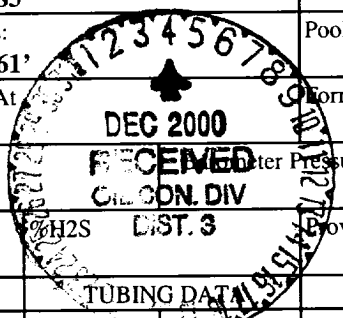


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 11/13/2000		Well Number #85A				
Completion Date 11/7/2000		Total Depth 6702'		Plug Back TD 6550'		Elevation 6564'		Unit Sec Twp Rng B/c 20 31N 5W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6702'		Perforations: 5025' - 6185'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6416'		Perforations: 6211' - 6461'		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		Meter Pressure - Pa		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	COVER 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"				958	51	933		0
1					277	62	857		0.5 hr
2					263	64	808		1.0 hr
3					254	65	778		1.5 hrs
4					247	66	756		2.0 hrs
5					232	67	722		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			244	0.9933	1.29	1.024	3075
2								
3								
4								

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

Pc	945	Pc2	893025
NO	Pt1	Pw	Pw2
1		734	538756
2			
3			
4			

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{2.520754}$

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{6151}$

(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{2.0005428}$

Absolute Open Flow	6151	Mcf/d @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:

Approved By Commission:	Conducted By: Matt Crane	Calculated By: Tracy Ross	Checked By: David Spitz
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