2-NMOCC-HOBBS
1-FILE
1-CM

1-PJB-ENGR
7-WIO'S

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: 6/15/81	
Company: Getty Oil Company			Connection: Getty Refining & Marketing		
Pool: Undesignated - Morrow			Formation: Morrow		Unit
Completion Date: 6/1/81	Total Depth: 14,160		Plug Back TD: 14,116	Elevation: 3731 G.L.	Farm or Lease Name: Berry 5 State Comm.
Csg. Size: 4 1/2 / Wt.: 13.5 / d: 3.795	Set At: 14,160		Perforations: From 14,031 To 14,038		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995	Set At: 13,317		Perforations: From To		Unit: T / Sec.: 5 / Twp.: 21-S / Rge.: 34-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Morrow Gas/Single			Packer Set At: 13,317		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 186° @ 14,160	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
13,317	13,317	.6553	.552	.223	–	–	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						6250	96	Packer		SI 90 hrs.
1.	3"	X 2/64	500	10	91	6000	95			3/4 hr.
2.	3"	X 3/64	500	18	91	5900	94			1/2 hr.
3.	3"	X 7/64	500	32	91	5650	93			1/2 hr.
4.	3"	X 8/64	500	42	87	5400	92			1 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	7.577	70.71	500	.9715	1.236	1.045	681
2.	7.577	94.87	500	.9715	1.236	1.045	913
3.	7.577	126.49	500	.9715	1.236	1.045	1218
4.	7.577	144.91	500	.9715	1.236	1.045	1395
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	.766	551	1.45	.915
2.	.766	551	1.45	.915
3.	.766	551	1.45	.915
4.	.766	547	1.45	.915
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 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 378 R _____ R

P_c 8714.2 P_c^2 75,937

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		8388.2	70,362	5,575
2		8257.2	68,181	7,756
3		8009.2	64,147	11,790
4		7747.2	60,019	15,918
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.79$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.07$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5548$

Absolute Open Flow 5548 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .791

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

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
[illegible] Seiton	Bill Krafft	Peter Botes	Dale R. Crockett