

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

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 10/11/2000		Well Number #188A		
Completion Date 10/10/2000		Total Depth 6554'		Plug Back TD 6450'		Elevation 6792'	
Casing Size 4-1/2"		Weight 10.5#		Set At 6554'		Perforations: 5035' - 6065'	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6307'		Perforations: 6089' - 6228'	
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	Duration of Flow
SI		2" X 3/4"			680	69	706		0
1					201	66	638		0.5 hr
2					201	68	602		1.0 hr
3					196	69	576		1.5 hrs
4					190	69	556		2.0 hrs
5					182	67	529		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		194	0.9933	1.29	1.019	2433
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	718	Pc2	515524	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		541	292681	222843
2				
3				
4				

(1) $P_{c2} = \underline{2.3133955}$ (2) $\frac{P_{c2}^n}{P_{c2}-P_{w2}} = \underline{1.8758038}$

AOF = Q $\frac{P_{c2}^n}{P_{c2}-P_{w2}} = \underline{4563}$

Absolute Open Flow	4563	Mcf/d @ 15.025	Angle of Slope	Slope, n	0.75
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Remarks:	
Approved By Commission:	Conducted By: Matt Crane
Calculated By: Tracy Ross	Checked By: David Spitz