

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 .

NEW MEXICO OIL CONSERVATION COMMISSION

3-NHCCC ✓

1-El Paso Nat. Gas Co.

2-Compass (Denver)

1-File

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Pool Basin Dakota Formation Dakota County San Juan

Initial X Annual Special Date of Test 9/1/62

Company Compass Exploration, Inc. Lease Southwest Mounds Well No. 1-2

Unit _____ Sec. 2 Twp. 29N Rge. 14W Purchaser _____

Casing 4-1/2 Wt. 10.5 I.D. Set at 6039 Perf. 5647 To 5664

Tubing 2-3/8 Wt. 4.7 I.D. Set at 5637 Perf. Open Incl'd To

Gas Pay: From 5647 To 5664 L xG .650 -GL Bar.Press.

Producing Thru: Casing _____ Tubing X _____ Type Well Single - Gas _____

Date of Completion: 8/20/62 Packer Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp.

OBSERVED DATA

Tested Through ~~(Power)~~ (Choke) ~~(Motor)~~ Type Taps _____

[illegible]

FLOW CALCULATIONS

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.							
2.							
3.	12.305		210	.9396	.9608	1.021	2521
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 1664 P_c 2,768,896

[illegible]