

122 file
file

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-29-77		RECEIVED	
Company GULF OIL CORP.		Connection AIR		OCT 6 1977	
Well <i>North Shugart monow</i>		Formation MORROW		Unit O.C.C. ARTESIAL OFFICE	
Completion Date 8-29-77		Total Depth 12000		Plug Back TD 11951	
Elevation 3622 Cr.		Form or Lease Name N. SHUGART DEEP		Well No. 1	
Casing Size 7.000		Wt. 26.00		Set At 12000	
Perforations From 11679		To 11862		Unit B	
Perforations From 11635		To 11635		Sec. 29	
Type Well - Single - Random - C.G. or G.O. Multiple Single Completion		Packer Set At 11635		Twp. 18S	
Producing thru Tubing		Reservoir Temp. °F 11771		Mech. Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NM		County EDDY	
L 1177		H 11771		Gg 0.685	
% CO ₂ 0.72		% N ₂ 0.62		% H ₂ S 0.00	
Provor X		Meter Run X		Taps	
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
1.	4.00	2.00	600	4.00"	80
2.	4.00	2.00	600	8.00"	95
3.	4.00	2.00	605	16.00"	90
4.	4.00	2.00	605	36.00"	90
5.					
TUBING DATA					
	Press. p.s.i.g.	Temp. °F			
	2637	70			
	2268	70			
	2103	70			
	1928	70			
	1510	70			
CASING DATA					
	Press. p.s.i.g.	Temp. °F			
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg
1.	19.81	49.526	613.20	0.9813	1.2082
2.	19.81	70.040	613.20	0.9680	1.2082
3.	19.81	99.455	618.20	0.9723	1.2082
4.	19.81	149.182	618.20	0.9723	1.2082
5.					
Super Compress. Factor, F _{pv}					
Rate of Flow Q, Mgd					
Gas Liquid Hydrocarbon Ratio 19940					
A.P.I. Gravity of Liquid Hydrocarbons 55.70					
Specific Gravity Separator Gas 0.685					
Specific Gravity Flowing Fluid 0.828					
Critical Pressure 669 P.S.I.A.					
Critical Temperature 385 R					
P _c 2650, P _w 7024					
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.48361$
1.	2284.9	5225	1798		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4836$
2.	2124.9	4515	2508		
3.	1958.1	3814	3189		
4.	1513.1	2289	4734		
5.					
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5455$					
Absolute Open Flow 5455					
Weld @ 15.025					
Angle of Slope @ 45.00					
Slope 1:000					
Remarks:					
Approved By: _____					
Conducted By: _____					
Calculated By: _____					
Checked By: _____					