

MULTIPOINT A. ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		4-14-82		AUG 4 1982					
Company						Connection						O. C. D.					
PETROLEUM CORP. OF DELAWARE						EPNG											
Pool						Formation						UnMARTESIA, OFFICE					
Burton Flat						Atoka						G					
Completion Date				Total Depth				Plug Back TD				Elevation		Farm or Lease Name			
12-15-81				11533				11069				3342		Parkway West			
Csg. Size		Wt.		Set At		Perforations:		From		To		Well No.					
4 1/2		13.5						10928		10948		9					
Tbg. Size		Wt.		Set At		Perforations:		From		To		Unit Sec. Twp. Rge.					
2 3/8				10670								G 21 19 29					
Type of Well - Single - Blindhead - G.C. or G.O. Multiple								Packer Set At				County					
Single								10,640				Eddy					
Producing thru Tbg.				Reservoir Temp. °F				Mean Annual Temp. °F				Baro. Press. - P _a		State			
				183 10,928				60°				13.2		New Mexico			
L		H		G _g		% CO ₂		% N ₂		% H ₂ S		Prover		Meter Run			
10928		10928		.633		.28		1.20						4" Flg.			
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					
SI							3295										
1.	4 X 2.000			426	2.25	79	3147						1hr. 15min				
2.	4 X 2.000			450	10.9	75	2704						1 hr.				
3.	4 X 2.000			465	19.8	67	2470						1 hr.				
4.	4 X 2.000			480	33.06	68	2053						1 hr.				
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	19.81	31.436	439.2	.9822	1.257	1.039	799										
2	19.81	71.055	463.2	.9859	1.257	1.041	1816										
3	19.81	97.305	478.2	.9933	1.257	1.045	2515										
4	19.81	127.692	493.2	.9924	1.257	1.047	3304										
5																	
NO.	$\bar{r}$	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio		Mcf/bbl.										
					71.4												
					A.P.I. Gravity of Liquid Hydrocarbons		57.5 @ 60°										
					Specific Gravity Separator Gas		.633										
					Specific Gravity Flowing Fluid		X X X X X										
					Critical Pressure		669 P.S.I.A.										
					Critical Temperature		382 R										
1	.66	539	1.46	.927			X X X X X X X X										
2	.69	535	1.45	.922			G-MIX .674										
3	.71	521	1.43	.916													
4	.74	528	1.43	.913													
5																	
P _c 3308.2 P _c ² 10944.2					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.724$												
NO.	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.724$													
1	3165.3	10019.1	925.1														
2	2738.3	7498.3	3445.9														
3	2523.1	6366.0	4578.2														
4	2144.1	4597.2	6347.0														
5																	
AOR = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.697$																	
Absolute Open Flow					5,697												
Mcf @ 15.025					Angle of Slope @ 45												
Slope, n					1.000												
Remarks: Made 5.04 bbls of condensate & .8 bbls. of water during test.																	
Approved by Division																	
Conducted by: EL PASO EXPLORATION CO. Reston & McGowen																	
Calculated by: EL PASO EXPLORATION CO. J. B. Murray																	
Checked by:																	