

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 8-15-84							
Company JUBILEE ENERGY			Connection TO AIR								
Pool			Formation STRAWN								
Completion Date 9-14-84		Total Depth 14450.		Plug Back To 14450.							
Elevation 3129.		Form or Lease Name JAVALINA FEDERAL									
Test Size 4.500	Wt. 15.5	d 3.829	Set At 14450.	Perforations: From 14047. To 14310.							
Test Size 2.875	Wt. 8.7	d 2.259	Set At 12300.	Perforations: From 0. To 0.							
Type Well - Single - Headedhead - G.G. or G.O. Multiple SINGLE				Packer Set At 12300.							
Producing thru TUBING		Reservoir Temp. °F 214.° 14178.		Mean Annual Temp. °F 60.0							
L 14178.		H 14178.		Cq .655							
% CO ₂ 0.76		% N ₂ 0.71		% H ₂ S 0.							
Prover 0.		Motor Run 4.0		Taps FLANGE							
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. hw	Temp. °F	TUBING DATA		B.H.P. DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE	
1.	4.03 X 1.000			210.	2.0	96.	1134	83.			22.5
2.	4.03 X 1.000			210.	3.0	102.	974.	84.		8/64	1.0
3.	4.03 X 1.000			210.	4.0	106.	755.	84.		9/64	1.0
4.	4.03 X 1.000			210.	4.0	106.	452.	84.		10/64	1.0
5.	4.03 X 1.000			201.	5.0	106.	217.	84.		12/64	1.0
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	4.75	21.13	223.2	0.9671	1.2356	1.0178	122.				
2	4.75	25.88	223.2	0.9619	1.2356	1.0170	149.				
3	4.75	29.88	223.2	0.9585	1.2356	1.0166	171.				
4	4.75	33.41	223.2	0.9585	1.2356	1.0166	191.				
5											
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ 0. Mcf/bbl.						
1	0.33	556.	1.49	0.965	A.P.I. Gravity of Liquid Hydrocarbons _____ 0. Deg.						
2	0.33	562.	1.51	0.967	Specific Gravity Separator Gas _____ 0.655						
3	0.33	566.	1.52	0.968	Specific Gravity Flowing Fluid _____ X X X X X						
4	0.33	566.	1.52	0.968	Critical Pressure _____ 672. P.S.I.A.						
5					Critical Temperature _____ 372. °F						
P ₁ 1133.2 P ₂ 1284					(1) $\frac{P_c^2}{P_1^2 - P_2^2} = 1.0425$						
					(2) $\left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 1.0211$						
NO.	P ₁	P ₂	P ₃	P ₄	AOIF = Q $\left[\frac{P_c^2}{P_1^2 - P_2^2} \right]^n = 195.$						
1	975.	976.	952.	332.							
2	590.	760.	578.	706.							
3	216.	461.	213.	1072.							
4	53.	229.	52.	1232.							
5											
Absolute Open Flow _____ 195. Mcfd @ 15.025					Angle of Slope ° _____ 63.3		Slope, n _____ 0.503				
Remarks:											
Approved By Commission:		Conducted By: RICHARD TOWNLEY		Calculated By: BENNETT & CATHEY INC.		Checked By:					