| | · - | | |
|--|---------------------------------------|--|--|
| NO. OF COPIES RECEIVED | | | |
| DISTRIBUTION | | CONSERVATION COMMISSION | Form C-104 |
| SANTA FE | | T FOR ALLOWABLE | Supersedes Old C-104 and C-1. Effective 1-1-65 |
| FILE | | AND | |
| U·S.G.S. | AUTHORIZATION TO TH | AND RANSPORT OIL AND NATURA | L GAS |
| OIL | <u>-</u> | | 14 75 m |
| TRANSPORTER GAS | | | |
| OPERATOR | | | |
| I. PRORATION OFFICE | | | |
| Tenneco Oil Company | | | |
| P.O. Box 1031, Mid | | | |
| Reason(s) for filing (Check proper ba | | Other (Please explain) | |
| New Well | Change in Transporter of: | | |
| Recompletion | Oil Dry | 7103 | 7 65 |
| Change in Ownership X | - | | |
| If change of ownership give name and address of previous owner | Leonard Oil Company, 10 | th Floor Security Life | Bldg.,Roswell, New Mexico |
| II. DESCRIPTION OF WELL AND Lease Name | Veli No. Fool 2 | iame, Including Formation | Kind of Lease |
| Bates | ۶ J، | elmet (Gas) | State, Federal or Fee Fee |
| Location | | | |
| Unit Letter D; 66 | 60 Feet From The North L | ann id <u>660</u> Feet Fr | om The East |
| Line of Section k29 , To | ownship 25S Range | 37E , NMPM, | Lea County |
| II. DESIGNATION OF TRANSPOR | RTER OF OU AND NATURAL 6 | VAS | |
| Name of Authorized Transporter of O | | | proved copy of this form is to be sent) |
| None | | i de la companya de l | proved copy of this form is to be sent) |
| Name of Authorized Transporter of Co | asinghead Gas 🔃 or Dry Gas 🗶 | | proved copy of this form is to be sent; |
| El Paso Natural | | | Mexico |
| If well produces oil or liquids, | Unit Sec. Twp. Rge. | Is gas actually connected? | When |
| give location of tanks. | | Yes | unknown |
| | ith that from any other lease or pool | l, give commingling order number: | |
| V. COMPLETION DATA | Oil Well Gas Well | New Well Workover Deepen | ' Plug Back Same Res'v. Diff. Res'v. |
| Designate Type of Complet | ion - (X) | | |
| Date Spudded | Date Compl. Ready to Prod. | Total Depth | P.B.T.D. |
| | | | |
| Pool | Name of Producing Formation | Top Oil/Gas Pay | Tubing Depth |
| Perforations | | | Depth Casing Shoe |
| | | | |
| | TUBING, CASING, AT | ND CEMENTING RECORD | |
| HOLE SIZE | CASING & TUBING SIZE | DEPTH SET | SACKS CEMENT |
| | | | |
| | | | |
| | | | |
| | | <u> </u> | |
| V. TEST DATA AND REQUEST F | FOR ALLOWABLE (Test must be | | oil and must be equal to or exceed top allow |
| OIL WELL | | depth or be for full 24 hours) | 110 |
| Date First New Oil Run To Tanks | Date of Test | Freducing Method (Flow, pump, ga. | s lift, etc.) |
| | (F) | 2 | 1.07.2.2.07 |
| Length of Test | Tubing Pressure | Casing Pressure | Choke Size |
| | | 24 | Gas - MCF |
| Actual Prod. During Test | Oil-Bbls. | Water-Hbls. | Gds-MCF |
| GAS WELL | | | |
| Actual Prod. Test-MCF/D | Length of Test | Bbis. Condensate/MMCF | Gravity of Condensate |
| | | | |
| Testing Method (pitot, back p.) | Tubing Pressure | Casing Pressure | Choke Size |
| | | | |
| I. CERTIFICATE OF COMPLIAN | ice | OIL CONSER' | VATION COMMISSION |
| | | | |
| I hereby certify that the rules and | regulations of the Oil Conservation | A PROVED ! | |

84_

TITLE _

'n.

Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Leggett (Kignature) District Office Supervisor (Title)

(Date)

October 1, 1965

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for charges of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

