

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

RECEIVED
AUG 16 1999
OIL CON. DIST. 3

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 8/8/99		Well Number #162				
Completion Date 7/29/99		Total Depth 6111'		Plug Back TD 6047'		Elevation 6352'		Unit Sec Twp Rng K 30 31N 5W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6111'		Perforations: From 5145' To 5618'		County La Plata	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5860'		Perforations: From 5669' To 5914'		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"			1048		1052		0
1					391	59	978		0.5 hr
2					384	63	953		1.0 hr
3					376	68	901		1.5 hrs
4					365	69	878		2.0 hrs
5					348	71	847		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (24 Hours)			hwPm	Pressure Pm	Flow Temp. Factor Ff	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604				360	0.9896	1.29	1.047	4621
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocabrons	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	1064	Pc2	1132096
NO	Pt1	Pw	Pw2
1		859	737881
2			
3			
4			

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{2.871773}$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{2.2060359}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{10194}$			

Absolute Open Flow 10194		Mcf @ 15.025	Angle of Slope	Slope, n 0.75
---------------------------------	--	--------------	----------------	----------------------

Remarks:

Approved By Commission:	Conducted By: Chic Charley	Calculated By: Tracy Ross	Checked By: David Spitz
-------------------------	--------------------------------------	-------------------------------------	-----------------------------------