

RECEIVED
SEP 20 1999
OIL CON. DIV.
DIST. 3

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

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 9/2/99		Well Number #165A				
Completion Date 8/21/99		Total Depth 6086'		Plug Back TD 6070'		Elevation 6370' GR		Unit Sec Twp Rng B 25 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6086'		Perforations: From 4488' To 5634'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5870'		Perforations: From 5662' To 5968'		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"			1076		1077		0
1					411	60	976		0.5 hr
2					393	66	927		1.0 hr
3					354	68	896		1.5 hrs
4					341	70	873		2.0 hrs
5					320	71	842		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				332	0.9896	1.29	1.041	4237
2									
3									
4									

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

Pc	1089	Pc2	1185921	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		854	729316	456605
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{2.597258}$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{2.045909}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{8669}$			

Absolute Open Flow	8669	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Chic Charley	Calculated By: Tracy Ross	Checked By: David Spitz