

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MID-POINT PRESSURE TEST FOR GAS WELLS

Pool Blanco Location Mesa Verde County San Juan
Initial X Special Date of Test
Company Southern Union Gas Co. Lease Nordhaus Seal No. 5
Unit Sect. 12 Twp. 31N Rge. 9W Purchaser Southern Union Gas Co.
Casing 7 5/8" Wt. 26.4 I.F. 6.969 Set at 3110 Perf. None To
Tubing 3 1/2" DP* Wt. 13.30 I.F. 2.761 Set at 4555 Perf. None To
Gas Pay: From 1635 To 4645 In Xd 0.672 In Bar. Press. 12.0
Producing Thru: Casing Tubing Type Well Single Gas
Single-Bradenhead G. or G.O. Dual
Date of Completion: June 18, 1957 Packer Reservoir Temp.

OBSERVED DATA

Tested Through X (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						767		767		11 Day S.I.
1.		3/4"	511.0		88°	511.0	88°	765		3 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_t}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{cp}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		523	0.9741	0.9463	1.076	6,377
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Separator Gas
Gravity of Liquid Hydrocarbon Flowing Fluid
F_c 1.0 P_w 779 P_c 606.84
P_w 777 P_w 603.73

No.	P _w P _t (psia)	P _t	P _c	Cal. P _w	P _w P _c
1.					
2.				603.73	3.11
3.					
4.					
5.					

Absolute Potential: 351,604 MCFPD; 0.75COMPANY Southern Union Gas Co.ADDRESS Box 815, Farmington, New MexicoAGENT and TITLE Gilbert Noland, Jr.WITNESSED Wayne SmithCOMPANY Phillips Petroleum Co.

REMARKS

* 3 1/2" I.F. 13.30# Drill Pipe Left in Well as Tubing.

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.
- P_{wf} = Wellbore pressure, psia.

Note: If the pressure drop in the tubing is significant, the pressure drop due to the tubing should be added to the wellbore pressure to obtain the flowing wellhead pressure.

OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
No. Copies Received	
DISTRIBUTION	
	NO. FURNISHED
Operator	
Santa Fe	
District Office	
Field Office	
A. T. G. S.	