

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 11/15/83	
Company Amoco Production Company			Connection Gas Company of New Mexico		
Pool Blanco			Formation Measverde		Unit
Completion Date 10/5/83		Total Depth 6087	Plug Back TD 6040	Elevation 6963GL	Farm or Lease Name Jicarilla Apache 102
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6087	Perforations: From 5400 To 5952	Well No. 5A
Tiq. Size 2.375	Wt. 4.7	d 1.995	Set At 5983	Perforations: From Open To Ended	Unit Sec. Twp. Rge. P 4 26 4
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F β	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico
L	H	G _q	% 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	12 Days						725		1111		
1.	2.375		.750				176		657		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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		188	1.000	.9258	1.018	2191
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbon	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		669	447561	813568
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5501$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3044$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3892$

Absolute Open Flow	3044	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:			
Approved By Division	Conducted By: J.J. Barnett	Calculated By: J.J. Barnett	Checked By: