

NEW MEXICO OIL CONSERVATION COMMISSION
HOBBS OFFICE O. C. C.

Form C-122

Revised 12-1-55

AUG 12 10 19 AM '64

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Glorieta County Lea
Initial X Annual _____ Special _____ Date of Test August 3, 1964
Company TEXACO Inc. Lease C. C. Fristoe "B" NCT Well No. 8
Unit G Sec. 35 Twp. 24-S Rge. 37E Purchaser None
Casing 2-7/8 Wt. 6.50 I.D. 2.441 Set at 6199 Perf. 4809 To 4833
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 4809 To 4833 L 4809 xG .670 -GL 3222 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Dual Gas-Oil
Date of Completion: 7-5-64 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (XXXXXX) (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.	Press. psig	Temp. °F.	
SI								1650	80	72
1.	2.067	1.500	65	8.0	5			1518	82	1
2.	"	"	65	21.0	5			1362	82	1
3.	"	"	65	43.0	13			1187	83	1
4.	"	"	65	80.0	29			1039	83	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.	16.47	25.01	78.2	1.0574	.9463	-	411.9
2.	16.47	40.52	78.2	1.0574	"	-	667.4
3.	16.47	57.99	78.2	1.0485	"	-	947.0
4.	16.47	79.09	78.2	1.0312	"	-	1271
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl.
Gravity of Liquid Hydrocarbons - deg.
P_c 5.866 (1-e^{-s}) 0.199
Specific Gravity Separator Gas .670
Specific Gravity Flowing Fluid -
P_c 1663.2 P_c² 2766

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.	1531.2	2344	2.416	5.837	1.161	2345	421	1531.4	.9205
2.	1375.2	1891	3.915	15.33	3.051	1894	872	1376.4	.8273
3.	1200.2	1440	5.555	30.86	6.141	1446	1320	1202.4	.7227
4.	1052.2	1107	7.456	55.59	11.06	1118	1648	1057.5	.6355
5.									

Absolute Potential: 2120 MCFPD; n 1.000
COMPANY TEXACO Inc.
ADDRESS Box 1270, Midland, Texas
AGENT and TITLE F. W. Moore, District Supervisor (Gas)
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.

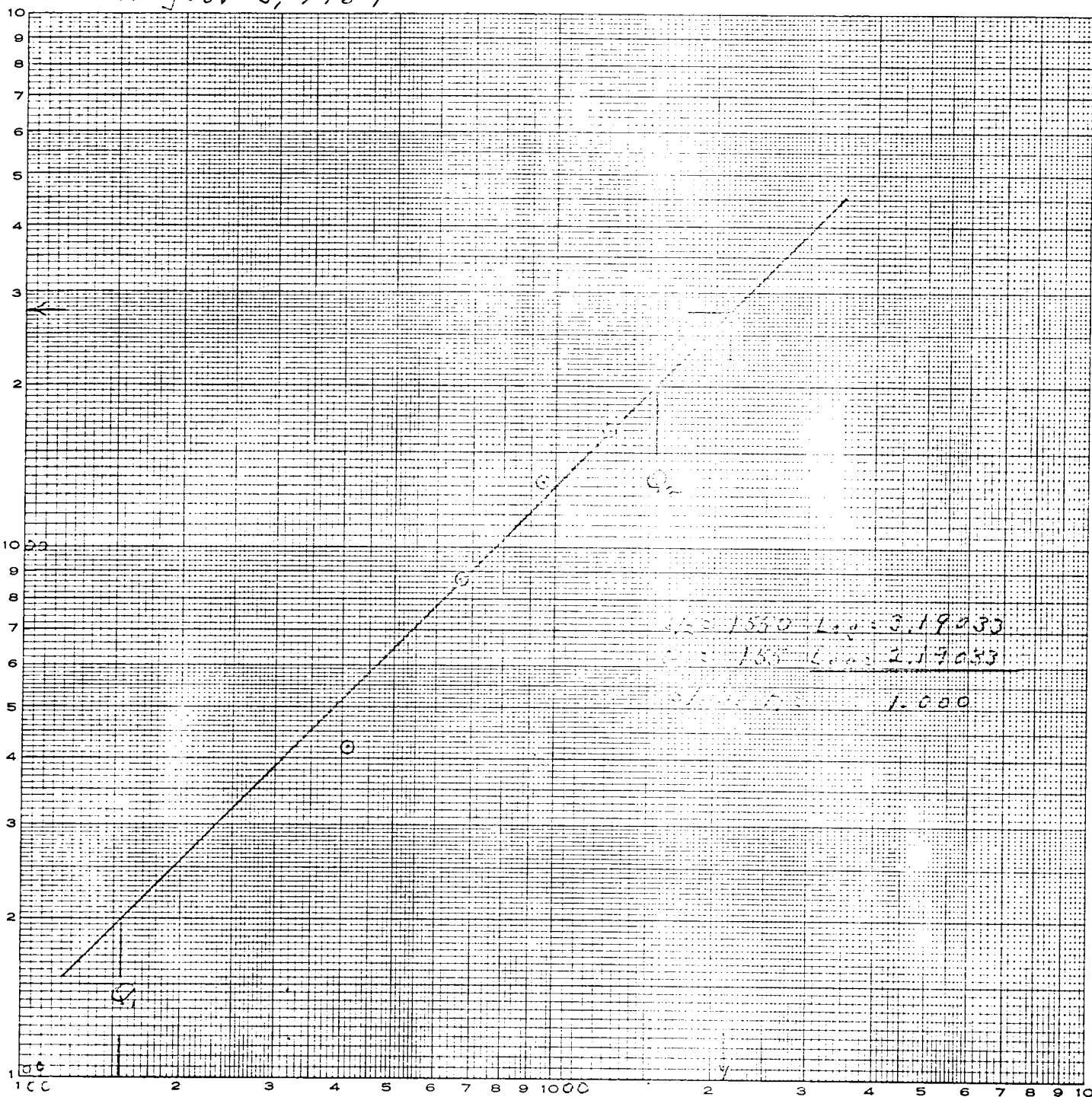
n = Slope of back pressure curve.

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 .

Texaco Inc.
 C.C. Fristoe "B" No. 2
 Well No. 8 (Glorieta)
 Unit G sec. 35, T-24S, R-37E
 Lea County, New Mexico
 August 3, 1964

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

NO. 340-L22 DIETZGEN GRAPH PAPER
 LOGARITHMIC - 2 CYCLES X 2 CYCLES
 $P_e - P_w$ vs. Q



$Q = 15.025$ PSIA

Slope $n = 1.00$

Absolute Potential ≈ 120 MCFD