

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

RECEIVED
DEC - 9 1999

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 12/4/1999		Well Number #16B		
Completion Date 11/23/1999		Total Depth 5918'		Plug Back TD 5969'		Elevation	
Casing Size 4-1/2"		Weight 10.5#		Set At 5909'		Perforations: From 4264' To 5424'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5694'		Perforations: From 5477' To 5781'	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation MV	
Producing Thr: 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.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF
SI	2" X 3/4"				1027		1028	
1					349	56	887	0.5 hr
2					344	60	836	1.0 hr
3					327	65	801	1.5 hrs
4					316	66	772	2.0 hrs
5					302	68	703	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,Mcf/d
1	9.604					314	0.9924	1.29	1.034	3992
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	1040	Pc2	1081600	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		715	511225	570375
2				
3				
4				
(1) Pc2 = 1.8962963 Pc2-Pw2 (2) Pc2^n = 1.6159564 Pc2-Pw2				
AOF = Q Pc2^n = 6451 Pc2 - Pw2				
Absolute Open Flow		6451	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	