

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Warren Blinbury Formation Blinbury County Lea
Initial X Annual _____ Special _____ Date of Test 2/2-2/9/59
Company Continental Oil Company Lease Warren Unit B.T. Well No. 26
Unit M Sec. 27 Twp. 20 Rge. 34 Purchaser El Paso Natural Gas
Casing 7 Wt. 23.0 I.D. 6.366 Set at 6579 Perf. 5845 To 6202
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 5762 Perf. _____ To _____
Gas Pay: From 245 To 6302 L 5762 xG .495 -GL 31.89 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well 3 G. Dual
Single-Bradenhead G. G. or G.O. Dual
Date of Completion: 2-24-58 Packer 6233 Reservoir Temp. 100

OBSERVED DATA

Tested Through (Prover) (Choke) (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										
1.	3.000	750	590	35	85			1744		72
2.	3.000	1.000	400	9	77			1486		24
3.	3.000	1.500	420	15	77			1296		24
4.	3.000	1.750	420	18	32			963		24
5.	3.000	1.900	420	18	32			860		24

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.	3.000	14.30		0.960	0.927	1.041 1.057	190 488
2.	14.30	14.30		0.940	0.927	1.047 1.061	991 926
3.	14.30	14.30		0.920	0.927	1.065 1.064	3580 1379
4.	14.30	14.30		0.920	0.927	1.070	2481 1596
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 30.577 cf/bbl.
Gravity of Liquid Hydrocarbons 44.5 deg. API
F_c By measurement (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1.177 P_c 3230

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.	1499.2					2247.6	939.6		.86
2.	1210.2					1464.5	1567.9		.70
3.	976.2					952.0	2275.4		.55
4.	831.2					690.9	2992.9		.50
5.									

Absolute Potential: 2.160MCFPD; n 1.100

COMPANY Continental Oil Company
ADDRESS Rm 427, Hobbs, New Mexico
AGENT and TITLE M. R. Howard, Gas Tester
WITNESSED _____
COMPANY _____

REMARKS

NOTE: DATA FOR THIS TEST

WAS OBTAINED

FROM EL PASO NATURAL GAS CO.

NOTE: Above test is second I.P. test performed on subject well. Slope is greater than 1.00, therefore slope of 1.00 drawn thru highest data point.

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 .

COMPANY Continental Oil Co.
 WELL Warren Unit No. 26 (Blinebry)
 LOCATION M Sec. 27-20S-38E
 COUNTY Lea
 DATE 1-9-59

LOGS AND CORRELATIONS

NO. 31-29 LOGARITHMIC 2 1/2 IN 2 1/4 INCH CYCLES EA 1/2 SHORT WA

