

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan
 Initial X Annual 1 Special 05 Date of Test October 3, '60
 Company Compass Exploration, Inc. Lease Aztec Well No. #2-35
 Unit P Sec. 35 Twp. 30N Rge. 14W Purchaser El Paso Natural Gas Co.
 Casing 4 1/2" Wt. 11.6 I.D. 4.000 Set at 6104 Perf. 5748 To 5772
 Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5745 Perf. 5745 To Pin Collar
 Gas Pay: From 5748 To 5772 L 5714 xG 0.65 -GL 3714 Bar.Press. 12.0
 Producing Thru: Casing Tubing X Type Well Single
 Date of Completion: Packer None Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp 1340

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.	
1.	2"	3/4"	510		88	2009		2009		SI
2.								1129		3 Hr
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.							
2.							
3.	12.265		522	.9759	.9608	1.055	6140.56
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 P_c (1-e^{-s})

Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 2021 P_c 4084.44

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.									
2.									
3.						1301.88	2782.56		
4.									
5.									

Absolute Potential: 8190.76 MCFPD; n 0.75
 COMPANY Compass Exploration, Inc.
 ADDRESS 1645 Court Place, Denver 2, Colorado
 AGENT and TITLE Albert S. Johnson, Petroleum Engineer
 WITNESSED P. J. Farrelly
 COMPANY Compass Exploration, Inc.

REMARKS



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 .

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