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: 10-30-79	
Company: Getty Oil Company			Connection: Transwestern Pipeline, Co.		
Pool: Wildcat			Formation: Atoka		Unit
Completion Date: 6-12-79	Total Depth: 17,652		Plug Back T.D.: 15,000	Elevation: 3520' GL	Farm or Lease Name: State 29 J
Csg. Size: 7 / Wt.: 29# / d: 6.184" / Set At: 16,932'			Perforations: From 14,310 To 14,364		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5# / d: 2.441" / Set At: 14,002'			Perforations: From Open Ended To		Unit: J / Sec.: 29 / Twp.: 24S / Rge.: 33E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 14,002'		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 210 @ 14,337'	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
14,310'	14,310'	.640	–	1%	–	–	2"	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					6800		Packer	–	+96 hrs. SI
1.	2 x 1 1/2	920	8	54	4600		–	–	2 hr.
2.	2 x 1 1/2	930	10	56	4125		–	–	1 hr.
3.	2 x 1 1/2	925	11	44	3425		–	–	1 hr.
4.	2 x 1 1/2	925	11	38	2700		–	–	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	12.760	85.790	920	1.006	1.250	1.106	1,522
2	12.760	96.437	930	1.004	1.250	1.103	1,703
3	12.760	100.871	925	1.016	1.250	1.114	1,821
4	12.760	100.871	925	1.022	1.250	1.120	1,842
5							

NO.	P_t	Temp. °R	T_r	Z
1	1.365	514	1.374	.817
2	1.379	516	1.379	.822
3	1.372	504	1.348	.806
4	1.372	498	1.33	.797
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 674 P.S.I.A. _____ P.S.I.A.
Critical Temperature 374 R _____ R

P_c 8994 P_c^2 80,892

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6771	45,846	35,046
2		5968	35,617	45,275
3		5301	28,100	52,792
4		4545	20,657	60,235
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.787$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.368$

Antilog $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.329$

Absolute Open Flow 2,329 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .540

Remarks: *Pc and Pw from bottom hole pressure recorder at 14,337'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	E. L. Buttross, Jr.	E. L. Buttross, Jr.	D. R. Crockett