

**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 8-18-77		
Company Caulkins Oil Company		Lease Breech A		Well No. 291	
Int. J	Sec. 17	Twp. 26N	Range 6W	Purchaser Gas Co. of New Mexico	
Casing 4 1/2"	Wt. 10.5#	I.D. 4.000	Set at 4050	Perf. 3930	To 4034
Tubing 1 1/4"	Wt. 2.3#	I.D. 1.350	Set at 3940	Perf. 3940	To
Gas Pay:	From 3930	To 4050	L	G	GL Bar. Press.
Producing Through:		Casing Yes	Tubing	Type Well - Single - Braden head - G.O. or G.O. Dual Gas-Gas Dual	
Date of Completion 8-11-77		Packer 3132		Reservoir Temp.	

OBSERVED DATA

Tested Through:			Prover ☐	Choke ☒	Meter ☐	Type of Tests				
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.	7 day					970		Pkr.		3 hrs.
2.						26		Pkr.		
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{\frac{h_w}{p_t}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor G _p	Compress. Factor F _{pv}	Rate of Flow G - MCF PD 915,025 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 _____

P_c **24.62** (1-e^{-S}) **0.172** P_c **982** P_c² **964,324**

No.	$\frac{P_w}{P_t}$ psia	P_t^2	F_c^2	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_w^2	$P_c^2 - P_w^2$	Cal P _w	$\frac{P_w}{P_c}$
1.		1444	13.246	175.44	30,177	31,621	932,703	177	
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **551** MCFPD: **75**

COMPANY **Caulkins Oil Company** WITNESSED _____

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

AGENT AND TITLE **Charles W. Vignier Supt.**

