



BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

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

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
Florance #60R
L-1-29N-9W

Dear Mr. Lacey:

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

Fruitland - 23% of all gas produced
Pictured Cliffs - 77% 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:

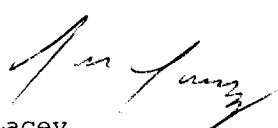
We propose the following production splits for the commingled wellbores listed below:

	AOF, (MCFD)		Production Split, %	
	<u>Pictured Cliffs</u>	<u>Commingled</u>	<u>Pictured Cliffs</u>	<u>Fruitland</u>
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


UML:BWF:vv
Attachments



NEW MEXICO OIL CONSERVATION COM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST, FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-10-79							
Company Tenneco Oil Company				Connection							
Pool Blanco				Formation Pictured Cliff							
Completion Date		Total Depth 3208		Plug Back TD 3150							
Casing Size 4 1/2		Set At 3208		Perforations: From 3078 To 3099							
Tubing Size 2 3/8		Set At 3070		Perforations: From 3019 To 3024							
Type Well - Single - Brockenhead - G.G. or G.O. Multiple				Packer Set At 3070							
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F							
L		H		Baro. Press. - P _a							
		Gg .680		% CO ₂							
				% N ₂							
				% H ₂ S							
				Provor							
				Meter Run							
				Taps							
FLOW DATA TUBING DATA CASING DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	2	x 6	x .75				625		390		
2.							38	72	390	72	3 hours
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mgd				
1.	11		50	.9887	1.213	1.00758	665				
2.											
3.											
4.											
5.											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mol/bbl.						
1.	.07	532	1.38	.985	A.P.I. Gravity of Liquid Hydrocarbons _____ Dens.						
2.					Specific Gravity Separator Gas _____ X X X X X X X X						
3.					Specific Gravity Flowing Fluid _____ X X X X X						
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature _____ R _____ R						
P _f 637 P _w 405760											
NO.	P _f	P _w	P _f ²	P _w ²	(1) $\frac{P_f^2}{P_w^2 - P_f^2} =$	(2) $\left[\frac{P_f^2}{P_w^2 - P_f^2} \right]^n =$					
1.		50	2500	403269	1.0061	669					
2.											
3.											
4.											
5.											
Absolute Core Flow 669					Field @ 15,025 Angle of Slope 45 Slope, n 35						
Remarks:											
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 10-8-79				
Company Tenneco Oil Company				Connection					
Pool Blanco				Formation Pictured Cliff/Fruitland				Unit	
Completion Date		Total Depth 3208		Plug Back TD 3150		Elevation		Farm or Lease Name Florance	
Csg. Size 4 1/2	Wt. d	Set At 3208	Perforations: From 3078 To 3099			Well No. 60R			
Tub. Size 2 3/8	Wt. d	Set At 3070	Perforations: From 3019 To 3024			Unit Sec. Twp. Rge. L 1 29N 9W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At 3070		County San Juan		
Producing Thru		Reservoir Temp. °F p		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .680	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							500		555	
1.	2 x 6 x .75						52		72	66
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	11		64	.9943	1.213	1.0091	857
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	10	526	1.37	.982	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	567	321489	84	7056	314433	1.0224	1.0190
2.							
3.							
4.							
5.							

Absolute Open Flow 873 Mcfd @ 15.025 Angle of Slope ϕ _____
 AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 873

Approved By Commission _____ Conducted By _____ Calculated By _____ Checked By _____
 Remarks: _____

