

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

Form C-122
Revised 12-1-55

Pool: Elanco Mesa Verde		Formation: Mesa Verde		County: Rio Arriba	
Initial: Yes	Annual: no	Special: no	Date of Test: July 2, 1965		
Company: Caulkins Oil Company		Lease: Breach "F"		Well No.: (MD) 45	
Unit: M	Sec.: 35	Twp.: 27 N	Range: 6 W	Purchaser: Southern Union Gas Company	
Casing: 5 1/2"	Wt.: 15.5	I.D.: 4.95	Set at: 6447	Perf.: 4866	To: 5444
Tubing: 1 1/4"	Wt.: 2.3	I.D.: 1.3	Set at: 5185	Perf.: 5185	To: 5444
Gas Pay:	From: 4866	To: 5444	L: 5185	G: .660	GL: 3111
				Bar. Press.: 12	
Producing Through: no		Casing: no		Tubing: yes	
Date of Completion: 6-23-65		Packer: 7345		Reservoir Temp.: 150°	

OBSERVED DATA

Tested Through:		Provel ☐	Choke ☒	Meter ☐	Type of Taps: pipe				
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Provel) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	
1.		3/4"				910		914	3 hours
2.						81	60	572	
3.									
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15,025 psia
1.	14.1605		93	1.000	1.000	1.007	1326
2.							
3.							
4.							
5.							

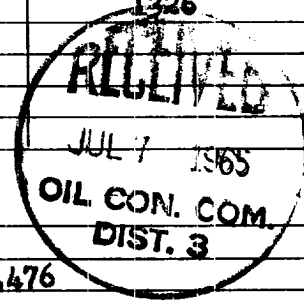
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c _____ (1-e^{-S}) _____ P_c **926** P_c² **857,476**

No.	P _w P _t psia	P _t 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 P _w	F _w / F _c
1.						341,056	516,420		.631
2.									
3.									
4.									
5.									



ABSOLUTE POTENTIAL: **1939** MCFPD: n **(1.66)n 1.4624**

COMPANY **Caulkins Oil Company** WITNESSED _____

ADDRESS **Box 780, Farmington, New Mexico** COMPANY _____

AGENT AND TITLE **Frank Gray Supt.**