

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special Test Date 12/12/77									
Company Atlantic Richfield Company					Connection None				
Pool Blanco Mesa Verde					Formation Mesa Verde				
Completion Date 12/3/77		Total Depth 5375		Plug Back TD 5321		Elevation 6571 GL		Form or Lease Name Marron WN Fed Com	
Csg. Size 5 1/2"	Wt. 15.5#	d 4.950	Set At 5375	Perforations: From 5190 To 5304		Well No. 6-A			
Tub. Size 2 1/16"	Wt. 3.25#	d 1.751	Set At 5162	Perforations: From To		Unit Sec. Twp. Rge. I 24 27N 8W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple					Packer Set At 5150		County San Juan		
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L 5162	H 5162	Gg 0.755(est)	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run	Paps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover 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							966		Packer		9 days
1.	2"		0.750"	29		49	78		Packer		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 _L	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mscf/d
1	9.453		41	1.011	1.151	1.005	453
2							
3							
4							
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/boil.
1.	0.06	509	1.25	0.990	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas 0.755(est) X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure 667 P.S.I.A. P.S.I.A.
5.					Critical Temperature 408 R R

P _i 978	P _i ² 956484	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0180$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0135$	
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	
1	8100	130	16932	939552	
2					
3					
4					
5					

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 459$

Dist. 3
Slope, n = 0.750

Absolute Open Flow 459	Mscf @ 14.655	Angle of Slope θ
Remarks: Well tested through 48/64" choke		
Approved By Consultant:	Conducted By: C. R. Thompson	Calculated By: C. R. Thompson
		Checked By: