

MISSION

Revised 12-1-55

Pool Undesignated Formation Queen County Lea
Initial Annual Special X Date of Test 3-31-1957
Company S. P. Yates Drilling Co. Lease Shell Angle State Well No. 1
Unit I Sec. 10 Twp. 17 S Rge. 34 E Purchaser S. P. Yates Drilling Co.
Casing 5 $\frac{1}{2}$ Wt. 15.5 I.D. 4.976 Set at 4685 Perf. 3890 To 3916
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3850 Perf. To
Gas Pay: From 3890 To 3916 L .389 xG .670 -GL NA Bar.Press. 13.2
Producing Thru: Casing X Tubing Type Well Single
Date of Completion: 2-19-1957 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 90°F

Tested Through (Prover) (Choke) (Meter)

Type Taps

FLOW CALCULATIONS

PRESSURE CALCULATIONS

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1249.2 P_c^2 1560.5

Absolute Potential: 5.000 MCFPD; n .68

REMARKS

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* P_w measured at well-head; corrections for friction loss not applicable.

* Insufficient draw-down due to small orifice.

100-443887-100

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 .