

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

Form C-122

Revised 12-1-55

Well South Blanco		Formation Pictured Cliffs		County Rio Arriba	
Initial		Annual		Date of Test 8-16-78	
Company Caulkins Oil Co.		Lease Breach "C"		Well No. 247	
Unit B	Sec. 13	Twp. 26N	Range 6W	Purchaser Gas Co. Of New Mexico	
Casing 4 1/2"	Wt. 10.5	I.D. 4.000	Set at 3200	Perf. 3100	To 3170
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 3130	Perf. 3130	To
Gas Pay: From 3100 To 3170		L		G	CL
Producing Through:		Casing		Tubing	
Date of Completion		Packer		Reservoir Temp.	
		yes		single gas	

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.						970		970		7 day
2.						85		755		3 hrs.
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-MCF PD @ 15,025 psia
1.	14.1605		97	1.000	1.000	1.000	1,374
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 _____

F_c _____ (1-e^{-S}) _____ P_c **982** p_c² **964,324**

No.	$\frac{P_w}{P_c}$ psia	P _t ²	F _Q	(F _Q) ²	$\frac{(P_c Q)^2}{(1-e^{-S})}$	P _w ²	P _c ² - P _w ²	Cd P _w	$\frac{P_w}{P_c}$
1.	767					588,289	376,035		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **3,059** MCFPD; n **2.56ⁿ=2.227**

COMPANY **Caulkins Oil Co.** WITNESSED _____

ADDRESS **P.O. Box 780 Farmington N.M.** COMPANY _____

AGENT AND TITLE *Prayer Blinnett* Supt.