

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RID BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 OIL CONSERVATION DIVISION BOX 2088 SANTA FE, NEW MEXICO 87501 DATE 24 935 Euse 5765 Proposed MC RE: Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX Gentlemen: I have examined the application dated for the ennew -77-302-9W No Unit. S-T-R and my recommendations are as follows: loe. inproved

Yours truly,

A Tenneco Company

Western Rocky Mountain Division

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

CCLE \$ 765

P. A.

dia dia dia

July 31, 1985

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

PAggy

Paul Doyle Division Production Engineer

SMc:st

Enclosures

cc: Mr. Jerry Hertzler Mr. Frank Weiss

A Tenneco Company

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



Western Rocky Mountain Division

August 1, 1985

Care 8765

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 Dovle Division Production Engineer

SMc:st

WAIVER

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

Name: ______ Title: _____

Date: _____

A Tenneco Company

Western Rocky Mountain Division

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



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:

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Very truly yours.

TENNECO OIL COMPANY

PAgy

Paul Dovie Division Production Engineer

SMc:st

WAIVER

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

Name: _____ Title: _____

Date:

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



A Tenneco Company

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.

VIH Frank G. Weiss III

Frank G. Weiss III Senior Production Engineer - WRMD

MESAVERDE

FLORANCE 6 1	MV/DK								DATE	: 7/10	0/85
MESAVERDE D	AKOTA COM	MINGLI	١G						FILE:	: FILE	E102
2-3/8X4-1/2	ANNULUS								PROJ	: 0	
		GA	S W	IELL	. Р	RE	SSU	RES			
MEASURED DE	PTH, FEET	ECET	500	00.		FLOW	STREA	M ID, IN	CHES		2.375
INUE VERILO	ni virin,	F E E I	500	<i>.</i>		r L.OW	SIKEP	100, IN	UNES		0,400
GAS GRAVITY			0.695	5		CRIT	ICAL 1	EMPERATU	RE		388.
BOTTOM HOLE	TEMPERAT	URE	150.			CRIT	ecal f	RESSURE			666.
NITROGEN, M	OL %		0.			CONDI	ENSATE	GRAVITY	, DEC	3 API	50.0
CARBON DIOX	IDE, MOL	%	Ο.			WATEI	R GRAV	ITY			1,047
HYDROGEN SU	LFIDE, MO	L %	0.			PIPE	ROUGH	INESS, IN	CHES		0.00060
GAS RATE	WH TEMP	WELLH	EAD	вотто	MHOI	_E P,	/Z	CONDENSA	TE	WATE	ER
M/D	DEG F	PSIG	•••••••••••••••••••••••••	PSIG		PSIC	3	STB/MMCF	<u>.</u>	BW/MM()F
Ο.	60.	378		425	AT	4526	FEET	(MEAS)	F	FLUID L	EVEL
				640	AT	5000	FEET	(MEAS)		(WTF	()

0350

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

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Farmington, New Mexico 87401

(505) 325-2393

Company TENNECO OIL CO	OMPANY	Lease	FLORANCE		Well#6
County <u>SAN JUAN</u>		State	NEW MEXIC	0	Date 5-15-85
Shut-In		Zero Point	G.L.		Tbg. Pressure580
Casing Pressure PACKER		Tbg. Depth			Casing Perf
Max. Temp		Fluid Level			
	DEPTH		PSIG	GRADIENT	
	0		580		
	1000		595	.015	
	2000		609	.014	
	3000		625	.016	
	4000		639	.014	
	5000		651	.012	
	6000		663	.012	
	7000		677	.014	
	7100		679	.020	
		ME	SAVERDE	זיסד קידי	
		O DAI S	TOT TH LVESS		

378 PSIG DEAD WEIGHT SURFACE PRESSURE TEST 4526 FT ANNULUS FLUID LEVEL

SOUTHERN UNION GATHERING COMPANY REPORT OF BTU TEST RESULTS

TO: TENNECO OIL CO (846)

REF: FLORANCE 6 4065 NORTHWEST NEW MEXICO (70)

