

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

Form O-122
Revised 12-1-55

Well: South Blanco		Formation: Pictured Cliffs		County: Rio Arriba	
Initial: X	Annual	Special	Date of Test: 8-13-77		
Company: Caulkins Oil Company		Lease: Breech "B"		Well No.: 121	
Unit: D	Sec.: 7	Typ.: 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.: 2902	To: 2956
Tubing: 1"	Wt.: 1.7	I.D.: 1.049	Set at: 2940	Perf.: 2940	To:
Gas Pay: 2900	From: 2960	To:	L: G	GL:	Bar. Press.
Producing Through: Yes		Type Well - Single - Braden head - G.G. or G.G. Dual: Gas - Gas Dual			
Date of Completion: 8-6-77		Packer: 2980		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. psia	Diff. h _w	Temp. °F.	Press. psia	Temp. °F.	Press. psia	Temp. °F.	
1.	7 Days					915		915		3 Hrs.
2.						34		225		
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_p	Rate of Flow Q-MSCFD @ 14.7 psia
1.	14.1605		46	1.000	1.000	1.000	651
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_e _____ (1-e⁻³) _____ P_e **927** P_e^2 **859,329**

No.	$\frac{P_w}{P_t}$ psia	P_t^2	$F Q_c$	$(F Q_c)^2$	$(F Q_c)^2 (1-e^{-3})$	P_w^2	$P_e^2 - P_w^2$	Cal P_w	$\frac{P_w}{P_e}$
1.						56,169	803,160		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **689** MCFPD: **n .85**

COMPANY **Caulkins Oil Company** WITNESSED _____

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

AGENT AND TITLE **Charles Argue** Superintendent

