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

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

Attention: Gilbert Quintana

July 31	<u>, 1985</u>
	BEFORE EXAMPLE STOCKET A OIL CONCERNATION DE DEVALE
	TCO EMERGITAD 5
	CASE NO. 8763

RE: State Com 1

990' FSL, 990' FWL Sec. 32, 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,

Paul Dyl

TENNECO OIL COMPANY

Paul Doyle

Division Production Engineer

SMc:st

Enclosures

cc: Mr. Jerry Hertzler

Mr. Frank Weiss

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

August 1, 1985

Amoco Production 1670 Broadway Denver, CO 80202

Attention: R. C. Burke, Jr.

RE: State Com 1

990' FSL, 990' FWL Sec. 32, 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	
,	<u>WAIVER</u>
	waive any objections to Tenneco Oil Company's application to production as set forth above.
Name:	Title:
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 State Com 1 was completed as a Mesaverde-Dakota dual in July 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 949 psig at 6575' after 8 days of shut in. This Dakota pressure corrected to a datum of 5000' was 916 psig. A pressure bomb could not be run for the Mesaverde since this zone produces up the annulus.

A dead weight surface pressure of 537 psig was recorded for the Mesaverde after 8 days of shut in. A fluid level could not be established. The bottom-hole pressure for the Mesaverde was calculated to be 616 psig at a datum of 5000'. The requirement that the lower pessured 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.

A Dakota water sample from the State Com 1 and a Mesaverde water sample from the offset State Com 1A were tested for compatibility. 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, 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 this commingling. This velocity increase will enable the well to unload produced fluids resulting 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 27% assigned to the Mesaverde and 73% 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

FGW/0363

MESAVERDE

STATE COM 1 MV/DK MESAVERDE DAKOTA COMMINGLING 2-3/8X4-1/2 ANNULUS

DATE: 07/10/85 FILE: FILE102 PROJ: 0

GAS WELL PRESSURES

MEASURED 1 TRUE VERT		ET 50 H, FEET 50)00.)00.	FLOW STRI		
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0.	60.	537.	616. + 616. +	AT 5000. AT 5000.		 JID LEVEL (WTR)

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

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

Company TENNECO OIL COMPANY	Lease STATE COM.	Well#1
County SAN JUAN	State NEW MEXICO	Date 5-15-85
Shut-In	Zero Point G . L .	Tbg. Pressure 810
Casing Pressure PACKER	Tbg. Depth	Casing Perf.
Max. Temp.	Fluid Level	

DEPTH	PSIG	GRADIENT
0	910	
U	810	
1000	833	.023
2000	853	.020
3000	875	.022
4000	895	.020
5000	916	.021
6000	938	.022
6475	947	.019
6575	949	.020

MESAVERDE

8 Day Shut in Pressure Test

Dead Weight Surface Pressure 537 PSIG

SOUTHERN UNION GATHERING COMPANY REPORT OF BTU TEST RESULTS

TD: TENNECO DIL CC (846)

REF: STATE COM 1

4185

NORTHWEST NEW MEXICO (70)

DATE OF THIS TEST: 12/26/84 DATE OF LAST TEST: 4/26/82

TEST FREQUENCY: MOT SPECIFIED

RESULTS: SPECIFIC GRAVITY: 0.7201

TTU/CF @ 14.79/60F/DRY: 1248.4

MOL % G. P. M. CARBON DIOXIDE 0. 668 0.0000 MITROGEN 0.327 0.0000 ~ETHANE 79.710 0.0000 ETHANE 11.040 2. 9550 PROPANE 4.571 1.3710 0.2460 ISOBUTANE 0. 752 1.379 N-BUTANE 0.4350 ISOPENTANE 0.422 0.1540 N-PENTANE 0. 353 0.1270 0. 330 -EXANE + 0.1350 TOTAL 100.012 5. 4230

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 s	amples.)

2.	Florance #19A Florance #19	Mesa Verde formation water Dakota formation water
3.	Riddle A #l Riddle A #l	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

Report Nov

P.12 **6-3-85**

Company: Address: 「田文を保むり

County

Attention: Date Sampled:

FRANK WEIGE

Formation:

DAKOTA STATE COM.

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WATER ANALYSIS

Specific Grave		1.	数なり	pri:		7.	C 10
Chlorice:		1,200	mp/l	Calcium:	·	120	៣៩
Bicarbonates		122	mq/l	Magnesium: '		`n d	
Sulfates	2			Total Iron:	20		
Sulfide:	Ø			Sodium:		ese	mag /
Total Hardness				Total Dislvc		i	_
(as CaCC3):		302	mq/I	Solids:	2	2.1 2 4	mg/
Resistivity:		10.	8 Ø	Ohm Meters G:		· • 60	F
Potessium:	Ø			Carbonates		n ಡ	

Sample Source:

Remarks:

Analyst: LOREN L. DIEDE Smith Representative:

Attention:

TENNECO

FRANK WEISS

BOX FRACER 6-3-65

Formations MEBA VERDE STATE COM.

