

30-039-24625

**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 10/22/2004		Well Number 129B				
Completion Date 10/17/2004		Total Depth 6575'		Plug Back TD		Elevation 6360'		Unit M	
Casing Size 4-1/2"		Weight 10.5#		Set At 6475'		Perforations: 5760' - 5910'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6349'		Perforations: 5992' - 6346'		Pool Blanco	
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"			917	44	1080		0
1					357	58	900		0.5 hr
2					270	62	852		1.0 hr
3					262	60	835		1.5 hrs
4					252	61	817		2.0 hrs
5					238	61	787		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				250	0.999	1.29	1.025	3172
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	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	1092	Pc2	1192464	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		799	638401	554063
2				
3				
4				

(1) $Pc2 = 2.1522173$		(2) $Pc2^n = 1.7769066$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = 5636$			

Absolute Open Flow 5636		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:

Approved By Commission:	Conducted By: Mike Gurule	Calculated By: Tracy Ross	Checked By:
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