

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

Operator Williams Production Company				Lease or Unit Name Resa Unit			
Test Type X Initial Annual Special			Test Date 10/18/2000		Well Number #6Y		
Completion Date 10/17/2000		Total Depth 6557'		Plug Back TD 6500'		Elevation 6785'	
Casing Size 4-1/2"		Weight 10.5#		Set At 6557'		Perforations: 4924' - 6066'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6369'		Perforations: 6100' - 6414'	
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	
Meter Run		Taps		Prover 3/4"		Prover	
Gq 0.6		%CO2		%N2		%H2S	

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"			863	82	841		0
1					199	66	714		0.5 hr
2					187	68	657		1.0 hr
3					177	69	612		1.5 hrs
4					170	69	578		2.0 hrs
5					159	69	531		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		171	0.9915	1.29	1.019	2140
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	853	Pc2	727609				
NO	Ptl	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$	
1		543	294849	432760	1.6813222		1.4765162
2							
3							
4							

Absolute Open Flow 3160				Mcfd @ 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