

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

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 7/19/2002		Well Number #17B				
Completion Date 7/8/2002		Total Depth 8116'		Plug Back TD 8101'		Elevation 6414'		Unit Sec Twp Rng J 20 31N 5W	
Casing Size 5 1/2"		Weight 17#		Set At 8116'		Perforations: 4952' - 5704'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5977'		Perforations: 5749' - 5970'		Pool Blanco MV	
						Packer Set At		Formation MV	
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF			Barometer Pressure - Pa		Connection
L	H	Gq 0.6	%CO2	%N2	%H2S		Prover 3/4"	Meter Run	Taps

FLOW DATA				TUBING DATA		CASING DATA			
NO	Prover Line Size	X Orifice Size	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Pressure p.s.i.q	Temperature oF	Duration of Flow
SI	2" X 3/4"				960	88	965		0
1					270	63	895		0.5 hr
2					255	64	870		1.0 hr
3					265	67	850		1.5 hrs
4					260	71	830		2.0 hrs
5					250	73	805		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (24 Hours)			hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604				262	0.9877	1.29	1.033	3312
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons _____	Deq.
2					Specific Gravity Separator _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	977	Pc2	954529	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		817	667489	287040
2				
3				
4				

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{\underline{3.3254215}}$

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{8156}}$

(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{2.4625498}}$

Absolute Open Flow	8156	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:

Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By:
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