

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Operator WILLIAMS PRODUCTION COMPANY										Lease or Unit Name ROSA UNIT	
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 8-13-1998			Well Number #72A			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rnn K 6 31N-51W			
Casing Size		Weight	d	Set At	Perforations: From To			County			
Tubing Size		Weight	d	Set at	Perforations: From To			Pool BLANCO			
Type Well - Single - Bradenhead - GG or GO Multiple				Packer Set At				Formation MESAVERDE			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Barometer Pressure - P _a		Connection			
L	H	Gq .6	%CO ₂	%N ₂	%H ₂ S	Prover 3/4"	Meter Run	Taps			

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover X Line Size	Orifice Size	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Duration Of Flow Flow
SI		2" X 3/4"			984		942		0
1					368	66°	890		0.5 hr
2					361	69°	862		1.0 hr
3					353	70°	833		1.5 hrs
4					341	72°	818		2.0 hrs
5					331	74°	788		3.0 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FI	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.604		343	.9868	1.29	1.039	4357
2							
3							
4							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator	
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	p.s.i.a.
5.					Critical Temperature	R

P _c 954 P _c ² 910116				
NO.	P _i ¹	P _w	P _w ²	P _c ² - P _w ²
1.		800	640,000	270,116
2.				
3.				
4.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3694$ (2) $\frac{P_c^2}{P_c^2 - P_w^2} \cdot n = 2.4869$

$P_c^2 - P_w^2$

AOF = Q $\frac{P_c^2}{P_c^2 - P_w^2} \cdot n = 10.835$

$P_c^2 - P_w^2$

Mcf/bbl.

Deq.

XXXXXX

p.s.i.a.

R

Absolute Open Flow 10.835 Mcfd @ 15.025		Angle of Slope =		Slope, n .75	
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Remarks:			
Approved By Commission:	Conducted By:	Calculated By: Susan Griguin	Checked By: