KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | ٠., | | | (| See Ins | structi | ions on Re | verse Sid | e) | | | | | | | |
|---|--|---|--------------------------------|---------------------|---|--|-------------------------------------|--------------|--|---|--|---------------|-----------------------------|--|------------------------------|---|-------------|--|
| Open Flow Deliverabilty | | | | | | Test Date: API No. 15 | | | | | | | | | | | | |
| | | щу | • • | | | 9/21/20 | 12 | | | | | 15-18 | 89-21320 - | 0000 | | | | |
| Company Chesape | | per | ating, Inc. | | | | | | Lease Juanita | F. Phillip | os | | | | | Well Nu 1-17 | mber | |
| County Location Stevens E/2 W/2 NW | | | | | Section 17 | | | TWP 31S | | RNG (E/W) 35W | | | | Acres Attributed | | | | |
| Field Cave | | | | | Reservoir Morrow | | | | | | Gas Gathering Connection Exxon | | | RECEIVE DEC 03 20 5611' KCC WICHIT | | | | |
| Completion Date 3/25/1989 | | | | | Plug Bac 6188 | k Total | Depti | h | Р | | | Packer Set at | | | | DEC 112 | | |
| Casing Size Weight 5 1/2" 15.5# | | | | Internal D 4.950 | Internal Diameter 4.950 | | | Set at 6237' | | | Perforations 5595' | | | | TO 5611' KCC 14"- | | | |
| Tubing S 2 7/8" | ubing Size Weight 6.5# | | | | Internal D 2.441 | Internal Diameter 2.441 | | | Set at 5640' | | | Perforations | | | | TO VICHIT | | |
| Type Completion (Describe) Single - Gas | | | | | Type Flui Water | Type Fluid Production Water | | | | Pump Unit or Traveling Plunger? Yes / Yes. Pump Unit. | | | | | / No | | | |
| Producing Thru (Annulus / Tubing) Annulus | | | | | % C | % Carbon Dioxide | | | | | % Nitrogen | | | | Gas Gravity - G _g | | | |
| Vertical 'E | |) | | | · · · · · · · · · · · · · · · · · · · | | | Press | sure Taps | | | | | | (Meter I | Run) (P | rover) Size | |
| Pressure | Buildu | o: \$ | Shut in9/2 | 21 | 20 | 12 at 7 | 1A 00: | M | (AM) (PM) | Taken_9 | /22 | | 20 | 12 at | 7:00 A | M (| AM) (PM) | |
| Well on L | .ine: | | | | 20 |) at | | | (AM) (PM) | Taken | | | 20 | at | | (| AM) (PM) | |
| | | | | , | | | OBSE | RVE | D SURFAC | E DATA | | | | Duratio | n of Shut- | _{in} 24 | Hours | |
| Static / Dynamic Property | Size | Orifice Size (inches) Circle one Meter Prover Pres psig (Pm | | - 1 | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | mperature Temperature | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia | | Du | Duration (Hours) | | d Produced Barrels) | | |
| Shut-In | | | | | | | | | 15 | 29.4 | 0 | | 14.4 | 2 | 4 hrs. | | | |
| Flow | | | | | | ···· | | | | | | | | | | | | |
| | | | | | ······································ | | FLOW | STR | EAM ATTR | IBUTES | | | | | ····· | | <u> </u> | |
| Plate Coefficeient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | | Press Extension ✓ P _m x h | Fact | Gravity Factor F _g | | emperature F | | viation Metered Flow actor R F _{pv} (Mcfd) | | GOR (Cubic Fe Barrel) | | | Flowing Fluid Gravity G _m | | |
| | | | · · · · | Т. | | (OPEN FL | DW) (DI | ELIV | ERABILITY |) CALCUI | LATI | ONS | | - | /D \ | 2 00 | 07 | |
| (P _c) ² = | | : | (P _w) ² | = | : | P _d = | | % | ه (F | ⊃ _c - 14.4) - | + 14. | 4 = | : | | (P _a) | $x^2 = 0.2$ $x^2 = $ | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P _c) ² - (P _w) ² | | ; | ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ fled by: $P_c^2 + P_a^2$ | LOG of formula 1. or 2. and divide by: | formula 1. or 2. and divide P2-P2 | | Backpressure Curvi Slope = "n" or Assigned Standard Slope | | n v LOG | | G [| Antilog | | Open Flow Deliverability Equals R x Antilog (Mcfd) | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | Nation of the | 25: | | | 5 | . 1111 | | | | | 44.05 | | | |
| Open Flo | W | | | | Mcfd @ 14.6 | os psia | | | Deliverab | ollity | | | | victa @ | 14.65 psi | a | | |
| | | ~ | • | | ehalf of the report is true | | | | • | | | | • | | nat he ha | | • | |
| | | | ., | | . 5,551. 10 11 10 | 22 001100 | | 2.00 | | | July | J | | | | , 4 | | |
| | | | Witness | (if any | y) | | | | - | | | | For C | ompany | | | | |
| | ······································ | | F ^- | | | | | | _ | | ··· | | | | | | | |
| | | | For Com | missic | on | | | | | | | | Chec | ked by | | | | |

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DEC 0 3 2012 CC WICHITA

| | ACC WICHITA | | | | | | | | | | |
|-------------------------------------|---|--|--|--|--|--|--|--|--|--|--|
| | ury under the laws of the state of Kansas that I am authorized to request 2-3-304 on behalf of the operator Chesapeake Operating Inc. | | | | | | | | | | |
| | formation and statements contained on this application form are true and | | | | | | | | | | |
| correct to the best of my knowledge | e and belief based upon available production summaries and lease records | | | | | | | | | | |
| | on type of completion or upon use being made of the gas well herein named. emption from open flow testing for the Juanita F. Phillips 1-17 | | | | | | | | | | |
| gas well on the grounds that said w | | | | | | | | | | | |
| (Check and) | | | | | | | | | | | |
| (Check one) is a coalbed me | thang producer | | | | | | | | | | |
| | · | | | | | | | | | | |
| , 🔚 | is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER | | | | | | | | | | |
| | the present time; KCC approval Docket No | | | | | | | | | | |
| <u></u> | of producing at a daily rate in excess of 250 mcf/D | | | | | | | | | | |
| is not capable c | of producing at a daily rate in excess of 250 mc//D | | | | | | | | | | |
| | best of my ability any and all supporting documents deemed by Commission his claim for exemption from testing. | | | | | | | | | | |
| | | | | | | | | | | | |
| Date: 11/30/2012 | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | Signature: <u>Aletha Devore</u> | | | | | | | | | | |
| | Title:Aletha Dewbre, Regulatory Specialist | | | | | | | | | | |
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Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under OBSERVED SURFACE DATA. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.