NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Warren Tubb Formation Tubb County Lea

Initial X Annual ____ Special ____ Date of Test 10/3 - 10/10/58

Company Continental Oil Company Lease Warren Unit BT Well No. 26

Unit M Sec. 27 Twp. 20 Rge. 38 Purchaser E. P. N. G.

Casing 7 Wt. 23.0 I.D. 6.366 Set at 6679 Perf. 6346 To 6586

Tubing 2 Wt. 4.7 I.D. 1.995 Set at 6392 Perf. ____ To ____

Gas Pay: From 6346 To 6586 L 6392 xG MIX=.743 -GL 4749 Bar.Press. 13.2

Producing Thru: Casing ____ Tubing X Type Well G. G. Dual
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 7-24-58 Packer 6288 Reservoir Temp. 95°

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps Flange

No.	Flow Data: ~~(Prover)~~ (Line) Size	~~(Choke)~~ (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data: Press. psig	Tubing Data: Temp. °F.	Casing Data: Press. psig	Casing Data: Temp. °F.	Duration of Flow Hr.
SI						2061				72
1.	4	1.250	584	10.24	78	1902				24
2.	4	1.250	537	31.36	72	1850				24
3.	4	1.250	544	56.25	67	1741				24
4.	4	1.250	544	75.69	65	1665*				24
5.										

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.	9.643	76.20		.9832	.9339	1.064	736
2.	9.643	131.35		.9887	.9339	1.061	1241
3.	9.643	177.04		.9933	.9339	1.062	1682
4.	9.643	205.36		.9952	.9339	1.062	1954
5.							

PRESSURE CALCULATIONS

Avg.
Gas Liquid Hydrocarbon Ratio 44,180 cf/bbl.
Gravity of Liquid Hydrocarbons 66.5 deg. @ 60°
F_c 9.926 $(1-e^{-s})$ 0.279

Specific Gravity Separator Gas .688
Specific Gravity Flowing Fluid .7143
P_c 2054.2 P_c^2 4219.7

No.	P_w / P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	1915.2	3668.0	7.31	53.44	14.91	3682.9	536.8	1919.1	.93
2.	1863.2	3471.5	12.33	152.03	42.42	3513.9	705.8	1874.6	.91
3.	1754.2	3077.2	16.71	279.22	77.90	3155.1	1064.6	1776.3	.86
4.	1678.2	2816.4	19.41	376.75	105.11	2921.5	1298.2	1709.2	.83
5.									

Absolute Potential: 4800 MCFPD; n .77
COMPANY Continental Oil Company
ADDRESS Box 427, Hobbs, New Mexico
AGENT and TITLE W. D. Howard, Gas Tester [signature]
WITNESSED Earl Smith
COMPANY El Paso Natural Gas Co.

REMARKS

CC: EWN HLJ HLA EVB WOH
NMOCC-5
Mr. Earl Smith, El Paso Natural Gas Co., Jal, N.M.
NOTE: On highest flow rate (24/64) well flowed 43 BPD of 67.9 gravity distillate.
* Insufficient drawdown due to orifice size.
Attach.

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 BT 26 (Tubb)
LOCATION	M Sec.27-20S-38E
COUNTY	Lea
DATE	10-10-58