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 WELLS

OCT 1982

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-5-82	
Company: Caulkins Oil Company		Connection:			
Pool: Basin Dakota		Formation: Dakota		Unit: P	
Completion Date: 9-28-82	Total Depth: 7700'		Plug Back TD: 7700'	Elevation: 6661	Farm or Lease Name: Breech F
Csg. Size: 5 1/2" / Wt.: 17# / d: 4.950 / Set At: 7700'			Perforations: From 7650' To 7449'		Well No.: 11-M
Tbg. Size: 2 1/6" / Wt.: 3.250 / d: 1.750 / Set At: 7587			Perforations: From 7587 To		Unit: P / Sec.: 35 / Twp.: 27-N / Rge.: 6-W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas and Gas Multiple			Packer Set At: 5806		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	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					1616		PKR		7 Days
1.					112		PKR		3 Hrs.
2.									
3.									
4.									
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	14.1605		124	1.000	1.000	1.000	1.756
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

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

P_c 1628 P_c^2 2,650,384

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	15,376	426	181,487	2,468,897
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.074$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.055$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,852$

Absolute Open Flow 1852 Mcfd @ 15.025 Angle of Slope θ 75 Slope, n _____

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By: