

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Alamosa Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 9-13-60
Company Stephen H. Kinney Lease Federal Well No. 1
Unit A Sec. 3 Twp. 26N Rge. 8 W Purchaser _____
Casing 4 1/2 Wt. 9 1/2 I.D. _____ Set at 2294 Perf. 2202 To 2284
Tubing 1 1/2 Wt. 1.7 I.D. _____ Set at 2200 Perf. 2175 To 2200
Gas Pay: From 2202 To 2284 L _____ xG 0.600 -GL _____ Bar.Press. _____
Producing Thru: Casing X Tubing _____ 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						684		684		
1.										
2.										
3.		0.750	16		68	45				3 Hrs.
4.										
5.										

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.	12.3650		28	0.9924	1.000	1.000	344
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 696 P_c 484,416

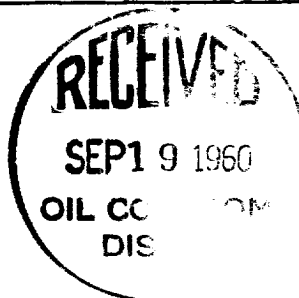
No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.									
2.									
3.	57					3249	481,167		1.00675
4.									
5.									

Absolute Potential: 346 MCFPD; n 0.85 1.00973COMPANY Stephen H. KinneyADDRESS 204 N. Orchard Farming, New MexicoAGENT and TITLE Thomas A. Degan, 1897 N. Dustin, Farmington, New Mexico - Consulting Engineer

WITNESSED _____

COMPANY _____

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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