

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesaverde Formation Mesaverde County San Juan
Initial XI Annual _____ Special _____ Date of Test 2 - 3 - 65
Company Southern Union Production Co. Lease NEWSOM Well No. 9-B
Unit 0 Sec. 7 Twp. 26-North Rge. 8 West Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 17.0# I.D. 4.892 Set at 6660 Perf. 4276 To 4360
Tubing 1-1/4 Wt. 2.30# I.D. 1.380 Set at 4311 Perf. 4311 To 4311
Gas Pay: From 4276 To 4360 L 4276 xG .730 -GL _____ Bar.Press. 12.0
Producing Thru: Casing XI Tubing _____ Type Well G. G. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-24-64 Packer 6200 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						1127		1132		41 days
1.	2"	3/4"	8.5		60	485		8.5	60	3 Hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psig x_{max}	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	221.3		8.5	1.000	.9066	1.004	201
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

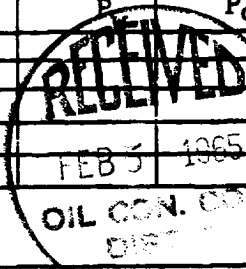
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1144 P_c^2 1308736

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_c	P_w P_c
1.						247009	1061727		
2.									
3.									
4.									
5.									

Absolute Potential: 235 MCFPD; n .75COMPANY Southern Union Production CompanyADDRESS P. O. Box 808 - Farmington, New MexicoAGENT and TITLE Verne Rockhold - Jr. EngineerWITNESSED R. F. HeadrickCOMPANY El Paso Natural Gas Companycc: (3) New Mexico O.C.C.cc: (1) Mr. Paul Clotecc: (1) El Paso Natural Gas Co.El Paso, Texascc: (1) Mr. H. L. Kindricks, Farmington, N.M.cc: (1) File

REMARKS

End of 3 Hr. test through 3/4"
choke pressure 8-1/2# used G.O.R.
tables to Calculate 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 .