OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

RECEIVED
SEP 20 1985
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date	
Company: Caulkins Oil Company			Connection		Unit
Pool: Basin Dakota			Formation: Dakota		
Completion Date	Total Depth: 7536'		Plug Back TD: 7536'	Elevation: 6532' GR	Farm or Lease Name: Breech "E"
Csg. Size: 5 1/2" / Wt.: 15.5&17# / d: 4.950 / 4.892 / Set At: 7536'			Perforations: From 7271' To 7496'		Well No.: 89-E
Tbg. Size: 1 1/4" / Wt.: 2.3# / d: 1.380 / Set At: 7389'			Perforations: From 7389 To		Unit: E / Sec.: 3 / Twp.: 26N / Rge.: 6W
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: G.O. Multiple			Packer Set At: 6869'		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						1657		PKR		7 Days
1.						143		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		155	1.000	1.000	1.000	2,195
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 1669 P_c^2 2,785,561

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	24,025	947	897,220	1,888,341
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.475$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2145$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,666$

Absolute Open Flow 2,666 Mcfd @ 15.025 | Angle of Slope θ 75 | Slope, n _____

Remarks: _____

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