

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 12/1/86	
Company: Union Texas Petroleum Corp.		Connection: El Paso Natural Gas Co.	
Pool: Otero		Formation: Chacra	
Completion Date: 11/22/86	Total Depth: 3105	Plug back TD: 3074	Elevation: 5582' GL
Form or Lease Name: Zachry		Well No. 44	
Cas. Size: 2.875	Wt. 6.5	d 2.441	Set At 3105
Perforations: From 2799 To 2925		Well No. 44	
Perf. Size: None	Wt. d	Set At	Perforations: From To
Unit: I		Sec. 34	Twp. 29N Rye. 10W
Type Well - Single - Broadhead - G.G. or G.O. Multiple		Packer Set At	
Single-Gas		County: San Juan	
Producing Thru Casing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _g 12
State: New Mexico		State: New Mexico	
L 2799	H	G _g 0.660	% 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
1	2"		3/4"						864		7 days
2									221	68%	3 Hours
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 _{sp}	Rate of Flow Q, Mcfd
1	12.3650		233	0.9924	0.9535	1.024	2792
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Dec 05 1986
2					Specific Gravity Separator Gas	XXXXXXXXXX
3					Specific Gravity Flowing Fluid	
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1		233	54,289	713,087	
2					
3					
4					
5					

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0761$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2950$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0565$

Absolute Open Flow: 2950	Mcf @ 15.025	Angle of Slope @	Slope, n: 0.75
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Remarks:

Approved By Division	Conducted By: John C. Rector	Calculated By: John C. Rector	Checked By:
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