#16

WATER ANALYSIS

Specific Grave		1.	000	o ini s		7.	ġQ.
Colorides		4,459	mg/l	Calciums		` 200	M□
Bicarbonate:		1, 159	mg/1	Magnesium:		121	mç
Sulfate:		422	m=/1	Total Iron:	22		•
Sulfide:	Ø		-	Sodium:		3,085	MC
Total Hardness				Total Dislyd		•	-
(as CaCC3);		1.001	mg/l	Solices		9.463	m⊏
Resistivity:		1.	0 0	Dhm Meters G:		6.3	F
Potassium:	Ø			Carbonates		n d	÷

Sample Source:

Remarks:

-TENNECO WELL HISTORY-

2591/21

Well Na	me <u>Sta</u>	te Com #1		Unit	t <u> </u>	Sec 32	_T30N_ R	<u>9W</u>
TD 694	11 PB	TD <u>6911</u>	County	San Juan	State _	NM WI	T <u>30N</u> R	609375
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						-84 <u>, 6898</u> -		
Press 1	std	PSI,	Spot Acid	- Type		Gallons	BDIS BPM, Press.	IP
Acid: \	/ol. & T	ype		,# bi	alls,	Rate	BPM, Press.	PSI
Frac: f	luid Vo	lume & Ty	pe <u>30,000</u>	g KC1 SI	San	nd: <u>28,000</u>	20/4	0 Mesh
rac Ka Commoni	te <u>34</u>	.5 BPTI	Frac Pi	ressure _	3500	PS1 151	[P	PS1
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Prepare	ed By:	_	Date:		Verified	d Bv:	Date:	

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Comments					

Frac Rate 38 Comments	BPM Frac Pr	essure 3700	PSI I	SIP 1000	PS3
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Press Tstd Acid: Vol. & Type	PSI, Spot Acid	- Type	Gallons	BDIS	IP
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9		7/00//	<u> </u>	700F A 700F	
Comments					
Frac: Fluid Volume Frac Rate <u>48.5</u>	2 & Type <u>108,00</u> BPM	O g SW essure260	, Sand : <u>20,0</u> O PSI I	000 # <u>8/12</u> CSIP <u>400</u>	Mesi PSI
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Zone # 5 — Format: 4247, 52, 58, 7: 59, 63, 4610, 1,	ion <u>Pt. LO</u> Da 1, 4302, 05, 66,	7/28/65 68, 70, 4432	Perfs w/: 2; 34, 69, 7	JSPF <u>2 JSP</u> 2, 4523, 44,	F 6 51, 53,
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Zone #4 — Formatio					
Zone #4 — Formatio	MPLETION on Dakota Da				

S.M. Struna

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

No we Durin located by m increased all		Statı	LE,		Address P.O.	Operator Tenn
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 n.60.	•	State Com	LEASE NAME		Box 3249, Englewood,	Tenneco Oil Company
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I hereby certify is true and complete ledge and belief.			GRAV.	PROD. DURING	etion	'n
rtify tha mplete ief.		0	\$318 01∟	URING	Ш	
it the above to the beat		87.69	GAS M.C.F.	TEST	Special	
I hereby certify that the above information is true and complete to the best of my knowledge and belief.		0	RATIO CU.FT/BBL	GAS - OIL		

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.

Administrative Supervisor

(Tide)

(Date)

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

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

!					Address	Operator
No well will be assigned an allowable greater than the amount of oil produced on the official test.		State Com	LEASE NAME		P.O. Box 3249, Englewood,	Tenneco Oil Company
able great	·		NO.	WELL	ood, CO	
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the emo	•	32	s	LOC	80155	P ₀₀ 1
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			TEST HOURS	LENGTH		County
l her		•	WATER BBLS.	ıd	Сотр	San Juan
eby ce			GRAV.	00. D	Completion [ian
rtify tha			BBLS	PROD, DURING		
t the above			GAS M.C.F.	TEST	Special	
I hereby certify that the above information			CU.FT/BBI	GAS - OIL	101	

(Date)

Administrative Supervisor

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.

is true and complete to the best of my know-

ledge and belief.

One volumes must be reported in MCF measured at a pressure base of 15.025 pain and a temperature of 60° F. Specific gravity base

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate peel rules.

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

will be 0.60.

STATE COM 1

DETERMINATION OF ALLOCATION PERCENTAGES

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

	DECLINE PERCENTAGE	REMAINING RESERVES
MESAVERDE	10%	183 MMCF
DAKOTA	6%	484 MMCF

(MCFK)

03000090328

STAIL COM 1

PRINCIPLE SHE

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