

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 01-18-84		RECEIVED JAN 23 1984 OIL CON. DIV. DIST. 3		
Company El Paso Natural Gas Company				Connection Northwest Pipeline					
Pool Gobernador				Formation Pictured Cliffs					
Completion Date 01-04-84		Total Depth 6306		Plug Back TD 6289		Elevation 6670 GL		Farm or Lease Name S.J. 30-6 Unit	
Coq. Size 7.000	Wt. 20	d 6.456	Set At 4033	Perforations: From *3697 To 3750			Well No. #89A (PC)		
Trq. Size 1.660	Wt. 2.3	d 1.380	Set At 3751	Perforations: From To			Unit Sec. Twp. Rge. 0 36 30 6		
Type Well - Single - Broadhead - G.G. or G.O. Multiple G.G. Dual					Packer Set At 3820		County Rio Arriba		
Producing Thru TBG		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a 12		State New Mexico	
L	H	Gg .690	% 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							1124		1127		7 days
1.			.750	226		56	226		231		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 Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		238	1.0039	.9325	1.026	2827
2.							
3.							
4.							
5.							

NO.	P _t	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 1139	P _c ² 1297321		
NO.	P _t ²	P _w	P _c ² - P _w ²
1		243	59049
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1297321}{1238272}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0404$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2941$

Absolute Open Flow	2941	Mcf @ 15.025	Angle of Slope @	Slope, n	85
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Remarks: *4,500 Liner 3869' - 6306'

Gas vented during test = 461 MCF

Approved by Division	Conducted By: Gary Gonzales	Calculated By: Ed Mabe	Checked By:
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