

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-17-81			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company					
Pool Undes.				Formation Fruitland				Unit	
Completion Date 1-19-81		Total Depth 3159		Plug Back TD 3142		Elevation 6422 G.L.		Farm or Lease Name Bolin A	
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 3159	Perforations: From 2778 To 2790		Well No. #2			
Tbg. Size 1.660	Wt. 2.33	d 1.380	Set At 2758	Perforations: From To		Unit Sec. Twp. Rge. C 34 29 8			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple G. G. Dual						Packer Set At 2950		County San Juan	
Producing Thru Csg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.620	% 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							921		921		29 Days
1.	Choke		0.750	98		59	104				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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		110	1.001	0.9837	1.009	1351
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 _____ Deg.	
2.					Specific Gravity Separator Gas _____	
3.					Specific Gravity Flowing Fluid _____	
4.					Critical Pressure _____ P.S.I.A.	
5.					Critical Temperature _____ R	

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0157$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0133$
1		116	13456	857033		
2						
3						
4						
5						

P _c 953 P _c ² 870498				$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1369$	
Absolute Open Flow 1369 Mcfd @ 15.025				Angle of Slope θ _____ Slope, n 0.85	

Remarks: Vented 201 MCF Gas During The Test.			
Approved By Division		Conducted By: Norman Waggoner	Calculated By: H. EA McAnally
		Checked By:	