

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9/8/87		SEP 15 1987 OIL CON. DIV. DIST. 3	
Company Robert L. Bayless		Connection none			
Pool Undesignated Pictured Cliffs Undesignated Mesa Verde Undesignated Gallup		Formation Pictured Cliffs, Mesa Verde, Gallup		Unit	
Completion Date 8/29/87		Total Depth 8294		Plug back TD 8205	
Elevation 7115' GL		Farm or Lease Name JIC 491			
Csg. Size 7"	Wt. 26#	d 6.276"	Set At 8245	Perforations: From 3452 To 7320	
Trq. Size 2-3/8"	Wt. 4.7#	d 2.375"	Set At 7324	Perforations: From To	
Type Well - Single - Frictionhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At none	
Producing Thru annulus				Reservoir Temp. °F s	
Mean Annual Temp. °F				Baro. Press. - P _a 12.0 (est)	
State New Mexico					
L	H	C _g .65 (est)	% 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	10 days						0		1127		
1.	2" x .750"						0		375	65°	3 hrs.
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	12.3650		387	.9952	.9608	1.039	4754
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 1139		P_c^2 1297321				
NO	P_i^2	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1323$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0977$
1		389	151,606	1145715		
2						
3				(calculated)		
4						
5						

AOF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5218^*$
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Absolute Open Flow 5218* Mcfd @ 15.025 Angle of Slope 0 Slope, n .75

Remarks: *tubing was logged off with water - test taken through casing - tubing annulus - slight mist of fluid throughout test - test is meaningless.

Approved By Division

Conducted By:

Calculated By:

Checked By: