

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

REC'D NOV 15 2006
 OIL CON. DIV.
 DIST. 3-1510

Operator Williams Production Company					Lease or Unit Name Rosa Unit						
Test Type ☒ Initial ☐ Annual ☐ Special			Test Date 11/9/2006		Well Number #75C (API # 30-045-33947)						
Completion Date 10/8/2006		Total Depth 6515'		Plug Back TD		Elevation 6294'		Unit L	Sec 10	Twp 31N	Rng 6W
Casing Size 4-1/2"		Weight 10.5#	d	Set At 6515'	Perforations: 5370' - 6032'			County San Juan			
Tubing Size 2-3/8"		Weight 4.7#	d	Set At 6337'	Perforations: 6058' - 6322'			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"				1128	53	1128		0
1					398	32	1120		0.5 hr
2					396	36	938		1.0 hr
3					373	38	891		1.5 hrs
4					341	38	855		2.0 hrs
5					317	39	814		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					329	1.0208	1.29	1.027	4273
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	1140	Pc2	1299600	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		826	682276	617324
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} =$ 2.1052154		(2) $\frac{Pc2^n}{Pc2-Pw2} =$ 1.7477222	
$AOF = Q \frac{Pc2^n}{Pc2 - Pw2} =$ 7468			

Absolute Open Flow 7468		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:
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8/15