STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10/22/85	
Company: Pogo Producing Co.			Connection: Llano		
Pool: Wildcat			Formation: Pennsylvanian		Unit
Completion Date: 10/18/85	Total Depth: 13,600		Plug Back TD: 12,555	Elevation: 3726	Farm or Lease Name: State L 922
Csg. Size: 5" / Wt.: 18 / d: 4.151	Set At: 13600		Perforations: From 12169 To 12403		Well No.: 2
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441	Set At: 12455		Perforations: From Open To End		Unit: J / Sec.: 28 / Twp.: 21S / Rge.: 34E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 12145		County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F: 195 12455	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
12455	12455	.7153	3.76	.895			4.026	Flg.

	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					5055				
1.	4.026 X 1.500	510	3	85	3773				60 min.
2.	4.026 X 1.500	520	5	80	2658				60 min.
3.	4.026 X 1.500	510	2	79	1720				60 min.
4.	4.026 X 1.500	510	12	79	1894				60 min.
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	39.62	523.2	.9768	1.183	1.051	522
2.	10.84	51.63	533.2	.9813	1.183	1.052	683
3.	10.84	32.35	523.2	.9822	1.183	1.054	429
4.	10.84	79.24	523.2	.9822	1.183	1.054	1052
5.							

NO.	P_t	Temp. °F	T_t	Z
1.	.76	545	1.41	.906
2.	.77	540	1.40	.903
3.	.76	539	1.39	.901
4.	.76	539	1.39	.901
5.				

Gas Liquid Hydrocarbon Ratio 6.545 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 58°@ 60° Deg.
Specific Gravity Separator Gas .715 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 689 P.S.I.A. P.S.I.A.
Critical Temperature 387 R R

P_c 6612.0 P_c^2 43718

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5895.1	34752	8966
2		5389.6	29048	14670
3		4934.1	24345	19373
4		3490.8	12186	31532
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.386$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1984$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.261$

Absolute Open Flow 1,261 Mcfd @ 15.025 Angle of Slope θ 61 Slope, n .554

Remarks: Pc & Pw Caculated from known bottom hole pressures. Well Made 17.1 bbls of condensate & 44.6 bbls of water during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Duke Services, Inc.	R. Reston	