

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 September 17, 1964
Company TEXACO Inc. Lease A. H. Blinebry Well No. 17 LT
Unit L Sec. 20 Twp. 22S Rge. 38E Purchaser None
Casing 2-7/8 Wt. 6.50 I.D. 2.441 Set at 6995 Perf. 6155 To 6228
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6155 To 6228 L 6155 xG .747 -GL 4598 Bar. Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Dual G. O.
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Aug. 10, 1964 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (ROVER) (Coke) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(ROVER) (Line) Size	(ROVER) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								1805		72
1.	3.068	1.750	86	29	96			1791	72	1
2.	"	1.750	90	50	84			1779	72	1
3.	"	1.750	91	93	68			1735	72	1
4.	"	2.250	86	57	46			1663	72	1
5.										

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.	20.15	53.64	99.2	.9671	.9129	-	953.7
2.	20.15	71.83	103.2	.9777	"	-	1291
3.	20.15	98.44	104.2	.9924	"	-	1796
4.	37.15	75.19	99.2	1.0137	"	-	2584
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 102,200 cf/bbl.
Gravity of Liquid Hydrocarbons 49.1 deg.
P_c 5.866 (1-e^{-s}) .271

Specific Gravity Separator Gas .720
Specific Gravity Flowing Fluid .747
P_c 1818.2 P_c² 3306

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.	1804.2	3255	5.594	31.29	8.479	3263.4	43	1806.4	.9935
2.	1792.2	3212	7.573	57.35	15.54	3227.5	79	1796.4	.9880
3.	1748.2	3056	10.53	110.9	30.05	3086.0	220	1756.7	.9662
4.	1676.2	2810	15.16	229.8	62.27	2872.3	434	1694.7	.9321
5.									

Absolute Potential: 8500 MCFPD; n .500
COMPANY TEXACO Inc.
ADDRESS Box 1270, Midland, Texas
AGENT and TITLE F. W. Moore F. W. Moore District Supervisor (Gas)
WITNESSED _____
COMPANY _____

REMARKS

Produced 2.7 barrels of condensate on last two rates.
None on first two rates.

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

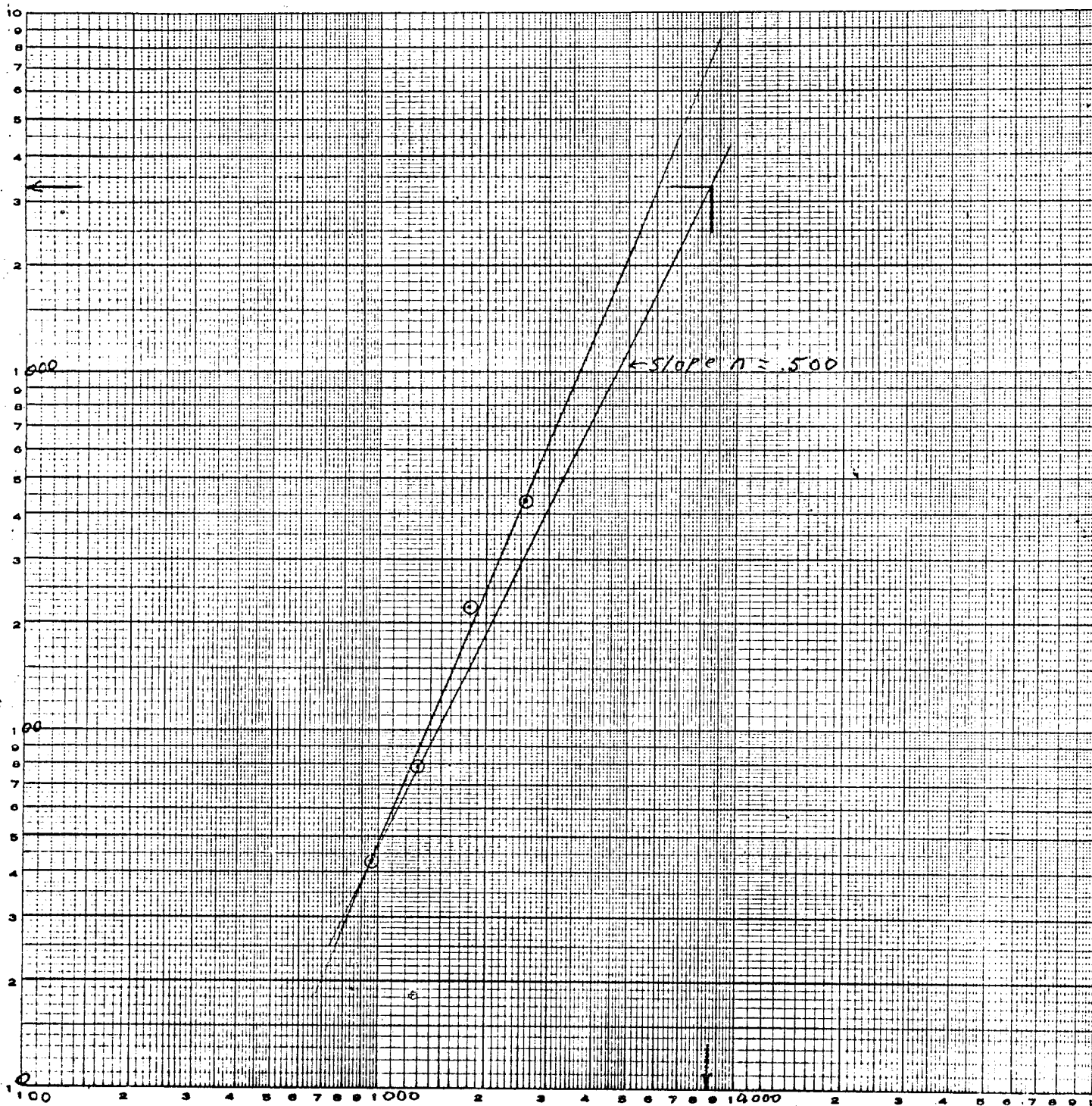
- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing 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 .

SEP 24 2 38 PM '64

RECEIVED

Texaco Inc.
 A.H. Blinbry CT-1
 Well No 17 LT (Tubb)
 L - 20 - 22S - 38E
 Lea County, New Mexico
 September 17, 1964



$Q - MCFD - 15,025 \text{ PSIA}$

Absolute Potential 8500 MCFD

$n = .500$