

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

RECEIVED
OIL CON. DIV.
#169
2 2 1999

Operator Williams Production Company					Lease or Unit Name Rosa Unit						
Test Type X Initial Annual Special			Test Date 7/18/99		Well Number						
Completion Date 7/2/99		Total Depth 6080'		Plug Back TD 6058'		Elevation		Unit J	Sec. 36	Twp 31N	Rng 6W
Casing Size 9-5/8"		Weight 36#	d	Set At 516'	Perforations: From 4446' To 5613'			County Rio Arriba			
Tubing Size 2-3/8"		Weight 4.7#	d	Set At 5922'	Perforations: From 5635' To 5978'			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"				1102		1115		0
1					381	59	1022		0.5 hr
2					320	62	968		1.0 hr
3					318	68	931		1.5 hrs
4					307	70	908		2.0 hrs
5					334	70	844		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					346	0.9905	1.29	1.041	4420
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	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	1127	Pc2	1270129	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		856	732736	537393
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} =$ 2.3635012		(2) $\frac{Pc2^n}{Pc2-Pw2} =$ 1.906193	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} =$ 8425			

Absolute Open Flow	8425	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
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