

NEW MEXICO OIL CONSERVATION COMMISSION

NORMS OFFICE 000

NORMS OFFICE 000 Form C-122

Revised 12-1-55

MULTI-POINT BACK-PRESSURE TEST FOR GAS WELLS

Pool Jalnet Formation Iates County Lea

Initial _____ Annual _____ Special X Date of Test 12-2-12-6 1957

Company Sinclair O & G Co. Lease Crosby B Well No. 1

Unit N Sec. 28 Twp. 25 Rge. 37 Purchaser El Paso Nat. Gas Co.

Casing 7 Wt. 24 I.D. _____ Set at 3150 Perf. _____ To _____

Tubing 2 1/2 Wt. 6.5 I.D. 2.441 Set at 2578 Perf. _____ To _____

Gas Pay: From 2590 To 2590 L 2578 xG .660 -GL 1701 Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single

Date of Completion: 7-42 Packer _____ Reservoir Temp. ?

OBSERVED DATA

Tested Through ~~(Prover) (Choke)~~ (Meter)Type Taps Flange

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.	4"	1.000	110	5.29	46	335 111				72 24
2.										
3.										
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.	6.133	25.51		1.0137	.9535	1.013	154
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 5.866 (1-e^{-s}) 0.111

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 348.2 P_c² 121.2

No.	P _w P _t (psia)	P _c 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.	124.2	15.4	0.903	0.815	0.090	15.4	105.7	124.5	.358
2.									
3.									
4.									
5.									

Absolute Potential: 174 MCFPD; n 0.771COMPANY Sinclair O & G Co.ADDRESS Box 1470 Midland, TexasAGENT and TITLE Ray Ford Gas Analyst

WITNESSED _____

COMPANY _____

REMARKS

Unable to secure 4 point test on this well. Average Jalnet slope of 0.771 was drawn through one point.

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.

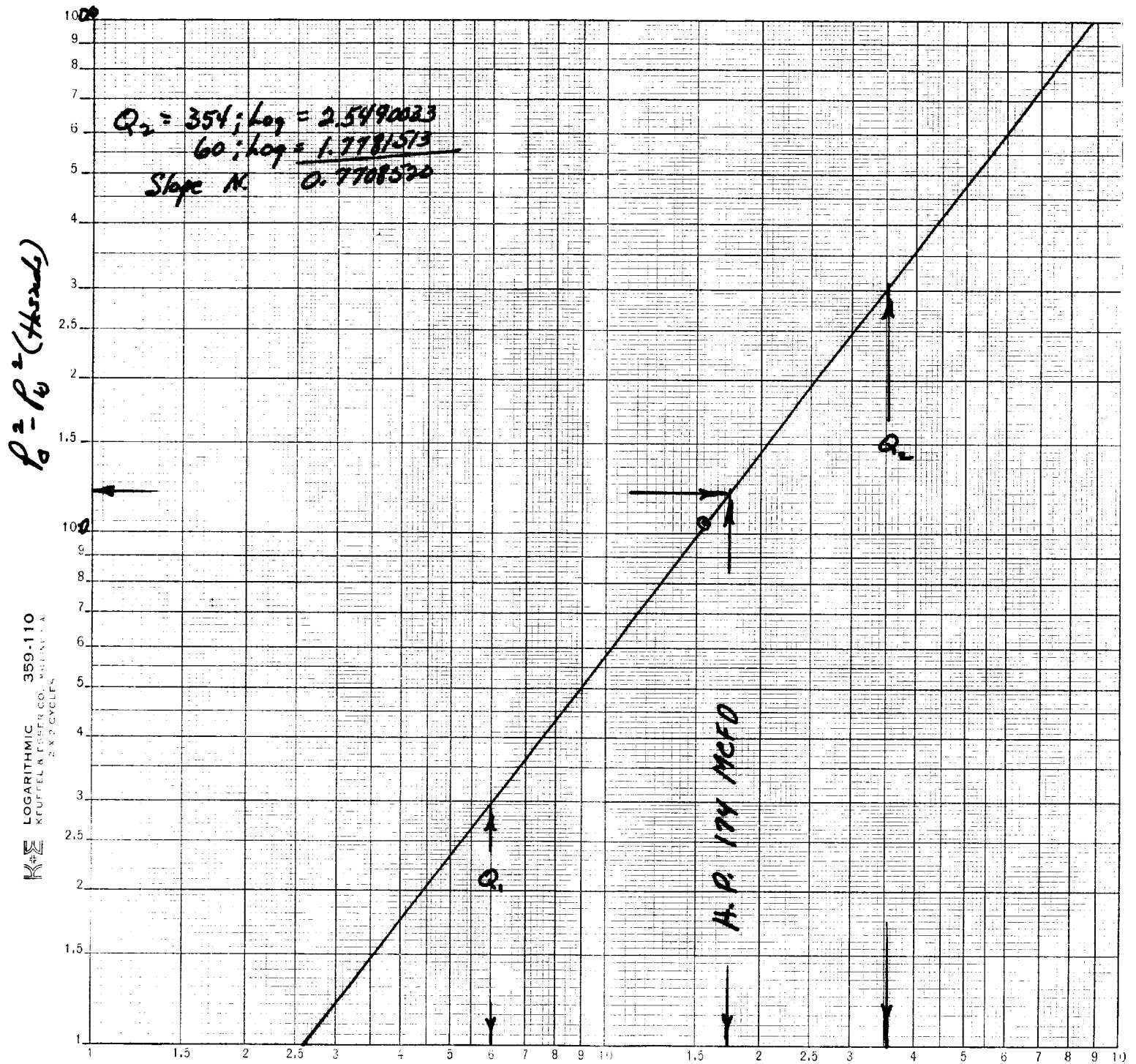
F_t = Flowing temperature correction factor.

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 .

Sinclair O & G Co
 Crosby B #1
 N-28-25-37, Lea Co N. Mex
 12-6-57
 AP - 174 MCFD



$$Q = \text{MCFD} - 15.025 \text{ PSIA @ } 60^\circ$$

$\text{COMPR}_1 = \text{P}_1 : \text{P}_2 = 1 : 2$
 $\text{ETG}_1 = \text{P}_1 : \text{O}_1$
 ACCOMPT_1

06 @ 1000 - 0000 - 0000 - 0000