

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC
MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool Blinabry Formation Blinabry County Lea
Initial X Annual _____ Special _____ Date of Test 8-21-56
Company Shell Oil Co. Lease Taylor Glenn Well No. 1
Unit 1 Sec. 3 Twp. 21 Rge. 37 Purchaser El Paso Natural Gas Company.
Casing 5 1/2 Wt. 15.5 I.D. 4.95 Set at 8060 Perf. 5816 To 5850
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 6705 Perf. _____ To _____
Gas Pay: From 5816 To 5850 L 5816 xG .751 -GL 4368 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well G. O. Dual
Single-Br. lenhead-G. G. or G.O. Dual
Date of Completion: 5-22-56 Packer 5899 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								1778		72
1.	1/4	2.250	595.2	81.0	61			1139		24
2.	1/4	2.250	595.2	58.52	61			1210		24
3.	1/4	2.250	582.5	37.21	62			1277		24
4.	1/4	2.250	572.0	14.82	60			1424		24
5.										

FLOW CALCULATIONS

No.	Coefficient (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.	33.10	221.92	608.4	.9990	.9463	1.068	7,418
2.	33.10	188.64	608.4	.9990	"	"	6,305
3.	33.10	148.92	595.9	.9981	"	"	4,973
4.	33.10	93.13	585.2	1.0000	"	1.064	3,104
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 49.379 cf/bbl.
Gravity of Liquid Hydrocarbons 57.0 deg.
F_c 1.793 (1-e^{-s}) 0.260
Specific Gravity Separator Gas .670
Specific Gravity Flowing Fluid .751
P_c 1791.2 P_c 3208.4

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.	1152.2	1327.6	13.300	176.9	46.0	1373.6	1835	1172	.65
2.	1223.2	1496.2	11.305	127.8	33.2	1529.4	1679	1237	.69
3.	1290.2	1664.6	8.915	79.5	20.7	1685.3	1523	1298	.729
4.	1437.2	2065.5	4.565	31.0	8.1	2073.6	1135	1440	.809
5.									

Absolute Potential: 13,300 MCFPD; n 1.000

COMPANY Shell Oil Company
ADDRESS Box 1957, Hobbs, New Mexico
AGENT and TITLE A. M. Puckette
WITNESSED P. N. Randolph
COMPANY El Paso Natural Gas 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.

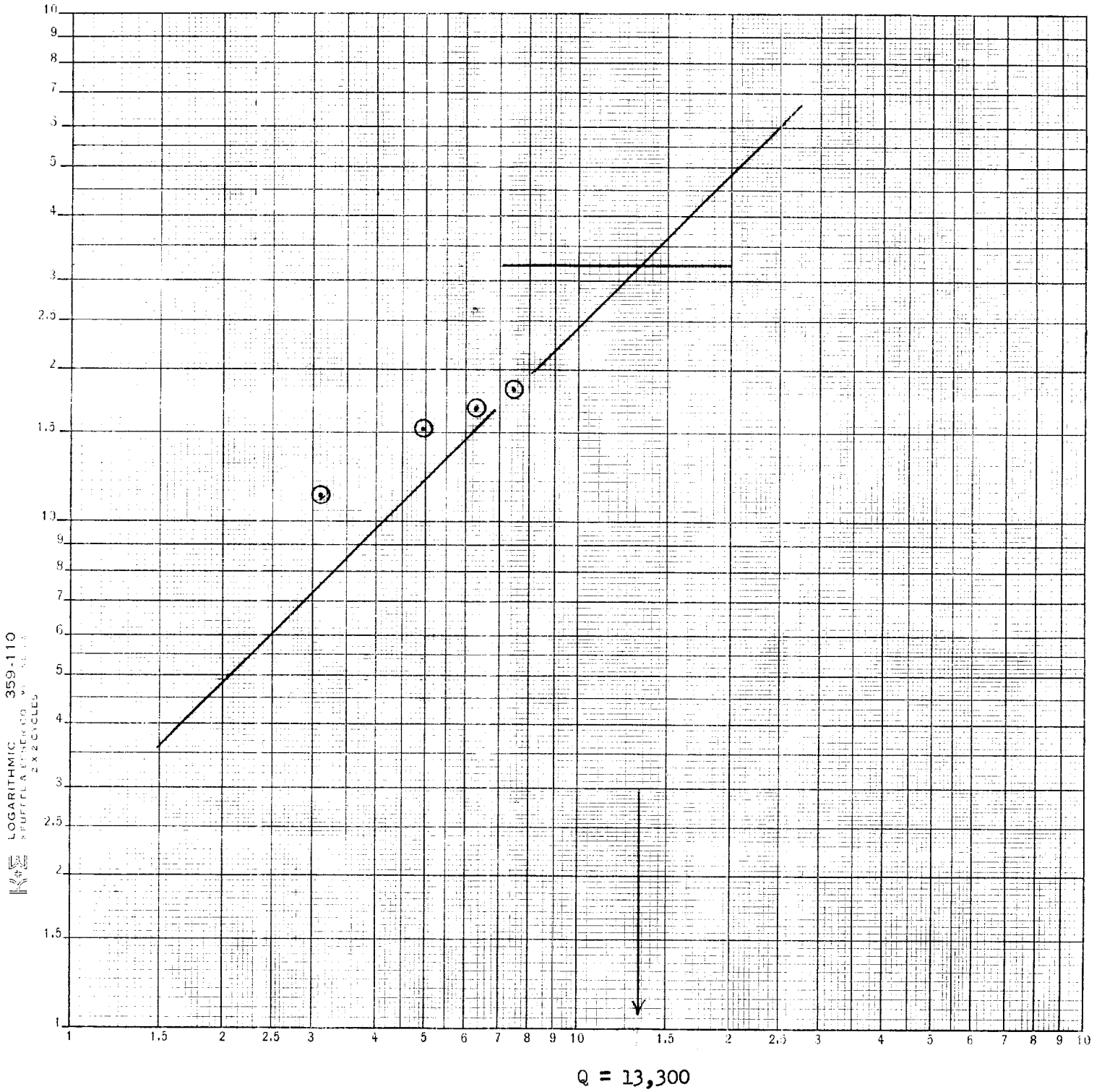
F_t = Flowing temperature correction factor.

