

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

RECEIVED
 NOV - 8 1999
 OIL CON. DIV.
 DIST. 3

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 10/24/99		Well Number #60				
Completion Date 10/15/99		Total Depth 6213'		Plug Back TD 6192'		Elevation 6490'		Unit Sec Twp Rng L 04 31N 6W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6212'		Perforations: From 4532' To 5691'		County San Juan	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6096'		Perforations: From 5718' To 6142'		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"				1090		1092		0
1					390	59	978		0.5 hr
2					381	60	920		1.0 hr
3					369	61	887		1.5 hrs
4					364	63	862		2.0 hrs
5					339	64	840		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor FI	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					351	0.9962	1.29	1.029	4458
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	1104	Pc2	1218816	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		852	725904	492912
2				
3				
4				

(1) $\frac{Pc2}{Pc2 - Pw2} = \frac{2.4726848}{Pc2 - Pw2}$ (2) $\frac{Pc2^n}{Pc2 - Pw2} = \frac{1.9718622}{Pc2 - Pw2}$

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \frac{8790}{Pc2 - Pw2}$

Absolute Open Flow	8790	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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