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

August 1,	198BEFORE EXAMINER STORMER OIL CONSERVATION DIVISION
	Tro EXHIBIT NO. 2
ı	CASE NO. 8764

RE: Dawson A 1

790' FSL, 1450' FWL Sec. 4, T27N, R8W

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: El Paso Tatual Jas Title:

Date: 8-9-85

A Tenneco Company

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



Western Rocky Mountain Division

August 1, 1985

Great Lakes Chemical Post Office Box 2200 West Lafayette. IN 47906

RE: Dawson A 1

790' FSL, 1450' FWL Sec. 4, T27N, R8W

San Juan County, New Mexico

Gentlemen:

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TENNECO OIL COMPANY

Paul Doyle

Division Production Engineer

SMc:st

WAIVER

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Name: Kanance #1 Vaughen_ Title: Manager of Plauning
Date: Avg. 15, 1985

A Tenneco Company

Western Rocky Mountain Division

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



hargo Canyon Prospect 06-NM-0849

August 1, 1985

Mesa Petroleum Company 1660 Lincoln Street, Suite 2800 Denver, CO 80264

RE: Dawson A 1

790' FSL, 1450' FWL Sec. 4, T27N, R8W

San Juan County, New Mexico

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Very truly yours,

TENNECO OIL COMPANY

RECEIVED

AUG 1 2 1985

ROCKY MTN. DW.

SMc:st

Paul Doyle

Division Production Engineer

WAIVER

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

MESA PETROLEUM CO.

Name:

MMM .__ Title: Division Land Manager

Date: August 12. 1985

A Tenneco Company

Western Rocky Mountain Division

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



August 1, 1985

Arco Oil & Gas Company 707 - 17 Street, Arco Tower Post Office Box 5540 Denver, CO 80217

RE: Dawson A 1
790' FSL, 1450' FWL
Sec. 4, T27N, R8W
San Juan County, New Mexico

Gentlemen:

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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.
SIGNATURE: Larry B. Morse Name: ARCO Oil and Gas Company Title: Operations Manager
Date: September 17, 1985

A Tenneco Company

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



Western Rocky Mountain Division

August 1, 1985

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

Attention: Gilbert Quintana

RE: Dawson A 1

790' FSL, 1450' FWL Sec. 4, T27N, R8W

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

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: Dawson A 1

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PADSA

TENNECO OIL COMPANY

Paul Doyle

Division Production Engineer

3MC . S C	
	<u>WAIVER</u>
	waive any objections to Tenneco Oil Company's application to production as set forth above.
Name:	Title:
Date:	

A Tenneco Company

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



Western Rocky Mountain Division

August 1, 1985

Great Lakes Chemical Post Office Box 2200 West Lafayette, IN 47906

RE: Dawson A 1

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TENNECO OIL COMPANY

Paul Doyle
Division Production Engineer

SMc:st	
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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

Mesa Petroleum Company 1660 Lincoln Street, Suite 2800 Denver, CO 80264

RE: Dawson A 1

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San Juan County, New Mexico

Gentlemen:

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TENNECO OIL COMPANY

Paul Doyle

Division Production Engineer

	WAIVER
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Date:	

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



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	WAIVER
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Name:	Title:
Date:	

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8		AZTEC	SO. UNION	03386	SEZ EL	PASO	S T A T E	*
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ATenneco Company

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



Western Rocky Mountain Division

The Dawson A #1 was completed as a Mesaverde—Dakota dual in June of 1967 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 1180 PSIG at 7200' after 8 days of shut in. This Dakota pressure corrected to a datum of 5000' was 1109 PSIG. A pressure bomb could not be run for the Mesaverde since this zone produces up the annulus.

A dead weight surface pressure of 535 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 then calculated to be 617 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 the produced water from the Dakota and Mesaverde formations. The Mesaverde sample showed some scaling tendency, however, no incompatibility problems exist between the two samples. 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 this 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 48% assigned to the Mesaverde and 52% 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/dw: 0349

MESAVERDE

DAWSON A#1 MV/DK MESAVERDE DAKOTA COMMINGLING

2-3/8X4-1/2 ANNULUS

DATE: 7/10/85 FILE: FILE102

PROJ: O

GAS WELL PRESSURES

MEASURED DEPTH, FEET TRUE VERTICAL DEPTH, FEET		FLOW STREAM ID, INCHE	
GAS GRAVITY BOTTOM HOLE TEMPERATURE	0.743 150.	CRITICAL TEMPERATURE CRITICAL PRESSURE	403. 665.
NITROGEN, MOL % CARBON DIOXIDE, MOL % HYDROGEN SULFIDE, MOL %	0. 0. 0.	CONDENSATE GRAVITY, D WATER GRAVITY PIPE ROUGHNESS. INCHE	1.047
•	HEAD BOTTOMHO	LE P/Z CONDENSATE	WATER
0. 60. 53!	617 AT	5000 FEET (MEAS)	FLUID LEVEL (WTR)

