

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Pictured Cliff Formation Pictured Cliffs County Rio Arriba
Initial x Annual _____ Special _____ Date of Test June 12, 1958
Company Southern Union Gas Co. Lease Jicarilla Well No. 7-K
Unit 0 Sec. 12 Twp. 25N Rge. 5W Purchaser *Southern Union Gas Co.
Casing 5 1/2" Wt. 15.5# I.D. 1.950 Set at 3872 Perf. 3704 To 3764
Tubing 2 3/8" Wt. 4.7 I.D. 1.995 Set at 3744 Perf. 3729 To 3744
Gas Pay: From 3704 To 3764 L 3729 xG 0.67 -GL 2498 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing x Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: May 31, 1958 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.	
SI						934		934		7 days
1.		3/4"	451		61°	451	61°	845		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.	12.3650		463	0.9990	0.9463	1.053	5699
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 946 P_c² 894.9
P_w 857 P_w² 734.4

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.						734.4	160.5		0.906
2.									
3.									
4.									
5.									

Absolute Potential: 24,562 MCFPD; n 0.85
COMPANY Southern Union Gas Company
ADDRESS P. O. Box 815, Farmington, New Mexico
AGENT and TITLE G. L. Hoffman
WITNESSED _____
COMPANY _____

REMARKS

* This form replaces form C-122 previously filed on 6-12-58, Southern Union Gas Company
will be the purchaser of this well.



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 .

Well No.		3
County		
Section		
Twp.		
Range		
Date		1
Time		1
File		1
Remarks		