1-Bill Parrish Form C-122 2-EPMG El Paso & Farm. Revised 12-1-55 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 1-D 1-WD 1-F SWP-150 Pool Basin Daketa Formation Daketa County S.J. Initial X Annual Special Date of Test 7/2/63 Company Southwest Production Company Lease Feuille Federal Well No. 1 Unit N Sec. 35 Twp. 28 N Rge. 9 W Purchaser El Paso Natural Gas Company Casing 44" Wt. 10.50 I.D. 4.052 Set at 6758 Perf. 6539 To 6728 Tubing 12" Wt. 2.75 I.D. 1.610 Set at 6666 Perf. To 6666 Gas Pay: From 6539 To 6728 L 6666 xG .67 _GL Bar.Press. 12.0 Producing Thru: Casing Tubing X Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 6/24/63 Packer Reservoir Temp. OBSERVED DATA Tested Through (Rocent) (Choke) (Letter) Type Taps Tubing Data Casing Data Flow Data Diff. Temp. Press. Temp. Duration (Prover) (Choke) Press. Press. Temp. of Flow No. (Line) (CHICKINGE) OF. OF. P. Hr. Size \mathtt{Size} psig h, psig psig 2217 2257 7 days 3/4" 76* 760 322 322 3 hrs. 1481 FLOW CALCULATIONS Rate of Flow Pressure Gravity Compress. Coefficient Flow Temp. Factor Q-MCFPD Factor Factor No. $F_{\mathbf{p}\underline{\mathbf{v}}}$ @ 15.025 psia hwpf Fg_ (24-Hour) psia F_{t} 334 9850 1.032 12.3650 .9463 3.971 PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio_____cf/bbl.
Gravity of Liquid Hydrocarbons____deg. Specific Gravity Separator Gas___ Specific Gravity Flowing Fluid c_____(1-e^-5) P_c 2269 P_c 5148.3 2229.0 P. 1493 $\bar{P}_{\mathbf{w}}$ $(F_cQ)^2$ $(F_cQ)^2$ $P_c^2 - P_w^2$ P₊2 Cal. $P_{\rm w}2$ $F_{c}Q$ No. P_{w_} (1-e-s) Pt (psia) 2229.0 2919.3 .657 4. Absolute Potential: 6.075 MCFPD; n .75

COMPANY Southwest Production Company

ADDRESS 234 Petr. Club Plaza, Farmington, New Mexico

AGENT and TITLE George L. Hoffman, Production Engineer WITNESSED COMPANY 1963 JUL5_ REMARKS COM. COM.

_{0/3}τ. 3

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 600 F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{\rm DV}$ Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{w}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{w}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.