J-Mary L-Paul Stock 1- Astoc Oil & Que Lo Southern Moles l-Johan l-Hedfern & Herd l-File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55 Dekets San Juan Pool __Formation_ __County 1-14-62 Initial_ Annual ___Special _Date of Test_ Redfern & Herd, Inc. Pederal Company_ __Lease Well No. Twp. Unit Rge. Purchaser 9.5 4 11.6 Casing Set at Perf. To Open ended Tubing_ Wt. Set at_ Perf. I.D. To_ 6190 6326 0.650 Gas Pay: From_ жG _GL Bar.Press. I Producing Thru: Casing_ Tubing_ Type Well 13-32-60 Single-Bradenhead-G. G. or G.O. Dual Packer___ Date of Completion: Reservoir Temp.__ OBSERVED DATA Tested Through (Prover) (Choke) (Meter) Type Taps_ Flow Data Tubing Data Casing Data (Prover) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) of Flow or. o_F, Size Size psig hw oF. psig Hr. 3/40 386 44 1112 3 300 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow No Factor **Factor** Factor Q-MCFPD (24-Hour) $\mathbf{h}_{\boldsymbol{W}}\mathbf{p}_{\boldsymbol{\mathbf{f}}}$ $\mathbf{F_t}$ psia Fg Fpv @ 15.025 psia 12.3650 197 1,0050 .9993 1.82 2254 PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons_ Specific Gravity Flowing Fluid_ _deg. ___(1-e⁻⁸) P₊2 $(F_cQ)^2 (1-e^{-s})$ No. $(F_cQ)^2$ $P_c^2 - P_w^2$ F_c^Q $P_{\mathbf{w}}^2$ Cal. Pt (psia) 1196 1264 2971 1.4251 .75 Absolute Potential . For MCFPD; n_ COMPANY Den 1747, Maland ADDRESS AGENT and TITLE WITNESSED COMPANY REMARKS JAN1 6 1961

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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 \equiv 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 2 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.
- hall Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I 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 $P_{\rm t}$.