

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 07/10/82	
Company James Ludwick		Connection El Paso Natural Gas Co.	
Pool Ballard		Formation Pictured Cliff	
Completion Date 06/28/82		Total Depth 2531	Plug Back TD 2505
Elevation 6648 G. L.		Farm or Lease Name Martin-Blackford	
Coq. Size 2.875	Wt. 6.7	Set At 2531	Perforations: From 2450 To 2494
Trq. Size	Wt. Slim	Hole	Perforations: From To
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single		Packer Set At None	County Rio Arriba
Producing Thru Casing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12 psia est.
State New Mexico		Meter Run Taps	
L	H	G _g .650	% CO ₂ % N ₂ % H ₂ S Prover

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.	
SI	12 days								681	
1.	2 inch	750		3					3	60°
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	12.3650		15	1.000	.9608	1.000	178
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.J. 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 693	P _c ² 480249	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00024$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0002$
NO.	P _t ²	P _w	P _w ²
1			115
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 178$

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Absolute Open Flow 178	Mcf/d @ 15.025	Angle of Slope @ _____	Slope, n 85
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Remarks: Dry Gas

Approved by Division	Conducted by: Joe Elledge	Calculated By: Joe Elledge	Checked By: Mr. Bill Martin
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