

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

30-039-29289

Operator Williams Production Company					Lease or Unit Name Indian H				
Test Type X Initial Annual Special			Test Date 6/9/2005		Well Number #3				
Completion Date 5/24/2005		Total Depth 6433'		Plug Back TD 6403'		Elevation 7045'		Unit Sec Twp Rng J 15 28N 03W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6427'		Perforations: 5688' - 5894'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 6181'		Perforations: 5936' - 6156'		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"			330	81	1620		0
1					479	65	1150		0.5 hr
2					380	64	1090		1.0 hr
3					320	65	1030		1.5 hrs
4					300	64	1000		2.0 hrs
5					280	61	950		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				292	0.999	1.29	1.025	3704
2									
3									
4									

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

Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1632					1.5324825	1.3773574
1		962	925444	1737980		
2						
3						
4						

Absolute Open Flow 5102		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
--------------------------------	--	----------------	----------------------	----------------------

Remarks:			
Approved By Commission:	Conducted By: Tommy Clements	Calculated By: Tracy Ross	Checked By: