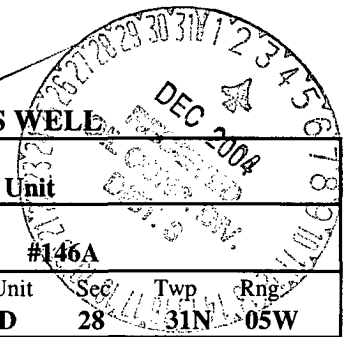


30-039-27686

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



Operator <b>Williams Production Company</b>				Lease or Unit Name <b>Rosa Unit</b>			
Test Type <b>X Initial      Annual      Special</b>			Test Date <b>11/23/2004</b>		Well Number <b>#146A</b>		
Completion Date <b>11/9/2004</b>		Total Depth <b>6227'</b>		Plug Back TD <b>6203'</b>		Elevation <b>6425'</b>	
Casing Size <b>4-1/2"</b>		Weight <b>10.5#</b>		Set At <b>6225'</b>		Perforations:	
Tubing Size <b>2-3/8"</b>		Weight <b>4.7#</b>		Set At <b>6100'</b>		Perforations:	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation <b>MV</b>	
Producing Thru <b>Tubing</b>		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa	
Connection		L		H		Gq	
%		CO2		N2		H2S	
Prover		Meter Run		Taps			
<b>3/4"</b>							

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"			475	47	1115	
1					288	66	1025	0.5 hr
2					280	66	972	1.0 hr
3					265	66	935	1.5 hrs
4					260	66	925	2.0 hrs
5					247	67	875	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				259	0.9933	1.29	1.03
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 xxxxxxxxx	
4					Critical Pressure p.s.i.a.	p.s.i.a.
5					Critical Temperature R	R

Pc	1127	Pc2	1270129	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		887	786769	483360
2				
3				
4				
(1) $\frac{Pc2}{Pc2-Pw2} = 2.6277081$ (2) $\frac{Pc2^n}{Pc2-Pw2} = 2.0638724$ AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = 6776$				
Absolute Open Flow		6776	Mcf @ 15.025	Angle of Slope
				Slope, n
				0.75

Remarks:			
Approved By Commission:	Conducted By: Terry Gomez	Calculated By: Tracy Ross	Checked By: