

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/23/78		MAR - 2 1978							
Company Petroleum Corp.		Connection Air									
Well West Parkway Morrow Gas		Formation Morrow		Direction N							
Completion Date 2/17/78		Total Depth 11420		Elevation 3316 ft.							
Casing Size 5 1/2		Set At 11420		Perforations 11176 To 11182							
Tubing Size 2 3/8		Set At 11123		Perforations From To							
Type Well - Single - Predefined - G.G. or G.O. Multiple Single		Recker Set At 11123		County Eddy							
Producing Time Tubing		Reservoir Temp. °F 185 @ 11123		Mean Annual Temp. °F 60°							
L 11123		H 11123		Gg .656							
		% CO ₂ 2.72		% N ₂ 1.29							
		% H ₂ S		Prover 2"							
				Meter Run Taps							
FLOW DATA											
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	Duration of Flow
1.	2	X	1/8	2610		60	2610				72 Hr
2.	2	X	1/4	1425		60	1425				1 Hr
3.	2	X	3/8	600		60	600				1 Hr
4.	2	X	1/2	250		60	250				1 Hr
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q _i Field				
1.	.2648		2623.2	1.000	1.235	1.194	1024				
2.	1.087		1438.2	1.000	1.235	1.164	2247				
3.	2.378		613.2	1.000	1.235	1.067	1922				
4.	4.279		263.2	1.000	1.235	1.028	1430				
5.											
Gas Liquid Hydrocarbon Ratio <u>Dry</u> Methanol A.P.I. Gravity of Liquid Hydrocarbons Deg. Specific Gravity Separator Gas <u>.656</u> X X X X X X X X Specific Gravity Flowing Fluid <u>X X X X X</u> Critical Pressure <u>670</u> P.S.I.A. P.S.I.A. Critical Temperature <u>378</u> R °F											
1. 3518.2 11010.5 NO. P_w P_m $P_w^2 - P_m^2$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.258$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.258$ 1. 2630.6 6920.2 1090.3 2. 1502.9 2258.6 8751.9 3. 729.5 532.2 10478.3 4. 401.4 161.1 10849.4 5.											
Absolute Gas Flow <u>2,827</u> Mscf @ 15.025 Angle of Slope @ <u>45°</u> Slope, n <u>1.000</u> Remarks:											
Approved by: <u>Larry Davis</u>		Checked by: <u>John Davis</u>		Calculated by:		Checked by:					

Pooled
 10-2 + 6
 4/14/78
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