

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

Form C-122  
Revised 12-1-55

Well		Formation		County	
South Blanco		Pictured Cliffs		RA	
Initial	Annual	Special	Date of Test		
			8-16-78		
Company		Lease		Well No.	
Caulkins Oil Co.		Breech "E"		109	
Unit	Sec.	Twp.	Range	Purchaser	
M	3	26N	6W	Gas co. of New Mexico	
Casing	Wt.	I.D.	Set at	Perf.	To
7 5/8	26#	6.696	PBTD 5558	2964	2997
Tubing	Wt.	I.D.	Set at	Perf.	To
1"	1.7#	1.049	3910	3910	
Gas Pay:	From	To	L	G	Bar. Press.
	2964	2997			
Producing Through:		Casing	Tubing	Type Well - Single - Braden head - G.C. or G.O. Dual	
			yes		
Date of Completion		Packer	Reservoir Temp.		
8-9-78		3976			

OBSERVED DATA

Tested Through:		Prover <input type="checkbox"/>	Choke <input checked="" type="checkbox"/>	Meter <input type="checkbox"/>	Type of Taps					
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. H <sub>w</sub>	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.		Temp. °F.
1.						570		565		7 days
2.						40		470		
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		52	1.000	1.000	1.000	736
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 \_\_\_\_\_  
 $F_c = \frac{1}{1 - e^{-S}}$  \_\_\_\_\_  $P_c = 582$   $p_c^2 = 338,724$

No.	$\frac{P_w}{P_c}$ psia	$P_c^2$	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1 - e^{-S})$	$P_w^2$	$P_c^2 - P_w^2$	Cal $P_w$	$\frac{P_w}{F_c}$
1.	482					232,324	106,400		
2.									
3.									
4.									
5.									

pc = 70% order 5648

ABSOLUTE POTENTIAL: 1754 Total 1228 MCFPD; n 3.18 = 2.38

COMPANY Caulkins Oil Co. WITNESSED \_\_\_\_\_  
 ADDRESS P.O. Box 780 COMPANY \_\_\_\_\_  
 AGENT AND TITLE Charles Veiper  
C.E.V. Supt.