

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Tubb Gas Formation Tubb County Lea
Initial X Annual _____ Special _____ Date of Test Nov. 13-17, 1961
Company TEXACO Inc. Lease A. H. Blinebry NCT-2 Well No. 5LT
Unit M Sec. 29 Twp. 22 Rge. 38 Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 15.5 I.D. 4.950 Set at 6870 Perf. 6124 To 6176
Hydril
Tubing 2-1/16 Wt. 3.40 I.D. 1.750 Set at 6018 Perf. _____ To _____
Gas Pay: From 6124 To 6213 L 6018 xG .795 -GL 4784 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Gas-Oil Dual
Date of Completion: Feb. 11, 1960 Packer 5950 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Pressure~~) (~~Flow~~) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Flow) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1866				24
1.	4.026	1.250	504	6.0	50	1780				24
2.	4.026	1.250	515	13.0	58	1732				24
3.	4.026	1.250	515	41.0	54	1605				24
4.	4.026	1.250	515	75.0	50	1552				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.	9.643	55.70	517.2	1.0098	.9142	1.072	531.5
2.	9.643	82.87	528.2	1.0019	.9142	1.075	786.8
3.	9.643	147.10	528.2	1.0058	.9142	1.077	1405.0
4.	9.643	199.00	528.2	1.0098	.9142	1.077	1908.0
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 29.900 cf/bbl.
Gravity of Liquid Hydrocarbons 70.7 deg.
c 13.97 (1-e^{-s}) .280

Specific Gravity Separator Gas .718
Specific Gravity Flowing Fluid .795
P_c 1879.2 P_c² 3531

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.	1793.2	3215	7.425	55.13	15.44	3230	301	1797	.9562
2.	1745.2	3046	10.990	120.80	33.82	3080	451	1755	.9339
3.	1618.2	2618	19.630	385.30	107.90	2726	805	1651	.8786
4.	1565.2	2450	26.650	710.20	198.80	2649	882	1627	.8658
5.									

Absolute Potential: 6100 MCFPD; n .997

COMPANY TEXACO Inc.ADDRESS P. O. Box 1270, Midland, TexasAGENT and TITLE F. W. Moore, District Gas ForemanWITNESSED R. A. MikelCOMPANY El Paso Natural Gas Company

No.	Gas	Cond.	REMARKS Water	GOR	Shut-In Pres. PSIG
1	531.5	11.7	0	45,427	24 1866
2	786.8	30.4	2	25,881	48 1861
3	1405.0	47.6	0	29,516	72 1864
4	1908.0	62.4	0	30,577	

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.

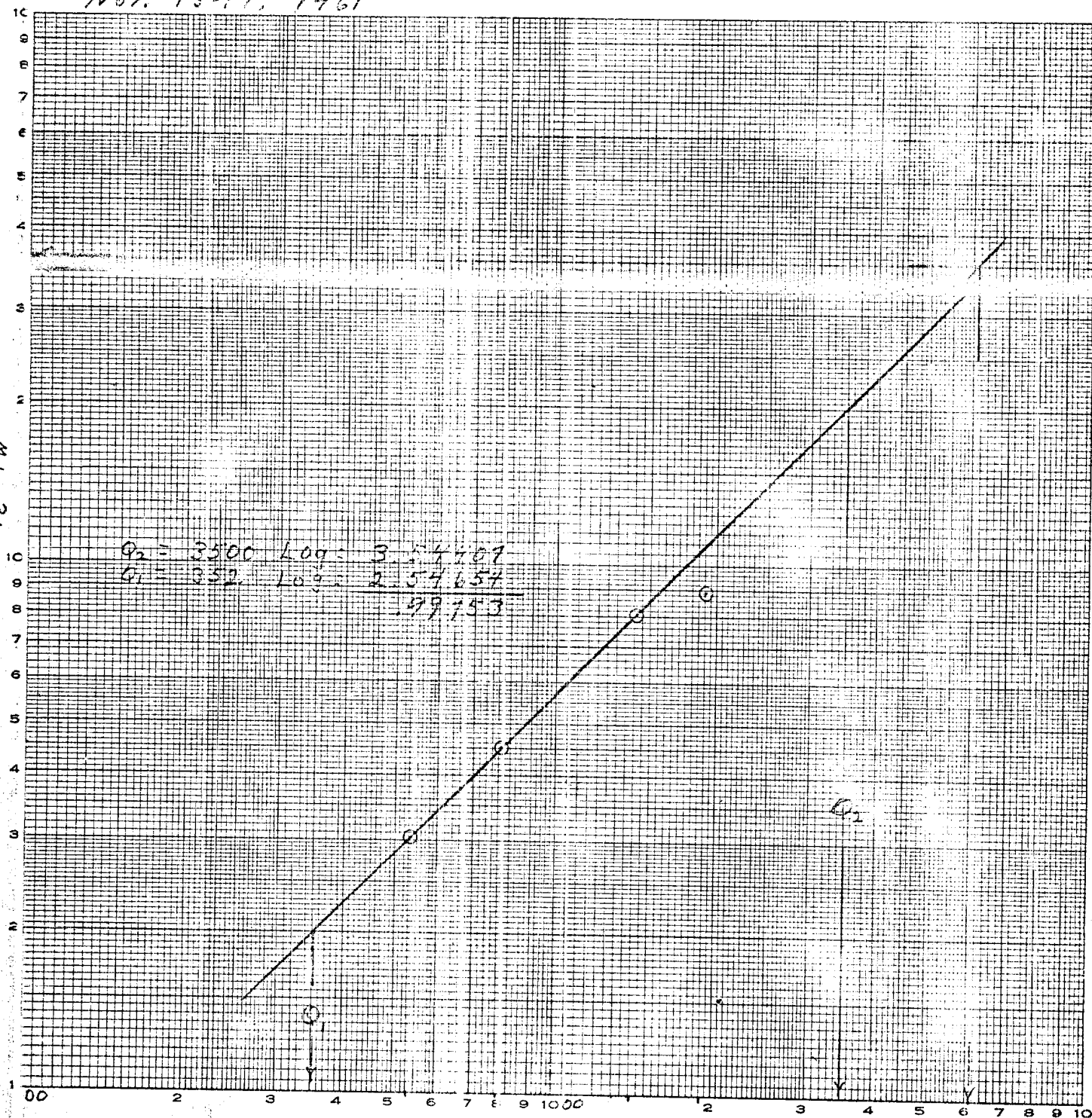
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

Texaco Inc.
 A.H. Blinberry NCT-2
 Well No. 5 (LT) Tulsa
 Unit M S-29, T-22, R-38
 Lea County
 Nov. 13-17, 1961

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

NO. 340-L22 DIETZGEN GRAPH PAPER
LOGARITHMIC - 2 CYCLES X 2 CYCLES

$P_c^2 - P_w^2$



Q - MCFD - 15.025 PSIA

Absolute Potential 6100 MCFD