

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Elmwood Formation Permian County El Paso

Initial 4 Annual _____ Special _____ Date of Test 1-22-57

Company Continental Oil Company Lease Elmwood Unit Well No. 4

Unit _____ Sec. 6 Twp. 24 Rge. 14 Purchaser same

Casing 7" Wt. 35 I.D. 6.625 Set at 14,501' Perf. -- To --

Tubing 2" Wt. 4.70 I.D. 1.915 Set at 1,001 Perf. -- To --

Gas Pay: From 14,500 To 14,400 L 14,450 xG 0.000 -GL 0.000 Bar.Press. 10.4

Producing Thru: Casing _____ Tubing _____ Type Well single

Date of Completion: 1-22-57 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 21.5

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps change

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	4	1/4	100	11	110			100		7.5
2.	4	1/4	100	11	114			100		4
3.	4	1/4	100	11	114			100		4
4.	4	1/4	100	11	114			100		4
5.	4	1/4	100	11	114			100		4

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.	1.0	1.0	100	1.0	1.0	1.0	1.0
2.	1.0	1.0	100	1.0	1.0	1.0	1.0
3.	1.0	1.0	100	1.0	1.0	1.0	1.0
4.	1.0	1.0	100	1.0	1.0	1.0	1.0
5.	1.0	1.0	100	1.0	1.0	1.0	1.0

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c _____ (1-e^{-S})

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c _____ P_c _____

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.	100	10000	1.0	1.0	1.0	10000	10000-10000	100	1.0
2.	100	10000	1.0	1.0	1.0	10000	10000-10000	100	1.0
3.	100	10000	1.0	1.0	1.0	10000	10000-10000	100	1.0
4.	100	10000	1.0	1.0	1.0	10000	10000-10000	100	1.0
5.	100	10000	1.0	1.0	1.0	10000	10000-10000	100	1.0

Absolute Potential: _____ MCFPD; n _____

COMPANY _____

ADDRESS _____

AGENT and TITLE _____

WITNESSED _____

COMPANY _____

REMARKS

liner _____

fig. _____

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 .

MODEL 1110-110
 1110-110 110 110 110

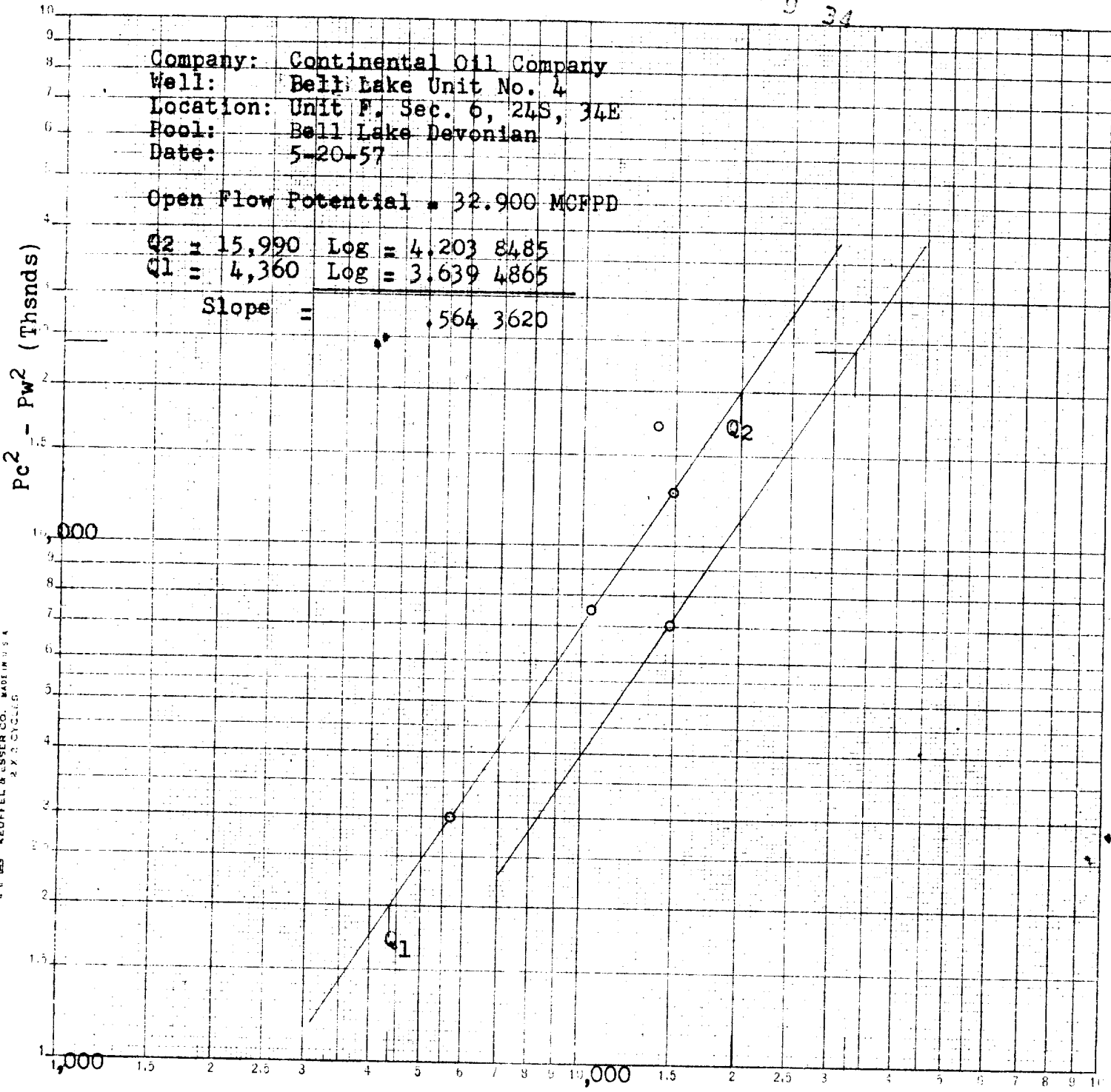
Company: Continental Oil Company
 Well: Bell Lake Unit No. 4
 Location: Unit F, Sec. 6, 24S, 34E
 Pool: Bell Lake Devonian
 Date: 5-20-57

Open Flow Potential = 32.900 MCFPD

Q2 = 15,990 Log = 4.203 8485
 Q1 = 4,360 Log = 3.639 4865

Slope = .564 3620

K.E. LOGARITHMIC 359-110
 KEUFFEL & ESSER CO. MADE IN U.S.A.
 2 X 2 CYCLES



$Q = \text{MCFPD} - 15.025$