NEW MEXICO OIL CONSERVATION COMMISSION

1000s or Form C-122

Pool Jaluat Formation Yates County Lee Annual Special XXX Date of Test 1-7/1-11-57 Initial Company Skelly Oil Company Lease State N Well No. 3 Unit K Sec. 32 Twp. 24 8 Rge. 37 B Purchaser El Paso Natural Gas Company Casing 7" Wt. 20 I.D. 6.456" Set at 3415 Perf. To Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3444 Perf. To______ Gas Pay: From 2813' To 2842' L 2813 xG 0.550 -GL 1328 Bar. Press. 13.2 Producing Thru: Casing XX Tubing Type Well G. G. Dual

Single-Bradenhead-G. G. or G.O. Dual

Packer 3390 Reservoir Temp. OBSERVED DATA Tested Through (Prover) (Choke) (Meter) Type Taps Flow Data Tubing Data Casing Data (PRESERVE SERVE EXCENSES) Press. Diff. Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) of Flow Size \circ_{F} . Size $\mathbf{h}_{\mathbf{W}}$ psig oF. psig [⊃]F. psig Hr. 734 72 1.250 191 14.44 568 502 24 1.250 199 22.56 54 24 1.250 33.64 191 426 24 1.250 202 60.84 210 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow No. Factor Factor Factor Q-MCFPD (24-Hour) $h_{\mathbf{W}}\mathbf{p_f}$ F_{t} psia F_g @ 15.025 psia Fpv 54.28 1.0107 0.9508 1.022 519 2. 69.16 1.0058 0.9608 1,021 659 82.84 1.0058 0.9608 1.021 788 9.643 114.37 0.9924 0,960 1.020 1073 PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio___ _____cf/bbl. Specific Gravity Separator Gas_ Gravity of Liquid Hydrocarbons____ Specific Gravity Flowing Fluid____ __deg. Fc___0.707 (1-e⁻⁵) 0.118 P_c 747.2 Pc 558.3 $P_{\mathbf{w}}$ $\frac{\left(F_{\mathbf{c}}Q\right)^2}{\left(1-e^{-s}\right)}$ P_{t}^{2} No. $(F_cQ)^2$ $P_c^2 - P_w^2$ F_cQ $P_{w}2$ $\frac{P_{\boldsymbol{W}}}{P_{\boldsymbol{C}}}$ Cal. Pt (psia) $P_{\mathbf{w}}$ 1. 2. 337.8 0.37 0.14 0.02 337.8 220.5 265.4 0.47 0.22 0.03 265.4 292.9 192.9 3. 439.2 0.56 0.31 0.04 192.9 365.4 223.2 4. 49.8 0.76 0.57 0.06 508.5 49.8 Absolute Potential: 1,160 _____MCFPD; n_ 0.879 COMPANY_ Skelly Oil Company ADDRESS_ Box 38, Hobbs, New Mexico AGENT and TITLE WITNESSED 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 (Pw). MCF/da. @ 15.025 psia and 60° F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw 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.
- hw Differential meter pressure, inches water.
- Fg = Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n _ Slope of back pressure curve.
- Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.