

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blinebry (Gas) Formation Blinebry County Lea
Initial X Annual _____ Special _____ Date of Test January 4, 1962
Company TEXACO Inc. Lease A. H. Blinebry NCT-4 Well No. 1UT
Unit P Sec. 31 Twp. 22S Rge. 38E Purchaser El Paso Natural Gas Company
Casing 7"OD Wt. 23.0 I.D. 6.366 Set at 7105 Perf. 6100 To 6220
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5497 Perf. _____ To _____
Gas Pay: From 5556 To 5730 L 5497 xG .780 -GL 4288 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Triple Gas-Gas-Oil
Date of Completion: 4-16-59 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.	
SI						1317				72 HOURS
1.	3.068	2.000	41	30	30	1202	70			3
2.	3.068	2.000	53	33	56	1119	70			3
3.	3.068	2.000	59	43	57	989	71			3
4.	3.068	2.000	65	45	33	710	71			3
5.	3.068	2.000	33	26	39	725	71			19

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.	27.52	40.32	54.2	1.0302	.9193		1051
2.	27.52	46.74	66.2	1.0039	.9193		1187
3.	27.52	55.72	72.2	1.0029	.9193		1414
4.	27.52	59.32	78.2	1.0270	.9193		1541
5.	27.52	34.65	46.2	1.0208	.9193		895

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 37,500 cf/bbl.
Gravity of Liquid Hydrocarbons 52.0 deg.
γ_c 9.936 (1-e^{-s}) .255

Specific Gravity Separator Gas .710
Specific Gravity Flowing Fluid .780
P_c 1330.2 P_c² 1769

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.	1215.2	1477	10.44	109.0	27.79	1505	264	1227	.922
2.	1132.2	1282	11.79	139.0	35.44	1317	452	1148	.863
3.	1002.2	1004	14.05	197.4	50.34	1054	715	1027	.772
4.	723.2	523	15.31	234.4	59.77	583	1186	763	.573
5.	738.2	545	8.893	79.08	20.16	565	1204	751	.564

Absolute Potential: 1000 MCFPD; n .249

COMPANY TEXACO Inc.

ADDRESS P. O. Box 1270, Midland, Texas

AGENT and TITLE F. W. Moore, District Gas Foreman

WITNESSED Bobby Boaz

COMPANY El Paso Natural Gas Company

REMARKS

Reclassified from oil to gas well November 8, 1961.

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.

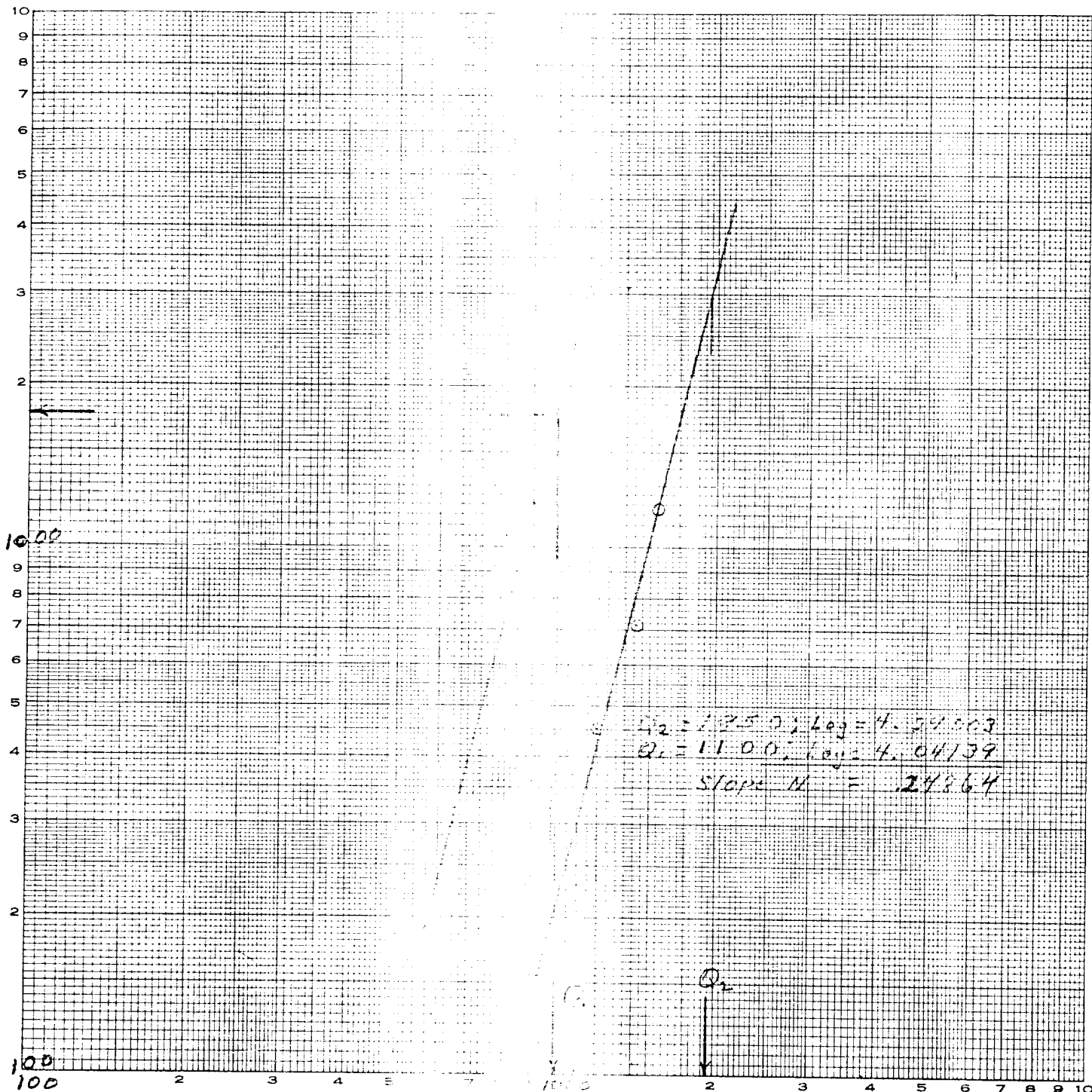
n = Slope of back pressure curve.

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 .

Texaco Inc.
 A.H. Blinbry
 Well No. 1 UT
 P 31 225 325
 Blinbry Gas Plant
 January 4, 1962.

EUGENE DIETZGEN CO.
MADE IN U.S.A.

LOGARITHMIC - 2 CYCLES X 2 CYCLES



$Q - \text{MCFD} = 15.025 \text{ PSIG}$

Absolute Potential 1,000 MCFD