NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 10/8/80	
Company: Getty Oil Company	Connection: Llano, Inc.			
Pool: East Grama Ridge - Morrow	Formation: Morrow		Unit	
Completion Date: 8/25/80	Total Depth: 13,350	Plug Back TD: 13,265	Elevation: 3614'GL	Farm or Lease Name: Getty 2 State
Csg. Size: 5 / Wt.: 18 / d: 4,151 / Set At: 13,350	Perforations: From 13,122 To 13,142			Well No.: 2
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 12,628	Perforations: From - To -			Unit: H / Sec.: 2 / Twp.: 22-S / Rge.: 34-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Morrow Gas/Single	Packer Set At: 12,628			County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 182 @ 13,350	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,628	12,628	.6124	.778	1.117	-	-	3"	Flange

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					5250	95	Packer		SI 16 hrs
1.	3"x.75 3/64	470	13	90	4725	94			1/2 hr
2.	3"x.75 4/64	470	30	69	4525	93			3/4 hr
3.	3"x.75 5/64	470	57	78	3775	92			1 3/4 hr
4.	3"x.75 5.5/64	470	69	75	3325	91			1 1/2 hr
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	2.672	78.17	470	.9723	1.278	1.037	269.13
2.	2.672	118.74	470	.9915	1.278	1.042	419.25
3.	2.672	163.68	470	.9831	1.278	1.037	569.81
4.	2.672	180.08	470	.9859	1.278	1.037	628.71
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.700	550	1.52	.930
2.	.700	529	1.46	.921
3.	.700	538	1.49	.930
4.	.700	535	1.48	.930
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 7254.2 P_c^2 52,623

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6576.2	43,246	9,377
2		6222.2	38,716	13,907
3		5270.2	27,775	24,848
4		4706.2	22,148	30,475
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.78$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.97$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 825.92$

Absolute Open Flow 825.92 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .5105

Remarks: Bottom hole pressures measured at mid-point of perfs

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Jerry Sexton	McCurry & Sebastain	Petco	