NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Todd (San Andres) Formation San Andres County Roosevelt

Initial X Annual _____ Special _____ Date of Test 11-2-64

Company TEXACO Inc. Lease State of New Mexico "CT" Well No. 1

Unit A Sec. 35 Twp. 7-S Rge. 35-E Purchaser None

Casing 2-7/8 Wt. 6.50 I.D. 2.441 Set at 4399 Perf. 4104 To 4243

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

Gas Pay: From 4104 To 4243 L 4104 xG .775 -GL 3181 Bar.Press. 13.2

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

Date of Completion: October 7, 1964 Packer _____ Reservoir Temp. Single

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps Flange

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								1116		72
1.	2.067	1.000	78	6.0	70			987		1
2.	"	"	80	15.0	75			819		1
3.	"	"	80	36.0	60			717		1
4.	"	"	80	54.0	57			570		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.	6.386	23.39	91.2	.9905	.8944	-	132.3
2.	"	37.39	93.2	.9859	"	-	210.5
3.	"	57.92	93.2	1.000	"	-	330.8
4.	"	70.94	93.2	1.0029	"	-	406.3
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 125,000 cf/bbl.
Gravity of Liquid Hydrocarbons 31.0 deg.
F_c 5.866 $(1-e^{-s})$ .197

Specific Gravity Separator Gas .750
Specific Gravity Flowing Fluid .775
P_c 1129.2 P_c^2 1275

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	1000.2	1000	.7761	.6023	.1186	1000	275	1000	.8856
2.	832.2	692.5	1.235	1.525	.3004	692.8	582	832	.7368
3.	730.2	533.2	1.940	3.764	.7415	533.9	741	731	.6474
4.	583.2	340.1	2.383	5.679	1.119	341.2	934	584	.5172
5.									

Absolute Potential: 540 MCFPD; n .921

COMPANY TEXACO Inc.

ADDRESS Box 1270, Midland, Texas

AGENT and TITLE F. W. Moore, District Supervisor (gas) F. W. Moore

WITNESSED None

COMPANY _____

REMARKS

Produced .4 barrel of heavy oil during test.

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.

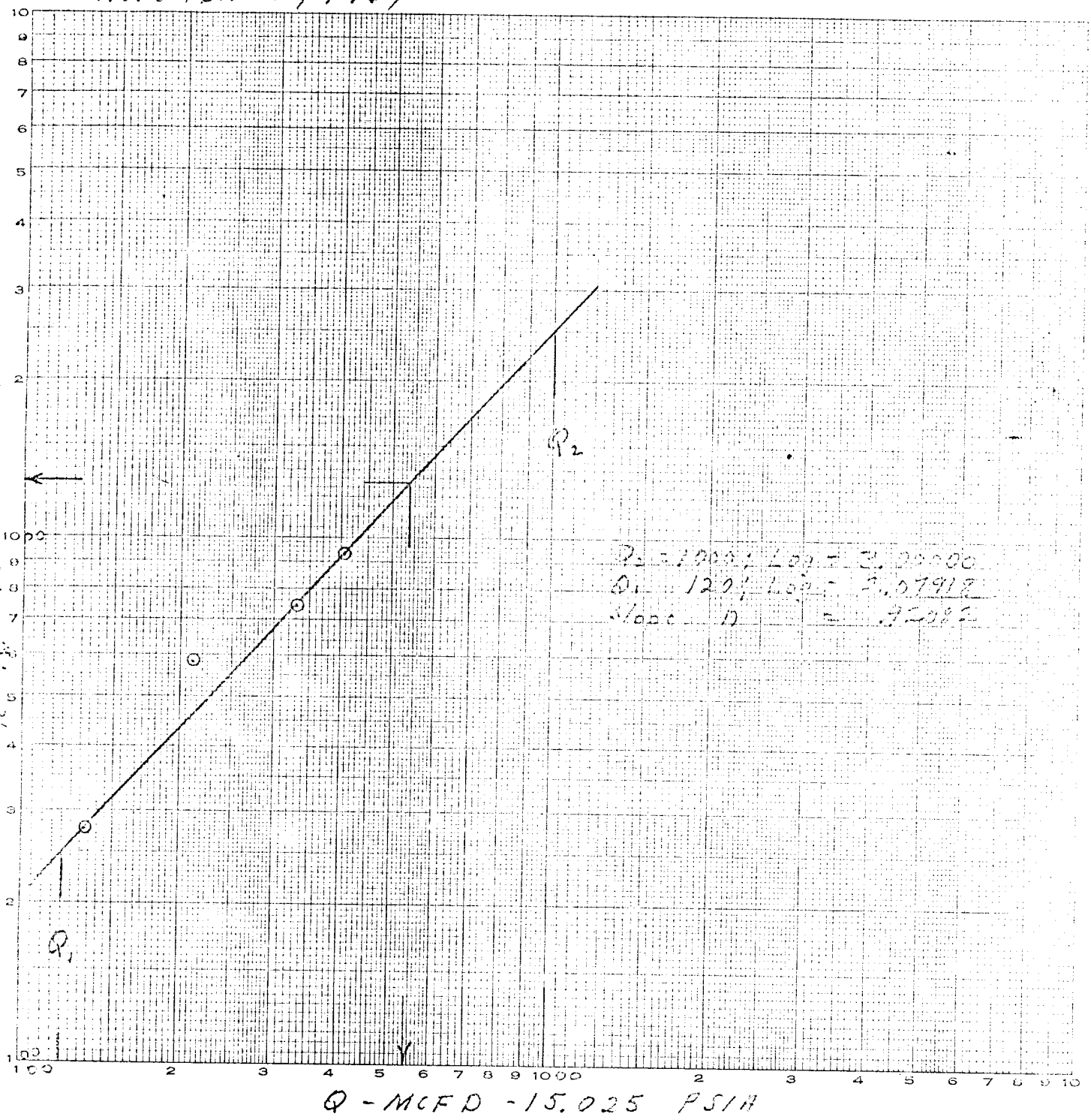
F_t = Flowing temperature correction factor.

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.

Forest, Inc.
State of New Mexico "C T"
Well No. 1 (San Andres)
A - 35 - 7S - 35E
Roosevelt County
New Mexico
November 2, 1964



P_2 = 2004 ; Log = 3.30200
Q_1 = 120 ; Log = 2.07918
Slope n = .7502