

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 I Annual _____ Special _____ Date of Test July 30, 1964
Company TEXACO Inc. Lease A. H. Blinbry NCT-1 Well No. 16
Unit L Sec. 33 Twp. 22-S Rge. 38-E Purchaser None
Casing 2-7/8 Wt. 6.50 I.D. 2.441 Set at 6300 Perf. 6151 To 6208
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6151 To 6208 L 6151 xG .731 -GL 4496 Bar.Press. 13.2
Producing Thru: Casing I Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-22-64 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~ROVEX~~)(~~ORIFICE~~) (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.	
SI								
1.	3.068	1.750	51	7.5	115	1539		24
2.	"	"	52	26.0	113	1454	75	1
3.	"	"	52	40.0	113	1363	75	1
4.	"	"	82	55.0	98	1333	75	1
5.						1180	75	1

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.	20.15	21.93	64.2	.9510	.9225	-	387.7
2.	"	41.17	65.2	.9526	"	-	729.1
3.	"	51.07	65.2	.9526	"	-	904.4
4.	"	72.36	95.2	.9653	"	-	1298
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 115,760 cf/bbl.
Gravity of Liquid Hydrocarbons 35.0 deg.
F_c 5.866 (1-e^{-s}) 0.266

Specific Gravity Separator Gas .705
Specific Gravity Flowing Fluid .731
P_c 1552.2 P_c 2409

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.	1467.2	2153	2.274	5.171	1.375	2154	255	1468	.9457
2.	1376.2	1894	4.277	18.29	4.865	1899	510	1378	.8878
3.	1346.2	1812	5.305	28.14	7.485	1819	590	1349	.8690
4.	1193.2	1424	7.614	57.97	15.42	1439	970	1199	.7724
5.									

Absolute Potential: 2950 MCFPD; n .900COMPANY TEXACO Inc.ADDRESS Box 1270, Midland, TexasAGENT and TITLE F. W. Moore, District Supervisor (Gas) *F. W. Moore*

WITNESSED _____

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.

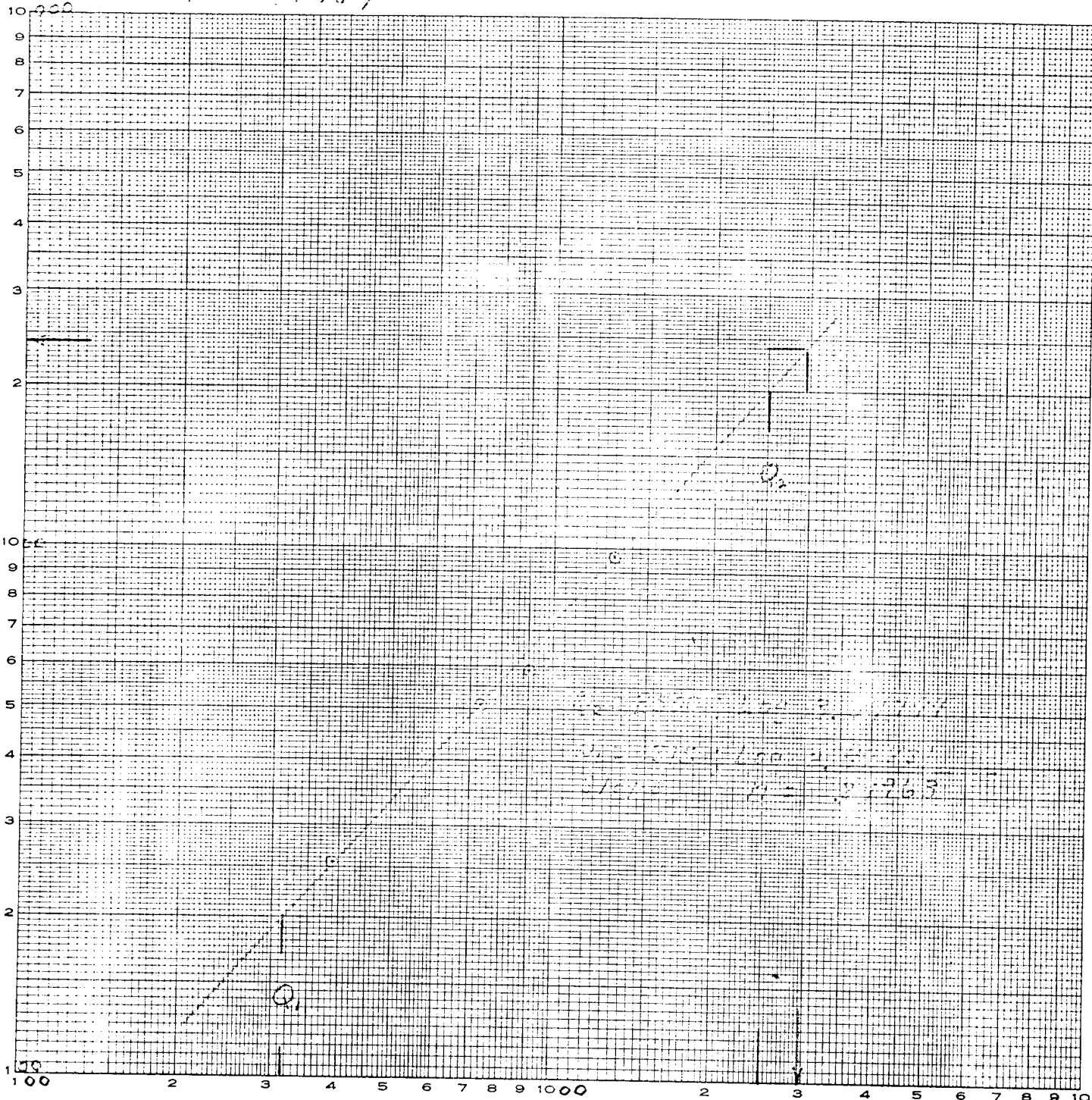
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

AUG 6 3 14 PM '64
HOBBBS OFFICE O.C.C.

T. Excess In
 A.H. Blinberry WCT-
 Well No. 16 (Tub)
 Unit L Sec-33, TWP-22S, R-1E
 Lea County, New Mexico
 July 30, 1964

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

NO. 340-L22 DIETZGEN GRAPH PAPER
 LOGARITHMIC - 2 CYCLES X 2 CYCLES
 $P_c - P_w$ in psi.



Q - MCFD - 15.025 PSIA