of the large flow area in the annulus, the Mesaverde is experiencing liquid loading problems which are restricting the production from that zone.

Enclosed are decline curves for both the Mesaverde and Dakota zones.

The bottom—hole pressure of the Dakota was measured with a pressure bomb and found to be 679 psig at 7100' after 8 days of shut in. This Dakota pressure corrected to a datum of 5000' was 651 psig. A pressure bomb could not be run for the Mesaverde since this zone produces up the annulus.

A dead weight surface pressure of 378 psig was recorded for the Mesaverde after 8 days of shut in. The fluid level was found at 4526'. The bottom-hole pressure for the Mesaverde was then calculated to be 640 psig at a datum of 5000'. The requirement that the lower pressured zone have a pressure that is greater than 50% of the pressure of the higher pressured zone corrected to a common datum is; therefore, satisfied.

Compatibility tests were conducted using Dakota formation water from the Florance 6 and Mesaverde water from the offset Florance 7A. The testing indicates that no scale or precipitate problems should result from the commingling of produced waters from these formations. In addition, the salinities of the two zones are similar enough that no formation damage should occur in either zone.

The intent of commingling these two zones is to increase the total production from the well. This will be accomplished by increasing the flow velocity by flowing both zones up the tubing. The cross-sectional area of the tubing is 3.13 square inches, as opposed to 11.27 square inches for the tubing and annulus. Even if no production increase were realized, a 3.6 fold increase in average flow velocity would result from commingling. This velocity increase will enable the well to unload produced fluids and will result in increased gas production from each zone. This greater production rate will increase the velocity in the tubing, yielding even more liquid lifting capacity.

Based upon the decline curves and reserve estimates for these zones, I recommend that the production be allocated on a strict percentage basis with 81% assigned to the Mesaverde and 19% assigned to the Dakota.

If you need any additional information, feel free to call me at (303) 740-4836.

rank G. Weiss III

Senior Production Engineer - WRMD

0359

MESAVERDE

FLORANCE 6 MV/DK

MESAVERDE DAKOTA COMMINGLING

2-3/8X4-1/2 ANNULUS

DATE: 7/10/85 FILE: FILE102 PROJ: 0

GAS WELL PRESSURES

MEASURED DEPTH, FEET TRUE VERTICAL DEPTH, FE		FLOW STREAM ID, INCHES FLOW STREAM OD, INCHES	2.375 6.456
GAS GRAVITY BOTTOM HOLE TEMPERATURE		CRITICAL TEMPERATURE CRITICAL PRESSURE	388. 66 6.
NITROGEN, MOL % CARBON DIOXIDE, MOL % HYDROGEN SULFIDE, MOL 9	0. 0. 6 0.	CONDENSATE GRAVITY, DEG API WATER GRAVITY PIPE ROUGHNESS, INCHES	50.0 1.047 0.00060
GAS RATE WH TEMP WE M/D DEG F- PSI		LE P/Z CONDENSATE WATE	
0. 60.		4526 FEET (MEAS) FLUID 5000 FEET (MEAS) (WT	

0350

B & R SERVICE, INC. P. O. Box 1048

P. O. Box 1048 Farmington, New Mexico 87401 (505) 325-2393

CompanyTENNECO OIL COMPANY CountySAN JUAN Shut-In Casing PressurePACKER Max. Temp	State Zero Point Tbg. Depth	NEW MEXICO		Well #6 Date 5-15-85 Tbg. Pressure 580 Casing Perf
<u>DE PTH</u>		PSIG	GRADIENT	
0		580		
1000		595	.015	
2000		609	.014	
3000		625	.016	
4000		639	.014	

MESAVERDE

651

663

677

679

5000

6000

7000

7100

8 DAY SHUT IN PRESSURE TEST

DEAD WEIGHT SURFACE PRESSURE TEST

.012

.012

.014

.020

378 PSIG

ANNULUS FLUID LEVEL

4526 FT

SOUTHERN UNION GATHERING COMPANY REPORT OF BTU TEST RESULTS

TO: TENNECO OIL CO (846)

FLORANCE 6 REF:

