NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool **Monument-Tubb** Formation **Tubb** County **Lea**

Initial **X** Annual _____ Special _____ Date of Test **9-23-65**

Company **TEXACO Inc.** Lease **C. H. Weir "B"** Well No. **7**

Unit **J** Sec. **11** Twp. **20S** Rge. **37E** Purchaser **None**

Casing **2-7/8** Wt. **6.5** I.D. **2.441** Set at **6948** Perf. **6494** To **6621**

Tubing **None** Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____

Gas Pay: From **6494** To **6621** L **6494** xG **.660** -GL **4286** Bar.Press. **13.2**

Producing Thru: Casing **X** Tubing _____ Type Well **Dual Gas-Oil**
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: **9-23-65** Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Xxxxx)~~ ~~(Xxxx)~~ (Meter) Type Taps **Flange**

No.	Flow Data (~~Xxxxx~~) (Line) Size	(~~Choke~~) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								1981		72
1.	3.068	1.500	29	7.2	88			1770	71	1
2.	"	"	29.5	14.0	96			1633	71	1
3.	"	"	28	29.0	92			1441	71	1
4.	"	"	32	49.5	82			1187	71	1
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.	14.36	17.43	42.2	.9741	.9535	-	232.3
2.	"	24.45	42.7	.9671	"	-	323.7
3.	"	34.57	41.2	.9706	"	-	459.4
4.	"	47.30	45.2	.9795	"	-	634.3
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio **Dry** cf/bbl. Specific Gravity Separator Gas **.660**

Gravity of Liquid Hydrocarbons **-** deg. Specific Gravity Flowing Fluid **-**

F_c **5.866** $(1-e^{-s})$ **0.255** P_c **1994.2** P_c^2 **3977**

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	1783.2	3180	1.363	1.858	.4738	3180	797	1783	.894
2.	1646.2	2710	1.899	3.606	.9195	2710	1267	1646	.825
3.	1454.2	2115	2.695	7.263	1.852	2117	1860	1455	.730
4.	1200.2	1440	3.921	13.84	3.529	1443	2534	1201	.602
5.									

Absolute Potential: **780** MCFPD; n **.966**

COMPANY **TEXACO Inc.**

ADDRESS **Box 1270, Midland, Texas**

AGENT and TITLE **District Supervisor (Gas)** T. M. Moore

WITNESSED **None**

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.

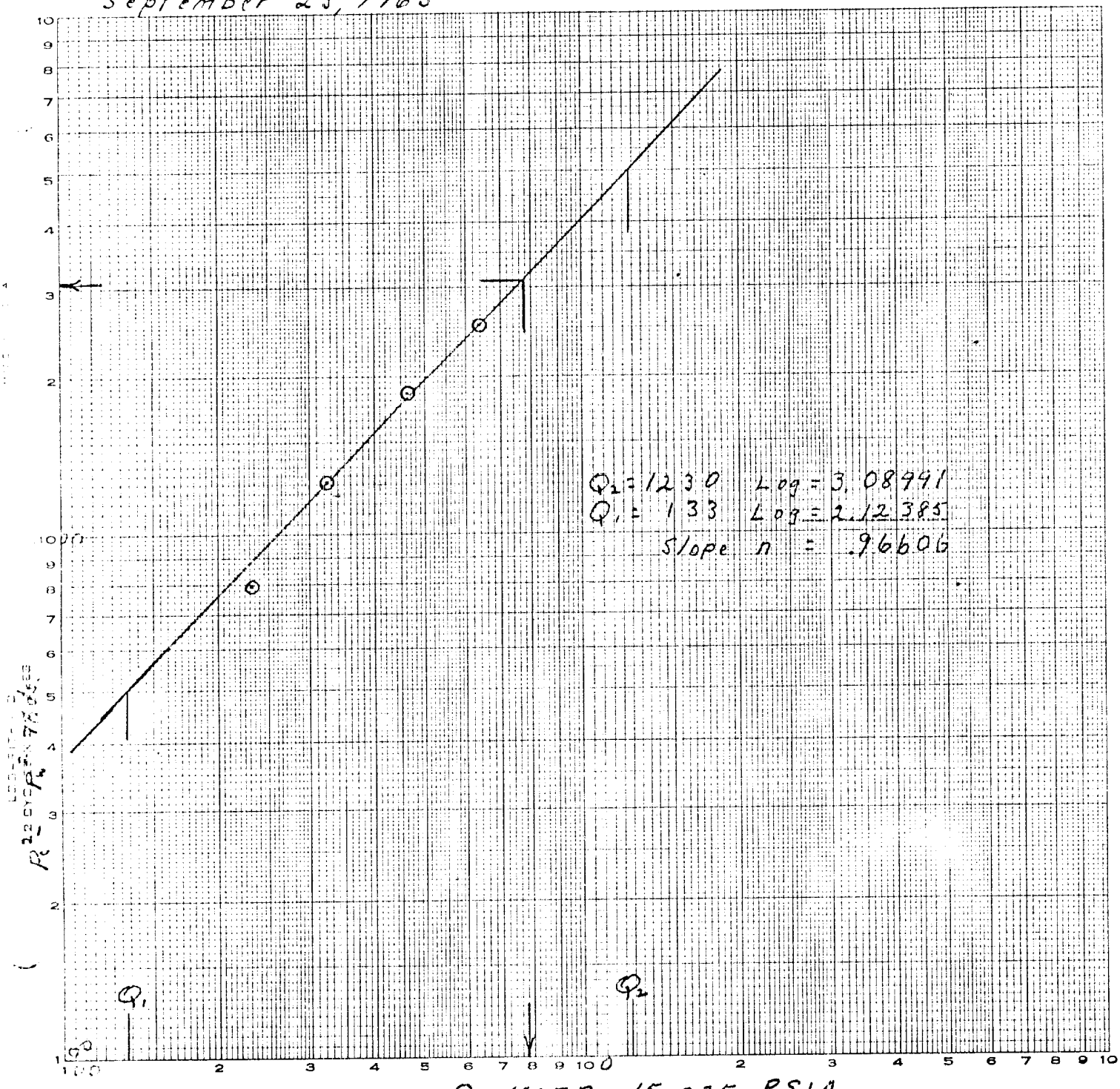
F_t = Flowing temperature correction factor.

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.

Texaco Inc.
C. H. Weir "B"
Well No. 7 (Tubb)
Monument Tubb Pool
J - 11 - 20S - 37E
Lea County, New Mexico
September 23, 1965



Q - MCFD - 15.025 PSIA
Absolute Potential 780 MCFD
Slope n = .966