

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

Form C-122

Type Test ☒ Initial ☐ Annual ☐ Special										Test Date Nov 15, 1996	
Company Williams Production Company					Connection						
Pool Blanco					Formation Mesaverde					Unit Rosa	
Completion Date 10-31-96		Total Depth 8138'		Plug Back TD 8113'		Elevation 6505'		Farm or Lease Name Rosa Unit			
Casing Size		Weight d		Set At		Perforations: From To		Well No. 24A			
Tubing Size 1-1/4"		Weight 2.33#		Set at 6133'		Perforations: From 5291' To 6104'		Unit Sec Twp Rng E 32 31N 5W			
Type Well - Single - Bradenhead - GG or GO Multiple					Packer Set At 6250'			County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Barometer Pressure - P _a		State New Mexico			
L	H	Gq .6	%CO ₂		%N ₂		%H ₂ S		Prover 3/4"	Meter Run	Taps

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line	X Orifice Size	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Duration of
SI		2" X 3/4"			891		892		0
1.					481	59°	560		0.5 hr
2.					468	59°	481		1.0 hr
3.					426	59°	457		1.5 hrs
4.					314	60°	401		2.0 hrs
5.					296	62°	363		3.0 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor	Gravity Factor	Super Compress.	Rate of Flow
1.	9.604		308	.9981	1.29	1.030	3923
2.							
3.							
4.							

NO.	P _r	Temp. °R		Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.				Specific Gravity Separator _____ XXXXXX
3.				Specific Gravity Flowing Fluid _____ xxxxx
4.				Critical Pressure _____ p.s.i.a. _____ p.s.i.a.
5.				Critical Temperature _____ R _____ R

P _c 904 p _c ² 817216				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		375	140625	676591
2.				
3.				
4.				

(1) $\frac{P_c^2}{P_c^2 - P_{w2}} = \frac{1.2078}{1.2078 - 1.1521}$

AOF = Q $\left[\frac{P_c}{P_c^2 - P_w^2} \right] = 4520$

(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1521$

Absolute Open Flow 4520 Mcfd @ 15.025		Angle of Slope °		Slope, n .75	
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Remarks:			
Approved By Commission:		Conducted By: C. Charley	
Calculated By: Susan Griguhn		Checked By:	