

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-6-85	
Company SANTA FE ENERGY ✓				Correlation TO AIR	
Pool MALAGA ATOKA				Formation ATOKA	
Completion Date 1-3-85		Total Depth 12900		Plug Back 12465	
				Elevation 2971.7	
Form or Lease Name BURKHAM FED COM					
Case Size 5.5	Wt. 20	d 4.778	Set At 12900	Perforations: From 11915 To 11919	
Case Size 2.375	Wt. 4.7	d 1.395	Set At 11859	Perforations: From OPEN To ENDED	
Type Well - Single - Driftwood - G.C. or G.O. Multiple SINGLE				Packer Set At 11820	
Producing thru TUBING		Reservoir Temp. °F 220 • 11917		Mean Annual Temp. °F 13.2	
				Laro. Press. = P _a 60°	
County EDDY					
State NEW MEXICO					
L 11917	H 11917	Cg 0.576	% CO ₂ 0.64	% N ₂ 1.19	% H ₂ S 0
				Prover 0.	Motor Run 4.0
				Type FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.		CHOKE
1	4.03 X 1.750			303	3.7	96	4794		6011		62.7
2	4.03 X 1.750			310	6.2	76	4360		5540	4.5/64	1.0
3	4.03 X 1.750			310	10.2	74	4050		5173	5.5/64	1.0
4	4.03 X 1.750			315	16.2	73	3660		4722	6.75/64	1.0
5							3160		4119	8/64	1.0

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 _{sp}	Rate of Flow Q, Mscf
1	14.93	34.20	316.2	0.9671	1.3172	1.0192	663.
2	14.93	44.76	323.2	0.9850	1.3172	1.0228	887.
3	14.93	57.42	323.2	0.9868	1.3172	1.0231	1140.
4	14.93	73.03	328.2	0.9877	1.3172	1.0237	1452.
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NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbon	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.47	556.	1.60	0.963	0.	0.	0.576	XXXXXX	674.	347.
2	0.48	536.	1.55	0.956						
3	0.48	534.	1.54	0.955						
4	0.49	533.	1.54	0.954						
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1. 4878.8 P ₁ ² 23803.		(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 1.7965$		(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1.4558$	
1	30838.	4463.	19921.	3882.	
2	26897.	4144.	17170.	6633.	
3	22422.	3755.	14109.	9693.	
4	17075.	3249.	10553.	13249.	
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2113.		Mcf/d 15.025		Angle of Slope ° 57.3		Slope, n 0.641	
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Checked by DON BENNETT	Checked by BENNETT & CATHEY	Checked by
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