

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County San Juan
Initial " Annual Special Date of Test December 1, 1956
Company Southern Union Gas Company Lease Seymour Well No. 8
Unit 0 Sec. 24 Twp. 31N Rge. 9W Purchaser Southern Union Gas Company
Casing 5 1/2 Wt. 15.5 I.D. 4.950 Set at 5790 Perf. 5206 To 5720
Tubing 2 3/8 Wt. 4.7 I.D. 2.0 Set at 5722 Perf. 5692 To 5722
Gas Pay: From 5206 To 5720 L xG 0.67 -GL Bar.Press. 12.0
Producing Thru: Casing Tubing X Type Well Single-Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11/21/56 Packer Reservoir Temp.

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Manometer~~) 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.	
SI								
1.		<u>3/4</u>		<u>235</u>	<u>76°F</u>	<u>1028</u>	<u>1037</u> <u>675</u>	<u>10 days</u> <u>3 hrs.</u>
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.	<u>12.150</u>		<u>247</u>	<u>0.9050</u>	<u>0.9163</u>	<u>1.024</u>	<u>2915</u>
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 1010 P_c² 1100.4
P_w 687 P_w² 471.9

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.						<u>471.9</u>	<u>628.5</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 4.440 MCFPD; n 0.75

COMPANY Southern Union Gas Company

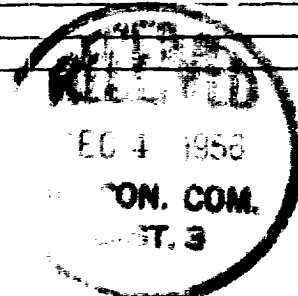
ADDRESS Box 615, Farmington, New Mexico

AGENT and TITLE Gilbert Roland, Jr.

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 .

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SANTA FE DISTRICT OF N.M.	
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