

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

Form C-122
Revised 12-1-55

Well Elanco Mesa Verde		Formation Mesa Verde		County Rio Arriba	
Initial		Annual		Date of Test 8-16-78	
Company Caulkins Oil Co.		Lease Breech "E"		Well No. 109	
Unit M	Sec. 3	Twp. 26N	Range 6W	Purchaser Gas Co. Of New Mexico	
Casing 7 5/8"	Wt. 26#	I.D. 6.696	Set at PBTD 5558	Perf. 5070	To 5373
Tubing 1 1/4"	Wt. 2.3	I.D. 1.135	Set at 5330	Perf. 5330	To
Gas Pay: From 5070 To 5373		L		G	Bar. Press.
Producing Through:		Casing		Tubing yes	
Date of Completion 8-9-78		Packer 3976		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.
3.						640		640		7 day
1.						38		245		
2.										
3.										
4.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-1507 P.D. @ 15.025 psia
1.	14.1605		50	1.000	1.000	1.000	708
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⁻⁵) _____ P_c **652** p_c² **424,104**

No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-5})$	$\frac{P_w^2}{P_c^2}$	$P_c^2 - P_w^2$	Cd F _w	$\frac{P_w}{P_c}$
1.	257					66,049	359,055		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **806** MCFPD; n **1.18** = **1.139**

COMPANY **Caulkins Oil Co.** WITNESSED _____

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

AGENT AND TITLE **C.E.V. Supt.**