0350

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

Farmington, New Mexico 87401 (505) 325-2393

Company TENNECO OIL CO.	Lease DAWSON	WellA-1
County SAN JUAN	StateNEW MEXICO	Date 6-12-85
Shut-In	Zero PointG.L.	Tbg. Pressure 947
Casing Pressure PACKER	Tbg. Depth	Casing Perf. DAKOTA
Max. Temp.	Fluid Level	

DEPTH	PSIG	GRADIENT
0	947	
1000	9 79	.032
2000	1012	.033
3000	1044	.032
4000	1077	.033
5000	1109	.032
6000	1141	.032
7100	1177	.033
7200	1180	.030

MESAVERDE

8 DAY SHUT-IN PRESSURE TEST DEAD WEIGHT SURFACE PRESSURE

535 PSIG

03/22/85

EL PASO NATURAL GAS COMPANY MEASUREMENT DEPARTMENT POST OFFICE BOX 1492 EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

TENNECO OIL COMPANY ATTN: URSULA SULCBACH P. O. BOX 3249 ENGLEWOOD, CO 80155

ANAL DATE 03 18 85	METER STATION NAME	METER STA	75656 8720
	DAWSON A #1		
TYPE CODE SAMPLE DATE	EFF. DATE USE MOS.	SCALE H2S GRAINS	LOCATION
00 *** 03 18 85	03 25 85 06		4 F 02
	NORMAL Mol%	GPM	
c o 2	. 60	. 000	
H 2 S	. 00	. 000	
N2	, 55	. 000	
METHANE	77, 09	. 000	
ETHANE	12, 13	3.242	
PROPANE	5, 97	1,642	
ISO-BUTANE	. 9 5	, 311	
NORM-BUTANE	1, 55	, 488	
ISO-PENTANE	. 44	, 161	
NORM-PENTANE	. 34	, 123	
HEXANE PLUS	. 38	. 166	
TOTALS	100.00	6, 133	
SPECIFIC GRAVITY		743	
MIXTURE HEATING VALU	E		
(BTU/CF AT 14.73 PSI	A,60 DEGREES,DRY) 1,	285	
RATIO OF SPECIFIC HE	TATS 1.	277	

NO TEST SECURED FOR H2S CONTENT

*** TYPE CODE EXPLANATION: SINGLE METER ANALYSIS

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.)

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

P.4

Report No: Date:

Formation:

: 5+3+45

Ecupany:

TENNECO

County: Field:

DAKST

Attention: Date Sampled: FRANK WEISS

Lease: Well: DAWSON FED.

1: #1

WATER ANALYSIS

Specific Grave		1.000	D at	7.00
Chloride		5,499 mg/	/1 Calcium:	4@1 < mp/l
Bicarbonates		732 mg/		48 mo/1
Sulfates		3. 800 mc/	/1 Total Iron:	3 mg/l
Bulfides	2 1		Socium:	5.105 mg/l
Total Hardness			Total Dislyd	
(as CaCC3):		1.201 mg/	/1 Solids:	15.589 ma/l
Resistivity:		Ø.74	Dinm Meters 0:	60 F
Potassium:	Ø		Carbonate 1	n d

Sample Source:

Remarks

Analyst: LOREN L. DIEDE Smith Representative:

Company: Acoress:

TENNESS

FRANK WEIES

Report No: Date: 6-3-45 County:

Field: Formation:

MESA VERDE DAWSON FED.

We 1

Attention: Date Samples:

WATER ANALYSIS

Specific Grave	. 1.	2 23	od :	7. ଅସ			
Chioride: .	19,495	mp/l	Calcium:	1, 182	mp/l		
Bicarbonates	9:5	m=/1	Magresium:	72	m=/1		
Sulfates	102	ಯ⊈/1	Total Iron:	3	か豊ノコ		
Sulfidė:	Ø		Sociums	11,604	mq/1		
Total Harchess			Total Dislvc		-		
(as CaCO3):	3.102	ದç/1	Solicst	33.312	តាង/1		
Resistivity:	₹.	35	Ohm Meters 9:	50	F		
Fotassium:	Ø.		Carbonate:	n c	i		

Sample Source:

Remarks;

Analyst: LOREN L. DIEDE Smith Representative:

