

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-18-81			
Company The Estate of J. Glenn Turner				Connection El Paso Natural Gas Company					
Pool Basin				Formation Dakota				Unit	
Completion Date 11-11-81		Total Depth 7043		Plug Back TD 7036		Elevation 5834 GL		Farm or Lease Name Federal-28	
Csg. Size 4.500	Wt. 11.6	d 4.090	Set At 7039	Perforations: From 6882 To 7015		Well No.			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6898	Perforations: From Open To Ended		Unit P	Sec. 28	Twp. 30N	Range 9W
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single						Packer Set At None		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12 psia (est)		State New Mexico	
L	H	G _g .650	% CO ₂	% N ₂	% H ₂ S	Prover	Water 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	7 days						1662		165		
1.	1 inch		7.5	96			96	56°	31		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 Comp. Factor F _{pv}	Rate of Flow Q, Mcfd
1	12.345		108	1.0039	.9608	1.31	13.7
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °F	T _r 800M	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.			687.3	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 1674	P _c ² 280276	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.03867$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02886$
NO.	P _t ²	P _w	P _w ²
1		323	104329
2			
3			
4			
5			

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1339$$

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Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: Slight show of condensate throughout test.

Approved By Division	Conducted By: Joe Ellinger	Calculated By: Joe Ellinger	Checked By: Mr. Bill Spence
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