KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | (| See Instruc | tions on Reve | erse Side |) | | | | |
|---|---------|--------|---|--|---|-------------------------------|--|----------------------|--|--------------------------------|-----------------------------|---|---|
| Open Flow | | | | Took Date | Test Date: API No. 15 | | | | | | | | |
| Deliverabilty | | | | | 04/07/2015 API No. 15 04/07/2015 | | | | | 0000 | | | |
| Company MERIT E | | RGY | COMPANY | | | | Lease CADY | | _ | | A-2 | Well Nu | ımber |
| County SEWARD | | | Location 660' FSL & 660' FEL | | Section 19 | | | TWP 34 | | W) | Acres Attributed | | Attributed , |
| Field CONDIT SW | | | • | | Reservoi LOWEF | | | | Gas Gathering Connection APC | | ection | | |
| Completion Date 09/02/1996 | | | | - | Plug Bac 6320' | k Total Dep | th | Packer S NA | | Set at | | | <u> </u> |
| Casing Size 5.5 | | | Weigh 15.5# | | Internal (4.95 | Internal Diameter 4.95 | | Set at 6320' | | rations 6' | т _о 6148' | | |
| Tubing Size 2.375 | | | Weight 4.7# | | Internal 0 1.995 | Diameter | Set at 5985' | | Perforations NA | | To NA | | |
| Type Completion (Desc COMMINGLED G | | | | | Type Flui WATE | d Production R | Pump NO | | _• • | Unit or Traveling Plunger? Yes | | | |
| Producing TUBING | • | (Anı | nulus / Tubin | g) | % C | arbon Dioxi | ide | | % Nitrog | en | Gas Gr | avity - (| G, |
| Vertical Depth(H) 6067' | | | | | | | Pressure Taps PIPE | | | | (Meter F | Run) (P | rover) Size |
| Pressure | Buildu | ıp: | Shut in 04/ | 07 | 20 15 at 1 | 1:00 AM | | | | | 15 at 11:00 | AM | (AM) (PM) |
| Well on L | ine: | | Started | | 20 at | | (AM) (PM) 1 | Taken | | 20 | at | | (AM) (PM) |
| | | _ | | | | OBSERVE | D SURFACE | | | | Duration of Shut- | in <u>24</u> | Hours |
| Static / Orifice Dynamic Size Property (inches | | ze | Gircle one: Meter Prover Pressi psig (Pm) | Pressure Differential in Inches H ₂ 0 | Temperature | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Ouration (Hours) | Liquid Produced (Barrels) | |
| Shut-In | .63 | | | | | | 110.0 | | | | 24 | | |
| Flow | | | | | <u> </u> | | | | | | | | |
| | - | | | | 1 | FLOW STR | REAM ATTRIE | UTES | | | | | T |
| Plate Coefficient (F _b) (F _p) Mod | | Pro | Circle one: Meter or ver Pressure psia | Press Extension √ P _m x h | ; C144. | | or Temperature | | ation ctor | Metered Flov R (Mcfd) | GOR (Cubic Fe Barrel) | el/ | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | | | |
| | | | | | (OPEN FL | OW) (DELIV | ERABILITY) | CALCUL | ATIONS | | (P _a): | ² = 0.2 | 07 |
| (P _c) ² = | | _: | (P _w) ² = | | P _d = | | % (P _e | - 14.4) + | 14.4 = | _ : | (P _d) | = | |
| $(P_o)^2 - (P_n)^2$ or $(P_e)^2 - (P_d)^2$ | | (P | (P _w) ² - (P _w) ² | Choose formula 1 or 1. $P_c^2 - P_s^2$ 2. $P_c^2 - P_d^3$ divided by: $P_c^2 - P_s^3$ | LOG of formula 1, or 2, and divide | P.2 - P.2 | Backpressure Curve Slope = "n" oror- Assigned Standard Slope | | n x | roe | Antilog | Open Flow Deliverability Equals R x Antilog (McId) | |
| | | _ | | | | | | | | | | | |
| | _ | | | | _ | | | | | | | | |
| Open Flor | w | | | Mcfd @ 14 | 1.65 psia | | Deliverabil | ty | | | Mcfd @ 14.65 psi | a | - |
| | | _ | • | | | | • | | | | rt and that he ha | | - |
| the facts s | tated t | therei | n, and that sa | aid report is tru | e and correc | t. Executed | this the 301 | | | ovember | | 1 ' | 20 15 |
| Witness (if any) | | | VANIOAO | Received KANSAS CORPORATION COMMISSION | | | | Merit Energy Company | | | | | |
| | | | YVIITESS (| any j | | | | | ı | | McClurkan | | _ |
| | | | For Comn | nission | | EC 02 | 2015 | | | Cher | ked by | ٠ | |

CONSERVATION DIVISION WICHITA, KS

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|---|--|
| | under the laws of the state of Kansas that I am authorized to request .304 on behalf of the operator Merit Energy Company |
| and that the foregoing pressure information correct to the best of my knowledge and of equipment installation and/or upon the liberary request a one-year exemptor. | mation and statements contained on this application form are true and and belief based upon available production summaries and lease records type of completion or upon use being made of the gas well herein named. Perform open flow testing for the Cady A-2 |
| gas well on the grounds that said well: | : |
| is on vacuum at the | er lift due to water ral gas for injection into an oil reservoir undergoing ER e present time; KCC approval Docket No roducing at a daily rate in excess of 250 mcf/D st of my ability any and all supporting documents deemed by Commission |
| Date: November 30, 2015 | |
| Received KANSAS CORPORATION COMMISSION DEC 0 2 2015 | Signature: Katherine McClurkan Title: Regulatory Analyst |

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.