A Tenneco Company

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



Western Rocky Mountain Division

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

Attention: Don Reed

BEFORE EXAMINED STOCKER
OIL CONSERVATION DIV MAIL

CASE NO. 8765

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 Tenne commingle production as set forth above	
Name: Dan Q R. Res	Title: Vitu Manager
Date: 8-9-85	To the second
	170FP 132A 1/84

ATenneco Company

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



Western Rocky Mountain Division

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

PA & g/4
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

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

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TENNECO OIL COMPANY

Paul Doyle

Division Production Engineer

SMc:st	
`	WAIVER
	aive any objections to Tenneco Oil Company's application to roduction as set forth above.
Name:	Title:
Date:	

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.

Name:	Title:
Date:	

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A Tenneco Company

6162 South Willow Drive P.O. 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.

Frank G. Weiss III

Senior Production Engineer - WRMD

MESAVERDE

FLORANCE 6 MV/DK MESAVERDE DAKOTA COMMINGLING

2-3/8X4-1/2 ANNULUS

DATE: 7/10/85 FILE: FILE102

PROJ: O

GAS WELL PRESSURES

MEASURED DEPTH, TRUE VERTICAL D		5000. 5000.	FLOW STREAM ID, FLOW STREAM OD,		2.375 6.456
GAS GRAVITY BOTTOM HOLE TEM).695 L 5 0.	CRITICAL TEMPER CRITICAL PRESSU		388. 666.
NITROGEN, MOL % CARBON DIOXIDE, HYDROGEN SULFID	MOL %).).).	CONDENSATE GRAV WATER GRAVITY PIPE ROUGHNESS,		50.0 1.047 0.00060
			LE P/Z CONDE 		
0. 60	. 378		•	AS) FLUID LE (AS) (WTR)	

0350

B & R SERVICE, INC. P. O. Box 1048 Farmington, New Mexico 87401 (505) 325-2393

Company TENNECO OIL CO	MPANY	Lease	FLORANCE		Well #6
County SAN JUAN		State	NEW MEXIC	0	Date <u>5-15-85</u>
Shut-In		Zero Point	G.L.		Tbg. Pressure580
Casing Pressure PACKER		Tbg. Depth			Casing Perf
Max. Temp.		Fluid Level			
	<u>DE PTH</u>		PSIG	GRADIENT	
	0		580		

<u>DE PTH</u>	<u>PSIG</u>	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

MESAVERDE

8 DAY SHUT IN PRESSURE TEST

DEAD WEIGHT SURFACE PRESSURE TEST

378 PSIG

ANNULUS FLUID LEVEL

4526 FT

SOUTHERN UNION GATHERING COMPANY REPORT OF BTU TEST RESULTS

TO: ' TENNECO DIL CO (846)

REF: FLORANCE

4065

TOTAL

RESULTS:

NORTHWEST NEW MEXICO (70)

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

TEST FREQUENCY:

0.6952

4. 2470

1

SPECIFIC GRAVITY: BTU/CF € 14.73/60F/DRY: 1209.7

MOL % C. P. M. CARBON DIOXIDE 0. 895 0.0000 0.117 0.0000 NITROGEN 84. 320 0.0000 METHANE **B.** 090 2.1650 ETHANE 3. 548 0.9770 PROPANE ISOBUTANE 0.2190 0.672 0.2970 0.942 N-BUTANE 0. 340 0.1240 ISOPENTANE 0. 260 0.0940 N-PENTANE HEXANE + 0.843 0.3710 _____ ----

100.027

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

June 5, 1985

421

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 s	amples.)

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

District Engineer

LLD/kr

Attentions	FRANK WEISS		Leasai	FLORANCE	1
•			Formation:	DAKSTA	
Addysse:		•	Field:		
₹Iompany:	TENNECO		Bountys		
			Date:	6-3-65	
07 19 03 10 31 10 11 12007	7 7 11 11 12 11 10 1 0 1 1		tod focus	1	
OV 19 '85 10:57 TENNECO,	FARMINGTON			P.8	

WATER ANALYSIS

Specific Grav:	•	1.	\$ \$\$	oni	6.	50
Chlorice:		2, 599	mp/1	Calciums	203	m _m /l
Bicarbonate:		61	mç/l	Magnesium:	ກ ຜົ	. –
Sulfate:	Ø	•		Total Iron:	22	mp/1
Sulfide:	Ø			Sociumi	1.450	ms/1
Total Hardness		•		Total Dislvd		•
(as CaCC3);		500	mg/1	Solics:	4.343	mg/l
Resistivitys		2.	40	Ohm Meters #:	62	₽ .
Potessium:	Ø		•	Carbonate:	n d	

Sample Source:

Date Sampled:

Remarks:

Analyst: LOREN L. DIEDE Smith Representative:

P.7

Company: Acdress:

TENNECO

Report No. Dates County: Field: Formations

6-3-65

Attentions Date Sampled:

FRANK WEISS

LEASE: Wall:

MESA VERDE FLORANDE #7A

WATER ANALYSIS .

