

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator WILLIAMS PRODUCTION COMPANY						Lease or Unit Name ROSA UNIT					
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-8-1998				Well Number #44			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rng K 35 32N 6W			
Casing Size		Weight d		Set At		Perforations: From To		County RIO ARRIBA			
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 Line Size	X 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
SI		2" X 3/4"			1028		1030		0
1					402	55°	963		0.5 hr
2					396	60°	941		1.0 hr
3					384	61°	918		1.5 hrs
4					378	62°	902		2.0 hrs
5					364	63°	871		3.0 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _I	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q Mcfd
	9.604		376	.9971	1.29	1.034	4803
1							
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	XXXXXX
3.					Specific Gravity Flowing Fluid	xxxxx
4.					Critical Pressure	p.s.i.a.
5.					Critical Temperature	R

RECEIVED
 JUL 20 1998
 OIL CON. DIV.
 DIST. 3

$P_c = 1042$ $P_c^2 = 1085764$			
NO.	P _i ¹	P _w	P _w ²
1.		883	779,689
2.			
3.			
4.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.5474$ (2) $\frac{P_c^2}{P_c^2 - P_w^2}^n = 2.5848$

$P_c^2 - P_w^2$ $[P_c^2 - P_w^2]$

AOF = Q $\frac{P_c^2}{P_c^2 - P_w^2}^n = 12,415$

$[P_c^2 - P_w^2]$

Absolute Open Flow 12.415 Mcfd @ 15.025		Angle of Slope =		Slope, n .75	
--	--	------------------	--	---------------------	--

Remarks:			
Approved By Commission:	Conducted By:	Calculated By: Susan Griguhn	Checked By: