

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

RECEIVED
DEC - 1 1999

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 11/14/1999		Well Number #167		
Completion Date 11/7/1999		Total Depth 6680' MD 6099' TVD		Plug Back TD 6600' MD 6019' TVD		Elevation 6334'	
Casing Size 4.5"		Weight 10.5#		Set At 6680'		Perforations: From 5127' To 6159'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6462'		Perforations: From 6184' To 6502'	
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	
Meter Run		Taps		%CO2		%N2	
Prover		3/4"		%H2S			

FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow
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	
SI		2" X 3/4"			1108		1110	0
1					357	57	998	0.5 hr
2					341	59	953	1.0 hr
3					330	60	931	1.5 hrs
4					321	62	909	2.0 hrs
5					312	64	874	3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q,Mcfd
1	9.604					324	0.9962	1.29	1.029	4115
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	1122	Pc2	1258884							

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 = 2.6565011 Pc2-Pw2	(2) Pc2^n = 2.0808104 Pc2-Pw2
1		886	784996	473888		
2						
3						
4						
Absolute Open Flow		8562	Mcf @ 15.025	Angle of Slope	Slope, n 0.75	

Remarks:	
Approved By Commission:	Conducted By: Chic Charley
Calculated By: Tracy Ross	Checked By: David Spitz