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: 2-13-78	
Company: GETTY OIL COMPANY			Connection: NOT AVAILABLE		Unit:
Pool: GAMMA RIDGE MORROW			Formation: MORROW		
Completion Date: 2-6-78	Total Depth: 13,381		Plug Back TD: 13,360	Elevation: 3608.2 GL	XXXXX Lease Name: ~~GETTY "2"~~ STATE
Csg. Size: 5" / Wt.: 18.0 / d: 4.276 / Set At: 13,379			Perforations: From 12,759' To 13,322'		Well No.: 1
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 12,638			Perforations: From To		Unit: F / Sec.: 2 / Twp.: 22-S / Rge.: 35-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 12,638'		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 183 @ 13,322		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: NEW MEXICO
L: 12,638' / H: 12,638' / Gg: 0.609 / % CO_2: 0.32 / % N_2: 0.26 / % H_2S: – / Prover: – / Meter Run: 4" / Taps: 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	4" X 1.5"				6467	58	PACKER		SI 78 HRS.
1.	4" X 1.5"	630	10.2	95	4350	65			4.0"
2.	4" X 1.5"	640	19.0	94	2830	64			4.5"
3.	4" X 1.5"	600	28.0	92	1760	61			3.5"
4.	4" X 1.5"	630	31.0	92	1030	60			4.0"
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	10.84	80.20	643.2	.9952	1.281	1.046	1159
2.	10.84	111.40	653.2	.9963	1.281	1.049	1617
3.	10.84	131.03	613.2	.9990	1.281	1.046	1901
4.	10.84	141.21	643.2	1.0000	1.281	1.049	2057
5.							

NO.	P_t	Temp. °R	T_t	Z
1	6.49	555	1.45	0.877
2.	4.24	554	1.45	0.752
3.	2.67	552	1.44	0.755
4.	1.59	552	1.44	0.830
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.609 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

P_c 6480.2 P_c^2 41,983

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4358.4	18995.7	22997.3
2		2816	7929.9	34063.1
3		1790.5	3205.9	38787.1
4		1063.7	1131.5	40861.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.233$ $\quad \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.215$

AOF = $Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1965$

Absolute Open Flow 1965 Mcfd @ 15.025 Angle of Slope = _____ Slope, n 0.928

Remarks: _____