

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Pictured Cliff Formation Pictured Cliffs County Rio Arriba
Initial Yes Annual no Special no Date of Test 9-30-64
Company Caulkins Oil Company Lease Breech "B" Well No. PD-123
Unit B Sec. 7 Twp. 26 N Rge. 6 W Purchaser Southern Union Gas Company
7" 23 & 26 6.276 6843
Casing 4 1/2" Wt. 11.6 I.D. 4.00 Set at 6409-7570 Perf. 3038 To 3058
Tubing 1 1/2" Wt. 2.4 I.D. 1.380 Set at 3030 Perf. 3030 To 3030
Gas Pay: From 3038 To 3058 L 3030 xG .600 -GL Bar.Press. 12
Producing Thru: Casing no Tubing yes Type Well Gas/Gas Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-30-64 Packer 6385 Reservoir Temp. 185

OBSERVED DATA

Tested Through (~~100000~~) (Choke) (~~100000~~) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						934		934		SI 358 hr
1.		3/4"				133	54	603		3 hr
2.										
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-MCFPD @ 15.025 psia
1.	14.1605		145	1.0058	1.000	1.012	2078
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

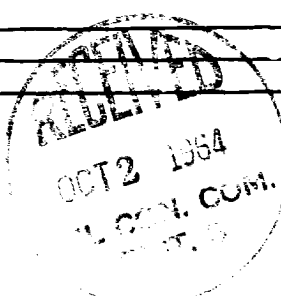
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 946 P_c² 894,916

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	P _w P _c
1.						378,225	516,691		
2.									
3.									
4.									
5.									

Absolute Potential: 3311 MCFPD; n (1.73)n 1.5934COMPANY Caulkins Oil CompanyADDRESS P.O. Box 780, Farmington, New MexicoAGENT and TITLE Frank J. [Signature] SuperintendentWITNESSED _____COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .