

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/30/85			
Company Tenneco Oil Company				Connection				
Tool Undesignated				Formation Fruitland/Coal			Unit	
Completion Date		Total Depth 5670		Plug Back TD 5610		Elevation		Farm or Lease Name Moore
Seq. Size 4 1/2	Wt. d	Set At 5670	Perforations: From 2881 To 3066			Well No. 3A		
Log. Size 1 1/4	Wt. d	Set At 3047	Perforations: From To			Unit Sec. Twp. Rge. I 4 30N 8W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 3200		County San Juan		
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L	H	Cg .680	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
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			
1. 2 x 6 x .75				895		1435				
2.				98		562	60			
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		110	1.000	1.213	1.0117	1485
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.	.16	520	1.35	.977						
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1.	1447	574	329476	1764333
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1867$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1717$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1566$

Absolute Open Flow	1717	Mcfd @ 15.025	Angle of Slope @	Slope, n .85
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Remarks:

Approved by Division	Conducted By:	Calculated By:	Checked By:
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