

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

Form C-122
Revised 12-1-55

Well South Blanco		Formation Pictured Cliffs		County Rio Arriba	
Initial		Annual		Special	
				Date of Test 8-16-78	
Company Caulkins Oil Co.		Lease Breech "C"		Well No. 644	
Unit A	Sec. 12	Twp. 26N	Range 6W	Purchaser Gas Co. Of New Mexico	
Casing 4 1/2"	Wt. 10.5#	I.D. 4.000	Set at 3380	Perf. 3234	To 3341
Tubing 1"	Wt. 1.7	I.D. 1.049	Set at 3304	Perf. 3304	To
Gas Pay:	From 3234	To 3341	L	G	GL Bar. Press.
Producing Through:		Casing	Tubing yes	Type Well - Single - Braden head - G.G. or G.O. - single gas	
Date of Completion 8-9-78		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps					
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW	
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	OF FLOW HR.
1.						1000		1000		7 day 3 hrs
2.						80		690		
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 @ 14.625 psia
1.	14.1605		92	1.000	1.000	1.000	1303
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 _____ (1-e⁻⁵) P_c 1012 P_c² 1,024,144

No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁵)	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	702					492,804	531,340		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 2,276 MCFPD; n 1.927ⁿ=1.747

COMPANY Caulkins Oil Co. WITNESSED _____

ADDRESS P.O. Box 780 Farmington, N.M. COMPANY _____

AGENT AND TITLE C.E. Verouer Supt.