CONCERNMENT ON CONCERNMENT ----.

| | | | ~ | , m* *** | | | | \sim | | UIL | |
|---|---|---------------|---------------------------------------|---------------------------------|------------------|-----------------------------------|----------------------|--------------------------------|-----------------|--------------------------|--|
| | 4. L | - | NI | W MEXICO | OIL CONS | ERVATION | COMMISSI | ON | \$ | u engineer | |
| | HOBBS OFFICE OCC | | | | | | | | | Form C-122 | |
| | MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-5 | | | | | | | | | | |
| Poo] | 1 Manant | | | 1956 | OCT 10 | | | | les | | |
| Init | tial 🔭 🕱 | | Annual | | Spec | ial | | _Date of | Test <u>1</u> - | 85 to 8-1-56 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | ing 5.5 b | | | | | | | | | | |
| | ing 1.375 W | | | | | _ | | | | | |
| | Pay: From | | | | | | | | | | |
| | | | | | | | | | | | |
| Date | a of Complet | ion | 5-27-55 | Packe | | Sin | gle-Brade Reservo | enhead-G. | G. or G | .O. Dual | |
| Dave | e or compret | .1011; | | 1 dere | | | | TI Iombe ⁻ | | | |
| OBSERVED DATA Tested Through (Protory (Meter) Type Taps | | | | | | | | | | | |
| Test | ted Through | | | <u>(Meter)</u> | | | | Casing Data | | | |
| <u> </u> | (Hover) | F10 | ow Data) Pres | ss. Diff. | Temp. | Tubing Press. | | Press. | | | |
| No. | (Line) Size | (Orifi Siz | ce) | ig h _w | ° _F . | psig | ° _F . | psig | °F∙ | of Flow Hr. | |
| SI | | | | | | | | 890.J | | 72 | |
| 1. 2. | | 1.50 | 1 A | | R. | | | 000.5 | <u></u> | | |
| 3. | | 1.50 | 188 | 5 867 | | | <u></u> | 765.0 | _ | | |
| 4. | | 8.30 | 50 | | | | <u> </u> | 769-1 | + | | |
| FLOW CALCULATIONS | | | | | | | | | | | |
| | Coefficient | | | Pressure | essure Flow | | Gravity | Compre | | Rate of Flow | |
| No. | (24-Hou | ur) ¬ | h _w pf | psia | | tor t | Factor Fg | Factor F _{pv} | | Q-MCFPD @ 15.025 psia | |
| 1. | - Ball | | 6.10 | | | 7 | - QZZZ | | | 781 | |
| 2. | | | 116.00 | | | | | | | | |
| 3。 4. | | | 140.30 | | | | | 1.05 | | 7970 | |
| 5. | | 008 2.2% | | | | | | | | | |
| | | | | PR | ESSURE (| ALCULATI | ons | W2 1. | 254 | | |
| Gas I | Liquid Hydro | ocarbon 1 | Ratio | | cf/bbl. | , | Speci | fic Gravi | ty Sepa | arator Gas | |
| Gravi | ity of Liqui | ld Hydro | $\operatorname{carbons}_{(1-e^{-i})}$ | 5) 0,367 | deg. | • | Speci P_ | fic Gravi | y Flov | ving Fluid | |
| с | | | (_ 0 | £ | | - | - C | | | | |
| | Pw | _2 | | (7.0)2 | | 2 | | $P_c^2 - P_w^2$ | | | |
| No. | Pt. (nsia) | Pt | F _c Q | (F _c Q) ² | () | $\left(\frac{1}{e^{-s}}\right)^2$ | P _w 2 | r _c -r _w | | Pw Pc | |
| 1. | | 145.3 | L.Z.S | 5.0 | | <u>736</u> | | -145.4 | - | i i | |
| 3. | | 605.6 | 11.870 | 2214 | | | | 200.0 | 770. | | |
| 4. | -702.3 | 262.07 | 20100 | | | | 37.6.54 | and all | | | |
| <u>>•</u> | | <u> </u> | 5,700 | | | L | 5.66 | L | | <u>l</u> | |
| Absolute Potentical of Company MCFPD; n | | | | | | | | | | | |
| ADD | RESS | 7 | | | | | | | | ···· | |
| AGENT and TITLE St. L. Smith WITNESSED | | | | | | | | | | | |
| COM | PANY | | | | | | | | | | |

DEMIA DIZO

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
- Pt- Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f Meter pressure, psia.

hw= Differential meter pressure, inches water.

Fg Gravity correction factor.

Ft_ Flowing temperature correction factor.

F_{nv} Supercompressability factor.

n I 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 .

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Culf Oil Corporation Graham State "E" No. 2 J-6-21S-36E, Lea Co. 8-1-56



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