

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 9/13/2001		Well Number #36B				
Completion Date 9/7/2001		Total Depth 6100'		Plug Back TD 6075'		Elevation 6348'		Unit Sec Twp Rng J 11 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6100'		Perforations: 4601' - 5622'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5827'		Perforations: 5667' - 5930'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					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"				1090	61	1080		0
1					310	57	995		0.5 hr
2					290	60	950		1.0 hr
3					280	63	925		1.5 hrs
4					270	64	900		2.0 hrs
5					260	66	865		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd		
1	9.604		272	0.9943	1.29	1.030	3451		
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	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 = 2.816833 Pc2-Pw2		(2) Pc2^n = 2.1743068 Pc2-Pw2	
1092		877	769129	423335				

Absolute Open Flow 7504		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: