

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

Form O-122
Revised 12-1-55

Well No. Otero Chacra		Formation Chacra		County Rio Arriba	
Initial X	Amount	Special	Date of Test		
Company Caulkins Oil Company		Lease Breech "B"		Well No. 121	
Unit D	Sec. 7	Twp. 26 N	Range 6 W	Purchaser Gas Company of New Mexico	
Casing 4 1/2"	Wt. 10.5	I.D. 4.000	Set at 3950	Perf. 3822	To 3912
Tubing 1 1/4"	Wt. 2.3	I.D. 1.350	Set at 3850	Perf. 3850	To
Gas Pay:	From 3816	To 3914	L 3850	G .660	GL 2541 Bar. Press.
Producing Through:		Casing	Tubing Yes	Type Well - Single - Broken head - G.G. or G.O. Dual Gas-Gas Dual	
Date of Completion 8-6-77		Packer 2980		Reservoir Temp.	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐					Type of Test					
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.	2 Days					964		PKR		3 Hrs.
2.						30		PKR		
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_t}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor	Compress. Factor F_{pv}	Rate of Flow Q (10°F) (1000 psia)
1.	14.1605		42	1.000	1.000	1.000	595
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ den. Specific Gravity Flowing Fluid _____
 γ_g **24.62** ($1-e^{-S}$) **0.169** P_o **976** P_o^2 **952,576**

No.	P_w psia	P_t^2	F_o	$(F_o)^2$	$(F_o)^2 (1-e^{-S})$	P_w^2	$P_o^2 - P_w^2$	Cal P_w	$\frac{1-w}{P_o}$
1.	42	1764	14,6489	214.59	36,266	38,030	914,567	195	0.1998
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **613** MCFPD; η **.75**

COMPANY **Caulkins Oil Company** WITNESSED _____

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

AGENT AND TITLE *Charles DeYoung* Supt.