

3 - NMCD

1 - McHugh

1 - EPNG, Clark

1 - File

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87504

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date									
Company				Jerome P. McHugh								Connection					
Pool				Pictured Cliffs								Unit					
Completion Date				Total Depth				Plug Back TD				Elevation				Farm or Lease Name	
July 6, 1981				2680				2650				7279				Puppa Manche	
Csg. Size		Wt.		d		Set At		Perforations		From		To		Well No.			
4 1/2"		10.5#				2670		2588'				2606'		5			
Tub. Size		Wt.		d		Set At		Perforations		From		To		Unit Sec. Twp. Rge.			
1 1/4"		2.4#				2584								B 35 24N 1W			
Type Well - Single - Brodenhead - G.G. or G.O. Multiple										Packer Set At		County					
Single												Rio Arriba					
Producing thru tubing				Reservoir Temp. °F				Mean Annual Temp. °F				Baro. Press. - P _a				State	
																New Mexico	
L		H		Gg		% CO ₂		% N ₂		% H ₂ S		Prover		Meter Run		Taps	
				.62													
FLOW DATA										TUBING DATA		CASING DATA		Duration of Flow			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F					
1.													7 days				
2.																	
3.	3/4" positive choke			33		63 ⁰					263	63 ⁰	3 hours				
4.																	
5.																	
RATE OF FLOW CALCULATIONS																	
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd										
1.																	
2.																	
3.	12.365		45	.9971	.9837	1.007	546										
4.																	
5.																	
NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		Mcf, obl.										
1.					A.P.L. Gravity of Liquid Hydrocarbons		Deg.										
2.					Specific Gravity Separator		XXXXXX										
3.					Specific Gravity Flowing Fluid		XXXXXX										
4.					Critical Pressure		P.S.I.A.										
5.					Critical Temperature		R										
$P_c = 721, P_c^2 = 519,841$ $(1) \frac{P_c^2}{P_e^2 - P_c^2} = 1.1702$ $(2) \left[\frac{P_c^2}{P_e^2 - P_c^2} \right]^{.85} = 1.1430$ $Q_{OG} = Q \left[\frac{P_e^2}{P_e^2 - P_c^2} \right]^n = 628$																	
NO.	P ₁	P _e	P _w	P _e ² - P _w ²													
1.																	
2.																	
3.		275	75625	444,216													
4.																	
5.																	
Absolute Open Flow					624		Mcf/d @ 15.025										
Angle of Slope					n		.85										
Remarks: Making moderate mist of water!																	
Conducted By			Calculated By			Checked By											

