KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: | | | | (| See Instruct | ions on Rev | erse Side |) | | | | |
|--|---|--------------|---|---|---|--|--|--------------------|-----------------------------|-----------------------------|---------------------|---|
| Open Flo | w | | | Test Date | ٠. | | | ΔÐI | No. 15 | | | |
| Deliveral | bilty | | | 10/21/20 | | | | | 175-21691-0 | 0000 | | |
| Company MERIT ENER | RGY COMPA | NY | | | | Lease MALIN B | | | | 1 | Well Nu | mber |
| County Location SEWARD 1980' FNL & 660' FWL | | | Section 3 | | TWP 33S | RNG (E/W) 32W | | (W) | Acres Attributed 640 | | | |
| Field FEDDER SW | | | | Reservoii UPPER | MORROV | / | | Gas Gat | hering Conn | ection · | | |
| Completion Da 01/24/1998 | te | | | Plug Bac 5985' | k Total Dept | h | | Packer S NA | Set at | | | |
| Casing Size Weight 5.5 15.5# | | | Internal Diameter 4.95 | | | | Perfo 565 | rations 2' | To 5674' | | | |
| Tubing Size 2.375 | Tubing Size Weight | | • | Internal E | Diameter | ameter Set at 5650' | | Perforations NA | | To NA | | |
| Type Completic | | | | Type Flui WATE | d Production | 1 | | Pump Ur | nit or Traveling | Plunger? Yes | / No | |
| Producing Thru | ı (Annulus / Tu | bing) | | % <u>-</u> C | arbon Dioxi | de | | % Nitrog | en | Gas Gra | avit y - G | i _g |
| TUBING Vertical Depth(| H) | | | | Pres | sure Taps | | | | (Meter F | Run) (Pr | over) Size |
| 5849' | , | | £. • | e) i. " | | NGE. | | 9. I oc 4.2 . | | 3 | 7,0 | |
| Pressure Buildi | up: Shutin _ | 10/21 | 20 | 15 at 9 | :30 AM | (AM) (PM) | raken_10 | /22 | 20 | 15 at 9:30 A | <mark>М</mark> (| AM) (PM) |
| Well on Line: | Started _ | | 20 | at | | (AM) (PM) | Taken | | 20 | at | (/ | AM) (PM) |
| | | | | - 7 | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | in 24 | Hours |
| Static / Oriti | Ze Prover Pr | er essure | Pressure Differential in | Temperature t t Wellhead Pressure Wellhead Pressure t t (P _w) or (P ₁) or (P _c) (P _w) or (P ₁) or (P _c) | | ad Pressure | Duration (Hours) | | | | | |
| Shut-In 75 | psig (f | -111) | Inches H ₂ 0 | | | 138.0 | psía | psig | psia | . 24 | | |
| Flow | | | | | | | | | | | | |
| | | | | · | FLOW STR | EAM ATTRI | BUTES | | | | | |
| Plate Coefficcient (F _b) (F _p) Mcfd | Circle one: Meter or Prover Pressu psia | re | Press Extension ✓ P _m xh | Gzav Faci 3F _ç | tor i | Flowing emperature Factor F _{I1} | Fac | ation ctor | Metered Flov R (Mcfd) | GOR (Cubic Fe Barrel) | et/ | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | | |
| (5.12 | | | | • | , , | ERABILITY) | | | | | ² = 0.20 | 07 |
| (P _{,c}) ^{2.} = | : (P" | | cose formula 1 or 2: | P,_= | | | - 14.4) + | | : : | (P _d); | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | (P _c) ² - (P _w) ² | | 1. $P_0^2 - P_a^2$ 2. $P_0^2 - P_d^2$ ded by: $P_0^2 - P_w^2$ | LOG of formula 1, or 27 and divide by: | P _c ² - P _w ² | Slope Assi | sure Curve e = "n" or gned d Slope | n x | LOG | Antilog | Deli Equals | en Flow verability R x Antilog Mcfd) |
| | | | | | | | | | | | | |
| - • | | | a a local a | | | | | | | | | |
| Open Flow | | _ | Mcfd @ 14.6 | 85 psia | • | Deliverabil | | | | Mcfd @ 14.65 psi | a | |
| The under | signed authorit | y, on t | pehalf of the | Company, s | states that h | e is duly aut | | | | rt and that he ha | | |
| the facts stated | therein, and th | at said | report is true | and correc | t. Executed | this the 30 | th . | day of _N | lovember | | , 2 | 15 |
| | Mito | ess (if ar | nv) | | | Received PORATION CON | MISSION | Me | | y Company | | |
| | | | | | | | | Ka | atherine N | AcClurkan | | |
| | For (| Commissi | IUII | | リヒし | CO 2 20° | 13 | | Otted | med by | | |

| l declare unde | penalty of perjury under the laws of the state of Kansas that I am authorized to request |
|---|---|
| exempt status unde | r Rule K.A.R. 82-3-304 on behalf of the operator Merit Energy Company |
| | ing pressure information and statements contained on this application form are true and |
| correct to the best of | of my knowledge and belief based upon available production summaries and lease records |
| of equipment install | ation and/or upon type of completion or upon use being made of the gas well herein named. |
| I hereby reques | et a one-year exemption from open flow testing for the Malin B 1 |
| gas well on the gro | unds that said well: |
| | |
| (Check o | ine) |
| | 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 |
| \checkmark | 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 3 | 0, 2015 |
| | · · |
| | |
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| | Signature: Katherine McClurkan William McClurka |
| KANSAS CO | Received Title: Regulatory Analyst |
| | EC 0°2 2015 |
| | SERVATION DIVISION |

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.