Form C-122

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

RECEIVED
AUG 13 1998
OIL CON. DIV.

Operator: WILLIAMS PRODUCTION COMPANY						Lease or Unit Name: ROSA UNIT		
Type Test: X Initial ☐ Annual ☐ Special			Test Date: 7-30-1998			Well Number: #91A		
Completion Date	Total Depth		Plug Back TD		Elevation	Unit: J	Sec: 35	Twp: 32N Rng: 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	$\%CO_2$	$\%N_2$	$\%H_2S$	Prover: 3/4"	Meter Run	Taps

	FLOW DATA			TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F	Pressure p.s.i.g.	Temperature °F	Duration Of Flow Flow
SI	2" X 3/4"			1060		1060		0
1				397	62°	938		0.5 hr
2				382	66°	902		1.0 hr
3				371	68°	872		1.5 hrs
4				323	70°	852		2.0 hrs
5				351	74°	826		3.0 hrs

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q Mcfd
1	9.604		363	.9868	1.29	1.048	4651
2							
3							
4							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ration _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator _____ XXXXXX
Specific Gravity Flowing Fluid xxxxx
Critical Pressure _____ p.s.i.a. ___ p.s.i.a.
Critical Temperature _____ R ___ R

P_c 1072 P_c^2 1149184

NO.	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1.		838	702,244	446,940
2.				
3.				
4.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.5712 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.0305

AOF = $Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 9444

Absolute Open Flow 9444 Mcfd @ 15.025 | Angle of Slope ∋ _____ | Slope, n .75

Remarks:

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