

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-14-84	
Company Robert L. Bayless		Connection El Paso Natural Gas Co.	
Pool Bisti Farmington Ext.		Formation Farmington	
Completion Date 3-02-84		Total Depth 1450	Plug Back TD 1001
Elevation 6160 G.L.		Farm or Lease Name Blackhills	
Csg. Size 2 7/8"	Wt. 7.9	d 2.323"	Set At 1439
Perforations: From 632 To 704		Well No. 1	
Trg. Size None	Wt. Slim	d Hole	Set At
Perforations: From To		Unit Sec. Twp. Rye. M 25 26 13	
Type Well - Single - Drdendhead - G.C. or G.O. Multiple Single		Packer Set At None	
Producing Thru Casing		County San Juan	
Reservoir Temp. °F #		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P ₀ 12 psia (est)	
L	H	Gg .600	% CO ₂ % N ₂ % H ₂ S
Prover		Meter Run Taps	

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OIL CON. DIV.
DIST. 3

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	12 days								219		
1.	2 inch	1/2		19					19	52°	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, Fpv	Rate of Flow Q, Mcfd
1	5.4315		31	1.0078	1.000	1.001	170
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.R.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 231	P _c ² 53361				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0183$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.01556$
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 172$	
1		31	961	52400		
2						
3						
4						
5						

Absolute Open Flow 172 Mcfd @ 15.025 Angle of Slope 0 Slope, n .85

Remarks: Dry gas-No condensate

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Kevin McCord
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