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

RECEIVED
OCT 03 1985
OIL CON. DIV.
DIST. 3

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 10-1-85
Company: Caulkins Oil Company		Connection:		Unit:
Pool: Basin Dakota		Formation: Dakota		
Completion Date: 9 24-85	Total Depth: 7650'	Plug Back TD: 7650'	Elevation: 6577 GR	Farm or Lease Name: Breech "F"
Csg. Size: 5 1/2" / Wt.: 15.5&17# / d: 4.850 / 4.892 / Set At: 7650'		Perforations: From 7368' To 7582'		Well No.: 45-M
Tbg. Size: 1 1/2" / Wt.: 2.3# / d: 1.380 / Set At: 7468'		Perforations: From 7468 To		Unit: D / Sec.: 35 / Twp.: 27N / Rge.: 6W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Gas Multiple		Packer Set At: 5610'		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					1752		PKR		7 Days
1.					165		PKR		3 Hours
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		177	1.000	1.000	1.000	2,506
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 1764 P_c^2 3,111,696

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	31,329	745	554,794	2,556,902
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.217$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1587$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,904$

Absolute Open Flow 2,904 Mcfd @ 15.025 Angle of Slope @ 75 Slope, n _____

Remarks: _____

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