

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial _____ Annual _____ Special x Date of Test May 15, 1961
Company Texas Eastern Trans. Corp. Lease Stephens Unit _____ Well No. 1
Unit M Sec. 21 Twp. 30N Rge. 12W Purchaser El Paso Natural Gas Co.
Casing 4 1/2 Wt. 9.5 I.D. 4.000 Set at 6518 Perf. 6254 To 6360
Tubing 2 3/8 Wt. 4.7 I.D. 2.000 Set at 6309 Perf. Open Ended To _____
Gas Pay: From 6254 To 6360 L _____ xG _____ -GL _____ Bar. Press. _____
Producing Thru: Casing _____ Tubing x Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: _____ 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										
1.		<u>.750</u>	<u>72</u>		<u>71</u>	<u>1702</u>	<u>71</u>	<u>1708</u>		<u>3 Hours</u>
2.						<u>72</u>		<u>271</u>		
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.	<u>12.365</u>		<u>84</u>	<u>.9896</u>	<u>.9759</u>	<u>1.007</u>	<u>1,010</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
T_c _____ (1-e^{-S}) _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1720 P_c 29584.00

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>80089</u>	<u>2878311</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 1,031 MCFPD; n .75

COMPANY Well Production Company
ADDRESS 1041 Zuni Drive Farmington, New Mexico
AGENT and TITLE M.A. Neely Tester
WITNESSED Harold Smith
COMPANY Texas Eastern Transmission Corporation

REMARKS

NOTE: Well did not indicate that it was properly cleaned up, I have reason to believe that well would have tested better if it had not have lifted water during test.

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 .