

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

30-039-29290

Operator Williams Production Company					Lease or Unit Name Indian I				
Test Type X Initial Annual Special			Test Date 6/1/2005		Well Number #4				
Completion Date 5/16/2005		Total Depth 6364'		Plug Back TD		Elevation 6949'		Unit Sec Twp Rng D 34 28N 03W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6360'		Perforations: 5578' - 5818'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 6093'		Perforations: 5907' - 6067'		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"				1020	75	1565		0
1					415	63	1200		0.5 hr
2					379	65	1150		1.0 hr
3					365	66	1140		1.5 hrs
4					360	68	1135		2.0 hrs
5					355	68	1130		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					367	0.9924	1.29	1.040	4693
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 _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	1577	Pc2	2486929
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NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1		1142	1304164	1182765	2.10264	1.7461184
2						
3						
4						

Absolute Open Flow		8194	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Tommy Clements	Calculated By: Tracy Ross	Checked By: