

30-045-32804

SEP 2005

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

Operator Williams Production Company					Lease or Unit Name New Mexico 32-11				
Test Type ☒ Initial ☐ Annual ☐ Special			Test Date 8/4/2005		Well Number #1C				
Completion Date 7/23/2005		Total Depth 8069'		Plug Back TD 8040'		Elevation 6639'		Unit Sec Twp Rng L 20 32N 11W	
Casing Size 5-1/2"		Weight 17#		Set At 7767'		Perforations: 7781' - 7998'		County San Juan	
Tubing Size 2-1/16"		Weight 3.25#		Set At 7549'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6000'		Formation DK			
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"				2530	90	2530		0
1					820	41.3	1940		0.5 hr
2					140	61	445		1.0 hr
3					130	65.7	365		1.5 hrs
4					120	69	330		2.0 hrs
5					110	71.4	300		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				122	0.9896	1.29	1.016	1520
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.	
5					Critical Temperature _____ R	

Pc	2542	Pc2	6461764
NO	Pt1	Pw	Pw2
1		312	97344
2			
3			
4			

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{\underline{1.015295}}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{1.0114495}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{1537}}$			

Absolute Open Flow	1537	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Walt Snyder	Calculated By: Tracy Ross	Checked By: