

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 11-2-65		Company Caulkins Oil Company		Lease Breach	
Well No. 307 (ND)		Unit M		Sec. 13	
Twp. 26 N		Range 7 W		Purchaser Southern Union Gas Company	
Casing 4 1/2" OD		Wt. 10.5 & 11.6		I.D. 4.000	
Set at 7023		Perf. 6620		To 6828	
Tubing 1 1/2"		Wt. 2.33		I.D. 1.380	
Set at 6556		Perf. 6556		To 6556	
Gas Pay: 6620		From 6828		To 6556	
L .600		G 3933		GL 12	
Bar. Press.		Producing Through: No		Casing Yes	
Tubing Gas/Gas Dual		Type Well - Single - Braden head - G.G. or G.O. Dual		Date of Completion 10-26-65	
Packer Baker Model F at 4758		Reservoir Temp. 185			

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					2358		Pkr		
2.		3/4"	220			220	60	Pkr		3 hours
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 P.D. @ 15.025 psia
1.	14.1605		232	1.000	1.000	1.018	3444
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 **24.62** (1-e^{-S}) **0.249** P_c **2370** P_c² **5,616,900**

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.	232	53,824	84.79	7189	1,790,061	1,843,885	3,773,015		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **4645** MCFPD; n **(1.49) 1.3485**

COMPANY **Caulkins Oil Company** WITNESSED _____

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

AGENT AND TITLE **Frank [Signature]** Supt.

