

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/7/85		RECEIVED					
Company Union Texas Petroleum Corp.		Connection El Paso Natural Gas Company							
Pool Basin		Formation Dakota							
Completion Date 1/17/85		Total Depth 6383		Plug Back TD 6250		Elevation 6011		Farm or Lease Name Richardson	
Csq. Size 4.500	Wt. 10.50	d 4.052	Set At 6377	Perforations: From 6120 To 6211		Well No. 7			
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6141	Perforations: Open-Ended		Unit B		Sec. 3	Twp. 27N
Type Well - Single - Brdhead - G.G. or G.O. Multiple Single				Packer Set At NA		County San Juan			
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L 6129	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"				1285		1280		7 days
1.							37	68°	316		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		49	0.9924	0.9608	1.000	578
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 1297 P _c ² 1,682,209				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		328	107,584	1,574,625
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0683$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0507$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 607$

Absolute Open Flow 607 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 0.75
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Remarks: Condensate production estimated to be 8 bbl. per 24 hours.
Water production estimated to be 15 bbl. per 24 hours.

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