Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test | : | | | (| See Instructi | ons on Rev | erse Side |) | | | | |
|---|----------------------------------|--|--|---------------------------------------|--|--|--|--------------------|---|-------------------------------|---|--|
| Op | en Flow | | | Test Data | | | | ۸ÐI | No. 15 | | | |
| ✓ Deliverability | | | | Test Date: 02/19/2011 | | | | | 175-21667 - | 10-00 | | |
| Company Merit Energy Company | | | | Lease GAREY | | | | | Well Number A-4 | | | |
| County SEWAR | | | | Section 27 | | TWP RNG (E. 33S 33 W | | (W) | Acres Attributed 640 | | | |
| Field EVALYN | | | Reservoir LOWER MORROW/CHESTER D | | | | Gas Gat APC | hering Conn | ection | | | |
| Completion Date 12/11/1997 | | | Plug Back Total Depth 5976' | | | Packer Set at NA | | | | | | |
| Casing Size Weight 5.5 15.5 | | t | Internal Diameter 4.95 | | Set at 6049' | | Perforations 5816' | | то 5960' | | | |
| Tubing Si 2.375 | Tubing Size Weig 2.375 4.7 | | t | Internal Diameter 1.995 | | Set at 5969' | | Perforations NA | | To NA | | |
| | Type Completion (Describe) | | | Type Fluid Production WATER | | | | | nit or Traveling GER LIFT | g Plunger? Yes / No YES | | |
| | Thru (An | inulus / Tubing | 3) | % C | arbon Dioxid | de | | % Nitrog | jen | Gas Gr | avity - G _g | |
| | Vertical Depth(H) | | | Pressure Taps FLANGE | | | | 4 44 | | (Meter I | Run) (Prover) Size | |
| Pressure | Buildup: | Shut in2/19 | 9 2 | 0_11_at_1 | | (AM) (PM) | Taken_2/ | 20 | 20 | 11 at 1:30 P | M (AM) (PM) | |
| Well on L | ine: | Started | 2 | 0 at | | | | | 20 | at | (AM) (PM) | |
| | | | | | OBSERVE | D SURFACI | E DATA | | | Duration of Shut- | in Hours | |
| Static / Dynamic Property | Orifice Size (inches) | Circle one: Meter Prover Pressu psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Cas Wellhead (P _w) or (P | Pressure | Wellhe | Tubing ead Pressure r (P _t) or (P _c) psia | Duration (Hours) | Liquid Produced (Barrels) | |
| Shut-In | .75 | | 2 | | | pang | 150 | paig | 150 | 24 | | |
| Flow | | | | | | | | | | | | |
| | | | | | FLOW STR | EAM ATTR | IBUTES | | | | | |
| Plate Coeffiec (F _b) (F Mcfd | ient _p) Pr | Circle one: Meter or over Pressure psia | Press Extension ✓ · P _m x h | Fac | Gravity Te Factor F | | Flowing Deviation Factor F _{pt} | | Metered Flow R (Mcfd) | w GOR (Cubic Fe Barrel) | l (Hravity | |
| | | | | | | | | | | | | |
| (P _c) ² = | : | (P _w) ² = | : | • | OW) (DELIVI | |) | | : | | ² = 0.207 ² = | |
| | P _a) ² (1 | P _c) ² - (P _w) ² | Choose formula 1 or 2 1. $P_c^2 \cdot P_a^2$ 2. $P_c^2 \cdot P_d^2$ divided by: $P_c^2 \cdot P_a^2$ | LOG of formula 1. or 2. and divide | P _c ² -P _w ² | Slop | ssure Curve be = "n" - or signed ard Slope | n v | LOG | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | | |
| Open Flor | Α/ | | Mcfd @ 14. | 65 psia | | Deliverab | ilitv | | | Mcfd @ 14.65 ps | ia | |
| · | •··· | | | · · · · · · · · · · · · · · · · · · · | vicion that h | | | a maka t | | | | |
| | - | | | | | | | | ECEMBER | ort and that he ha | , 20 <u>11</u> | |
| me racis s | iaieu inere | and that Sa | aid report is true | anu conec | . Executed | ตแอ เมช <u>*</u> | $\overline{}$ | 10 / | 7. | Q R | EÇEIVED | |
| | | Witness (i | f any) | | · · · · · · | - | | ,, (| For | Company DE | C 1 4 2011 | |
| *************************************** | ··· | For Comm | ission | | | - | | | Che | cked by | ^ { | |
| | | | | | | | | | | KU | CWICHITA | |

| | ler penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator MERIT ENERGY COMPANY | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|
| | going pressure information and statements contained on this application form are true and | | | | | | | | |
| correct to the bes | t of my knowledge and belief based upon available production summaries and lease records | | | | | | | | |
| of equipment inst | allation and/or upon type of completion or upon use being made of the gas well herein named. | | | | | | | | |
| I hereby requ | est a one-year exemption from open flow testing for the GAREY A-4 | | | | | | | | |
| | rounds that said well: | | | | | | | | |
| (Check | cone) | | | | | | | | |
| | 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 agre | e to supply to the best of my ability any and all supporting documents deemed by Commission | | | | | | | | |
| staff as necessai | y to corroborate this claim for exemption from testing. | | | | | | | | |
| • | | | | | | | | | |
| Date: 12/7/2011 | | | | | | | | | |
| Julio | | | | | | | | | |
| | | | | | | | | | |
| | · · | | | | | | | | |
| | Signature: MChery Patrick | | | | | | | | |
| | Title: REGULATORY ANALYST | | | | | | | | |
| | Title: | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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.