

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: 1-23-79	
Company: Getty Oil Company				Connection: Llano, Inc.	
Pool: Grama Ridge Morrow				Unit: -	
Formation: Morrow				Farm or Lease Name: Getty "35" State	
Completion Date: 1-3-79		Total Depth: 13,355'		Plug Back TD: 13,265'	
Elevation: 3675.8 GL		Well No.: 1			
Csq. Size: 5"	Wt.: 18.0	d: 4.276	Set At: 13,355	Perforations: From 12,907 To 13,102	
Tbg. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 12,200	Perforations: From - To -	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Morrow Gas/Wolfcamp Oil - Dual				Packer Set At: 10,187'/12,200'	
Producing Thru: Tubing				County: Lea	
Reservoir Temp. °F: 175°@ 13,352'		Mean Annual Temp. °F: 60		State: New Mexico	
L: 12,200	H: 12,200	Gg: 0.599	% CO ₂ : 0.592	% N ₂ : 0.511	% H ₂ S: -
Prover: -		Meter Run: 3"		Taps: Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow SI 92 hrs & 15 min.
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							5970	57	Packer	-	
1.	3" x 1.75" 4/64"			490	10	85	5500	64	-	-	30 min.
2.	3" x 1.75" 6/64"			500	21	84	5200	64	-	-	45 min.
3.	3" x 1.75" 8/64"			505	34	83	4775	63	-	-	45 min.
4.	3" x 1.75" 12/64"			530	62	83	4400	64	-	-	30 min.
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	20.15	70.94	503.2	.9768	1.292	1.040	1876
2	20.15	103.81	513.2	0.9777	1.292	1.040	2748
3	20.15	132.74	518.2	0.9786	1.292	1.049	3547
4	20.15	183.52	543.2	0.9786	1.292	1.045	4886
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ 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 671 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 362 _____ R _____ R

*P _c 7468.2 P _c ² 55,774				
NO.	P _r ²	P _w *	P _w ²	P _c ² - P _w ²
1		6969.2	48,570	7,204
2		6538.2	42,748	13,026
3		6405.2	41,027	14,747
4		5829.2	33,980	21,794
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.559$ $\frac{P_c^2}{P_c^2 - P_w^2} = 2.273$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,107$ Mcfd @ 15.025

BEFORE THE
OIL CONSERVATION COMMISSION
 Santa Fe, New Mexico
 Case No. **6557** Exhibit No. **5**

Absolute Open Flow 11,107 Mcfd @ 15.025		Submitted by: GETTY	
Remarks: *P_c & P_w from bottom hole pressure recorder @ (-9329) 13005'		Hearing Date: 5/29/79 Slope, n: .874	
Approved By Commission:	Conducted By: M. V. Merchant	Calculated By: M. V. Merchant	Checked By: MC