

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blinebry Formation Blinebry County Lea
Initial X Annual _____ Special _____ Date of Test July 30, 1964
Company TEXACO Inc. Lease A. H. Blinebry NCT-2 Well No. 5 UT
Unit M Sec. 29 Twp. 22 Rge. 38 Purchaser None
Casing 58 Wt. 15.0 I.D. 4.976 Set at 6870 Perf. 5554 To 5682
Tubing 2-1/16 Wt. 3.4 I.D. 1.750 Set at 5689 Perf. None To _____
Gas Pay: From 5554 To 5682 L 5689 xG .711 -GL 4045 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Dual-Gas Gas
Date of Completion: Feb. 11, 1960 Packer 5950 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXXXXXXX~~ (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	4.026	2.000	17	2.0	86			557	77	24
2.	"	"	18	5.8	100			526	78	1
3.	"	"	19	19.0	104			502	78	1
4.	"	"	19	32.0	104			468	78	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.	25.58	7.772	30.2	.9759	.9325	-	180.8
2.	"	13.45	31.2	.9636	"	-	309.1
3.	"	24.73	32.2	.9602	"	-	566.3
4.	"	32.09	32.2	.9602	"	-	734.9
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 154.420 cf/bbl.
Gravity of Liquid Hydrocarbons 32.6 deg.
F_c 13.97 (1-e^{-s}) 0.243

Specific Gravity Separator Gas .690
Specific Gravity Flowing Fluid .711
P_c 585.2 P_c 342.4

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.	570.2	325.1	2.526	6.381	1.550	326.6	15.8	571.4	.9764
2.	539.2	290.7	4.318	18.64	4.529	295.2	47.2	543.3	.9284
3.	515.2	265.4	7.911	62.58	15.21	280.6	61.8	529.7	.9052
4.	481.2	231.5	10.27	105.5	25.64	257.1	85.3	507.0	.8664
5.									

Absolute Potential: 2350 MCFPD; n .839

COMPANY TEXACO Inc.

ADDRESS Box 1270, Midland, Texas

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

WITNESSED

COMPANY

REMARKS

Reclassified from oil well to gas well August 1, 1964.

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 .

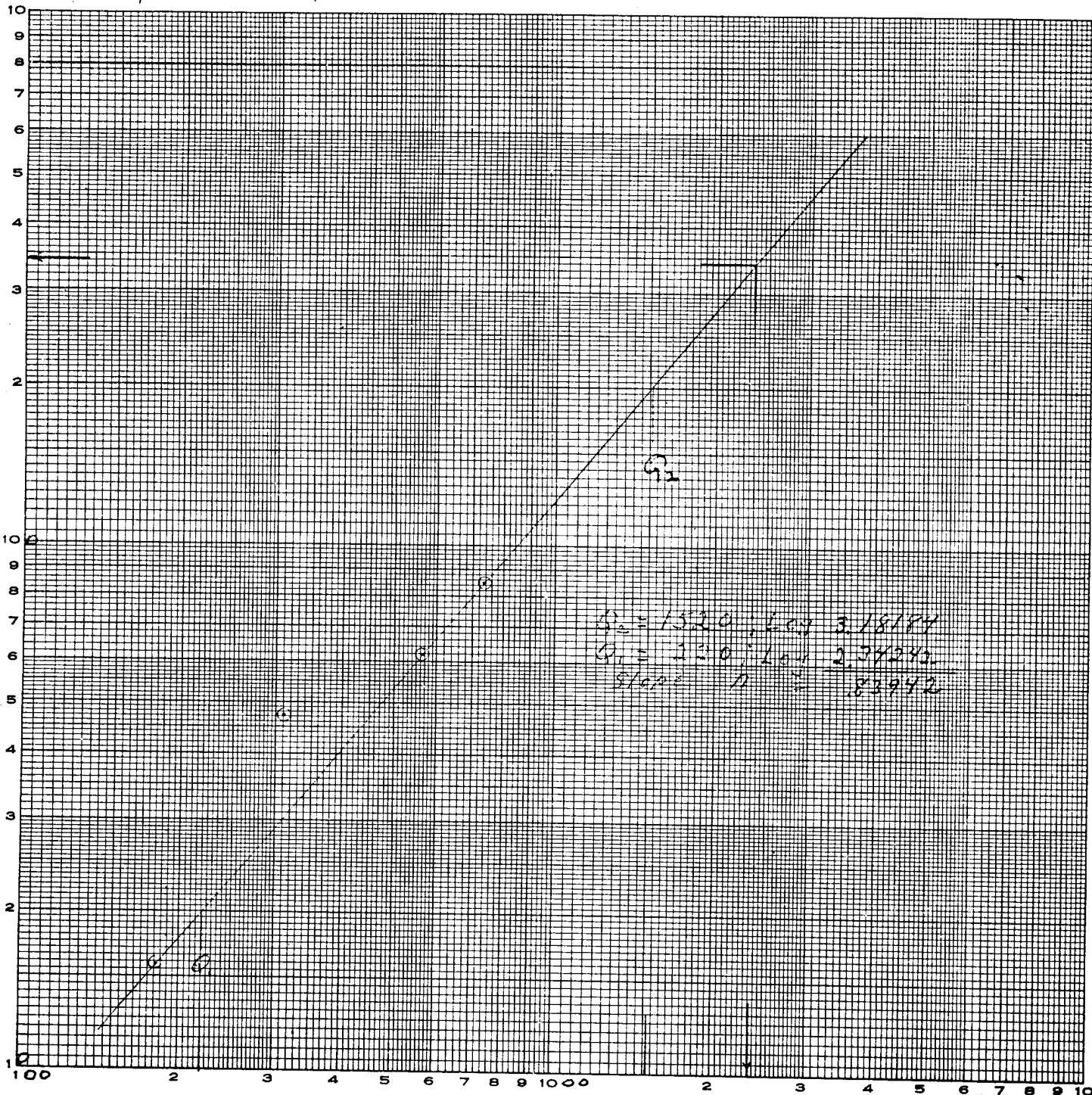
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HOBBBS OFFICE 01010

Texaco Inc.
 A.H. Blinbry N T-2
 Well No. 501 (Blinbry)
 Blinbry Pool
 Unit M S-29, T-22S, R-34E
 Lea County, New Mexico
 July 30, 1964

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

NO. 340-L22 DIETZEN GRAPH PAPER
 LOGARITHMIC - 2 CYCLES X 2 CYCLES
 $P_e - P_w$ Thds



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

Absolute Potential 2350 MCFD

$n = .839$