

30-045-32024

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

OCT 2006

Operator Williams Production Company					Lease or Unit Name New Mexico 32-11 Com				
Test Type X Initial Annual Special			Test Date 9/23/2005		Well Number #1B				
Completion Date 9/2/2005		Total Depth 8062'		Plug Back TD		Elevation 6628'		Unit Sec Twp Rng J 20 32N 11W	
Casing Size 5-1/2"		Weight 17#		Set At 7723'		Perforations: 5234' - 5499'		County San Juan	
Tubing Size 2-1/16"		Weight 3.25#		Set At 5923'		Perforations: 5582' - 5914'		Pool Blanco	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6010'		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.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI		2" X 3/4"			459	69	461		0
1					132	62	439		0.5 hr
2					130	66	431		1.0 hr
3					129	68	428		1.5 hrs
4					129	70	421		2.0 hrs
5					128	71	414		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				140	0.9896	1.29	1.016	1744
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	473	Pc2	223729	
NO	Ptl	Pw	Pw2	Pc2-Pw2
1		426	181476	42253
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} =$ 5.294985		(2) $\frac{Pc2^n}{Pc2-Pw2} =$ 3.4905877	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} =$ 6087			

Absolute Open Flow 6087		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Ron Cornett	Calculated By: Tracy Ross	Checked By: