

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised C-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-14-78		B.C.C. ARTESIA, OFFICE	
Company EXXON COMPANY USA		Connection El Paso & Phillips			
Pool Winchester		Formation Upper Penn		Unit	
Completion Date 8-14-78		Total Depth 10400'		Plug Back TD 10360'	
				Elevation 3373' KB-11	
Csg. Size 5 1/2		ID 20.0"		Perforations: From 9631' To 9920'	
Tbg. Size 2 7/8		ID 6.5"		Perforations: From Open Ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 9569		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 157 @ 9776		Mech. Annual Temp. °F 60	
				Baro. Press. - P _a 13.2	
L 9776		H -		G _g 0.7569	
				% CO ₂ 0.397	
				% N ₂ 1.331	
				% H ₂ S 0.000	
				Prover X	
				Meter Run F	

FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	4	9/64	1.250	710	2.89	89	2370		PACKER		72.0
2.	4	10/64	1.250	710	5.76	92	2160				1.0
3.	4	11/64	1.250	710	9.00	94	2000				1.0
4.	4	12/64	1.250	710	12.25	96	1840				1.0
5.							1725				1.0

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. Compens. Factor, F _{pv}	Rate of Flow Q, MCFD
1	7.469	45.72	723.2	0.9732	1.149	1.088	415.5
2	7.469	64.54	723.2	0.9706	1.149	1.085	585.3
3	7.469	80.68	723.2	0.9688	1.149	1.085	727.2
4	7.469	94.12	723.2	0.9671	1.148	1.083	846.0
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NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.08	549	1.35	0.845	2.749	60	0.7569	X X X X X	668	406
2.	1.03	552	1.36	0.849						
3.	1.08	554	1.36	0.849						
4.	1.03	556	1.37	0.853						
5.										

P _c 4593.2 P _c ² 21037.5		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 8.639$		(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.34$	
NO.	P _t	P _w *	P _w ²	P _c ² - P _w ²	
1		4319.2	18655.5	2442.0	
2		3130.2	17058.6	4038.9	
3		3936.2	15493.7	5603.8	
4		3761.2	14146.6	6950.9	
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CENTRAL FILE ROOM

Absolute Open Flow	1803	Hold @ 15.000	Angle of Slope @	55° 47'	Slope, n	0.522
Remarks: * BHP @ (-6403) 9776' Used for Pressure Calculations						
234 BD/Day						
Approved By Commission:	Conducted By:	Calculated By:				