0+2-NMOCD-Hobbs
1-File
1-Engr. PJB
1-Foreman-CRM
1-WIO-Amerada Hess

NEW MEXICO OIL CONSERVATION COMMSSION
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: 8/23/82	
Company: Getty Oil Company		Connection: Llano, Inc.			
Pool: East Grama Ridge - Morrow		Formation: Morrow			Unit
Completion Date: 5/7/82	Total Depth: 13,360		Plug Back TD: 13,316	Elevation: 3630.2 GL	Farm or Lease Name: Getty 1 State Com
Csg. Size: 4 1/2 / Wt.: 13.50 / d: 3.795 - / Set At: 13,360			Perforations: From 12,790 To 13,054		Well No.: 2
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 12,688			Perforations: From - To -		Unit: H / Sec.: 1 / Twp.: 22S / Rge.: 34E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Morrow Gas/Single			Packer Set At: 12,688		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 184 @ 12,922	Mean Annual Temp. °F: 60	Baro. Press. - P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,688	12,688	.6472	.551	.642	-	-	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					3835	95	Packer		SI 45 1/2 h.
1.	3" x .75 4/64	500	4	85	3625	94			1 hr.
2.	3" x .75 6.5/64	500	13.69	85	3475	93			1 1/4 hr.
3.	3" x .75 7.75/64	550	30.25	85	3300	92			1 1/4 hr.
4.	3" x .75 9/64	550	56.25	77	2815	91			3/4 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	44.72	500	.9768	1.243	1.045	151.62
2	2.672	82.73	500	.9768	1.243	1.045	280.49
3	2.672	128.98	550	.9768	1.243	1.049	438.97
4	2.672	175.89	550	.9840	1.243	1.052	604.73
5							

NO.	P_t	Temp. °R	T_r	Z
1	.746	545	1.453	.916
2	.746	545	1.453	.916
3	.820	545	1.453	.908
4	.820	537	1.432	.904
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 375 R _____ R

P_c 5470.2 P_c^2 29,923

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5226.2	27,313	2610
2		5080.2	25,808	4115
3		4861.2	23,631	6292
4		4269.2	18,226	11967
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.75$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.39$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1928.82$

Absolute Open Flow 1928.82 Mcfd @ 15.025 Angle of Slope θ - Slope, n .95

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

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	Tippy & Martinez	Peter Botes	D.J. Steinnerd