

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool South Blanco Dakota Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 5-23-59
Company Caulkins Oil Company Lease Breech "1" Well No. PMD-8
Unit A Sec. 34 Twp. 27N Rge. 6W Purchaser Southern Union Gas Company
Casing 7 5/8" Wt. 26.4# I.D. 6.969 Set at 4662 Perf. 7392 To 7614
Tubing 2 3/8" Wt. 4.7# I.D. 1.995 Set at 7386 Perf. 7374 To 7386
Gas Pay: From 7392 To 7614 L 7374 xG .663 -GL 4867 Bar.Press. 124
Producing Thru: Casing _____ Tubing Yes Type Well GGG Triple
Date of Completion: 5-16-59 Packer Upper 7370 Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

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										
1.		<u>3/4"</u>	<u>255</u>		<u>70°</u>	<u>2360</u>				<u>7 Day SI</u>
2.						<u>255</u>	<u>70°</u>			<u>3 hr.</u>
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.	<u>14,1605</u>		<u>267</u>	<u>.9905</u>	<u>.9535</u>	<u>1.027</u>	<u>3667</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

as Liquid Hydrocarbon Ratio _____ cf/bbl.
ravity of Liquid Hydrocarbons _____ deg.
c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c _____

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.									
2.									
3.									
4.									
5.									

Absolute Potential: 3915 MCFPD; n (.75) 1.0676COMPANY Caulkins Oil CompanyADDRESS P.O. Box 967, Farmington, New MexicoAGENT and TITLE Charles Verquer, Production Foreman

WITNESSED

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. @ 15.05 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 D. A.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility 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 .

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