

RCVD FEB9'07

OIL CONS. DIV.

DIST. 3

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

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type ☒ Initial ☐ Annual ☐ Special			Test Date 1/23/2007		Well Number (API #) #167C (API # 30-045-33895)				
Completion Date 1/11/2007		Total Depth 6538'		Plug Back TD 6497'		Elevation 6379'		Unit Sec Twp Rng D 8 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6518'		Perforations: 5857' - 6166'		County San Juan	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6479'		Perforations: 6204' - 6460'		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"				770	65	829		0
1					176	61	598		0.5 hr
2					155	62	544		1.0 hr
3					143	63	514		1.5 hrs
4					138	64	500		2.0 hrs
5					130	66	473		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				142	0.9943	1.29	1.014	1774
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	841	Pc2	707281	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		485	235225	472056
2				
3				
4				

(1) $Pc2 = 1.4982989$		(2) $Pc2^n = 1.35425$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 2402$			
$Pc2 - Pw2$			

Absolute Open Flow	2402	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Ben Mitchell	Calculated By: Tracy Ross	Checked By: