

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special										Test Date August 26, 1997	
Company Williams Production Company					Connection						
Pool Basin					Formation Fruitland					Unit Rosa	
Completion Date 8-11-97		Total Depth 3167'		Plug Back TD 3123'		Elevation		Farm or Lease Name Rosa Unit			
Casing Size		Weight	d	Set At	Perforations: From To			Well No. 332			
Tubing Size 2-3/8"		Weight	d	Set at 3122'	Perforations: From 2950' To 3117'			Unit K	Sec 22	Twp 31N	Rng 6W
Type Well - Single - Bradenhead - GG or GO Multiple				Packer Set At				County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Barometer Pressure - P_a		State New Mexico			
L	H	Gq .6	%CO₂	%N₂	%H₂S	Prover 3/4"	Meter Run	Taps			

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover X Line	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
SI		2" X 3/4"			597		1292		0
1.					104	58°	381		0.5 hr
2.					54	60°	242		1.0 hr
3.					22	61°	199		1.5 hrs
4.					27	61°	247		2.0 hrs
5.					20	61°	204		3.0 hrs

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor	Gravity Factor	Super Compress.	Rate of Flow
1.	9.604		32	.9990	1.29	1.003	397
2.							
3.							
4.							

NO.	P_r	Temp. °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. p.s.i.a.
5.				Critical Temperature _____ R R

P_c 1304 P_c² 1,700,416			
NO.	P₁	P_w	P_w²
1.		216	46,656
2.			
3.			
4.			

(1) $\frac{P_c^2}{P_c^2 - P_{w2}} = 1.0282$ (2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0211$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = 405$	

Absolute Open Flow 405 Mcfd @ 15.025	Angle of Slope ° _____	Slope, n .75
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Remarks:			
Approved By Commission:	Conducted By: C. Charley	Calculated By: Susan Griguin	Checked By: