

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

Operator Williams Production Company					Lease or Unit Name Cox Canyon Unit				
Test Type X Initial Annual Special			Test Date 2/12/2002		Well Number #3B				
Completion Date 2/2/2002		Total Depth 6050'		Plug Back TD 6027'		Elevation 6586'		Unit Sec Twp Rng J 9 32N 11W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6050'		Perforations: 4807' - 5509'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5867'		Perforations: 5539' - 5905'		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"			540	44	540		0
1					200	66	515		0.5 hr
2					200	71	500		1.0 hr
3					200	74	490		1.5 hrs
4					200	75	485		2.0 hrs
5					195	77	480		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					207	0.984	1.29	1.031	2602
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 xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	552	Pc2	304704	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		492	242064	62640
2				
3				
4				

(1) $Pc2 = 4.8643678$		(2) $Pc2^n = 3.2754412$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 8522$		$Pc2 - Pw2$	

Absolute Open Flow	8522	Mcf @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: