NEW MEXICO OIL CONSERVATION COMMISSION HOBBS OFFICE OCC Form C-122 MULTI-POTAT HACK PRESSURE TEST FOR GAS WELLS 5 PM Revised 12-1-55 2:08

Pool Jalmet ___Formation_____Tates ____County_____Lea Initial Annual Special X Date of Test 1-14 to 1-18-57 Company Seuthern California Pet. Lease Martin B Well No. 1 Casing 5 1/2 Wt. 14 1.D. 5.012 Set at 2652 Perf. Open Hele To I.D._____Set at_____Perf.____ Tubing West Wt. To Gas Pay: From 2880 To 3150 L 2852 xG .655 -GL 1868 Bar. Press. 13.2 Producing Thru: Casing X Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 10-6-47 Packer Fore Reservoir Temp. OBSERVED DATA Tested Through (Meter) Type Taps_ Flance Flow Data Tubing Data Casing Data Press. Diff. Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) of Flow o_F. \circ_{F} . Size Size $\mathbf{h}_{\boldsymbol{W}}$ psig $^{\circ}F$. psig psig Hr. SI 458 89 88 .750 369 25.0 371 2. 338 318 .750 .750 40.9 34**0** 319 53.3 21 75.7 .750 290 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow Flange No. Factor Factor Factor Q-MCFPD $/_{h_{\mathbf{w}}p_{\mathbf{f}}}$ Fg Ft (24-Hour) psia @ 15.025 psia $\mathbf{F}_{\mathbf{p}\mathbf{v}}$.9571 .9571 .9571 3.515 .9732 97.73 1.032 2. 3.515 119.90 .9741 1.029 3.515 132.81 1.025 4. <u> 3.515</u> 151.44 .9571 1.024 PRESSURE CALCULATIONS _____cf/bbl. las Liquid Hydrocarbon Ratio Specific Gravity Separator Gas ravity of Liquid Hydrocarbons_ __deg. Specific Gravity Flowing Fluid .9002 (1-e^{-s}) .120 P_c 471.2 P_c 222.0 In Pa $\frac{\left(F_{c}Q\right)^{2}}{\left(1-e^{-s}\right)}$ P_{t}^{2} No. F_cQ $(F_cQ)^2$ $P_c^2 - P_w^2$ $P_w 2$ Cal. 🏬 (psia) P_w .364 44.7 .055 .611 .113 .014 332.2 110.4 .399 111.6 .159 ,019 110.4 304.2 92.5 129.5 .454 .296 .025 92.5 Absolute Potential: MCFPD; n .759 Southern California Petroloum Corporation COMPANY Ber 1071, Eidland, Teras ADDRESS AGENT and TITLE Joe A. Colones, P.R., You Morico, Cort. No. 2208
WITNESSED Well tested by Il Pase Estural Ses Company COMPANY Beal-Colonan Engineering Company REMARKS

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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 = Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.