STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

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

November 7, 1979

Mr. J. M. Lacey
Tenneco Oil Company
Galleria Building
720 South Colorado Blvd.
Denver, Colorado 80222

Re: Order R-6154
Downhole Commingling
Tenneco Oil Company
State Com K #12
E-16-30N-9W

Dear Mr. Lacey:

We agree with your data of October 26, for a production split of the captioned well as follows:

Fruitland - 4% of all gas produced
Pictured Cliffs - 96% of all gas produced; 100% of all oil produced

If there are questions, please contact us.

Yours very truly,

A. R. Kendrick
District Supervisor

xc: Oil Conservation Division, Santa Fe
Gas Transporter - El Paso Natural Gas Company
Oil Transporter - Giant Refining Company
Reading File

ARK:no

Tenneco Oil
A Tenneco Company

Penthouse
720 South Colorado Blvd
Denver Colorado 80222
(303) 758-7130

October 26, 1979

State of New Mexico
Bureau of Mines & Mineral Resources
Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87401

Attention: Mr. A. R. Kendrick

Re: Commingling Order R-6154

Gentlemen:

We propose the following production splits for the commingled wellbores listed below:

	AOF, (MCFD)		Production Split, %	
	Pictured Cliffs	Commingled	Pictured Cliffs	Fruitland
Florance 60R 1-29N-9W San Juan County, N.M.	669	873	77	23
State Com K-12 16-30N-9W San Juan County, N.M.	1016	1060	96	4.

Attached for your perusal are NMOCC forms C-122 for these wells.

Yours very truly,

TENNECO OIL COMPANY

J. M. Lacey
Division Production Manager

JML:BWF:vv
Attachments

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 9-10-79	
Company: Tenneco Oil Company	Connection			
Pool: Blanco	Formation: Pictured Cliff		Unit	
Completion Date: 7/10/79	Total Depth: 3100'	Plug Back TD: 3059'	Elevation	Farm or Lease Name: State Com
Csg. Size: 4 1/2 / Wt. / d / Set At: 3097		Perforations: From 2952 To 2702		Well No.: K-12
Tbg. Size: 1 1/4 / Wt. / d / Set At: 2940		Perforations: From To		Unit: E / Sec.: 16 / Twp.: 30N / Rge.: 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple		Packer Set At: 2930		County: San Juan
Producing Thru	Reservoir Temp. °F: @	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.680						

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					385		795		
1.	2 x 6 x .75				62	72	795	72	3 hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11		74	.9887	1.213	1.0096	986
2.							
3							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.11	532	1.38	.981
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 397 P_c^2 157609

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		74	5476	152133
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0359$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0305$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1016

Absolute Open Flow 1016 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

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NOV 2 1979
OIL CON. COM.
DIST. 3

Approved By Commission:	Conducted By:	Calculated By:	Checked By:

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 9-18-79	
Company: Tenneco Oil Company			Connection		
Pool: Blanco			Formation: Pictured Cliff/Fruitland		Unit
Completion Date: 7/10/79	Total Depth: 3100'		Plug Back TD: 3059'	Elevation	Farm or Lease Name: State Com K
Csg. Size: 4 1/2" / Wt. / d / Set At: 3097			Perforations: From 2952 To 2702		Well No.: 12
Tbg. Size: 1 1/4" / Wt. / d / Set At: 2940			Perforations: From 2938 To 2952		Unit: E / Sec.: 16 / Twp.: 30N / Rge.: 9W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple			Packer Set At: 2930		County: San Juan
Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a		State: New Mexico
L	H	Gg: .680	% CO_2	% N_2	% H_2S / Prover / Meter Run / Taps

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					380		820		
1.	2 x 6 x .75				65	72	172	72	3 hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11		77	.9887	1.213	1.0096	1026
2.							
3							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.12	532	1.08	.981
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c .392 P_c^2 153664

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		77	5929	147735
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.040$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0310$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1060$

Absolute Open Flow 1060 Mcfd @ 15.025 Angle of Slope ↔ _____ Type Gauge 35

Remarks: _____

RECEIVED
NOV 2 1979
OIL CON. COM.
DIST. 3

Approved By Commission	Conducted By:	Calculated By:	Checked By: