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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Robert L. Bayless					Lease or Unit Name Apache Bend				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-15-93		Well No. 1		
Completion Date 1-8-93		Total Depth 2990		Plug Back TD 2944		Elevation 7324		Unit Ltr. - Sec. - TWP - Rge. I-31-T23N-R2W	
Csg. Size 4 1/2		Wt. 10.5		d 4.052 "		Set At 2990		Perforations: From: 2897 To: 2906	
Tbg. Size 1 1/4		Wt. 2.4		d 1.380 "		Set At 2903		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At None		Formation Pictured Cliffs		
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a 12.0 psia est.		Connection EPNG	
L	H	Gg est. .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	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									
1.	2 inch x .750"					394		408	
2.						89	60 °F	360	
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.	12.3650		101	1.000	1.240	1.014	1570
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.15		1.39	0.973	A.P. I Gravity of Liquid Hydrocarbons	
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	
5.					Critical Temperature	

P _c 420		P _c ² 176,400	
NO.	P _t ²	P _w	P _w ²
1.		372	138,384
2.			
3.			
4.			
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4,6402}{38,016} = 1.2206$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3,6860}{5787} = 0.637$$

Absolute Open Flow 5787	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .85
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Remarks:

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