

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnet Gas Formation Yates Sand County Lea
 Initial X Annual _____ Special _____ Date of Test 4-21-22, 1964
 Company Turace Inc. Lease C. C. Fristoe "A" NCT-1 Well No. 6
 Unit D Sec. 35 Twp. 24S Rge. 37E Purchaser _____
 Casing 7" Wt. _____ I.D. _____ Set at 3369 Perf. 2708 To 2796
 Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at 2668 Perf. _____ To _____
 Gas Pay: From 2708 To 2796 L 2668 xG .700 -GL 1868 Bar.Press. 13.2
 Producing Thru: Casing _____ Tubing X Type Well Single
Orig. 2-9-1940 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion Workover 11-28-63 Packer 2574 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						1310				4
1.	4"	1.000	10.6	7.2	106	121.6				4
2.	4"	1.000	9.6	17.7	88	1171				3
3.	4"	1.000	9.6	27.7	68	1121				3
4.	4"	1.000	14.9	34.8	57	885				17
5.	4"	1.000	10.6	36.1	110	855				

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.	6.135	13.09	23.8	.9585	.9258		71.26
2.	6.135	20.09	22.8	.9741	.9258		111.1
3.	6.135	25.13	22.8	.9924	.9258		141.6
4.	6.135	31.27	28.1	1.0029	.9258		178.1
5.	6.135	29.31	23.8	.9551	.9258		159.0

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 T_c 9.936 (1-e^{-s}) 0.120
 Specific Gravity Separator Gas .700
 Specific Gravity Flowing Fluid _____
 P_c 1323.2 P_c 1751

No.	P _w P _t (psia)	P _c 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.	1239.2	1585	.7080	.5013	.06016	1585	166	1259	.9515
2.	1184.2	1402	1.104	1.219	.1463	1402	349	1184	.8948
3.	1134.2	1286	1.467	1.980	.2376	1286	465	1134	.8570
4.	898.2	806.8	1.770	3.133	.3760	807.2	944	898.4	.6790
5.	868.2	753.8	1.580	2.496	.2995	754.1	997	868.4	.6563

Absolute Potential: 220 MCFPD; n .632

COMPANY Turace Inc.
 ADDRESS Box 1270, Midland, Texas
 AGENT and TITLE F. W. Moore, District Supervisor (Gas) F. W. Moore
 WITNESSED Earl Smith
 COMPANY El Paso Natural Gas Company

REMARKS

Well originally completed as oil well in Langlie - Mattix Pool
 Plugged back to Yates Sand November 28, 1963

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 .

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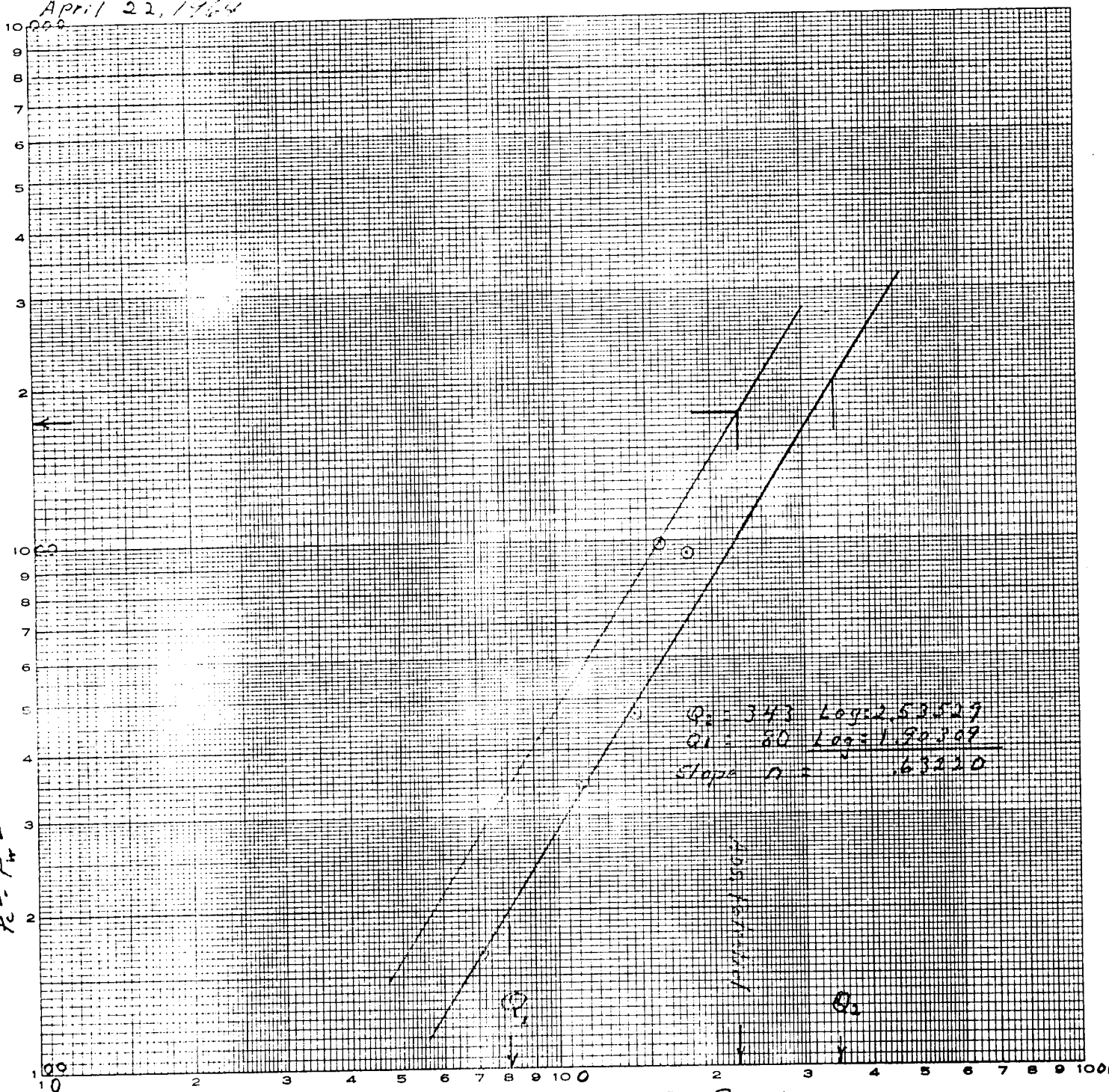
HOBBSON OFFICE O. C. C.

APR 30 11 01 AM '64
HOBBSON OFFICE O. C. C.

Texaco Inc.
 C.C. Frisbee "A" NCT-1
 Well No. 6
 D, S-35, T-245, R-37E
 Lea County, New Mexico
 Jalmat Gas Pool
 April 22, 1964

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

NO. 340-LR2 DIETZGEN GRAPH PAPER
 LOGARITHMIC - 2 CYCLES X 2 CYCLES
 $P_2 - P_1$



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

Absolute Potential 220
 Slope $n = .632$