NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
APR 21 1983

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 4/18/83	
Company: Pogo Producing Co.	Connection: Air			Unit: Midland
Pool	Formation: Wolf Camp			
Completion Date	Total Depth: 20100	Plug Back TD: 15150	Elevation: 3350 GL	Farm or Lease Name: Mosbacher - 20
Csg. Size: 7 3/4 / Wt. / d / Set At: 12462		Perforations: From 13382 To 13423		Well No.: #1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d / Set At: 13344		Perforations: From To		Unit: K Sec.: 20 Twp.: 26s Rge.: 34e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: 13344		County: Lea
Producing Thru: tubing	Reservoir Temp. °F: 206 @ mid point	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: New Mexico
L / H / Gg: .7586	% CO_2: 1.074	% N_2: 1.361	% H_2S	Prover / Meter Run: 4.026 / Taps: flg.

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					6960				1 hr
1.	4 x 1.00	350	5	110	5960				1 hr
2.	4 x 1.00	350	14	120	5600				1 hr
3.	4 x 1.00	350	38	112	4900				1 hr
4.	4 x 1.00	780	42	112	4100				
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	4.753	42.62	363.2	0.9636	1.148	1.035	232
2	4.753	71.31	363.2	0.9469	1.148	1.035	381.
3.	4.753	117.48	363.2	0.9619	1.148	1.035	638.
4.	4.753	182.52	793.2	0.9619	1.148	1.081	1036
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.5316	570	1.40	.933
2.	.5316	580	1.40	.933
3.	.5316	572	1.40	.933
4.	1.1610	572	1.40	.855
5.				

Gas Liquid Hydrocarbon Ratio 1.919 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 48 @ 60° Deg.
Specific Gravity Separator Gas .7586 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 680.2, +4, -1 P.S.I.A. 683.2 P.S.I.A.
Critical Temperature 411, -1, -3 R 407 R

*10258.2 P_c^2 10523

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		*9172.2	84135	2110
2		*8951.2	80125	2511
3		*8249.2	68055	3718
4		*7494.2	56165	4907
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.145$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.145$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.145$

Absolute Open Flow 2145. Mcfd @ 15.025 Angle of Slope θ 45° Slope, n

Remarks: * All pressures PC & PW are actual bottom hole pressures measured by Amerada Gauge; Inst NO 13602 Calb. #12475

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	L.D.	Brad	Larry