

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7-10-85				
Company Robert L. Bayless				Connection El Paso natural Gas Company					
Pool Ballard Pictured Cliffs				Formation Pictured Cliffs				Unit OIL CON. DIV. DIST. 3	
Completion Date 6-29-85		Total Depth 2620'		Plug Back TD 2541'		Elevation 6891' G.L.		Farm or Lease Name Jic. 362	
Csq. Size 2-7/8"	Wt. 7.9#	d 2.323	Set At 2600'	Perforations: From 2476' To 2491'		Well No. B#2			
Thg. Size None	Wt. --	d --	Set At --	Perforations: From To		Unit Sec. Twp. Rge. I 7 23 4			
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 psi (est)		State New Mexico	
L	H	G _g .65	% 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	11 days								670		
1.	2" X 1/2"			103					103	60°F	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	5.4315		115	1.000	.9608	1.011	607
2.							
3.							
4.							
5.							

NO.	P _r	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 682	P _c ² 465124			
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		122	14,884	450,240
2				
3		Calculated		
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0331$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 624$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0280$$

Absolute Open Flow 624 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .85
Remarks: _____		

Approved By Division	Conducted By: David Ball	Calculated By: Kevin McCord	Checked By:
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