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

 RESULTS:
 SPECIFIC GRAVITY:
 0.6952

 BTU/CF @ 14.73/60F/DRY:
 1209.7

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	MOL %	G. P. M.
CARBON DIOXIDE	0. 895	0. 0000
NITROGEN	0. 117	0. 0000
METHANE	84. 320	0. 0000
ETHANE	8.090	2. 1650
PROPANE	3. 548	0. 9770
ISOBUTANE	0.672	0. 2190
N-BUTANE	0. 942	0. 2970
ISOPENTANE	0. 340	0. 1240
N-PENTANE	0. 260	0. 0940
HEXANE +	0.843	0. 3710
		~~~~~
TOTAL	100. 027	4. 2470

:



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:

- 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.)
   Florance #19A Mesa Verde formation water Florance #19 Dakota formation water
- 3. Riddle A #1Mesa Verde formation waterRiddle A #1Dakota formation water
- 4. Moore #1A Mesa Verde formation water Moore #6E Dakota formation water
- 5. State Com #1A Mesa Verde formation water State Com #1 Dakota formation water
- 6. Florance #31 Mesa Verde formation water Florance #31 Dakota formation water
- 7.Florance #7AMesa Verde formation waterFlorance #6Dakota formation water
- 8. Florance #36 Mesa Verde formation water Florance #36 Dakota formation water

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

ten L biede

District Engineer

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LLD/kr

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Corpan <b>v:</b>	TENNECO	Report No: Date: Dourty:	6-3-85
Address:	i angari i 'i i 'i angan kan' bun'	F1@1d1	
		Formation:	MESA VERDE
Attention: Date Sampled:	FRANK WEIBS	Lease: Well:	FLORANCE #78

#### WATER ANALYSIS

Specific Grav:		1,202	07:		7.	2 Z
Chlori <b>de:</b>		202 mg/l	Calcium:		1.2.2	me/1
Bicarbonate:		61 ma∕l	Magnesium:		43	ao aZ ≟
Sulfate:	0		Total Iron:	ΞŻ		
Sulfide:	Ø		Socium:		71 C	
Total H <b>ardness</b>			Total Dislvc			
(as <b>CaCO3):</b>		5202 mc/1	Solics:		432	$m \pi / 1$
Resistivity:		12.22	Ohm Meters @:		εa	11.
Potassium:	Ø		Canoonate:		ri O	

Sample Source:

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Remarks:

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Analyst: LOREN L. DIEDE Smith Representative:

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<pre>Concerny: Accress:</pre>	TENNECO	Report No: Date: Colnty: Field:	6-3-65
		Formation:	DAKOTA
Attention:	FRANK WEISS	lerase :	FLORANCE
Iare Sampl <b>ed:</b>		->> <i>€</i> 1 1 1	非古

#### APTER ANALYSIS

Scentfic Grav:	1	.202	071	6.	3C
Chlori <b>de:</b>	<b>2, 5</b> 99	8 <b>5</b> 2 1	Calcium:	<b>€</b> ₹2	ng/l
Elcarb <b>onate:</b>	61	the grade in the second s	Magnes: um:	n =	
Sulfat <b>e:</b>	Z)		Total Crons	22	កេច្/រំ
Sulfic <b>e:</b>	Ø		Sociumi	1.452	aqZ1
Total Handness			Total Dislve		
(as <b>CaCO3):</b>	522	ang Zilli	Solics:	4.343	ang∕1
Resistivity:	1.22.1 North	. 42	Obm Mebers 6:	62	- <u></u>
Potagsium:	2		Carbonate:	ភ ដ	

Sample Source:

Remarks:

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Analyst: LOREN L. DIEDE Smith Representative:

Well Name	Florar	ice #6			Unit	M	Sec	23	Т	30N	R	9W
TD 7455	PBTD	7422	County	San	Juan	State	N.M.	WI		50	RI	. 3275
Drlg Cost		Re-Comp	Cost \$	69,61	2 Re-0	Comp Da	te 6-	23-65	Trn	On [	Date	
Dakota-Recom	p_IP_	BOPD	130	4 MCF	D	B	WPD	3 H	lours	5		SIWHP
MV-Recomp	_ IP	BOPD	110	7_MCF	D	BI	NPD _	H	ours			SIWHP

#### - TUBULAR RECORD-

Size ' Weight ' Grade ' Depth ' Cement ' Top Cement ' Hole Size ' Remarks

13-3/8	48#	H-40	202 '	220 s:	x Surface		17-1/4"	
<u>7"</u>	20&23	K-55	4426	250 s	x		8-3/4"	Lost circn
4-1/2	10.5&11.	6 K-55	7455	400 sx.	/260		6-1/4"	DV @ 4111'
<u>2-3/8 '</u>	4.6# '	J-55	7120		1	1		Circ. cmt to
								surf.on 1st
								stage.

 Packer? Yes__X No___
 Type __Model D
 Depth __7120

 Anchor? Yes ___No_X
 Type ____
 Depth ____

 Pump Type ____Flowing gas
 _____

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#### - COMPLETION & WORKOVER RECORD-

 Zone # 2 - Formation
 Dakota
 Date
 6-18-65
 Perfs w/JSPF
 7399-93,

 4 HPF; 7380-74, 7372-68, 7357-55, 2 HPF; 7298-96,7289-85, 4 HPF (72 holes).

 Press Tstd
 4000
 PSI, Spot Acid - Type
 500
 Gallons
 --- BDISIP

 Volume & Type
 water
 , # balls
 , Rate
 4
 BPM, Press.
 2200 PSI

 Frac:
 Fluid Volume & Type
 87,000 gal, then drop balls
