

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County De Arriba
Initial X Annual _____ Special _____ Date of Test 11-6-58
Company Caulkins Oil Company Lease Breesh Well No. PC-310
Unit P Sec. 13 Twp. 26N Rge. 7W Purchaser Southern Union Gas Company
Casing 5 1/2" Wt. 14# I.D. 5.012 Set at 2500 Perf. 2356 To 2390
Tubing 1 1/4" Wt. 2.40 I.D. 1.380 Set at 2376 Perf. 2376 To _____
Gas Pay: From 2355 To 2390 L 2356 xG .660 -GL 1555 Bar.Press. 12.00
Producing Thru: Casing _____ Tubing yes Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 10-27-58 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Borehole) (Choke) (Borehole) 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						852		852		7 day Shut In
1.		3/4"	99		44	99	44	683		3 hours
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		111	1.0158	.9935	1.012	1541
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 _____ P_c² _____

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.						483.0	263.4		.746
2.									
3.									
4.									
5.									

Absolute Potential: 3731 MCFPD; n .85
COMPANY Caulkins Oil Company
ADDRESS Post Office Box 967, Farmington, New Mexico
AGENT and TITLE James R. Gordon Chief Clerk
WITNESSED _____
COMPANY Southern Union Gas 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 .

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