

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/5/82	
Company Union Texas Petroleum Corp.				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 10/26/82		Total Depth 6397		Plug Back TD 6291		Elevation 6054	
Farm or Lease Name Richardson Com.							
Csg. Size 4.500	Wt. 11.60	d 	Set At 6334	Perforations: From 6177 To 6272		Well No. 3-E	
Thq. Size 2.375	Wt. 4.70	d 1.995	Set At 6183	Perforations: Open-Ended From To		Unit Sec. Twp. Rge. D 2 27N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -----		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F 		Baro. Press. - P _g 12	
State New Mexico							
L 6173	H 	Gg 0.700	% 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"				1740		1765		7 Days
1.							280	83°	630		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		292	0.9786	0.9258	1.029	3366
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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 1777 P _c ² 3,157,729				
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²
1		642	412,164	2,745,565
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1501$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1106$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3738$

Absolute Open Flow	3738	Mcfd @ 15.025	Angle of Slope θ	Slope, n 0.75
Remarks: _____				
Approved By Division	Conducted By: Connie Clevenger	Calculated By: Ken Roddy	Checked By:	