

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-2-83		AUG 4 1982			
Company PETROLEUM CORP. OF DELAWARE		Connection El Paso Natural Gas Company		O. C. D.			
Pool East Burton Flat		Formation Strawn		ARTESIA, OFFICE			
Completion Date 4-1-82		Total Depth 11,600		Plug Back TD 11,559			
Elevation		Farm or Lease Name Superior		Well No. 6			
Casing Size 4 1/2		WT. 12.70		d 3.958			
Set At 10,600		Perforations: From 10,282 To 10,294		Well No. 6			
Thru Size 2 3/8		WT. 4.70		d 1.995			
Set At 10,753		Perforations: From To		Unit N			
Type of Well - Single - Bradenhead - G.C. or G.O. Multiple Dual		Packer Set At 10,710		County Eddy			
Producing Thru Casing		Reservoir Temp. °F 176 @ 10,282		Mean Annual Temp. °F 60°			
Baro. Press. - P _g 13.2		State New Mexico					
L 10,282		H 10,282		G _g .626			
% CO ₂ .80		% N ₂ .38		% H ₂ S			
Prover		Meter Run 4.027		Taps Flg.			
FLOW DATA							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w		
1.	4	X	.750	498	2.56		
2.	4	X	.750	493	6.76		
3.	4	X	.750	494	17.64		
4.	4	X	.750	497	35.40		
5.	4	X	.750	498	90.25		
TUBING DATA							
				Press. p.s.i.g.	Temp. °F		
CASING DATA							
				Press. p.s.i.g.	Temp. °F		
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, Mcd
1	2.661	36.18	511.2	.9768	1.264	1.041	123
2	2.661	58.50	506.2	.9759	1.264	1.040	199
3	2.661	94.59	507.2	.9759	1.264	1.040	323
4	2.661	134.39	510.2	.9723	1.264	1.039	456
5	2.661	214.79	511.2	.9777	1.264	1.041	735
Gas Liquid Hydrocarbon Ratio _____ dry _____ Mcd/bbl.							
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.							
1	.76	545	1.49	.922	Specific Gravity Separator Gas .626 XXXXXX		
2	.75	546	1.50	.925	Specific Gravity Flowing Fluid XXXXX		
3	.76	546	1.50	.924	Critical Pressure 671 P.S.I.A. P.S.I.A.		
4	.76	550	1.51	.926	Critical Temperature 365 R R		
5	.76	544	1.49	.922			
P_c 1703.2 P_c^2 2900.9							
NO.	P_w	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.381$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.612$			
1	1671.2	2792.9	108	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.920$			
2	1653.3	2733.3	167.6				
3	1613.4	2603.0	297.9				
4	1540.6	2372.4	527.5				
5	1429.3	2043.0	857.9				
Absolute Open Flow 1,920 Mcd @ 15.025				Angle of Slope @ 51.75		Slope, n .788	
Remarks:							
Approved by Division _____ Conducted by: Reston & McGowen							
Calculated by: Roy McGowen							
Checked by: Reggie Reston							