

C-122
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Form C-122
Revised 9-1-65

N. M. O. C. G. COPY
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date May 7, 1975		MAY 22 1975	
Company Jake L. Hamon				Connection Vent to Air			
Pool Burton Flat Morrow				Formation Morrow		Unit G.C.C. ARTESIA, OFFICE	
Completion Date May 4, 1975		Total Depth 11,650		Plug Back TD 11,580		Elevation 3182 Gr.	
Csg. Size 5 1/2"		Wt. 17# 20#		Set At 11,650		Perforations: From 11,256 To 11,387	
Tbg. Size 2 7/8		Wt. 6.4# 2.441		Set At 11,155		Perforations: From Open Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,140		Farm or Lease Name Federal 4 Com.	
Producing Thru Tubing		Reservoir Temp. °F 188° 11390		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 11390		H 11390		G _g 0.589		% CO ₂ 1.03	
				% N ₂ 0.26		% H ₂ S -0-	
				Prover —		Meter Run 4"	
						Taps Flange	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1.	4" x 1.50"			540.0	5.5	74	2215.0
2.	4" x 1.50"			550.0	11.5	64	1742.0
3.	4" x 1.50"			555.0	18.0	66	1370.0
4.	4" x 1.50"			555.0	24.0	72	1012.0
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.	10.84	55.16	553.2	.9868	1.303	1.041	800
2.	10.84	80.48	563.2	.9962	1.303	1.044	1182
3.	10.84	101.13	568.2	.9943	1.303	1.044	1483
4.	10.84	116.78	568.2	.9887	1.303	1.043	1701
5.							
NO. P _t Temp. °R T _r Z				Gas Liquid Hydrocarbon Ratio <u>103.981</u> Mcf/bbl.			
				A.P.I. Gravity of Liquid Hydrocarbons <u>Not available</u> Deg.			
1.	0.83	534	1.53	.923	Specific Gravity Separator Gas <u>0.589</u> X X X X X X X X		
2.	0.84	524	1.50	.917	Specific Gravity Flowing Fluid <u>X X X X X</u>		
3.	0.85	526	1.51	.918	Critical Pressure <u>668</u> P.S.I.A. P.S.I.A.		
4.	0.85	532	1.52	.920	Critical Temperature <u>349</u> R R		
5.							
P _t 3615.2 P _s 13070				(1) $\frac{P_t^2}{P_t^2 - P_s^2} = 1.2118$ (2) $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n = 1.2118$			
NO.	P _t ²	P _s ²	P _t ² - P _s ²				
1.	2932.2	8598	4472				
2.	2305.2	5314	7756				
3.	1897.2	3599	9471				
4.	1511.2	2284	10786				
5.							
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_s^2} \right]^n = 2061$							
Absolute Open Flow <u>2061</u> Mcfd @ 15.025				Angle of Slope <u>45.0</u>		Slope, n <u>1.000</u> Limit	
Remarks: Bottom hole pressures measured with Amerada gauge @ 11,390 feet. Good point alignment but slightly in excess of 1.000 Limits.							
Approved By Commission:		Conducted By: Glenn Parker		Calculated By: R. West		Checked By: J.W.W.	