

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

Form C-122

Revised 12-1-55

Pool Otero Chacra		Formation Chacra		County Rio Arriba	
Initial		Annual		Date of Test 8-15-78	
Company Caulkins Oil Co.		Lease State C Comm		Well No. 235 R	
Unit A	Sec. 16	Twp. 26N	Range 6W	Purchaser Gas Co. of New Mexico	
Casing 4 1/2"	Wt. 10.5#	I.D. 4.000	Set at 3976	Perf. 3800	To 3906
Tubing 1 1/4"	Wt. 2.3	I.D. 1.350	Set at 3901	Perf. 3901	To
Gas Pay: From 3800 To 3906		L		G	GL Bar. Press.
Producing Through:		Casing	Tubing	Type Well — Single — Braden head — G.G. or G.O. Dual	
Date of Completion 8-8-78		Packer		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.	
1.						545		540		7 day 3 hrs.
2.						40		435		
3.										
4.										
5.										

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-MCFPD @ 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^{-S}) _____ P_c **557** P_c² **310,249**

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(P_c Q)^2 (1-e^{-S})}$	P _w ²	P _c ² - P _w ²	Cd $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.	447					199,809	110,440		
2.									
3.									
4.									
5.									

chacra = 479 mcfpd

ABSOLUTE POTENTIAL: **1597 total** **R-5648** MCFPD: n **2.81ⁿ = 2.16**

COMPANY **Caulkins Oil Co.** WITNESSED _____

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

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