

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

Form C-122
Revised 12-1-55

Pool Basin Dakota				Formation Dakota				County Rio Arriba			
Initial Yes		Annual no		Special no		Date of Test July 2, 1965					
Company Caulkins Oil Company				Lease Breach "F"				Well No. (MD) 45			
Unit M	Sec. 35	Twp. 27 N	Range 6 W		Purchaser Southern Union Gas Company						
Casing 5 1/2"	Wt. 15.5 17.0	I.D. 4.95	Set at 6447 7642		Perf. 7378		To 7608				
Tubing 2-3/8" OD	Wt. 4.7#	I.D. 1.995	Set at 7345		Perf. 7345		To 7608				
Gas Pay: From 7378		To 7608		L 7345		G .600		GL 4407		Bar. Press. 12	
Producing Through:		Casing no		Tubing yes		Type Well - Single - Braden head - G.G. or G.O. Dual G. G. Dual					
Date of Completion 6-23-65		Packer 7345				Reservoir Temp. 185					

OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ Meter ☐						Type of Taps Pipe				
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.		3/4"				2372		Fkr		3 hours
2.						361	70	"		
3.										
4.										
5.										

FLOW CALCULATIONS							
No.	Coefficient (24 Hour)	$\sqrt{\frac{h}{w} p_f}$	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		373	.9905	1.000	1.028	5378
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 9.402 (1-e ^{-S}) 0.275					P _c 2384 P _c ² 5,683,456				

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	373	139,129	9.402	2,556.31	702,985	842,114	4,841,342	918	.385
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 6050 MCFPD; n (1.17)n 1.1249

COMPANY Caulkins Oil Company WITNESSED _____

ADDRESS Box 780, Farmington, New Mexico COMPANY _____

AGENT AND TITLE Frank J. Supt.

