

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5/7/81			
Company Bixco, Inc.				Connection				
Pool Undesignated Gallup				Formation Gallup				Unit
Completion Date 4/28/81		Total Depth 7597		Plug Back TD 7597		Elevation 6720		Form or Lease Name Trail Canyon
Coq. Size 4 1/2	Wt. 10.5	d 4.025	Set At 7559	Perforations: Open hole From 7559 To 7597			Well No. 2	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 7542	Perforations: From To			Unit H	Sec. Twp. Rge. 18 32N 8W
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single					Packer Set At N.D		County San Juan	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12		State N.M.
L	H	Gg 0.60	% 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.	
SI	2"X6"X3/4						2330		2330	
1.							750	280	2005	
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	11		762	1.032	1.291	1.092	12,195
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.13	488	1.36	0.838						
2.										
3.										
4.										
5.										

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1		2017		4068	1417
2					
3					
4					
5					

P_c 2342 P_c² 5485

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 3.87$

(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.76$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 33.658$

MAY 13 1981

OIL XXXXX XXXXX

DIST. 3

Absolute Open Flow	33,658	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.75
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Remarks: P_c² & P_w² are 10³ psi

Approved By Division	Conducted By:	Calculated By: Alexander	Checked By:
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