

WU

ARTERIA, OFFICE

Revised 12-1-55

Pool Wildcat Formation Norow County Eddy

Initial X Annual _____ Special _____ Date of Test **April 30, 1965**

Company Pan American Pet. Corp. Lease USA Emperor Well No. 1

Unit 7 Sec. 28 Twp. 20-S Rge. 30-S Purchaser Southern Union

Casing 7 Wt. I.D. Set at Perf. 12,342 To 12,391

Tubing 2-3/8 Wt. 4.6 I.D. 1.995 Set at 11,442 Perf. Open Ended To

Gas Pay: From 12,242 To 12,391 L 11,442 xG .661 -GL 7563 Bar.Press. 13.2

Producing Thru: Casing _____ Tubing X Type Well Single

Date of Completion: April 30, 1965 Packer 11,440 Reservoir Temp. 162

Tested Through ~~XXXXXXXXXX~~ (Meter) Type Taps **Flange**

FLOW CALCULATIONS

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 66,600 cf/bbl. Specific Gravity Separator Gas .620
Gravity of Liquid Hydrocarbons 57.4 deg API @ 60°F Specific Gravity Flowing Fluid .661
F_c 9.936 (1-e⁻⁸) .406 P_c 3841.2 P_c² 14.733

Absolute Potential: 13,600 MCFPD; n 0.9324
 COMPANY Pan American Petroleum Corporation
 ADDRESS P. O. Box 68 - Hobbs, New Mexico 58240
 AGENT and TITLE J. W. Meek - Area Engineer
 WITNESSED _____
 COMPANY _____

RECEIVED

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 .