

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Mesa Verde Formation Mesa Verde County Rio ArribaInitial X Annual _____ Special _____ Date of Test 1-27-60Company Caulkins Oil Company Lease Drosch "B" Well No. "D-58"Unit A Sec. 3 Twp. 26N Rge. 6W Purchaser Southern Union Gas CompanyCasing 5 1/2" Wt. 15.5 I.D. 4.350 Packer # 7285 Set at 7700 Perf. 4924 To 5429Tubing 1 1/2" Wt. 2.5 I.D. 1.380 Set at 5379 Perf. 5379 To _____Gas Pay: From 4924 To 5429 L 5379 xG .660 -GL 3330 Bar. Press. 12 1/2Producing Thru: Casing No Tubing Yes Type Well G.G. DualDate of Completion: 1-18-60 Packer 7285 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Gauge) 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						1039		1039		7 day SI
1.		3/4"				125	55	739	55	3 hr flow
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1603		137	1.0043	.9535	1.015	1886
2.							
3.							
4.							
5.							

ILLECIBLE

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 24.62 (1-e^{-s}) 0.229Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1051 P_c² 1,104,601

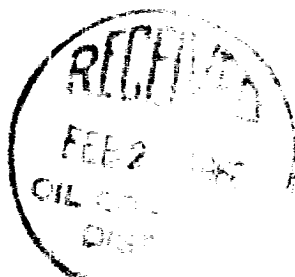
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	751					564.0	341		.714
2.									
3.									
4.									
5.									

Absolute Potential: 3,219 MCFPD; n (2.04)⁷⁵ = 1.7069COMPANY Caulkins Oil CompanyADDRESS P. O. Box 997, Farmington, New MexicoAGENT and TITLE Charles J. Jorgensen 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. @ 15.025 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 .

[illegible]