

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-16-81	
Company Getty Oil Co.			Connection Not Connected		
Pool Basin			Formation Dakota		Unit
Completion Date 3-4-81		Total Depth 6630		Plug Back TD 6588	
Elevation 5608 GL.		Farm or Lease Name Martin Fed. Com			
Csg. Size 5.500	Wt. 15.5	d 4.950	Set At 6630	Perforations: From 6373 To 6405	
Tbg. Size 2.1/16	Wt. 3.25	d 1.751	Set At 6383	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas Gas Multiple				Packer Set At 4725	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 12.0	
Baro. Press. - P _a 12.0		State New Mexico			
L 6383	H 6383	Gg .720	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

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							1177				168 Hr. S.I.
1.	2.000	x .750					199				
2.	2.000	x .750					170				
3.	2.000	x .750					159				
4.											
5.											

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	11.000		211	1.000	1.179	1.026	2808
2	11.000		182	1.000	1.179	1.022	2412
3	11.000		171	1.000	1.179	1.021	2266
4							
5							

NO.	P _t	Temp. °R	Gas Liquid Hydrocarbon Ratio 2,000 to 1 BL Mcf/bbl.
1.			A.P.I. Gravity of Liquid Hydrocarbons 58 to 60 Deg.
2.			Specific Gravity Separator Gas X X X X X X X X
3.			Specific Gravity Flowing Fluid X X X X X
4.			Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.			Critical Temperature _____ R _____ R

P _c 1189	P _c ² 1413721	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2523$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1938$
NO.	P _t ²	P _w ²	P _c ² - P _w ²		
1					
2					
3	29241	534	284834	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,683$	
4					
5					

Absolute Open Flow 2,683 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: This test was conducted in conjunction with the packer leakage test.		
Approved By Commission:	Conducted By: Paul D. Bernhost	Calculated By: Paul D. Bernhost
Checked By:		