

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 11/5/2000		Well Number #129A				
Completion Date 10/28/2000		Total Depth 6069'		Plug Back TD 6031'		Elevation 6357'		Unit Sec Twp Rng K 34 32N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6069'		Perforations: 5526' - 5568'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5926'		Perforations: 5638' - 5981'		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	Gg 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"			1091	41	1082		0
1					350	58	1001		0.5 hr
2					361	63	956		1.0 hr
3					347	65	926		1.5 hrs
4					301	67	913		2.0 hrs
5					282	66	897		3.0 hrs

RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)		hwPm	Pressure Pm	Flow Temp. Factor FI	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604			294	0.9943	1.29	1.030	3730
2								
3								
4								

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	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	1094	Pc2	1196836	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		909	826281	370555
2				
3				
4				

(1) $Pc2 = 3.2298471$		(2) $Pc2^n = 2.4092756$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 8987$			
$Pc2 - Pw2$			

Absolute Open Flow 8987		Mcf @ 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