

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalnet Formation Yates County Lea
Initial _____ Annual _____ Special X Date of Test 2-4/2-8-1957
Company R. Olsen, Personal Lease Jenkins Well No. 1
Unit M Sec. 29 Twp. 25 Rge. 37 Purchaser EPNG
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 2686 Perf. _____ To _____
Tubing 2" Wt. 4.7 I.D. _____ Set at 3022 Perf. _____ To _____
Gas Pay: From 2686 To 3172 L 3022 xG 0.660 -GL 1995 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 6-10-1952 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Gauge) (Orifice) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Gauge) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	1/4	1.250	171	11.6	62	238		285		72
2.	1/4	1.250	175	16.8	63	208		285		24
3.	1/4	1.250	155	23.0	66	176		269		24
4.	1/4	1.250	*					244		24
5.										

FLOW CALCULATIONS

No.	Coefficient Flange (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.	9.613	46.12		.9981	.9535	1.018	431
2.	9.613	56.22		.9971	.9535	1.018	525
3.	9.613	62.21		.9943	.9535	1.016	581
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/cbl.
Gravity of Liquid Hydrocarbons _____ deg.
T_c Measured (1-e^{-s})
Specific Gravity Separator Gas 0.660
Specific Gravity Flowing Fluid _____
T_c 398.2 P_c 158.6

No.	P _z P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _z ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	251.2	63.1							
2.	221.2	48.9				89.5	69.1		.62
3.	189.2	35.8				74.6	84.0		.54
4.						66.2	92.4		.46
5.									

Absolute Potential: 995 MCFPD: 1.000
COMPANY R. Olsen-Howard Olsen
ADDRESS Drawer 2, Jal, N.M.
AGENT and TITLE J.W. Payne, JR.
WITNESSED M.H. Kerby
COMPANY EPNG

REMARKS

* The subject well is produced with a plunger lift and was impossible to secure a four point test with a good spread.

ELVIS A. UTZ
GAS ENGINEER

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 .

R. Olsen, (Personal)
 Jenkins #1
 Unit "M", Sec 29, T-2N-S, R-37-E
 Lea Co., N.M.

