

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blinebry Formation Blinebry County Lea
Initial _____ Annual _____ Special X Date of Test 5-20 to 5-27, 1957
Company R. Olsen Oil Company Lease Danglade Well No. 2
Unit X f Sec. 13 Twp. 22 Rge. 37 Purchaser El Paso Natural Gas Company
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 6762 Perf. 5435 To 5500
Tubing 2 Wt. 4.7 I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 5435 To 5500 L 5435 xG .670 -GL 3641 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Re _____ Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-8-57 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~Pressure Transducer~~ (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Orifice) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1628		1638		72
1.	4	1.500	552	21.16	67	1373		1438		24
2.	4	1.500	560	28.09	66	1302		1374		24
3.	4	1.500	575	42.25	66	1184		1267		24
4.	4	1.500	560	65.61	57	965		1082		24
5.										

FLOW CALCULATIONS

No.	Coefficient F _{lg} (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.	13.99	109.34		.9933	.9463	1.062	1.527
2.	13.99	126.87		.9943	.9463	1.062	1.774
3.	13.99	151.12		.9943	.9463	1.062	2.112
4.	13.99	193.89		1.0029	.9463	1.068	2.750
5.							

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 1651.2 P_w 2726.5

No.	XXXX 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	XXXX XXXX	XXXX XXXX
1.	1386.2	1921.6				2106.0	620.5		
2.	1315.2	1729.8				1924.3	802.2		
3.	1197.2	1433.3				1638.9	1087.6		
4.	978.2	956.9				1199.5	1527.0		
5.									

Absolute Potential: 4,000 MCFPD; n .657
COMPANY R. Olsen Oil Company
ADDRESS 2805 Liberty Bank Building, Oklahoma City, Oklahoma
AGENT and TITLE Philip Randolph, Vice President
WITNESSED _____
COMPANY _____

REMARKS

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} = Supercompressibility 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 .