

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool _____ Formation _____ County _____
Initial _____ Area _____ Special _____ Date of Test _____
Company _____ Lease _____ Well No. _____
Unit _____ Sec. 5 _____ Rge. 9W _____ Purchaser _____
Casing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing _____ Type Well _____
Date of Completion: _____ Packer _____ Single-Bradenhead-G. G. or G.O. Dual _____
Reservoir Temp. _____
Tested Through (Prover) (Choke) (Meter) _____

OBSERVED DATA

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.	Press. psig	Temp. °F.	
	7.0				221				177	70	7 1/2
											3 hours

FLOW CALCULATIONS							Rate of Flow Q-MCFPD @ 15.025 psia
Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}		
12.350		1.9	.9995	.9608	1.015		22.0

PRESSURE CALCULATIONS

Hydrocarbon Ratio _____ cf/bbl.
Liquid Hydrocarbons _____ deg.
(1-e^{-s}) _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 617 P_c 30,609

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
					15,225	325,164		

Potential: _____ MCFPD; n _____

ORIGINAL SIGNED BY D. K. BRYANT

REMARKS

RECEIVED
MAY 20 1959
OIL CON. COM.
DIST. 3

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 .

OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
No. Copies Received	3
DATE	
BY	
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