Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST GAS WELLS

Pool **Basin Dakota** Formation **Dakota** County **Rio Arriba**

Initial **Yes** Annual _____ Date of Test **1-7-64**

Company **Caulkins Oil Company** Lease **Breech "E"** Well No. **D-54**

Unit **A** Sec. **4** Twp. **26N** Rge. **6W** Purchaser **Southern Union Gas Company**

Casing **4 1/2"** Wt. **11.6 / 10.5** I.D. **4.000** Set at **7482** **7181** To **7398**

Tubing **2 3/8"** Wt. **4.7** I.D. **1.995** Set at **7171** **7171** To _____

Gas Pay: From **7181** To **7398** **7171** **.660** **4733** Bar. Press. **12**

Producing Thru: Casing **No** Tubing **Yes** Single Gas

Date of Completion: **12-19-063** Packer **None** Wellhead-G. G. or G.O. Dual Temp. **180°**

Tested Through (Prover) (Choke) (Meter)X Type Taps _____

No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Dif. h_w	Temp. °F			Press. psig	Temp. °F.	Duration of Flow Hr.
SI							2472	2470		SI 186½ hrs.
1.		3/4"					344 60	1112	60	3 hours
2.										
3.										
4.										
5.										

FLOW

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow		Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		356	1.000	.9571	1.024	4941
2.							
3.							
4.							
5.							

PRESSURE DATA

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-s})$

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c **2482** P_c^2 **6,160,324**

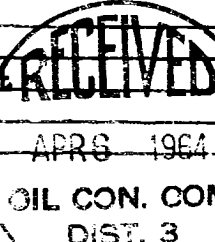| No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$			$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w^2}{P_c^2}$
1.						1,263,376	4,896,948		.452
2.									
3.									
4.									
5.									

Absolute Potential: **5875** MCFPD $(1.26)n$ **1.1892**

COMPANY **Caulkins Oil Company**
ADDRESS **P. O. Box 750, Farmington, New Mexico**
AGENT and TITLE *Frank Bray* Production Superintendent
WITNESSED COMPANY _____

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.