

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

Form C-122
Revised 12-1-55

Well Name Otero Chacra		Location Chacra		County Rio Arriba	
Initial	Annual	Special	Date of Test 8-16-78		
Company Caulkins oil Co.		Log No. Breach "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. 3930	To 3952
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 3910	Perf. 3910	To
Gas Pay: From 3930 To 3952		L		G	GL Bar. Press.
Producing Through:		Casing	Tubing	Type Well - Single - Broken head - G.G. or G.O. Dual	
Date of Completion 8-9-78		Packer 3976		Reservoir Temp.	
yes commingled gas-gas-gas-dual					

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.						570		565		7 day
2.						40		470		3 hr.
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		52	1.000	1.000	1.000	736
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 **582** P_c^2 **338,724**

No.	$\frac{P_w}{P_c}$ psia	P_c^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-5})$	$\frac{P_c^2}{P_w}$	$P_c^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_c}$
1.	482					232,324	106,400		
2.									
3.									
4.									
5.									

Chacra 30% order 5648

ABSOLUTE POTENTIAL: (1754 total) 526 MCFPD; n **3.18** = **2.38**

COMPANY Caulkins Oil Co. WITNESSED _____

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

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