

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/27/89	
Company Union Texas Petroleum Corp.				Connection Sunterra Gas Gathering Co.	
Pool Blanco				Formation Mesaverde	
Completion Date 1/14/89		Total Depth 5952		Plug back TD 5924	
				Elevation 6467 GL	
Farm or Lease Name Quinn				Well No. 1A	
Casing Size 4.500		Wt. 23.0		Perforations: From 4943 To 5877	
Casing Size 2.375		Wt. 4.7		Perforations: From Opened To Ended	
Total Depth 5952		Set At 3491		Unit F	
Total Depth 5952		Set At 3296-5944		Sec. 20	
Total Depth 5952		Set At 5828		Twp. 31N	
Total Depth 5952		Set At 5828		Rge. 8W	
Type Well - Single - Brdenhead - G.C. or G.O. Multiple Single - Gas				County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		State New Mexico	
Mean Annual Temp. °F 12		Bare. Press. - P _g 12		Meter Run Taps	
L		H		Prover	
Cg		% CO ₂		% H ₂ S	
.695					

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"				520		537		7 Days
1.							138	52°	467	52°	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 FL	Gravity Factor F _g	Super. Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		150	1.0078	0.9292	1.019	1770
2.							
3.							
4.							
5.							

NO.	P _g	Temp. °R	T _g	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 _g	P _w	P _w ²	P _g ² - P _w ²
1	549	479	229,441	71,960
2.				
3.				
4.				
5.				

(1) $\frac{P_g^2}{P_g^2 - P_w^2} = \frac{4.1884}{}$

AOF = Q $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 5182$

(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = \frac{2.9278}{}$

Absolute Open Flow _____ 5182 _____ Mcfd @ 15.025	Angle of Slope _____	Slope, n _____ 0.75
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Remarks: Made a light mist of oil throughout the test.

Approved By Division	Conducted By: Greg DUNN	Calculated By: John Rector	Checked By:
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