

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

Form C-122

Revised 12-1-55

Well Otero-Chacra		Formation Chacra		County Rio Arriba	
Initial X	Annual	Special	Date of Test 6-20-77		
Company Caulkins Oil Company		Lease Breesh		Well No. 307	
Well M	Sec. 13	Twp. 26 N	Range 7 W	Purchaser Gas Company of New Mexico	
Casing 4 1/2"	WT. 10.5	I.D. 4.000	Set at 7023	Perf. 3194	To 3292
Tubing 1"	WT. 1.7	I.D. 1.049	Set at 3233	Perf. 3233	To
Gas Pay:	From 3194	To 3292	L G	GL	Bar. Press.
Producing Through:		Casing	Tubing Yes	Type Well — Single — Braden head — G.O. or G.O. dual Gas- Gas dual	
Date of Completion 6-13-77		Packer 3197		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.	
1.	7 days					858		858	
2.						47		455	
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-MCFD @ 15.025 psia
1.	14.1605		59	1.000	1.000	1.000	835
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 _____ p_c²

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.						218,089	538,811		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 1077 MCFPD; n .75

COMPANY Caulkins Oil Company WITNESSED _____

ADDRESS P.O. Box 340, Bloomfield, N.M. COMPANY _____

AGENT AND TITLE Superintendent

This acreage dedicated to Gas Company of New Mexico.