

NEW MEXICO COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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Revision 1-65

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Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-16-76		SEP 23 1976	
Company Bennett and Ryan						Connection None			
Pool land (Morrow)						Formation Morrow		Unit J.C.C.	
Completion Date 9-13-76		Total Depth 11750		Plug Back TD 11715		Elevation 31109 ft.		Farm or Lease Name Tracy Fairway Com.	
Csg. Size 4 1/2"	Wt. 13.5 + 1/16 lb/ft	Set At 11750	Perforations: From 11396 To 11471		Well No. 1		Unit Soc. Twp. Rge. 32 21 27		
Tbg. Size 2 3/8	Wt. 4.7	Set At 11342	Perforations: From To		County Eddy		State New Mexico		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11342		Meter Run	
Producing Thru Tbg. 11342		Reservoir Temp. °F 185		Mean Annual Temp. °F 11342 (Est.) 60		Baro. Press. - P _a 13.2		Taps	
L 11342	H 11342	Gg .606	% CO ₂	% N ₂	% H ₂ S	Prover * = 6" Positive chokes			

6" Positive Ch. FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Pressure Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							3650				24 hr.
1.			3/16	2904		75	2904				1 hr.
2.			1/4	2230		77	2230				1 hr.
3.			3/8	1084		76	1084				1 hr.
4.			7/16	898		78	898				1 hr.
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	.6101		2917.2	.9859	1.285	1.129	2,546
2	1.112		2243.2	.9840	1.285	1.138	3,589
3	2.591		1097.2	.9850	1.285	1.086	3,908
4	3.574		911.2	.9831	1.285	1.071	4,361
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas .606	Specific Gravity Flowing Fluid X X X X X	Critical Pressure 671 P.S.I.A.	Critical Temperature 358 R
1	4.35	535	1.49	.785						
2	3.34	537	1.50	.772						
3	1.64	536	1.50	.848						
4	1.36	538	1.50	.871						
5										

F _c 3663.2 F _w 13419.0				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.125$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.071$	
NO.	F _c ²	P _w	R _c ²	F _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.670$		
1		2956.3	8739.7	4679.3			
2		2336.1	5457.4	7961.6			
3		1313.0	1724.0	11695.0			
4		1220.0	1488.4	11930.6			
5							

Absolute Open Flow 4,670 Mcfd @ 15.025	Angle of Slope 59.75	Slope, n .582
Remarks:		
Approved By Commission:	Conducted By:	Calculated By:
Checked By:		