

NEW MEXICO OIL CONSERVATION COMMISSIONS OFFICE OCC

1957 MAR 14 PM 2:33 Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jaist Formation 7-Rivers County Lea

Initial	Annual	Special	X	Date of Test
				2-11/2-15-1957

Company Westates Petr. Co. Lease Wells B-5 Well No. 1

Unit **A** Sec **5** Twp. **25** Rge. **37** Purchaser **KPHO**

Casing ⁷¹ Wt. **24.0** I.D. Set at **3380** Perf. **3131** To **3172**

Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 3150 Perf. _____ To _____

Gas Pay: From 1131 To 1172 L 3150 0.655 2063 Bar.Press. 13.2

Producing Thru: Casing Tubing **X** Type Well **Single**

Date of Completion: 7-1948 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~1000000~~ (Meter) Type Taps Flange

[illegible]

FLOW CALCULATIONS

FLOW CALCULATIONS							
No.	Coefficient Flange (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.	6.135	145.27		.9859	.9571	1.000	885
2.	6.135	171.82		.9804	.9571	1.000	1,038
3.	6.135	184.74		.9804	.9571	1.000	1,126
4.	6.135	214.58		.9795	.9571	1.000	1,297
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas 0.655
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c Measured $(1-e^{-S})$ P_c 706.2 P_c^2 498.7

[illegible]

Absolute Potential: 5,500 MCFPD; n .99

Westates Petr. Co.

Box 1381, Jal, W.M.

AGENT and TITLE J.C. Denton, Div. Supt.

WITNESSED H.H. Kirby

COMPANY EPNO

REMARKS

Unable to obtain Tbg. Pressures.

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 .

Westates Pet. Co.

Wells B-5 #1

Unit "A", Sec. 5, T-25-S, R-37-E

Lea Co, N.M.

2-15-1957

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