4065 (70) NORTHWEST NEW MEXICO

6/28/83 DATE OF THIS TEST: DATE OF LAST TEST: 6/06/82 12

TEST FREQUENCY:

SPECIFIC GRAVITY: 0.6952 BTU/CF @ 14.73/60F/DRY: 1209.7 RESULTS: SPECIFIC GRAVITY:

	MOL %	G. P. M.
CARBON DIOXIDE NITROGEN METHANE ETHANE PROPANE ISOBUTANE N-BUTANE ISOPENTANE N-PENTANE HEXANE +	0. 895 0. 117 84. 320 8. 090 3. 548 0. 672 0. 942 0. 340 0. 260 0. 843	0.0000 0.0000 0.0000 2.1650 0.9770 0.2190 0.2970 0.1240 0.0940 0.3710
TOTAL	100. 027	4. 2470

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SII SMITH ENERGY SERVICES

Divison of Smith International, Inc.

2198 East Bloomfield Highway Farmington, New Mexico 87401 Phone (505) 327-7281

June 5, 1985

Tenneco Oil Co.
Western Rocky Mtn. Div.
P.O. Box 3249
Englewood, Co. 80155
ATTN: Frank Weiss

Dear Mr. Weiss:

Water analysis and compatibility studies were conducted using the following formation water samples:

1. Dawson A#1 Mesa Verde formation water
Dawson A#1 Dakota formation water
(Mesa Verde sample may show scaling tendency, but no incompatibility was seen between the two samples.)

Mesa Verde formation water 2. Florance #19A Dakota formation water Florance #19 Mesa Verde formation water 3. Riddle A #1 Dakota formation water Riddle A #1 Mesa Verde formation water 4. Moore #lA Dakota formation water Moore #6E Mesa Verde formation water 5. State Com #1A Dakota formation water State Com #1 Mesa Verde formation water 6. Florance #31 Dakota formation water Florance #31 Mesa Verde formation water 7. Florance #7A Dakota formation water Florance #6 Mesa Verde formation water 8. Florance #36 Dakota formation water Florance #36

A small amount of reddish orange precipitate formed but this is to be expected when oxygen is admitted to a water sample containing even a trace of iron.

Tenneco, water analysis con't June 5, 1985

This precipitate should pose no problems in a closed system. No solid precipitates of any other types were noted and these samples should be considered to be compatible for mixing as per the listing above.

Sincerely,

SMITH ENERGY SERVICES

District Engineer

LLD/kr

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Bulling and Transfer erin Luciania

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MV-Recomp	_ IPBOP	D	07 MCFD _	8	₩D <u></u>	_ Hours		SIWHF
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		···-	 :					
							stage	·
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Anchor? Yes Pump Type	Flowing	gas	vep) C II				
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C-116 Revised 1-1-65

incressed allowables when authorized by the Commission. Gas volumes must be reported in MCF measured at a pressure base of 15,025 pala and a temperature of 60° F. Specific gravity base will be 0,60. Report casing pressure im 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.	No well will be assigned an allowable greater than the amount of oil produced on the official test. 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.	Florance	LEASE NAME	00%	32	Operator Tenneco 0il Company	
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Visor	I hereby certify that the above information is true and complete to the best of my knowledge and belief.		CU.FT/BBL	RATIO			

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

30 5	. 55				Address	Operator
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.	No well will be assigned an ellowable 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 psis and a temperature of 60° F. Specific gravity base will be 0.60°.		Florance	LEASE NAME	P.O. Box 3249, Englewood,	Tenneco Oil Company
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Supervisor	at the abov		50.90	GAS M.C.F.	Special G	
or	I hereby certify that the above information is true and complete to the best of my know ledge and belief.		0	RATIO CU.FT/BBI	GAS - OIL	

FLORANCE 6

DETERMINATION OF ALLOCATION PERCENTAGES

The decline rates and reserve estimate for the Mesaverde and Dakota are indicated below:

	DECLINE PERCENTAGE	REMAINING RESERVES
MESAVERDE	10%	754 MMCF
DAKOTA	8%	174 MMCF

ELOBARCE 6 030NOO9W23M DAKOTA

AS PHODUCITON INCERT

FLORHNOF 6

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