

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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-1 Well No. 8LT

Unit E Sec. 33 Twp. 22 Rge. 38 Purchaser El Paso Natural Gas Company

Casing 7" Wt. _____ I.D. 23.00 Set at 6299 Perf. 6150 To 6230

Tubing 2-3/8 Wt. _____ I.D. 1.995 Set at 6050 Perf. _____ To _____

Gas Pay: From 6150 To 6230 L 6050 xG .799 -GL 4834 Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Gas-Oil Dual

Date of Completion: March 30, 1959 Packer 5947 Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

Tested Through (Gauge) (Stroke) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1831				72
1.	4.026	1.250	505	5.8	44	1586				24
2.	4.026	1.250	518	9.4	56	1498				24
3.	4.026	1.250	525	25.0	59	1250				24
4.	4.026	1.250	515	34.0	63	1092				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	54.82	518.2	1.0157	.9272	1.070	532.7
2.	9.643	70.66	531.2	1.0039	.9272	1.066	676.1
3.	9.643	116.00	538.2	1.0010	.9272	1.066	1107.0
4.	9.643	134.0	528.2	0.9971	.9272	1.064	1271.0
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 24,995 cf/bbl. Specific Gravity Separator Gas .698

Gravity of Liquid Hydrocarbons 58.5 deg. Specific Gravity Flowing Fluid .799

F_c 9.936 (1-e^{-s}) .283 P_c 1844.2 P_c² 3401

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.	1599.2	2557	5.293	28.01	7.93	2565	836	1601	.8681
2.	1511.2	2284	6.718	45.13	12.77	2297	1104	1515	.8215
3.	1263.2	1596	11.000	121.00	34.24	1630	1771	1277	.6924
4.	1105.2	1221	12.630	159.50	45.14	1266	2135	1125	.6100
5.									

Absolute Potential: 1980 MCFPD; n .936

COMPANY TEXACO Inc.

ADDRESS P. O. Box 1270, Midland, Texas

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

WITNESSED H. A. Mikel

COMPANY El Paso Natural Gas Company

REMARKS

No.	Gas	Cond.	Water	GOR	Shut-In Pres. PSIG
1	532.7	15.87	2.76	33,566	24 Hr. 1823
2	676.1	29.67	2.76	22,787	48 Hr. 1826
3	1107.0	44.85	7.59	24,682	72 Hr. 1831
4	1271.0	53.13	6.21	23,922	

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

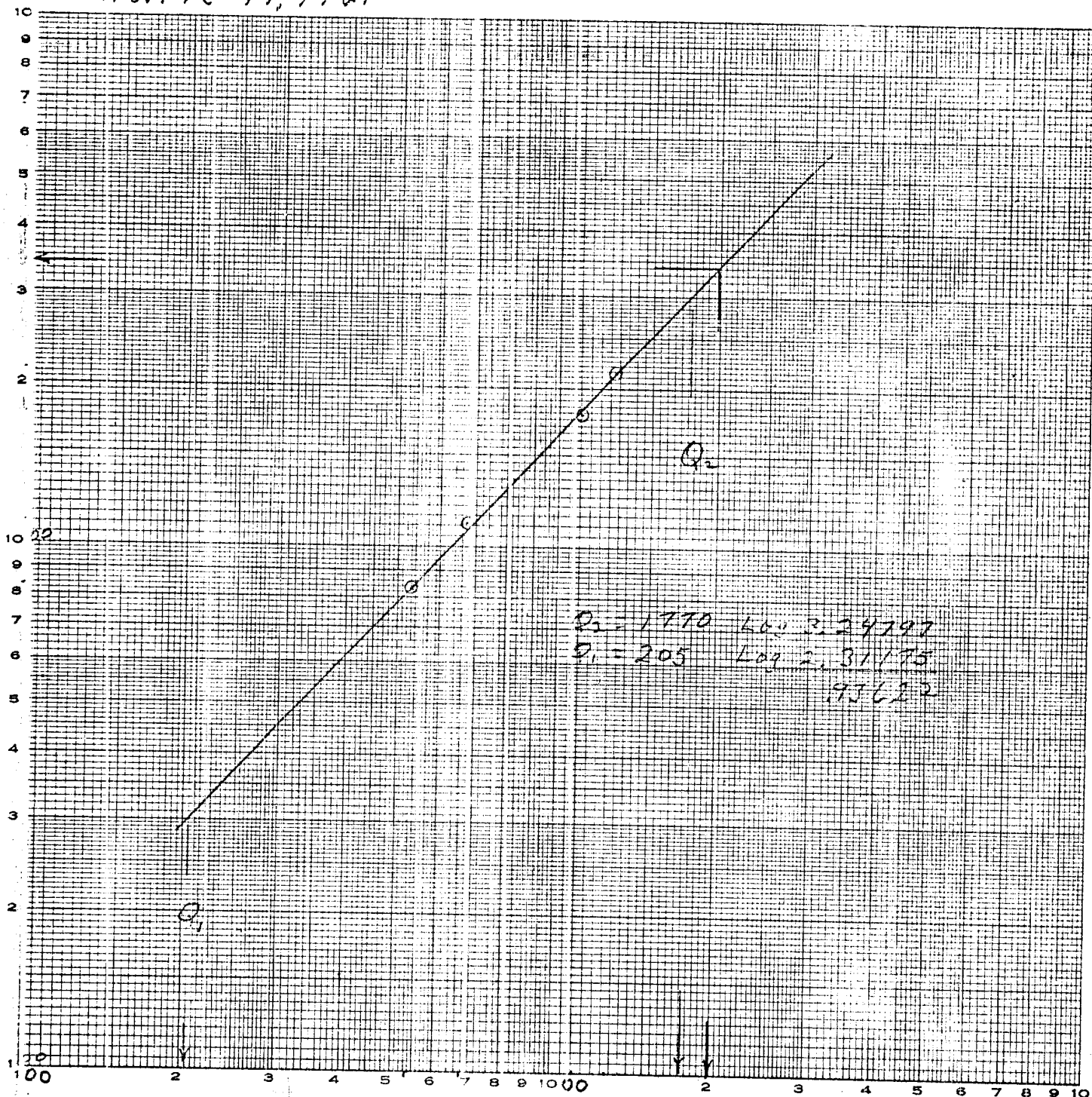
- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing 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. Blinobry NCT-1
 Well No 8 (LT) Tubbs
 Unit E S-33, T-22, R-38
 Lea County
 Nov. 13-17, 1961

NO. 340-L22 DIETZEN GRAPH PAPER
 LOGARITHMIC-2 CYCLES X 2 CYCLES
 EUGENE DIETZEN CO.
 MADE IN U.S.A.

$P_i^2 - P_w^2$



$Q - \text{MCFD} - 15.025 \text{ PSIA}$

Absolute Potential 1980
 $n = .936$