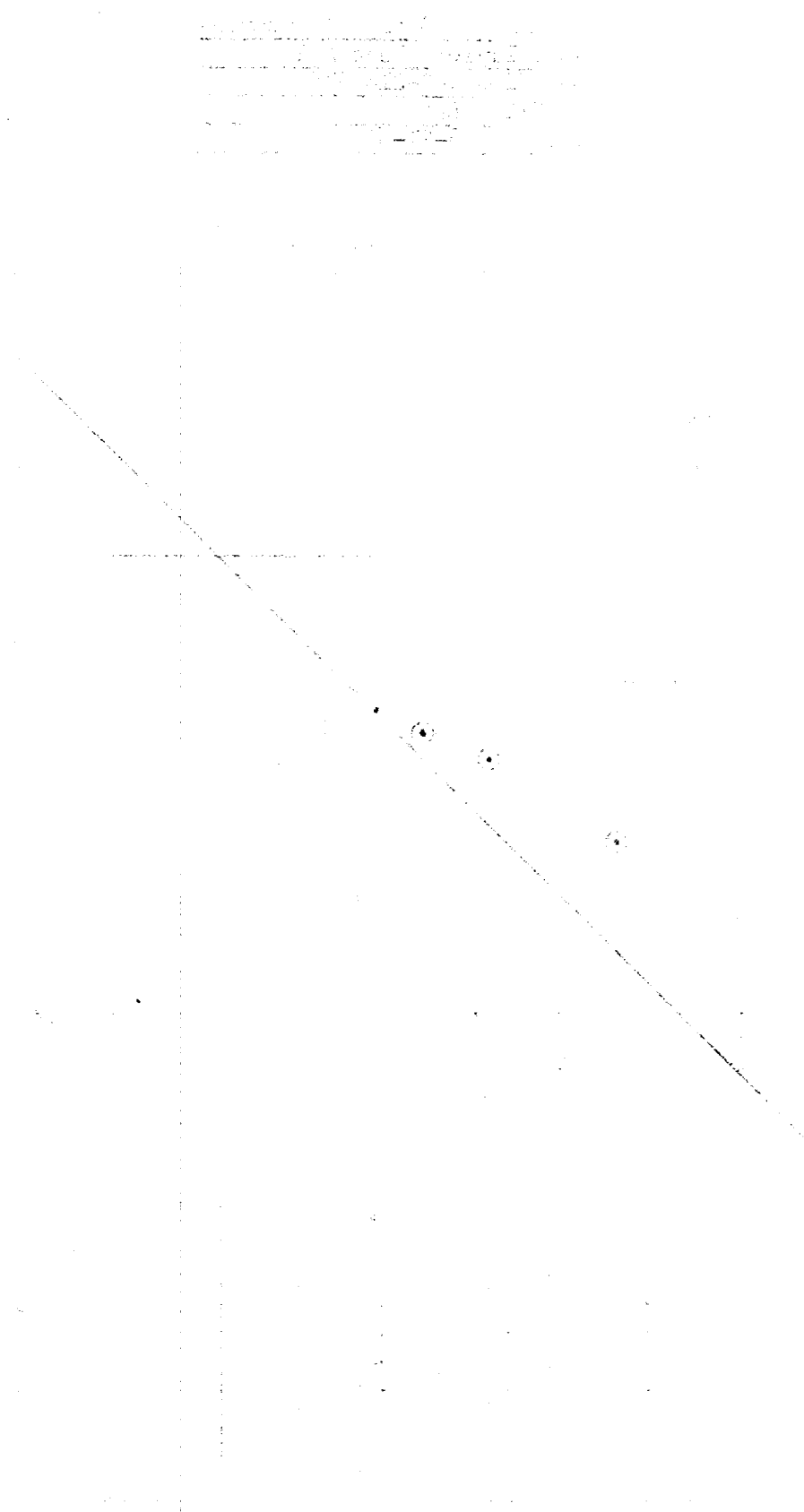
F_{pv} = Supercompressability factor.

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 .

COMPANY Shell Oil Company
WELL Taylor Glenn # 1
LOCATION K-2-21S-37E
COUNTY Lea
DATE 8-21-56





$Y = -0.75X + 6.75$