

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

RECEIVED
AUG 23 1999
OIL CON. DIV.
DIST. 3

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 8/15/99		Well Number #162A		
Completion Date 8/7/99		Total Depth 6111'		Plug Back TD 6053'		Elevation 6394'	
Casing Size 4-1/2"		Weight 10.5#		Set At 6111'		Perforations: From 4375' To 5620'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5899'		Perforations: From 5640' To 5922'	
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	
Taps		Meter Run		Prover		3/4"	
		0.6		%CO2		%N2	
				%H2S			

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"			1040		1042		0		
1					391	62	922		0.5 hr		
2					370	65	867		1.0 hr		
3					351	68	854		1.5 hrs		
4					339	70	842		2.0 hrs		
5					321	71	752		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
1	9.604					333	0.9896	1.29	1.042
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

Pc	1054	Pc2	1110916						
NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 =	2.1071204	(2) Pc2^n =	1.7489082	
1		764	583696	527220	Pc2-Pw2		Pc2-Pw2		
2									
3									
4									
Absolute Open Flow					7440		Mcf @ 15.025		
Angle of Slope							Slope, n		
							0.75		

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