

MAIN OFFICE CCC

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool 1955 JUL 14 AM 6:20 Formation U.S. 85 County LA
Initial X Annual _____ Special _____ Date of Test JUNE 29, 1956
Company SINCLAIR OIL & GAS COMPANY Lease E.C. ADKINS Well No. 9
Unit 0 Sec. 29 Twp. 21 S Rge. 36 E Purchaser EL PASO NATURAL GAS COMPANY
Casing 7" Wt. 17# I.D. _____ Set at 3629 Perf. 3448 To 3648
Tubing 2" EUE Wt. 4.7# I.D. _____ Set at 3648 Perf. None To _____
Gas Pay: From 3448 To 3648 L. 3548 xG .680 -GL 2413 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 1-2-54 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 116°

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.	4"	1.290	988	16	97	966	80	966	80	72
2.			993	32	93	905	82	910	82	24
3.			989	41.6	72	861	80	872	80	24
4.			991	75.9	89	837	80	852	80	24
5.						794	80	791	80	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.	9.643	9.06	601.2	.9652	.9393	1.34	97
2.		139.09	606.2	.9697	.9393	1.097	1291
3.		198.28	602.2	.9706	.9393	1.097	1470
4.		213.85	606.2	.9732	.9393	1.061	2000
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio None cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 979.2 P_c² 958.8

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.	923.2					852.3	106.5		94.3
2.	883.2					783.6	175.2		90.6
3.	863.2					748.6	210.2		88.4
4.	804.2					646.7	312.1		82.1
5.									

Absolute Potential: 4400 MCFPD; n .712COMPANY SINCLAIR OIL & GAS COMPANYADDRESS 520 East Broadway Hobbs, New MexicoAGENT and TITLE Richard L. Harned Gas AnalystWITNESSED Earl SmithCOMPANY El Paso Natural Gas 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} = 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 .