

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-15-80	
Company George E. Coleman				Connection El Paso Natural Gas Company		
Pool Bisti				Formation Gallup		Unit
Completion Date 12-13-79		Total Depth 5348		Plug Back TD 5320		Elevation 6804' GL
Csg. Size 4.500		Wt. 10.5	d 4.052	Set At 5340	Perforations: From 5200 To 5231	
Thq. Size 2.375		Wt. 4.7	d 1.995	Set At 5230	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		Well No. #4
Producing Thru Csg.		Reservoir Temp. °F a		Mean Annual Temp. °F		County San Juan
L		H	Gg 0.650	% CO ₂	% N ₂	State New Mexico
				% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							0		315		
1.	2"		0.625						17	54	3 Hrs.
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	8.550		29	1.0058	0.9608	1.004	241
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 _____ °F

P _c 327 P _c ² 106929	
NO.	P _t ² P _w P _w ² P _c ² - P _w ²
1	841 32 1024 105905
2	
3	
4	
5	

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0097$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 243$

(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0072$

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope α _____	Slope, n .75
Remarks _____		

Approved By Commission _____	Conducted By H. E. McAnally _____	Calculated By H. E. McAnally _____	Checked By _____
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