

MULTI-TEST REPORT

Pool Tubb Gas Tubb Lea, New Mexico
 Initial x 8-26/30-57
 Company Shell Oil Company Livingston 2
 Unit W Sec. 3 Twp. 21-S R. 37-E El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15.5 Lbs. 4.950 6674 6185 6329
 Tubing 2 1/2 Wt. 6.5 Lbs. 2.441 6590 6563 6566
 Gas Pay: From 6185 To 6329 6185 Mix 0.757 4682 13.2
 Producing Thru: Casing x G. O. Dunl
 Date of Completion: 5-6-57 6500' 1040'

Tested Through (Prove) (Choke)

Flange

No.	Flow Data		Pressure		Temperature		Duration	
	(Prove) (Line) Size	(Choke) (Orifice) Size	psig	psig	°F	°F	of Flow min.	hr.
SI							1722	72
1.	4	1.900	600	18.49	60		1592	24
2.	4	1.900	611	36.00	55		1546	24
3.	4	1.900	616	61.62	54		1437	24
4.	4	1.900	624	81.00	56		1340	24
5.								

No.	Coefficient (Figs) (24-Hour)	$\sqrt{h_{wof}}$	Pressure psig	Temperature °F	Compress. Factor	Rate of Flow Q-MCFPD @ 15.025 psia	Rate of Flow Bbls. oil per 24 hrs.
1.	13.99	106.51	1.0000	0.9393	1.072	1.901	50.73
2.	13.99	149.88	1.0048	0.9393	1.079	2.135	59.86
3.	13.99	196.88	1.0058	0.9393	1.085	2.823	82.89
4.	13.99	227.15	1.0039	0.9393	1.079	3.233	81.76
5.							

Gas Liquid Hydrocarbon Ratio 35.212
 Gravity of Liquid Hydrocarbons 50
 F_c 2.325 $(1-e^{-F_c})$ 0.275 1735.2 3010.9 0.680 0.7796

No.	P_w P_t (psia)	P_t^2	$F_c Q$	F_w	P_w	P_t	P_w^2	P_t^2
1.	1605.2	2576.7	3.49	12.18	3.35	2580.1	430.8	1612.8
2.	1590.2	2528.1	4.96	24.60	6.77	2437.9	573.0	1560.2
3.	1450.2	2103.1	6.56	43.03	11.83	2114.9	896.0	1456.4
4.	1353.2	1831.2	7.52	56.55	15.55	1846.8	1164.1	1360.0
5.								

Absolute Potential: 5.700 0.99

COMPANY Shell Oil Company
 ADDRESS P. O. Box 1977, Hobbs, New Mexico
 AGENT and TITLE P. A. Dennis, Division Exploitation Engineer
 WITNESSED Smith & Ross
 COMPANY El Paso Natural Gas Company

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.

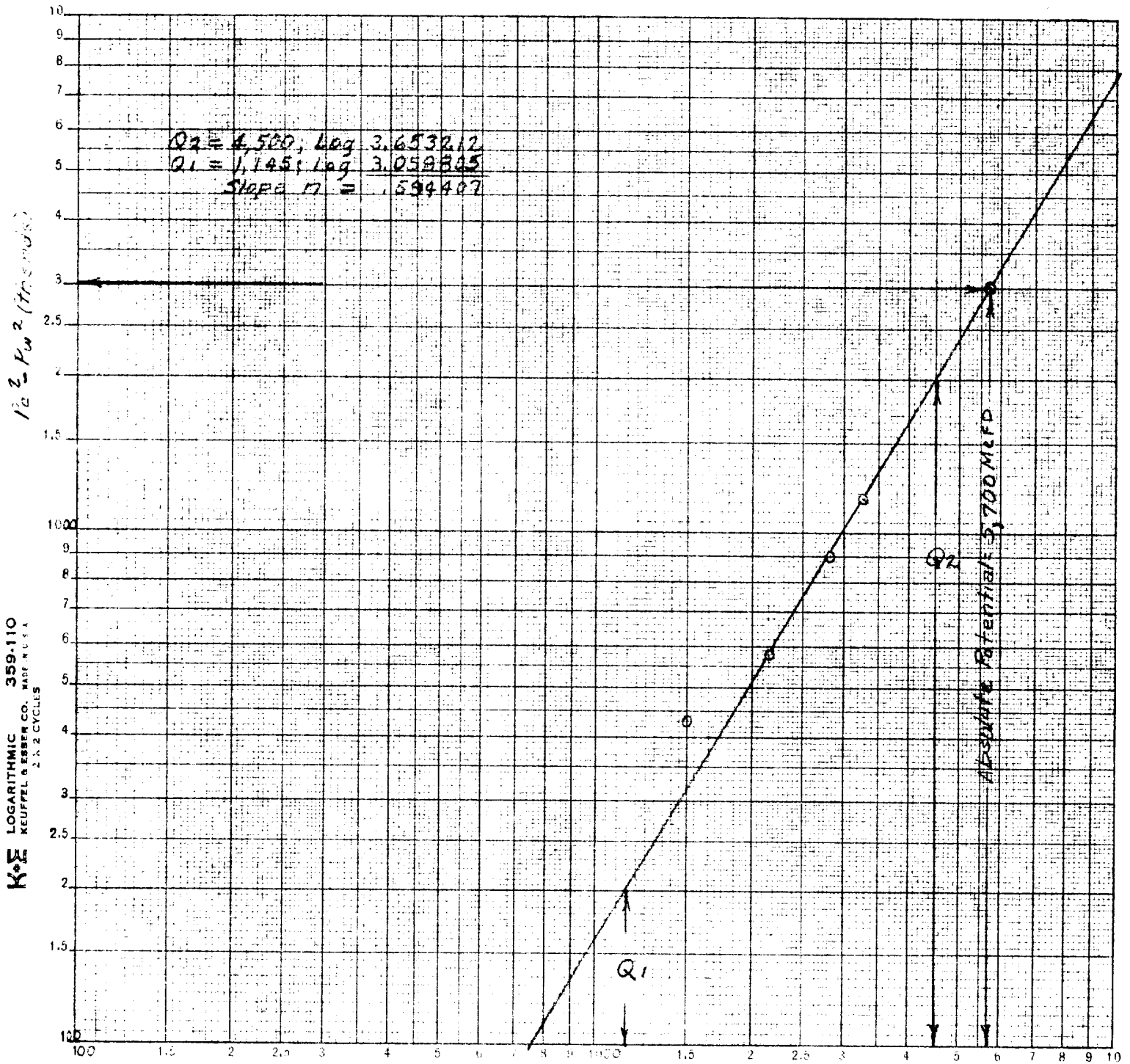
F_t = Flowing temperature correction factor.

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 .

SHELL OIL Co.
 Livingston No. 2 Tubb
 W-3 21-37, Loc. Co. N.Mex.
 8-30-1957



Q - M.F.D. 15.000 psi @ 600