

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool South Blanco		Formation Pictured Cliffs		County Rio Arriba	
Initial X	Annual	Special	Date of Test 7-9-77		
Company Caulkins Oil Company		Lease Breech "C"		Well No. 246	
Unit C	Sec. 13	Twp. 26 N	Range 6 W	Purchaser Gas Company of New Mexico	
Casing 4 1/2"	Wt. 10.5	I.D. 4.000	Set at 3187	Perf. 3076	To 3130
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 3152	Perf. 3152	To
Gas Pay:	From 3076	To 3130	L 3152	G 3152	GL Bar. Press.
Producing Through:		Casing	Tubing Yes	Type Well — Single — Braden head — G.C. or G.O. —	
Date of Completion 7-1-77		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through:			Prover ☐	Choke ☐	Meter ☐	Type of Taps				
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.	7 Days					973		973		3 hrs.
2.						95		724		
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		107	1.000	1.000	1.000	1.515
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

P_c _____ (1-e^{-S}) _____ P_c **985** p_c² **970,225**

No.	$\frac{P_w}{P_t}$ psia	P _t ²	$\frac{P_w}{P_c}$ Q	($\frac{P_w}{P_c}$ Q) ²	$(\frac{P_w}{P_c})^2 (1-e^{-S})$	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.						541,696	428,529		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **3034** MCFPD; n **85**

COMPANY **Caulkins Oil Company** WITNESSED _____

ADDRESS **P.O. Box 340, Bloomfield, New Mexico** COMPANY _____

AGENT AND TITLE *Charles V. [Signature]* **Superintendent**