Form C-122

NEW MEXICO OIL CONSERVATION COMMISSION MULTI-POINT BASK PRESSURE TEST FOR GAS WELLS

Pool

Jalmet

Revised 12-1-55

| Size Size psig h _w of psig of Flow psig of Flow Hr. | | | | | *************************************** | | | | 04 0 | | | |
|--|--------------------------|-------------------------|--------------------|--------|--|--|----------------------------|--|--------------------------------|---|------------------|--|
| Company Leonard Cil Co. Leaso Bates Well No. 2 | Init | ial | | Ann | | The state of the s | Spe | cial | X | Date of | Test_ | 2-11/2-8-1957 |
| Continue | Compa | any Lec | mard 0 | 11 Co. | the service of the se | | Lease | Bates | | We | ll No | 2 |
| Casing 5 1/2 Nt. 11.0 1.0 Set at 257h Perf. To | Unit | D | _Sec | 29 T | wp. 25 | Rg | e. 37 | Pur | chaser | EPM3 | | |
| Tubing 2 3/8 wt. 1.7 1.0. Set at 2715 Perf. To | | | | | | | | | | | т. | |
| Bas Pay: From 27th To 27th 1.2715 mid-660 mid- | Tubir | 2 3/8 | w+. 1 | 7 | ת ד | Ca | 07 | | GIL. | | _10 | |
| Tubing | Cac E | Onra E | _''` ` | - C | oi o | | L at el | 15 P | eri. | | _To | |
| Continent Press | uas r | ay: From | m 2)[4 | ToZ | 740 | L_ 271 | <u>5</u> | ି <u>0.660</u> | | 1792 | _Bar.Pr | ess. 13.2 |
| Continent Press | Produ | cing Thr | u: Ca | .sing | | Tu | bing | X Si | Type V | Vell 81 | gle | C O D1 |
| Process | Date | of Comple | etion:_ | 1-22- | 1952 | Packe | r None | | Reserv | voir Temp. | G. Or | G.O. Dual |
| Flow Data (11000) (Childs) (Press, Diff. Temp. Press, Pemp. Press. Temp. of Flow Size | | | | | | | OBSERV | ED DATA | | | | |
| Flow Data (11000) (Childs) (Press, Diff. Temp. Press, Pemp. Press. Temp. of Flow Size | Te ste | d Through | n (F10 | Ver) (| enere) | (Meter) | | | | Type Tar | , F 1 | an se |
| Chick Chic | | | | | | | | Tubine | 7 17 m 6 m | | | |
| Control Size | | |) (ch | oke) | Press. | | Temp. | Press | Temp. | Press. | | Duration |
| Size psig h _w F psig F psig P Hr. | No. | | (Ori | fice) | | 1 | | | 5 | 1 | | of Flow |
| 1.000 172 1.0 50 360 | | Size | S: | ize | psig | h_w | \circ_{F} . | psig | °F. | psig | ⊃ _F . | 1 |
| 1.000 177 3.0 50 360 360 24 24 24 24 24 250 321 322 24 24 24 24 250 | SI | | | | | | | 400 | † | 410 | | 72 |
| 1.000 151 15.2 59 290 292 24 | L. | | | | | | 50 | 36 0 | | 360 | | —————————————————————————————————————— |
| FLOW CALCULATIONS | | | | | | | _54 | <u> 321</u> | ļ | | | |
| FLOW CALCULATIONS | - | | | | 1 | | | 290 | | | | 24 |
| FLOW CALCULATIONS | | | | | | 4007 | 02 | Z U0 | ļ | 21.3 | <u> </u> | 24 |
| PRESSUER CALLLE AT IONS Liquid Hydrocarbon Ratio Dry of/thl. Specific Gravity Separator Gas 0.6 Specific Gravity Flowing Fluid Plant (1-e-S) Pt (psia) Pt FcQ (PcQ) ² (Pc | c | 6.135 6.135 6.135 | - 1 | 41.35 | | psia | 1.0098 1.0058 1.0010 | | 9535 9535 9535 9535 | 1.019 1.019 | ĺ | @ 15.025 psia 164 248 |
| PRESSUER CALLLE AT IONS Liquid Hydrocarbon Ratio Dry of/thl. Specific Gravity Separator Gas 0.6 Specific Gravity Flowing Fluid Plant (1-e-S) Pt (psia) Pt FcQ (PcQ) ² (Pc | | 00437 | | OA. \T | | | .9981 | | 9535 | | | hili |
| Pt (psia) Pt (ps | s Liq | uid Hydro | ocarbon id Hydr | ocarbo | ns | Mindro-endigento estativi vecca i | of/tbl. | esib (47) | Sp eci Spe ci | ific Gravit | y Flow | ing Fluid |
| 103.2 91.9 102.4 66.7 .78 221.2 16.9 51.2 127.9 .51 | o. | | | Fc | Q | (F _e Q) ² | (1. (1. | | | P _c -P _w ² | Ca. | l. Pw Pc |
| 103.2 91.9 102.4 66.7 .78 221.2 16.9 51.2 127.9 .51 | - 5 | 34.2 | 111.7 | | | | | I | 39.3 | 39.8 | | ny j |
| solute Potential: 560 MCFFD; a .810 MPANY DRESS BOX 706, HOSWell, N. H. ENT and TITLE TNESSED MPANY MPANY MPANY MPANY MPANY MPANY MPANY MPANY MPANY MOFFD; a .810 MCFFD; a | 3 | 03.2 | 91.9 | | Mea | ared | + | | | | | |
| solute Potential: 560 MCPFD; a .810 MPANY Leonard Oil Co. DRESS BOX 706, Roswell, N. M. ENT and TITLE Fowler Hix, Production Supt. ENESSED Karl U. Smith MPANY EPRO | 2 | 21.02 | | | | | + | | | | | |
| MPANY Leonard Oil Co. DRESS BOX 706, Roswell, N.H. ENT and TITLE FOWLER HIX, Production Supt. INESSED KAPL U. Smith MPANY KPNU | | | | | | Mariena de 19 anos. A reguera nça | — | | | 16/07 | · | 51 |
| MPANYBPMG | OMPAN ODRES SENT & | Y S and TITLE | | | Leonard Box 708 Fowler | Hix, Pro | I.N.M. | Michell Common Transplantation of Land Michelle Common Com | | | | |
| | | | | | | wert vii | | | | | | |
| | | · | · | | | | L) List v v | DIA | | | | |

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.
- 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.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{nv} Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.

Leonard Gil Co.
Bates #2
Unit "D", Sec. 29, T-25-S, R-37-E
Lea Co., N.M.

