KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: Open Flow | N | | (5 | See Instructi | ons on Rev | erse Side) | | | | | |
|--|--|--|-------------------------------------|--|--|--------------------------------------|--|---------|---|--|--|
| ✓ Deliverabilty | | | Test Date: 10/21/20 | | API No. 15 15-175-20838 <i>—₽00₽</i> | | | | | | |
| Company MERIT ENERG | GY COMPAN | Y | · | | Lease HEADRI | CK A | | 4 | 1 | Well Number | |
| County Location SEWARD 1980' FSL & 330' FEL | | | Section 11 | | TWP 35 | | RNG (E/W) 34W | | Acres Attributed 640 | | |
| Field WIDEAWAKE | Reservoir LOWER | MORROV | Gas Gathering (| | ering Conne | ction | | | | | |
| Completion Date 08/13/1982 | Plug Back 6430' | Total Depti | 1 | | Packer Set at NA' | | | | | | |
| Casing Size 4.5 | 3 | | | iameter | Set at 6439 ' | | Perforations 6260' | | то 6276' | | |
| Tubing Size 2.375 | | | | Internal Diameter 1.995 | | , | Perforations NA | | To NA | | |
| | Type Completion (Describe) SINGLE GAS | | | | | Pump Unit or Traveli PUMPING UNI | | | ing Plunger? Yes / No T YES | | |
| Producing Thru CASING | (Annulus / Tubi | ng) | % C | arbon Dioxid | de | | % Nitroge | n | Gas G | ravity - G _g | |
| Vertical Depth(H) | | Press FLAN | sure Taps | • | | | (Meter Run) (Prover) Size | | | | |
| Pressure Buildup | p: Shut in 10 | 0/20/2013 2 | oat_09 | | | Taken 10 | 21/201 | 3 20 | | AM (AM) (PM) | |
| Well on Line: | Started | 20 | D at | | (AM) (PM) | Taken | | 20 | at | (AM) (PM) | |
| | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shu | t-in Hour | |
| Static / Orific Dynamic Size Property (inche | e Prover Pressure in | | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P ₀) psig psia | | Duration Liquid Produce (Hours) (Barrels) | | |
| Shut-In .875 | | | | | porg | 40 | pv.g | 15 | 24 | | |
| Flow | | | | | | | | | | | |
| Г | | | | FLOW STR | EAM ATTRI | BUTES | | | | | |
| Plate Coefficcient (F _b) (F _p) Mcfd | Circle one: Meter or Prover Pressure psia Press Press Extension P _m X I | | Gravity Factor F _g | | Temperature Factor | | eviation Metered Flow Factor R Fpv (Mcfd) | | GOR (Cubic F Barre | eet/ Fluid | |
| | · · · · · · · · · · · · · · · · · · · | | | | | 1 | | | | , | |
| (P _c) ² = | _: (P _w)² | = : | (OPEN FLO | | ERABILITY) 6 (P. | CALCULA 14.4) + | | : | | $(x_1)^2 = 0.207$ $(x_2)^2 = 0.207$ | |
| (P _c) ² - (P _a) ² or (P _c) ² - (P _d) ² | (P _c) ² - (P _w) ² | (P _w) ² Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² | | LOG of formula 1. or 2. and divide p 2 p 2 | | sure Curve e = "n" or igned | n x LOG | | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | divided by: $P_c^2 - P_w^2$ | by: | | Standa | rd Slope | | | | (| |
| | | | | | | | | | | | |
| Open Flow | | Mcfd @ 14. | 65 psia | | Deliverabi | lity | | | /lcfd @ 14.65 p | sia | |
| The undersi | igned authority, | on behalf of the | Company, s | tates that h | e is duly aut | | | • | t and that he h | nas knowledge of | |
| the facts stated th | herein, and that | said report is true | and correct | t. Executed | this the 4th | <u> </u> | ay of No | ovember | | , 20 _13 | |
| | | | | | | • | | m | cf | KCC V | |
| • | Witness | s (if any) | | | | | | For Co | ompany | | |
| | | | | | | | | | | | |

| . 6.4 | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|
| া declare under penalty | of perjury under the laws of the state of Kansas that I am authorized to request | | | | | | | |
| | A.R. 82-3-304 on behalf of the operator MERIT ENERGY COMPANY | | | | | | | |
| • | sure information and statements contained on this application form are true and | | | | | | | |
| correct to the best of my know | wledge 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-ye | ear exemption from open flow testing for the HEADRICK A-1 | | | | | | | |
| gas well on the grounds that | · | | | | | | | |
| | | | | | | | | |
| (Check one) | | | | | | | | |
| | is a coalbed methane producer | | | | | | | |
| | is cycled on plunger lift due to water | | | | | | | |
| | ce of natural gas for injection into an oil reservoir undergoing ER | | | | | | | |
| | uum at the present time; KCC approval Docket No. | | | | | | | |
| ✓ is not cap | pable of producing at a daily rate in excess of 250 mcf/D | | | | | | | |
| I further garge to supply | to the best of my ability any and all supporting documents deemed by Commission | | | | | | | |
| | orate this claim for exemption from testing. | | | | | | | |
| stan as necessary to conob | orate this claim for exemption from testing. | | | | | | | |
| | | | | | | | | |
| Date: 11/04/2013 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| • | | | | | | | | |
| | Signature: M Cherc Patrice | | | | | | | |
| | Title: REGULATORY ANALYST | | | | | | | |
| | HILE: TREOPEATORY ANALYST | | | | | | | |
| | Hitle: | | | | | | | |

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.