

MULTIPOINT AND ONE POINT BACK-PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/13/84	
Company Union Texas Petroleum Corp.				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota			
Completion Date 10/13/84		Total Depth 6356		Plug Back TD 6276		Elevation 6057	
Farm or Lease Name Richardson		Well No. 6					
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6355	Perforations: From 6142 To 6260		Unit N 10 27N 13W	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6151	Perforations: Open-Ended From To		Unit Sec. Twp. Rge. N 10 27N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NA		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g New Mexico	
L 6139	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"				1139		1812		7 days
1.							12	61°	280		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		24	0.9990	0.9608	1.000	285
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	

P _c 1825	P _c ² 3,326,976		
NO.	P _i ²	P _w	P _w ²
1		292	85,264
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0263$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0196$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 291$$

Absolute Open Flow 291 Mcfd @ 15.025	Angle of Slope @ _____	Slope, n 0.75
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Remarks: _____

Approved By Division	Conducted By: Floyd Woodward	Calculated By: Ken Roddy	Checked By:
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