

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test 4 pt. ☒ Initial ☐ Annual ☐ Special	Test Date 10-23-80							
Company GETTY OIL CORPORATION	Connection To Air							
Pool Undesignated Morrow	Formation Morrow	Unit ✓						
Completion Date 8-30-80	Total Depth 14140	Plug Back TD 13451	Elevation -	Form or Lease Name GETTY 6 State <i>Com</i>				
Csg. Size 4 1/2	Wt. 15.5	d 3.701	Set At 14140	Perforations: From 13451 To 13603	Well No. 1			
Tub. Size 2 3/8	Wt. 4.7	d 1.995	Set At 13024	Perforations: From To	Unit Sec. Twp. Inge. ✓ 6 21 34			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single	Packer Set At	County Lea						
Producing Thru Tbg.	Reservoir Temp. °F 209 @ 13469	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico				
L 13469	H 13469	C _g .686	% CO ₂ .67	% N ₂ 1.23	% H ₂ S	Prover	Meter Run 3"	Taps Flg.

FLOW DATA							TUBING DATA		CASING 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.	Temp. °F	
SI							4390				72hrs.
1.	3.0 X 1.00			200	4.0	95	3200				60min.
2.	3.0 X 1.00			200	8.0	87	3003				60min.
3.	3.0 X 1.00			200	24.0	72	2695				60min.
4.	3.0 X 1.00			200	40.0	74	2295				60min.
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 _{sp}	Rate of Flow Q, Mhd
1	4.789	29.20	213.2	.9680	1.207	1.020	167
2	4.789	41.30	213.2	.9750	1.207	1.020	237
3	4.789	71.53	213.2	.9887	1.207	1.022	418
4	4.789	92.35	213.2	.9868	1.207	1.021	538
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/cbl.
1	.32	555	1.44	.962	8.99	
2.	.32	547	1.42	.961	50 @ 60	
3.	.32	532	1.38	.957	A.P.I. Gravity of Liquid Hydrocarbons	
4.	.32	534	1.39	.959	Specific Gravity Separator Gas .686	
5					Specific Gravity Flowing Fluid X X X X X	1.004
					Critical Pressure 668 P.S.I.A.	658 P.S.I.A.
					Critical Temperature 385 °R	491 °R

P _t 4403.2	P _w 19388.2	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.392$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.392$
NO.	P _t	P _w	P _t ² - P _w ²
1		3239.4	10493.7
2		3024.3	9146.4
3		2727.7	7440.3
4		2337.2	5462.5
5			
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = .749$			
☒ DC ☐ WG ☒ HT ☐ WC ☐ EP ☐ BW			

Absolute Open Flow 749 Mhd @ 15.025 Angle of Slope 45 Slope, n 1.00

Remarks: Made 6.3 hbls of condensate at 50 @ 60°

Approved By Division Conducted By: Calculated By: Checked By: