

20-045-27600

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

Operator Williams Production Company					Lease or Unit Name ROSA UNIT				
Test Type X Initial Annual Special			Test Date 10/29/98		Well Number #139A				
Completion Date 10/20/98		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rng M 17 31N 6W	
Casing Size		Weight d		Set At		Perforations: From To		County SAN JUAN	
Tubing Size		Weight d		Set At		Perforations: From To		Pool BLANCO	
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"				980		986		0
1					362	60	871		0.5 hr
2					344	62	824		1.0 hr
3					331	64	798		1.5 hrs
4					322	65	770		2.0 hrs
5					304	68	734		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					316	0.9924	1.29	1.034	4017
2										
3										
4										
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration					Mcft/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons					Deq.
2					Specific Gravity Separator					
3					Specific Gravity Flowing Fluid					XXXXXX
4					Critical Pressure p.s.i.a.					p.s.i.a.
5					Critical Temperature R					R
Pc	998	Pc ²	996004							
NO	Ptl	Pw	Pw ²	Pc ² -Pw ²	(1) Pc ² = 2.2662826 (2) Pc ^{2^n} = 1.8471					
1		746	556516	439488	Pc ² -Pw ²					
2										
3					AOF = Q Pc ^{2^n} = 7420					
4					Pc ² - Pw ²					
Absolute Open Flow		7420	Mcfd @ 15.025		Angle of Slope			Slope. n 0.75		

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