

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County San Juan
Initial " Annual " Special " Date of Test November 8, 1956
Company Southern Union Gas Company Lease Quinn Well No. #6
Unit A Sec. 20 Twp. 11N Rge. 8W Purchaser Southern Union Gas Company
Casing 5 7/8 Wt. 26.4# I.D. 4.950 Set at 0 - 3560 Perf. 5311 To 5630
Tubing 2 3/8 Wt. 4.7 I.D. 2.0 Set at 5720 Perf. 5690 To 5720
Gas Pay: From 5311 To 5630 L " xG 0.68 -GL " Bar.Press. 12.0
Producing Thru: Casing " Tubing " Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Oct. 16, 1956 Packer " Reservoir Temp. "

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.	
1.										
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.							
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

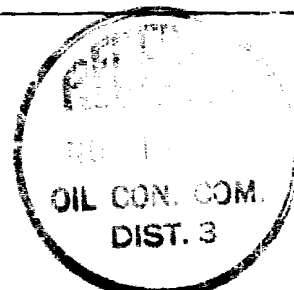
Gas Liquid Hydrocarbon Ratio " cf/bbl.
Gravity of Liquid Hydrocarbons " deg.
F_c " (1-e^{-s})

Specific Gravity Separator Gas "
Specific Gravity Flowing Fluid "
P_c 1068 P_c² 1140.6
P_w 840 P_w² 705.6

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 871.1 MCFPD; n 0.75
COMPANY Southern Union Gas Company
ADDRESS P.O. Box 815, Farmington, New Mexico
AGENT and TITLE Gilbert Noland, Jr. - Jr. Engineer
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 .

L. CON. ENT. DIV. REG. DIST. OFF.		
OFFICE OF THE COMMISSIONER		
SANTA FE, N. M.		
DATE: 1/1/54		
WELL NO. 1		
COUNTY: 1		
TOWNSHIP: 1		
RANGE: 1		
SECTION: 1		
FACILITY: 1		
DATE: 1/1/54		
BY: 1		
CHECKED: 1		
APPROVED: 1		
FILED: 1		