 Sand:
 65,000 #
 20/40 Mesh

 Sand:
 2,500
 # 20/40
 Mesh
 Sand:
 2,500 #
 20/40

 Frac Rate
 _______
 50
 BPM
 Frac Pressure
 3000
 PSI
 ISIP
 1300, 2000
 PSI

 Comments
 2nd Dak frac:
 Perf:
 2 HPF, 7196-76, frac'd w/65,520 gals wtr & 45,000#
 20/40 & 10/20.
 AIR:
 45 BPM AIP:
 3400 psi
 ISIP:
 2000 psi

Zone # 3 - Formation <u>MV-PLO</u> Date <u>6-20-65 state</u> Perfs w/JSPF <u>2 HPF: 5221,5193, 5184, 5173, 5159, 5150, 5136, 5122, 5109, 5104, 5080, 5070, 5056, 5048, 5041, 5035, 5026, 4892, 4888, 4858, 4855. Press Tstd PSI, Spot Acid - Type <u>500</u> Gallons BDISIP</u>

 Press Tstd
 PSI, Spot Acid - Type
 500
 Gallons
 BDISIP

 Acid: Volume & Type
 , # balls
 , Rate
 BPM, Press.
 PSI

 Frac: Fluid Volume & Type
 92,400 g/wtr (2 stg)
 Sand: 60,000 #
 10/20
 Mesh

 Sand:
 20,000 #
 8/12
 Mesh

 Frac Rate
 75
 BPM
 Frac Pressure
 20
 PSI
 ISIP
 -0 PSI

 Comments
 2nd MV frac - CH: perf'd : 2 HPF: 4813, 4807, 4802, 4792, 4786,
 4618, 4610, 4606, 4596, 4594, 4580, 4578, 4572, 4566, 4560, 4548, 4546, 4464,
 4461, 4454, 4453, 4447; frac w/80,000 # 10/20 & 8/12, 96, 180 gal wtr. AIR =

 62 BPM, AIP = 2500 psi.
 ISIP = 0 psi - 2 stages, dropped balls.
 AIR =

- CASING REPAIR RECORD-

Depth of Leak ____, # of squeezes required ___, # of sx used _____ Cathodic Protection? Yes___ No ___ Date Installed _____

Comments <u>Well drifted in 1950</u>. Completed open hole in MV in 1954 and

recompletion in 1965/w/4-1/2" csg through Dakota.

Prepared By: Takue	Date:	1-23.84	Verified By:	Date:
PAG				

C-116 Revised I-1-65

ſ			1	T	<b>T</b>
Rul				Address	Operator
No well will be assigned an allo During gas-oil ratio test, each ated by more than 25 percent. Opera reased allowables when authorized by Gas volumes must be reported in i be 0.60. Report casing pressure in lieu of Mail original and one copy of ti Mail original and one copy of ti			LEASE NAME	P.O. Box 3249, Englew	Tenneco Oil Company
able grea rell shall the Comm MCF mea tubing pre		თ	WELL	ood, C	
ter then be pro ouraged ission. sured a to the f		3	с	0 80	
the am duced a to take t a pres t a pres t a pres		23.	<u>ہ</u> د	)155	
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and be	reby c		GRAV.	letion	Juan
omplete lief. <u>(Si</u>		, , , , , , , , , , , , , , , ,			
at the above to the best snatures Supervis Title	· · ·		GAS M.C.F.	Spec	
of my know-			GAS - OIL RATIO CU.FT/BBL		
i i i 1			1 *	<b>.</b>	4

(Date)

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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS
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C-116 Revised 1-1-65

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Rule	loca				Address	Operator
Mail original and one copy of th 301 and appropriate pool rules.	No well will be assigned an allow During gas-oil ratio test, each w ted by more than 25 percent. Operat eased allowables when authorized by Gas volumes must be reported in be 0.60.		Florance	LEASE NAME	P.O. Box 3249, Englewi	Tenneco Oil Company
s report to	able great reli shali t or is encou the Commi MCF meas		6	NO.	bod, CO	
the d	or then be proc uraged slon. ured a		Z	c	80	
listrict o	the amo to take t a press		23	₅ Loc	)] 55	Poo
ffice of	a rate r advantag		30	TION		-
the New	e of this	-	9	נג		akota
Mexico Oli Con	d on the officia ding the top ur 25 percent tol 25 psia and a te		5/28/85	DATE OF TEST		
serva	it all erance		п-	STATUS	EST EST	
llon Com	une of 6	الا المحمد المحمد المحم	N/A	CHOKE	і о Т Х	
nl <b>as</b> lon in	r the pool that we ll 0° F. Spec		580	TBG. PRESS.	- Sch	
accordance v	in which wei can be assig lfic gravity b			DAILY ALLOW- ABLE	eduled X	Cou
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#### 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

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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

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 waive any objections to Tenneco Oil Company's application to commingle production as set forth above. Name: Name: R.R. Title: Nith Mario 2000 R.R. Title: Name: 8-9-85

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