KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t : | | | | (| 'See Instruc | tions on Re | everse Side |) | | | | |
|--|--------------------------|------------|--|---|--|---|---|---|---------------------------------|--|-----------------|----------------------------------|---|
| ✓ Op | en Flo | w | | | Test Date | a: | | • | API | No. 15 | | | |
| De | liverab _ | ilty | | _ | 8/3/201 | | | | | 033-21340 - | 0000 | | |
| Company Chesape | | Oper | ating, L.L.C | | | | Lease Pierce | | | | | 5-27 | ell Number |
| County Coman | che | | Locati 990 FNI | on _ & 990 FWL | Section 27 | | TWP 32S | | RNG (E/ 19W | W) | | Ac | cres Attributed |
| Field Bird Ea | ıst | | | - | Reservoi Mississi | | | | | hering Conne Energy Ser | | | KCO. |
| Completic | on Dat | е | | | Plug Bac 5933 | k Total Dep | th | | Packer S | et at | | | JIM WIC |
| Casing S 5 1/2 | ize | | Weigh 15.5 | t | Internal [4.950 | Diameter | Set 595 | | Perfor | rations | | го 5242 | RE- 05 201 |
| Tubing Si | ize | | Weigh | t | Internal [2.441 | Diameter | Set 510 | | Perfo | rations | | Го | KCC WIC JUN 05 201 RECEIVED |
| Type Con | npletio | n (De | | | | d Productio | | | Pump Un | it or Traveling | Plunger? | Yes / | |
| | Thru | (Anı | nulus / Tubing | 1) | % C | Carbon Diox | ide | , | % Nitrog | en | (| Gas Grav | rity - G _g |
| Annulus | | 15 | | | | D | T | | | | | Mater D. | ın) (Prover) Size |
| Vertical D | eptn(H | 1) | | | | Pres | sure Taps | | | | | weter At | in) (Prover) Size |
| Pressure | Buildu | p: | Shut in <u>8/2</u> | 2 | 14 at 8 | :00 | (AM) (PM) | Taken 8/ | 3 | 20 | 14 at 8 | :00 | (AM) (PM) |
| Well on L | ine: | | Started | 2 | 0 at | | (AM) (PM) | Taken | | 20 | at | | (AM) (PM) |
| | | | | | | OBSERVE | D SURFAC | E DATA | | | Duration o | of Shut-in | 24 Hours |
| Static / Dynamic Property | Orific Size (inche | 8 | Circle ane: Meter Prover Pressu psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Wellhead | sing Pressure P ₁) or (P _c) | Wellhea | ubing ad Pressure (P _t) or (P _c) | Durati (Hour | | Liquid Produced (Barrels) |
| Shut-in | | | | | | | 330 | 344.4 | 15 | 29.4 | 24 | | |
| Flow | | | | | | | | | | | | | |
| | | | | | . , | FLOW ST | REAM ATTR | BUTES | | | | | |
| Plate Coeffied (F _b) (F Mcfd | ient ,) | Pro | Circle one: Meter or ver Pressure psia | Press Extension ✓ P _m x h | Grav Fact | tor | Flowing Temperature Factor F _{II} | Fa | iation ctor _{pv} | Metered Flov R (Mcfd) | I . | GOR Cubic Feet/ Barrel) | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | | | |
| (D.)2 | | | /D. \2 | | • | OW) (DELIV | | • | | | | | = 0.207 |
| (P _c) ² = | | <u>-</u> - | (P _w)² ≃. | Choose formula 1 or 2 | | | | P _e - 14.4) + | | | | (P _d) ² = | |
| (P _o)²- (F or (P _o)²- (F | | (P |)2- (P _w)2 | 1. $P_a^2 - P_a^2$ 2. $P_a^2 - P_d^2$ divided by: $P_a^2 - P_w^2$ | LOG of formula 1. or 2. and divide by: | P _o ² - P _w ² | Slo As | pe = "n" - or signed lard Slope | 1 0 8 1 | .og | Antilo | g I | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | | | | | | | ! | | | | |
| Open Flor | <u>_</u> w | | | Mcfd @ 14. | 65 psia | | Deliverat | oility | <u> </u> | | Mcfd @ 14 | .65 psia | |
| The u | ındersi | gned | l authority, or | behalf of the | Company, s | states that h | ne is duly a | uthorized to | o make th | e above repo | rt and that | he has | knowledge of |
| | | | | id report is true | | | | | | | | | , ₂₀ <u>15</u> . |
| | _ | | Witness (li | any) | | | - | | | For C | Company | | |
| | | | For Comm | ssion | | | | | | Chec | ked by | | |

| | er penalty of perjury under the laws of | | • |
|------------------------|---|---|-------------------------------------|
| exempt status und | der Rule K.A.R. 82-3-304 on behalf of the | e operator <u>Chesapeake Operating, L.I</u> | C <u>.</u> |
| and that the fore | going pressure information and statem | ents contained on this application for | m are true and |
| correct to the bes | t of my knowledge and belief based upo | on available production summaries and | d lease records |
| of equipment inst | allation and/or upon type of completion | or upon use being made of the gas well | herein named. |
| l hereby re q u | est a one-year exemption from open flo | w testing for the Pierce 5-27 | |
| gas well on the gr | rounds that said well: | | 1.0 |
| | | | KCC WICH JUN 05 2015 RECEIVED |
| (Check | one) | | JUN EVIC |
| | is a coalbed methane producer | | 5 201 |
| | is cycled on plunger lift due to water | | RECEIVE |
| | is a source of natural gas for injection | into an oil reservoir undergoing ER | , ED |
| | is on vacuum at the present time; KC0 | Capproval Docket No | |
| \checkmark | is not capable of producing at a daily | rate in excess of 250 mcf/D | |
| • | e to supply to the best of my ability any y to corroborate this claim for exemptic | | d by Commission |
| Date: <u>5/11/2015</u> | | | |
| | Signature: | Katri Wnignt | |
| | 14 | atie Wright, Regulatory Analyst | |
| | Title: K | and vingin, regulatory rinary of | |

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.