| MULTI-POINT | BACK | PRESSURE | TEST | FOR | GAS | WELLS |
|--------------|------|----------------|------|-----|-----|-----------|
| MODIT - OTHI | DAON | 1 111110001111 | TINI | rOn | CHO | تربيسا ٧٧ |

| Revised | 12-1-55 |
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|) | ol Eumont | | |] | Formation | n දැ | ueen | | County | Le | Lea | | |
|--|--------------------------------|-----------------------------|----------------|-----------------|----------------|-------------|--------------------|----------------------|-----------------------|-------------------|----------------------|----------------------------------|--|
| nitialAnnualSpecial_X Date of Test 1-27-61 | | | | | | | | | | | | | |
| OI | mpany Contin | nental | Oil C | ompan | <u> </u> | _Lease | SEMU Eumo | nt | Wel | ll No | 67 | | |
| Jn: | it K | Sec. 2 | 4Tw | p_ 20 | S R | ge37E | Purc | haser | E.P.N.G. | | | | |
| Jas | sing 5 1/2 V | vt <u>1</u> | <u>4</u> I | .D. 5 | .012 Se | et at 390 | 00 Pe | rf36 | 08 | То | 3736 | | |
| | oing <u>2</u> V | | | | | | | | | | | | |
| Gas | s Pay: From_ | 3608 | _To | 3736 | L3 | 608 | cG671_ | | 2421 | Bar.Fr | ess] | 13.2 | |
| Pro | oducing Thru: | : Cas | sing | | T | ibi.ng | х | Type We | ell <u>Sir</u> | ngle | | | |
| Dat | ce of Complet | cion: | 5 - 31 | - 57 | Packe | r None | Sin e | gle-Brade Reservo | enhead-G. oir Temp | G. or (| G.O. Du | ıal | |
| | | | | | | | ED DATA | | | | | | |
| Tested Through (Chokek (Meter) Type Taps Flange | | | | | | | | | | | | | |
| | | | low Da | | | | Tubing | Data | Casing D | ata | I | | |
| No. | (Line) | (Orif | ice) | | I | 1 | Ī | | Press. | | | uration of Flow | |
| C.T. | Size | 51 | .ze | psig | h _w | 'F'. | psig | F. | | [⊃] F. | <u> </u> | Hr. | |
| SI l | 4 | •750 | | 203 | 27.04 | 42 | 5 <u>19</u> 430 | <u> </u> | 519 | | | 72 | |
| 2. | 4 | 750 | | 212 | 39.69 | <u>52</u> | 435 | | 504 495 | | | 24 24 | |
| | 4 | •750 | | 291 | 44.89 | 52 | 439 | | 489 | | 1 | 24 | |
| 4. | 4 | •750 | | 270 | 79.21 | 53 | 433 | | 472 | | | 24 | |
| <u>)•</u> | <u> </u> | L | | | | | <u></u> | L | | <u> </u> | <u> </u> | | |
| | | | | | | FLOW CAL | CULATION | S | | | | | |
| NT - | Coeffici | ent | | P | | Flow | Temp. | Gravity | | ess. Rate of Flow | | | |
| No. | $(24-\text{Hour}) \sqrt{h_W}$ | | $\frac{1}{h}$ | f psia | | Fac F | | | i i | | Q-MCFPD | | |
| 1. | 3.435 × | | | | | | | Fg | F _{pv} | | @ 15.025 psia | | |
| 2. | 3.435 | | 76.46 94.54 | | 16.2 25.2 | 1.0178 | | 9427 9427 | 1.024 | | 258.0 259.1 316.2 | | |
| <u>3</u> . | 3.4:35 | | 116.8 | | 04.2 | 1.0078 | | 9427 | 1.033 | | 393.9 | | |
| 4. 5. | 3-435 | | 149.7 | $7 \neq 28$ | 33.2 | 1.0068 | L. | 9427 | 1.030 | | 502.9 | | |
| <u> </u> | | | | | | | | | | | | - | |
| PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid | | | | | | | | | | | | | |
| c 9.936 $(1-e^{-s})$ 0.153 p_c 532.2 p_c^2 283.2 | | | | | | | | | | | | | |
| No. | P _w | P _t ² | Fc | 2 | $(F_cQ)^2$ | (F. | c ^{Q)2} | P _w 2 | $P_c^2 - P_w^2$ | | il. | P _w P _c | |
| 1. 2. | 517.2 | | | | | | | 267.5 | 15.7 | 11/2 | <u>W</u> | 27*18 - | |
| 2. 3. | 508.2 502.2 | | | SURED- | | | | 258.3 | 24.9 | 5000 | ې ا نه | 95 4 | |
| 4. | 485.2 | | - PITEM | JUNE I | | | | 252•2 235•4 | 31.0 47.8 | | | 94 - 22 91 - 7-2 | |
| 5. | | | | | | | | ~27,0 4 7 | 4100 | + | 7 | ' | |
| Absolute Potential: 1,500 MCFPD; n603 COMPANY Continental Oil Company ADDRESS Box 427, Hobbs, New Mexico | | | | | | | | | | | | | |
| | NT and TITLE | W. I |). How | ard. T | est Engi | | 11 1 17 | carrit | <i>7.</i> | | | | |
| | NESSEDPANY | | B. Mur | | Ca - C | | | | | | | | |
| | . ANI | <u>rı 1</u> | a.so_N | atural | L Gas Con | | ARKS | | | | | | |
| | *Insuffici | ent de | es tados e | o due | to tonde | mare to d | Pagana an | د . د | | | | | |

*Insufficient drawdown due to tendency to freeze off at chokes.

CC: NMOCC (2) WAM REM (4) WDH File

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 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\rm w}$ 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.
- FgI 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 $P_{\rm t}$.