

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

RECEIVED
DEC - 6 1999
OIL CON. DIV.

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 11/27/1999		Well Number #20C				
Completion Date 11/18/1999		Total Depth 6014'		Plug Back TD 5938'		Elevation 6235' GR		Unit Sec Twp Rng J 14 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6006'		Perforations: From 5318' To 5532'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5744'		Perforations: From 5555' To 5804'		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"				822		824		0
1					242	63	811		0.5 hr
2					239	63	749		1.0 hr
3					241	66	743		1.5 hrs
4					237	66	718		2.0 hrs
5					230	70	688		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				242	0.9905	1.29	1.028	3053
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	Deq.
2					Specific Gravity Separator _____	XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	836	Pc2	698896
NO	Pt1	Pw	Pw2
1		700	490000
2			
3			
4			

(1) $Pc2 = 3.3456648$		(2) $Pc2^n = 2.4737843$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 7552$			
$Pc2 - Pw2$			

Absolute Open Flow 7552		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:

Approved By Commission:	Conducted By: Chic Charley	Calculated By: Tracy Ross	Checked By: David Spitz
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