

SEP 27 1984

45F
File

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		Test Date 9-19-84		O. C. D. ARTESIA, OFFICE	
Company GULF <i>Oil Corp.</i>		Connection TO AIR			
Pool WILDCAT <i>Unit 1</i>		Formation STRAWN		Unit <i>X- Packco</i>	
Completion Date 9-18-84		Total Depth 11180.		Plug Back To 10570.	
Elevation 3391.		Farm or Lease Name PECHECO FEDERAL <i>Comp.</i>			
Case Size 5.500	Wt. 17.0	d 4.052	Set At 10570.	Perforations: From 9514. To 9536.	
Trp. Size 2.375	Wt. 4.7	d 1.995	Set At 9432.	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9432.	
Producing Thru TUBING		Reservoir Temp. °F 167.9 9525.		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 9525.	H 9525.	Gg 0.708	% CO ₂ 0.27	% N ₂ 1.21	% H ₂ S 0.
Prover Ø		Motor Run 4.0		Taps FLANGE	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
51					
1.	4.03 X 1.000		405.	7.0	100.
2.	4.03 X 1.000		415.	16.0	82.
3.	4.03 X 1.000		420.	35.0	89.
4.	4.03 X 1.000		420.	60.0	60.
5.					
TUBING DATA					
B.H.P. DATA					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg
1	4.75	54.11	418.2	0.9636	1.1885
2	4.75	82.77	428.2	0.9795	1.1885
3	4.75	123.13	433.2	0.9732	1.1885
4	4.75	161.22	433.2	1.0000	1.1885
5					
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio
1	0.63	560.	1.44	0.926	14.5 Mcf/bbl.
2	0.64	542.	1.40	0.917	A.P.I. Gravity of Liquid Hydrocarbons 63.0 Deg.
3	0.65	549.	1.41	0.920	Specific Gravity Separator Gas 0.708 XXXXXXXXX
4	0.65	520.	1.34	0.902	Specific Gravity Flowing Fluid XXXXX 0.871
5					Critical Pressure 666. P.S.I.A. 658. P.S.I.A.
					Critical Temperature 389. °R 439. °R
$P_c = 2457.8$ $P_c^2 = 6041$					
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.7709$
1	5656.	2367.	5602.	439.	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.7709$
2	5467.	2324.	5399.	642.	
3	5282.	2277.	5187.	854.	
4	4876.	2185.	4775.	1266.	
5					
$AOI = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4573.$					
Absolute Open Flow 4573. Mcfd @ 15.025 Angle of Slope 45.0 Slope, n 1.000					
Remarks:					
Approved By Commission: Conducted By: RICHARD TOWNLEY Calculated By: BENNETT & CATHEY INC. Checked By:					