

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

Form C-122
Revised 12-1-54

Well Otero Chacra			Formation Chacra			County Rio Arriba		
Initial X		Annual		Special		Date of Test 8-19-77		
Company Caulkins Oil Co.				Lease Breech			Well No. 314	
Unit P	Sec. 18	Twp. 26 N	Range 6 W	Purchaser Gas Co. of New Mexico				
Casing 4 1/2	Wt. 10.5	I.D. 4.00	Set at 4054	Pack. 3891	To 3995			
Tubing 1 1/4"	Wt. 2.3	I.D. 1.350	Set at 3910	Perf. 3910	To			
Gas Pay:	From 3890	To 3997	L 3910	G .660	GI. 2580	Bar. Press.		
Producing Through:		Casing	Tubing Yes		Type Well - Single - Braden head - G.O. or G.O. Lined Gas-Gas Dual			
Date of Completion 8-12-77		Packer 3066			Reservoir Temp.			

OBSERVED DATA

Tested Through:						Type of Taps		
Prover ☐		Choke ☒		Meter ☐				
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.	
1.	7 days					1003		Pkr.
2.						26		Pkr.
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_1}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 14.7 psia
1.	14.1605		38	1.000	1.000	1.000	538
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 _____

24.62 (1-e^{-S}) **0.171** **1015** p_c **1,030,225** p_c²

No.	$\frac{p_w}{p_1}$ psia	p_1^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	p_w^2	$p_c^2 - p_w^2$	Cal $\frac{p_w}{p_c}$	$\frac{p_w}{p_c}$
1.		1444	12.25	175.44	30,001	31,445	998,780	177	
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **550** MCFPD; n **.75**

COMPANY **Caulkins Oil Company** WITNESSED _____

ADDRESS **P. O. Box 340, Bloomfield, New Mex.** COMPANY _____

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

