

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/8/84			
Company Union Texas Petroleum Corp.				Connection Gas Company of New Mexico			
Pool B.S. Mesa Basin				Formation Gallup Dakota		Unit OIL CON. DIV.	
Completion Date 10/15/84		Total Depth 8450		Plug Back TD 8435		Elevation 7297	
Csg. Size 5.500		Wt. 15.50		Set At 4.950		Perforations: From 7412 To 8415	
Trq. Size 2.375		Wt. 4.70		Set At 1.995		Perforations: Open-Ended	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single (Gallup-Dakota Commingled)				Packer Set At NA		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L 8325		H		G _g 0.650		% 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.		Temp. °F
SI	2"		3/4"				1729		1729		7 days
1.							181	59°	809		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		193	1.0010	0.9608	1.020	2341
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
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 _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	1741	821	3,031,081	674,041	2,357,040
2.					
3.					
4.					
5.					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.2860$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2827$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2076$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____ 0.75
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Remarks: _____

Approved By Division	Conducted By: John Rector	Calculated By: Ken Roddy	Checked By:
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