

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

Form 5-122
Revised 12-1-55

Well No. South Blanco		Formation Pictured Cliffs		County Rio Arriba	
Tested X	Annual	Special	Date of Test 6-8-77		
Company Caulkins Oil Company		Lease Breech "D"		Well No. 137	
Point D	Sec. 11	Twp. 26N	Range 6W	Purchaser Gas Company of New Mexico	
Energy 4 1/2"	Wt. 10.5	I.D. 4.000	Set at 3200	Perf. 3080	To 3146
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 3032	Perf. 3032	To
Gas Pay:	From	To	L	G	GL
Casing		Tubing		Type Well -- Single -- Broken head -- G.C. or G.O. -- 2	
Producing Through:		Tubing		Single Gas	
Date of Completion 5-28-77		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.	7 days					1000		1000		3 hrs.
2.						65		732		
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{\frac{h_w}{F_t}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor G	Compress. Factor F_{pv}	Rate of Flow Q (Mscf/D) @ 14.7 psia
1.	14.1605		77	1.000	1.000	1.000	1090
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 _____

P_e _____ ($1-e^{-G}$) _____ P_e _____ p_c^2 _____

No.	$\frac{P_w}{F_t}$ psia	P_t^2	$\frac{P_w}{C}$	$(\frac{P_w}{C})^2$	$(\frac{P_w}{C})^2 (1-e^{-G})$	P_w^2	$P_c^2 - P_w^2$	Cal $\frac{P_w}{P_c}$	$\frac{1-e^{-G}}{P_c}$
1.						553,536	470,588		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **2,111** MCFPD; D **85**

COMPANY **Caulkins Oil Company** WITNESSED _____

ADDRESS **P.O. Box 340, Bloomfield, N.M.** COMPANY _____

AGENT AND TITLE *Charles Vequer*

This acreage dedicated to Gas Company of New Mexico.