

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

DEC 2000
 13 14 15 16 17 18 19 20 21 22

Operator Williams Production Company					Lease or Unit Name ROSA UNIT				
Test Type X Initial Annual Special			Test Date 11/30/2000		Well Number #358				
Completion Date 11/27/2000		Total Depth 3126'		Plug Back TD 3086'		Elevation 6357'		Unit Sec Twp Rng K 34 32N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 3126'		Perforations: From To		County Rio Arriba	
Tubing Size 2-3/8"		Weight 6.7#		Set At 3102'		Perforations: From To		Pool BASIN	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation FT		
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"				0		1045		0
1					640	63	1030		0.5 hr
2					320	65	840		1.0 hr
3					200	67	780		1.5 hrs
4					130	68	710		2.0 hrs
5					45	69	620		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					57	0.9915	1.29	1.008	706
2										
3										
4										

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

Pc	1057	Pc ²	1117249	
NO	Pt1	Pw	Pw ²	Pc ² -Pw ²
1		632	399424	717825
2				
3				
4				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.5564365		(2) $\frac{P_c^{2n}}{P_c^2 - P_w^2} =$ 1.3935	
AOF = Q $\frac{P_c^{2n}}{P_c^2 - P_w^2} =$ 983			
Absolute Open Flow 983		Mcf @ 15.025	Angle of Slope _____
		Slope, n	0.75

Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: Stergie Katirgis