KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | (| See Instructi | ions on Reve | erse Side |) | | | | | |
|--|---------|--|----------------------------------|---|--|--------------------------|--|----------------------------------|---|------------------------------|--------------------------------|---------------------------------|---|--|
| Open Flow | | | | | . | Total Date: | | | A DI | N- 46 | | | | |
| Deliverabilty | | | | Test Date 08/11/20 | | | API No. 15 15-189-22364-0000 | | | | | | | |
| Company MERIT ENERGY COMPANY | | | | | • | Lease HJV CORNELL | | | JNIVERS | •• | Well Number | | | |
| County Location STEVENS 660' FNL & 330' FEL | | | | Section 3 | | TWP RNG (E/W) 33S 39W | | | W) | Acres Attributed 640 | | | | |
| Field CHRISTOPHER | | | | Reservoir MORRO | | | Gas Gathering Conn APC | | | ection | | | | |
| Completion Date 03/01/2011 | | | | Plug Baci 6122' | k Total Dept | h | Packer Set at NA | | | ч | | | | |
| Casing Si 5.5 | ize | | Weigh 15.5# | Internal Diameter 4.95 | | Set at 6121' | | Perforations 5578' | | то 59 44 ' | | | | |
| Tubing Size 2.875 | | | Weigh | <u> </u> | Internal D | Diameter | r Set at 5882' | | Perforations NA | | To NA | | | |
| Type Completion (Describe) SINGLE GAS | | | | mle | | d Production |) | | | it or Traveling | Plunger? Ye | s / No | | |
| Producing Thru (Annulus / Tubing) TUBING | | | | | % Carbon Dioxide | | | % Nitroge | en | Gas Gravity - G _g | | | | |
| Vertical Depth(H) | | | | | Pressure Taps | | | | | | (Meter Run) (Prover) Size | | | |
| 5761' | | | 08/ | . , . 15 9: | FLAN OO AM | | GE (AM) (PM) Taken 08/12 | | | 15 , 9:00 | AM | / A B 43 / (T) b 43 | | |
| Pressure Buildup: Well on Line: | | | | | | | | [AM] (PM) Taken | | | | | (AM) (PM) (AM) (PM) | |
| | | | | | | | D SUBEACE | | <u> </u> | | Duration of Shu | 24 | Hours | |
| Static / | | | Circle one: Meter | Pressure Differential | Flowing | Well Head | Wellhead Preser | | 1 | ubing ad Pressure | Duration | | quid Produced | |
| Dynamic Size Property (inche | | LProver Pressure | | re in Inches H ₂ 0 | Temperature t | Temperature t | Psig psia | | (P _w) or (P ₁) or (P _c) psig psia | | (Hours) | | (Barrels) | |
| Shut-In | 1.0 | | | | | | 110 | | | | 24 | | | |
| Flow | | | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTRIE | UTES | | | | | - | |
| Plate Coetfiecient (F _b) (F _p) Mc(d | | Circle one: Meter or Prover Pressure psia | | Press Extension ✓ P _m x h | Extension Fact | | Flowing emperature Factor F _{II} | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | GO: (Cubic Barre | Feel/ | Flowing Fluid Gravity G _m | |
| | | | | | - | | | | | | | | | |
| | | | | | (OPEN FL | OW) (DELIV | ERABILITY) | CALCUL | ATIONS | | (F | $(a^2)^2 = 0.3$ | 207 | |
| (P _c) ² = | | <u>.</u> : | (P _w) ² = | <u> </u> | P _d ≃ | 9 | 6 (P _c | - 14.4) ÷ | 14.4 = | | (P | (_d) ² = | | |
| $(P_{c})^{2} - (P_{a})^{2}$ or $(P_{c})^{2} - (P_{d})^{2}$ | | (P _c)²- (P _w)² | | 1. P ₀ ² - P _n ² 2. P ₀ ² - P _n ² | 1. P ₀ ² -P ₁ ² LOG of formula 2. P ₀ ² -P ₁ ² 1. or 2. and divide | | Backpress Slope | | nxl | .og | Antilog | De | pen Flow liverability s R x Antilog ((Mcfd) | |
| - | - | | | divided by: P _c - P _w | 2 by: | <u> </u> | Standar | d Slope | | | - | | () | |
| | | | | | _ | | | | | | | | | |
| Open Flo | w | Mcfd @ 14.65 psia | | | | Deliverability | | | Mcfd @ 14.65 psia | | | | | |
| | | - | - | | | | | | | | rt and that he | | | |
| the facts s | tated t | herei | in, and that sa | id report is tru | e and correct | | | <u>:n</u> | day of | ovember | | 1 | 20 15 | |
| | | | Witness (i | any) | | KANSAS COR | Received RPORATION GO | MMISSION | | | y Compa | | | |
| | | | ForComm | ission | | DE | C 0 2 20 | 15— | <u> </u> | | McClurka ^{cked by} | n | | |

CONSERVATION DIVISION WICHITA, KS

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Merit Energy Company and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| of equipment installation and/or upon type of completion or upon use being made of the gas well herein named I hereby request a one-year exemption from open flow testing for the HJV Cornell University A-1 | | | | | | | | | |
| gas well on the grounds that said well: | | | | | | | | | |
| (Check one) is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D | | | | | | | | | |
| I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: November 30, 2015 | | | | | | | | | |
| Signature: Katherine McClurkan Anthouril MCLurkan Kansas corporation commission Title: Regulatory Analyst Conservation division Wichita, Ks | | | | | | | | | |

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.