			·								
Well No	ime Dawson	A 1	County	Uni	t N Sec	4 T 2	7N R BW				
Dr.10 C	PBID	7452	_ County	\$35 000	_ StateNew _	1-67 TED 00	O RI				
Dakota	TP	- BOP	D 2348	MCED.	COMP Date 6	3 Hours	2001 SIWHP				
Mesaver	de IP	- BOP	D 5337	MCFD	BWPD	3 Hours	929 SIWHP				
						······································					
			- 10	BULAR	RECORD	-					
Size		Grade	Depth	Cement	Top Cement		Remarks				
10-3/4	32.75#	H-40	511	400 sxs	Surface	15"	Circ cmt.				
<u>7-5/8"</u>	24#	H-40	3143	375 sxs		9-7/8"					
4-1/2"	10.5611.6	J-55	7464	145/225	48001	6-1/4"	Stage tool				
							6 5508				
2 2 42 11			7040				3300				
<u>Z-3/8"</u>	4.7	J-55	/248	W/model	D pkr set 8	72501	 				
		11		L	· · · · · · · · · · · · · · · · · · ·		L				
Packer?	Yes_X No	Ту	pe <u>4-1/</u>	2" Mod"D"	Depth 7250						
Anchori	YesNo	X Ty	pe	Dep	Depth 7250 th						
Pump Ty	/pe										
	- C O	MPL	ETIO	V & W O	RKOVER	RECOR	D -				
											
Zone #1	- Formati	on Da	kota Da	te <u>4-28-6</u>	7Perfs i	w/JSPF <u>2 JSP</u>	F 13'-26 holes				
7294-9	6', /304-0	95T	5', 7357 Spot Acid	', 7373',	7383', 7394'	, 7411', 741	6-18', 7433' BDISIP				
Acid: 1	Olume & Tv	ne 5 s	tages 250	na 15% HCĪ	# halls 10	M Pate 5 R	PM Press PST				
Frac: F	luid Volum	e & Ty	pe 60,00	gal Sl.W	tr. , Sand:	42,500 # 20	/40 Mesh				
						# 80	00 12/20 Mach				
Frac Re	ate47	BPM	Fraci	Pressure _	4000 PS	I ISIP	2000 PSI				
	or 8,00				typo o 2#/qa	I. Should b	e 1/4# pad				
		<u> </u>	3				~				
Zone #	2 - Format	ion MV	Date 4	-29-67	_Perfs w/JSPI	7',24 hol	es, 5365,5337,				
5274, 2	JSPF, 524	6-52,	1 JSPF	5225 2 JSP	F, 5172-76,	1 JSPF, 5155	, 5138-40				
Press 1	std	PST	Spot Acid	1 - Type	Ga	lons	BOTSTP				
11033	olume & Ty	pe KCl	wtr , #	balls 36	, Rate	BPM, Press.	3000 PSI				
Frac: F	luid Volum	e & Ty	pe slick	water	, Sand:	30,00	0 #20/40 Mesh 0 #10/20 Mesh				
= -						40,00	0 #10/20 Mesh				
Commoni	ite <u>5/ BP</u>	<u>m</u> Brm	rrac :	Pressure F frac flu	id Flowing	I ISIP <u>Va</u>	cuum PSI				
COMMETT	.s pru not	41ve	WOILDING O	THEC ITS	IU. FIOMING	op amidios.					
5				No. 1 .	Perf	(2005					
Press 1	std	PSI.	Spot Acid	d - Type	Ga	llons	BDISIP				
Acid: \	olume & Ty	pe	, #	balls	, Rate	BPM, Press.	PSI				
Frac: f	luid Volum	e & Ty	pe	<u> </u>	, Sand:		Mesh				
Acid: Volume & Type, # balls, RateBPM, Press. PSI Frac: Fluid Volume & Type, Sand: #Mesh Frac RateBPM Frac PressurePSI ISIPPSI Comments											
COmmercia											
		- <u>C</u>	ASIN	G REPA	IR REC	ORD-					
Bankh -	Æ i mali		af a ===		#	au					
Cathod:	c Protecti		or squee:	ses Lednic	te Installed	2x 0200					
		18	** U .	<u></u>			-				
											
Commen	ts Mesaver	de flo	wing up	the 4-1/2"	- 2-3/8" and	nulus. Rena	ired pkr leak				
	and ret										
Prepare	od Byy	Mery.	ZZ Dat	e:// <i>3/17</i>	Verified B	y:	Date:				

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

locs · Incr Will				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 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. Mell 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.	Dawson			P.O. Box 3249, Englewood,	Tenneco Oil Company
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(Date)

Revised 1-1-65

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DAWSON A1

DETERMINATION OF ALLOCATION PERCENTAGES

	DECLINE PERCENTAGE	REMAINING RESERVES				
MESAVERDE	8%	246 MMCF				
DAKOTA	6%	271 MMCF				

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