

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/17/85	
Company Tenneco Oil Company				Connection		
Pool Otero				Formation Chacra		Unit
Completion Date		Total Depth 5704		Plug Back TD 5640		Elevation
Farm or Lease Name Michener A						Well No. 7
Csg. Size 4 1/2	Wt. d	Set At 5700	Perforations: From 4063 To 4088		Unit Sec. Twp. Rge. B 33 28 9	
Tng. Size 1 1/4	Wt. d	Set At 4075	Perforations: From To		County San Juan	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At 4250		State New Mexico
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a
L	H	G _g .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.	
1.	2 x 6x .75						770		775	
2.							102		552	52
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		114	1.008	1.213	1.0127	1552
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.17	512	1.33	.975	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 787 P _c ² 619369					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.0558$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.8452$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1		564	318096	301273				
2								
3								
4								
5								

Absolute Open Flow 2863 Mcfd @ 15.025					Angle of Slope @ _____		Slope, n 85	
Remarks:								
Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____								

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-127
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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SI							770		775	
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RATE OF FLOW CALCULATIONS							
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1	11		114	1.008	1.213	1.0127	1552
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.17	512	1.33	.975	1000 151996		0.60	0.60		
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1	787	564	318096	301273
2.				
3.				
4.				
5.				

$$(1) \frac{P_t^2}{P_t^2 - P_w^2} = \frac{2.0558}{1} = 2.0558$$

$$AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2863$$

$$(2) \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = \frac{1.8452}{1} = 1.8452$$

Absolute Open Flow	263	Mcfd @ 15.025	Angle of Slope @	Slope, n	25
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Remarks: