

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Drinkard Formation Drinkard County LeaInitial X Annual _____ Special _____ Date of Test 7-15/7-22-60Company Wolfson Oil Company Lease Fred Turner Well No. 1Unit P Sec. 6 Twp. 20 Rge. 38 Purchaser El Paso Natural Gas CompanyCasing 8 5/8 Wt. 21#-15# I.D. _____ Set at 7015 Perf. _____ To _____Tubing 2 Wt. 4.7 I.D. _____ Set at 4150 Perf. _____ To _____Gas Pay: From 6898 To 6955 L 4150 xG .654 -GL 2922 Bar. Press. 13.2Producing Thru: Casing _____ Tubing X Type Well SingleDate of Completion: 2-5-60 Packer 4120 Single-Bradenhead-G. G. or G.O. Dual 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.	
SI						2090				
1.	1	2.000	550	2.56	82	1907				72
2.	1	2.000	519	6.25	97	1572				24
3.	1	2.000	530	13.69	94	1236				24
4.	1	2.000	526	24.01	88	1045				24
5.										24

FLOW CALCULATIONS

No.	Coefficient Flange (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.	25.58	39.97	53.6	.9795	.9578	1.053	959.5
2.	25.58	57.67	53.6	.9662	.9578	1.043	1,424
3.	25.58	86.23	53.6	.9688	.9578	1.048	2,145
4.	25.58	112.85	53.6	.9741	.9578	1.049	2,874
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 53.600 cf/bbl.
Gravity of Liquid Hydrocarbons Avk. 53.4 @ 60 deg.
F_c 9.936 (1-e^{-s}) .182Specific Gravity Separator Gas .654
Specific Gravity Flowing Fluid .7653
P_c 2103.2 P_c 4423.4

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.	1920.2	3687.2	9.533	90.88	16.54	3702.7	720.7	1924.3	.88
2.	1585.2	2512.8	14.149	200.19	36.43	2549.2	1874.2	1596.6	.76
3.	1249.2	1560.5	21.313	454.24	82.67	1643.2	2780.2	1667.3	.79
4.	1058.2	1119.8	28.556	815.74	145.74	1125.5	3154.9	1125.0	.84
5.									

Absolute Potential: 3,900 MCFPD; n 1.000COMPANY Wolfson Oil CompanyADDRESS 2612 Fannin Street - Midland, TexasAGENT and TITLE Hal Freedman, Production Supt.WITNESSED J. B. MurrayCOMPANY El Paso Natural Gas Company

REMARKS

Poor Point Alignment. Slope of 1.000 drawn thru highest rate of flow.

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.

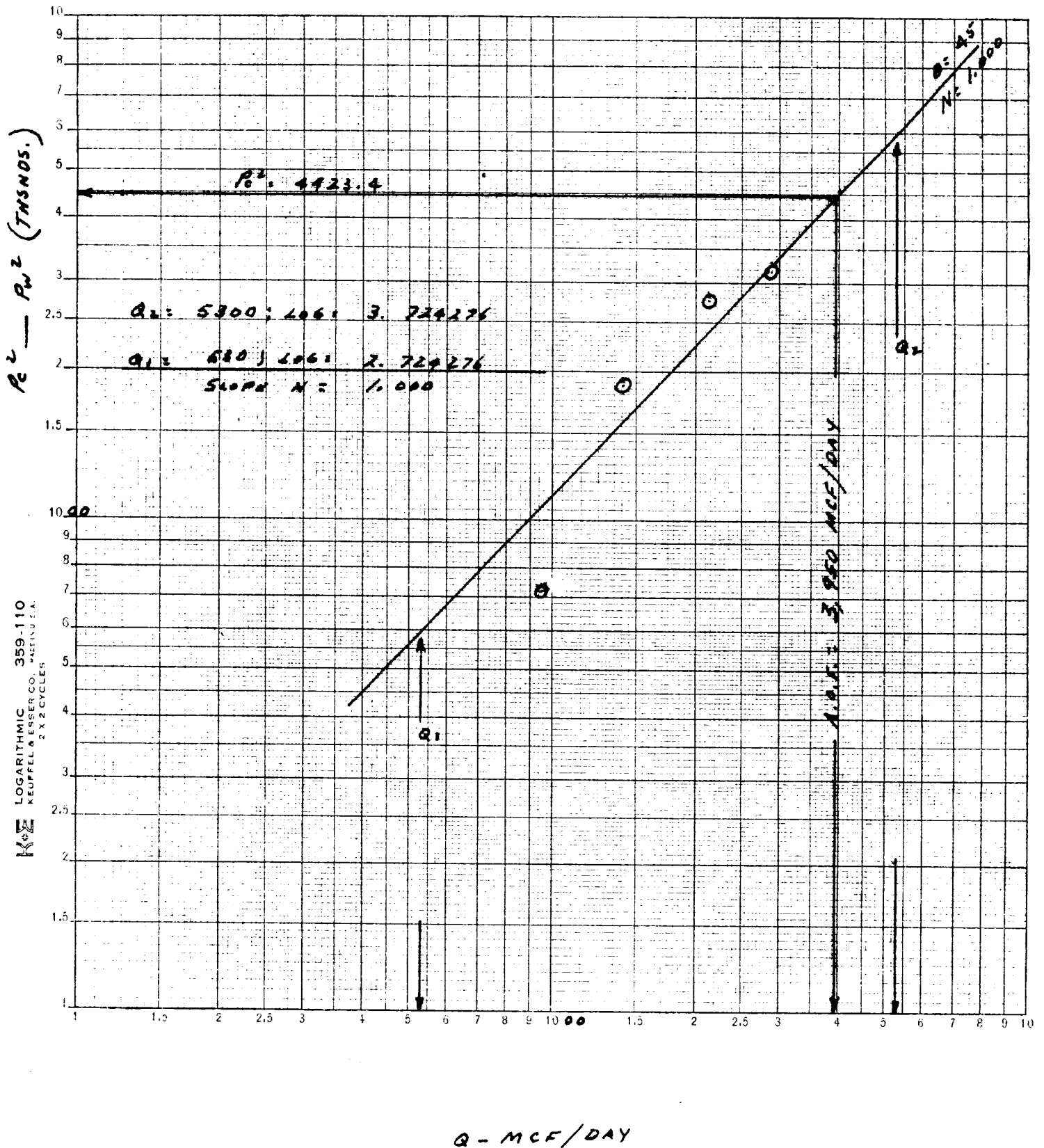
F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility 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 .

JOELSON OIL COMPANY
 FRED TURNER #1
 P-6-20-38
 LEA COUNTY, NEW MEXICO
 7-22-60



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