NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-23-79	
Company: Getty Oil Company		Connection: Llano, Inc.			
Pool: Grama Ridge Morrow		Formation: Morrow		Unit: -	
Completion Date: 1-3-79	Total Depth: 13,355'	Plug Back TD: 13,265'	Elevation: 3675.8 GL	Farm or Lease Name: Getty "35" State	
Csg. Size: 5" / Wt.: 18.0 / d: 4.276 / Set At: 13,355		Perforations: From 12,907 To 13,102		Well No.: 1	
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 12,200		Perforations: From - To -		Unit: K / Sec.: 35 / Twp.: 21-S / Rge.: 34-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Morrow Gas/Wolfcamp Oil - Dual		Packer Set At: 10,187'/12,200'		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 175°@13,352	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2 psia	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,200	12,200	0.599	0.592	0.511	-	-	3"	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					5970	57	Packer	-	SI 92 hrs & 15 min.
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_t	Temp. °R	T_t	Z
1				
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

*P_c 7468.2 P_c^2 55,774

NO	P_t^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) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.559$ $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.273$

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

Absolute Open Flow 11,107 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .874

Remarks: *Pc & Pw from bottom hole pressure recorder @ (-9329) 13005'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.Y. Merchant	M.Y. Merchant	D. R. Crockett