

NEW MEXICO OIL CONSERVATION COMMISSION

Nov 16 11 54 AM '65 Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Undesignated Formation Tubb County Lea
Initial X Annual _____ Special _____ Date of Test November 10, 1965
Company TEXACO Inc. Lease M. B. Weir "B" Well No. 7 UZ
Unit M Sec. 12 Twp. 20S Rge. 37E Purchaser Phillips Petroleum Company
Casing 2-7/8 Wt. 6.5 I.D. 2.441 Set at 6868 Perf. 6426 To 6484
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6426 To 6484 L 6426 xG .773 -GL 4967 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: Oct. 8, 1962 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (PROVER) (ORIFICE) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(PROVER) (LINE) Size	(ORIFICE) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								2055	60	72
1.	4.026	1.250	263	3.4	79			2017	69	1
2.	"	"	294	10.5	70			1976	69	1
3.	"	"	264	28.4	69			1908	70	1
4.	"	"	275	50.0	67			1839	70	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.	9.643	30.64	276.2	.9822	.9193	1.029	274.5
2.	9.643	56.80	307.2	.9905	"	1.034	515.7
3.	9.643	88.72	277.2	.9915	"	1.032	804.8
4.	9.643	120.0	288.2	.9933	"	1.034	1093
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 40,000 cf/bbl.
Gravity of Liquid Hydrocarbons 59.1 deg.
F_c 5.866 (1-e^{-s}) 0.289
Specific Gravity Separator Gas .710
Specific Gravity Flowing Fluid .773
P_c 2068.2 P_c 4277

No.	P_t 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.	2030.2	4122	1.610	2.592	.7491	4123	154	2030	.981
2.	1989.2	3957	3.025	9.151	2.645	3960	317	1990	.962
3.	1921.2	3691	4.721	22.29	6.442	3697	580	1923	.930
4.	1852.2	3431	6.411	41.10	11.88	3443	834	1855	.897
5.									

Absolute Potential: 4100 MCFPD; n .811COMPANY TEXACO Inc.ADDRESS Box 1270, Midland, TexasAGENT and TITLE J. H. Moore District Supervisor (Gas)

WITNESSED

COMPANY _____

REMARKS

22.11.11.11.11

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.

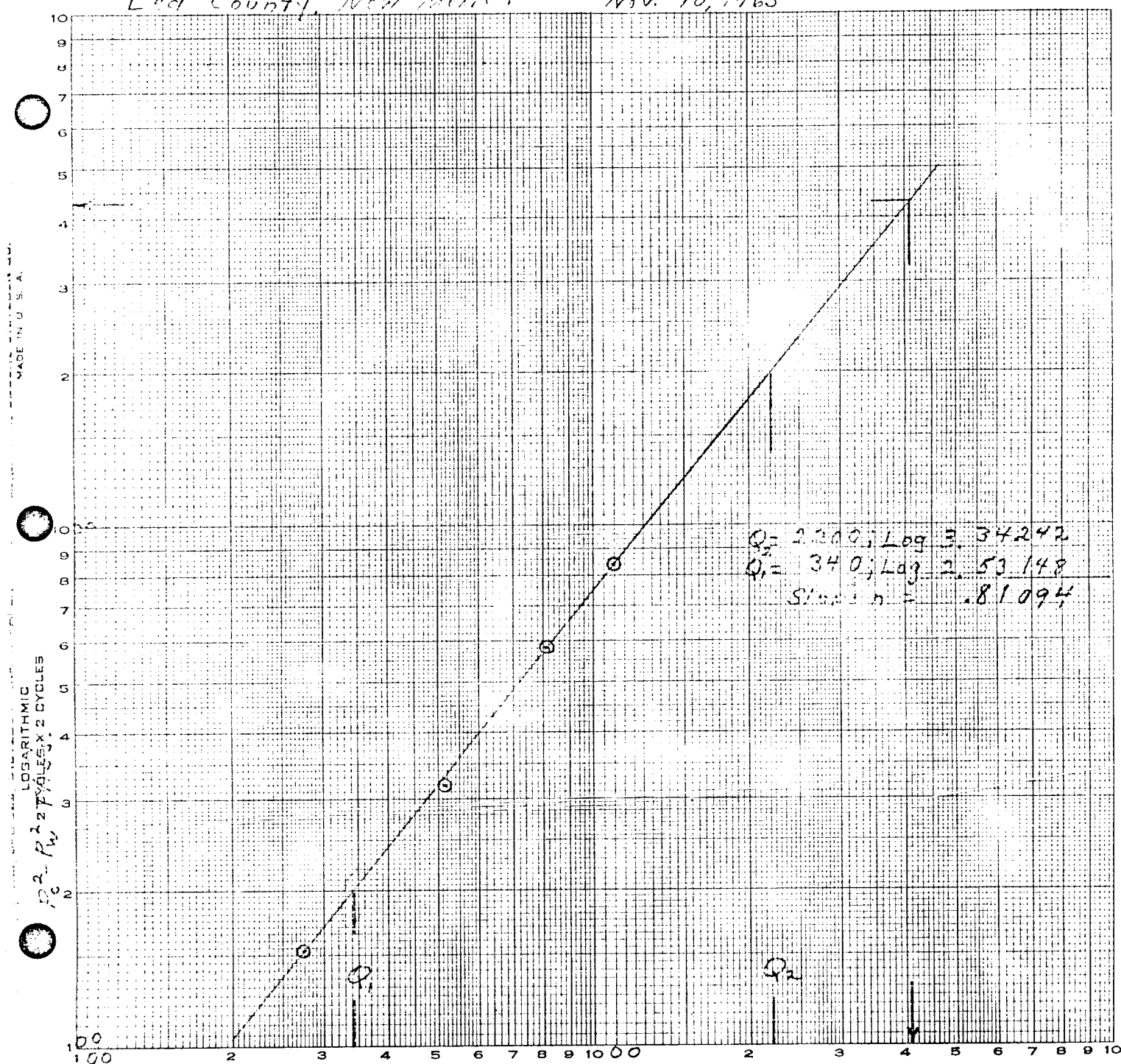
The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

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 .

Nov. 10, 1965



Q-MCFD - 15.025 PS/A

Absolute Potential 4100 McFD

Slope $\eta = .811$