

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

DECEIVED
DEC - 2 1999

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 11/28/1999		Well Number #180		
Completion Date 11/19/1999		Total Depth 6150'		Plug Back TD 6100'		Elevation 6402' GR	
Casing Size 4 1/2"		Weight 10.5#		Set At 6150'		Perforations: From 4502' To 5660'	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5953'		Perforations: From 5694' To 5999'	
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	
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
SI	2" X 3/4"				1030		1031	
1					366	58	890	0.5 hr
2					351	60	842	1.0 hr
3					330	63	816	1.5 hrs
4					321	66	785	2.0 hrs
5					299	70	731	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					311	0.9905	1.29	1.041	3973
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 _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1		743	552049	535800	2.0303266	1.700883
2						
3						
4						

Absolute Open Flow 6757		Mcf @ 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