Specific Grave 1.202 7. 22 Chloride: 200 mE/1 Calcium: 120 m₂/1 Bicarbonate: 61 mq/1 Magnesiumr 49 mc/1Bulfate: Total Irons 20 Sulfide: Eadium: 73 0 Total Handness Total Dislyc (as CaCD3): 500 mc/1 Solics 430 ma/1 Resistivity 10.02 ٤Ø Ohm Meters 0: F Potassiumi Carponates n a

Sample Source:

Remarksi

Analyst: LOREN L. DIEDE Smith Representative:

Well Name Florance #6 Unit M Sec 23 T 30N R 9W
TD 7455 PBTD 7422 County San Juan State N.M. WI .50 RI .3275
Drig Cost Re-Comp Cost \$60 612 Pe-Comp Date 6-23-65 Trn On Date
Drlg Cost Re-Comp Cost \$69,612 Re-Comp Date 6-23-65 Trn On Date Dakota-Recomp IP BOPD 1304 MCFD BWPD 3 Hours SIWHP MV-Recomp IP BOPD 1107 MCFD BWPD Hours SIWHP
MV-Recomp IP BOPD 1107 MCFD BMPD Hours STMHP
- TUBULAR RECORD-
Size ' Weight ' Grade ' Depth ' Cement ' Top Cement ' Hole Size ' Remarks
13-3/8 48# H-40 202' 220 sx Surface 17-1/4"
7" 20623 K-55 4426 250 sx B-3/4" Lost circn
4-1/2 10.5611.6 K-55 7455 400 sx/260 6-1/4" DV @ 4111'
2-3/8 ' 4.6# ' J-55 ' 7120 ' ' ' Circ. cmt to
surf.on 1st
ot bro
stage.
Packer? Yes X No Type Model D Depth 7120
Anchor? Yes No X Type Depth
Pump Type Flowing gas
- COMPLETION & WORKOVER RECORD-
Zone #1 - Formation MV
4426-4650 1st stage, then open hole: 5037-5204 2nd stage
Press Tstd 2000 PSI. Spot Acid - Type Gallons BDISIP
Acid: Volume & Type # balls , Rate BPM, Press. PSI
Frac: Fluid Volume & Type 8800 gal diesel # . Sand: 4100 # Mesh
Frac Rate 6.2 BPM Frac Pressure 2100 PSI ISIP PSI
Comments *Above is 1st frac stage, 2nd stage: 10,000 gal diesel & 7200 # sand -
no rate given, AIP: 2000 psi - IP = 17 MMCFPD
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
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
Frac: Fluid volume & Type 87,000 gal, then drop balls Sand: 65,000 # 20/40 Mesh
Sand: 2,500 # 20/40 Mesh Frac Rate 50 BPM Frac Pressure 3000 PSI ISIP 1300, 2000 PSI
Frac Rate
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
20/40 & 10/20. HIR. 43 BPM HIP. 3400 PS1 131F. 2000 PS1
Zone # 3 - Formation MV-PLO Date 6-20-65 size, Perfs w/JSPF 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 500 Gallons BDISIP
Acid: Volume & Type . # balls . Rate BPM. Press. PST
Frac: Fluid Volume & Type 92.400 q/wtr (2 stq) 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.
_CASTMC BEDATE BECABA
- CASING REPAIR RECORD-
Depth of Leak, # of squeezes required, # of sx used
Cathodic Protection? Yes No Date Installed
Companies Hall drifted in 1950. Completed ones hale in My in 1954 and
Comments Well driffed in 1950. Completed open hole in MV in 1954 and
recompletion in 1965/w/4-1/2" csg through Dakota.
Prepared By: Takke Date: 1-23-14 Verified By: Date:
10.
l'Ac
IZ 'V

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

			_	≥	٥
loc. Inc. Wil				Address	Operator
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 increased 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 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 poel rules.	Florance	LEASE NAME		P.O. Box 3249, Englewood,	Tenneco Oil Company
rable great vell shall or is encor the Commit MCF meas tubing pres is report to	6	NO.	WELL	ood, CO	
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the amount to take take to take take take take take take take take	23	v	רסכי	80155	Pool
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mper mper	71	STAT	US	TYPE TEST	
owable (ce in order	 A/N	SIZE	ЭХОНО	- (X)	
or the poor that well	580		TBG.	Sc	
the pool in which well is that well can be assigned. F. Specific gravity base assion in accordance with		 -	DAILY	Scheduled X	S
With to	24	7687	HENGTH		County
I hereby certify that the above information is true and complete to the best of my knowledge and belief. Clay of Co. Supervisor Administrative Supervisor (Title)	٩	WATER BBLS.	d	Comp	San
	45.5	GRAV.	ROD. [Completion [Juan
	0	\$168 OIL	PROD. DURING		
	50.90	GAS M.C.F.	TEST	Spec	
	0	RATIO CU.FT/BBL	GAS - OIL	Special 🔲	

(Date)

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 increased allowables when authorized by the Commission. 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.		Florance	LEASE NAME		P.O. Box 3249, Englewood,	Operator Tenneco Oil Company
ble great sil sheld r is enco he Commi MCF meas ubing pres report t		Ø	Z 0.	WELL	od, CO	
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the smiduced a let take it a presit a presit a presidential with a district identification.		23.	ر م	Loc	80155	Pool
a rate advanta. sure bas ill produ		30	7	LOCATION		
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ed on the official seding the top unless 25 percent toll 225 pala and a trugh casing.		5/28/85	TEST	DATEOF		Mesaverde
it sat. it slicerance erance mpera		S	BTAT	_	TEST	
in order		N/A	SIZE	CHOKE	- (X)	
		370	ט	18G.	د د	-
that well can be assigned that well can be assigned? F. Specific gravity base lasion in accordance with			ABLE		Scheduled X	8
W B R R II			HOURS	LENGTH		County
I hereby certify that the above information is true and complete to the best of my knowledge and belief. The the supervisor (Tide)		•	WATER BBLS.		Comp	San
			GRAV.	Completion [letion	San Juan
			9815	DURING		
			GAS M.C.F.	TEST	Spec	
re information to f my know-			CU.FT/BBL	GAS - OIL	Special	

(Date)

FLORANCE 6

DETERMINATION OF ALLOCATION PERCENTAGES

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

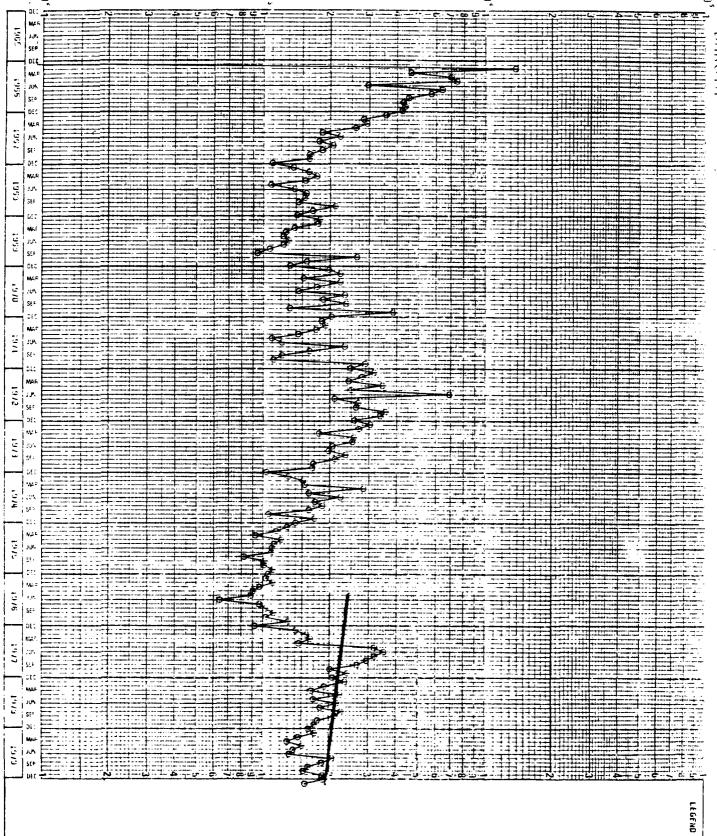
	DECLINE PERCENTAGE	REMAINING RESERVES
MESAVERDE	10%	754 MMCF
DAKOTA	8%	174 MMCF

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CHS PRODUCTION (MCFK)

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CHS PRODUCTION (NCFK)

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