## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TESTCC WICHITA

| Type Test: (See Instructions on Reverse Side)                        |             |             |   |           |   |   |  |  |  |                       |  |          | ****                | 21 11 1A                     |  |  |  |
|--|-------------|-------------|---|-----------|---|---|--|--|--|-----------------------|--|----------|---------------------|------------------------------|--|--|--|
| Open Flow  |             |             |   |           | Test Date:  |   |  |  |  |                       |  |          | MAY                 | 15                           | 2014   |  |  |
| ✓ Deliverabilty  |             |             |   |           |   | Test Date: API No. 15 5/4/14 119 20125 20,5 |  |  |  |                       |  |          | 901-0               |                              |  |  |  |
| ompany<br>Quantun  |             | ource       | es Manage   | emei      | nt, LLC   |   |  | Lease<br>Fox                                       |  |                       |  |          | <u> </u>            | 36-M                         | Vell Nu  | WED -  |  |
| County Location Meade 4290' FML & 4290' FML                          |             |             |   |           | Section<br>36   |   | TWP<br>33S                                 |  |  |                       | RNG (E/W)<br>30W   |          |                     | Acres Attributed             |  |  |  |
| Field<br>Cimmaron Bend   |             |             |   |           | Reservoir   | •   |  | Gas Gathering Conne                                |  |                       |  | ection   |                     |                              |  |  |  |
| Completion Date 3/5/80   |             |             |   |           | Plug Bac<br>6272'   | k Total De                                  | epth                                       | Packer Set at                                      |  |                       | at   |          |                     |                              |  |  |  |
| Casing Size Weight 4 1/2"  |             |             |   |           | Internal [  | Diameter                                    |  | Set at<br>5999'                                    |  | Perforations<br>5812' |  |          | то<br>5826'         |                              |  |  |  |
| Tubing Size Weight 2 3/8"  |             |             |   |           | Internal [  | Diameter                                    | Se   | Set at 5800'                                       |  | Perforations          |  |          | То                  |                              |  |  |  |
| Type Completion (Describe) Gas Well                                  |             |             |   |           |   | Type Fluid Production Gas, Oil, Water       |  |  | Pump Unit or Traveling I<br>Plunger                                |                       |  |          | Plunger? (Yes) / No |                              |  |  |  |
| Producing Thru (Annulus / Tubing)                                    |             |             |   |           | -   | arbon Die                                   |  |  |  |                       | % Nitrogen   |          |                     | Gas Gravity - G              |  |  |  |
| ubing<br>ertical D   | Depth(H     | l)          |   |           |   |   | Pr   | essure Taps  |  |                       |  |          |                     | (Meter F                     | Run) (Pr   | rover) Size  |  |
| ressure  | Buildu      | p: 8        | Shut in _5/3  | 3         | 2   | 0_14_at_1                                   | 2:30                                       | (AM)(PA  | Taken_   | 5/4                   |  | 20       | 14 at_              | 12:30                        | (  | (AM)(PM)   |  |
| Well on Line: Started  |             |             | Started   | 20        |   | at  |  | (AM) (PM   | (AM) (PM) Taken_   |                       | 20   |          | at                  |                              | (AM) (PM)  |  |  |
|  |             |             |   |           |   |   | OBSER                                      | VED SURFA  | CE DATA  |                       |  |          | Duration            | of Shut-i                    | <sub>in_</sub> 24                                  | Hours  |  |
| Static /<br>Dynamic<br>Property                                      | ynamic Size |             | Circle one:  Meter Prover Pressure psig (Pm)                    |           | Pressure<br>Differential<br>in<br>Inches H <sub>2</sub> 0   | Flowing<br>Temperature<br>t                 | Well Hea<br>Temperatu<br>t                 | ure (P <sub>w</sub> ) or                           | Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$             |                       | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) |          | Duration<br>(Hours) |                              | Liquid Produced<br>(Barrels)                       |  |  |
| Shut-In  | iut-in      |             | Posit (m)   |           | IIICHBS 11 <sub>2</sub> O   | <del></del>                                 | -  | psig<br>18   | psia   | 20                    | sig  | psia     |                     |                              |  |  |  |
| Flow   |             |             |   |           |   | ļ.  |  |  |  |                       |  |          |                     |                              |  |  |  |
|  |             |             |   |           |   | 1-  | FLOW S                                     | TREAM AT   | TRIBUTES   |                       |  |          | 1.                  |                              |  |  |  |
| Plate<br>Coeffiecient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd |             |             | Circle one:<br>Meter or<br>Prover Pressure<br>psia              |           | C. de a a de a  |   | vity<br>tor                                | Flowing<br>Temperatur<br>Factor<br>F <sub>rt</sub> | e Deviati<br>Facto<br>F <sub>p</sub> ,                             |                       | tor R  |          | w                   | GOR<br>(Cubic Fee<br>Barrel) |  | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub>                |  |
|  | ·           |             | _   |           | <u> </u>  |   |  |  |  |                       |  |          |                     |                              |  | _  |  |
| D 12   |             |             | /D \2   | _         |   | -   |  | .IVERABILI`  |  |                       |  | •        |                     | _                            | ²= 0.2   | 07   |  |
| P <sub>c</sub> ) <sup>2</sup> =                                      | <del></del> | _:_         | (P <sub>w</sub> ) <sup>2</sup> :                                |           | se formula 1 or 2:  | P <sub>d</sub> =                            |  | %<br>  | (P <sub>e</sub> - 14.4)  | - 1                   |  | <u>;</u> |                     | (P <sub>d</sub> )            | ² =<br>  |  |  |
| $(P_o)^2 - (P_o)^2$<br>or<br>$(P_o)^2 - (P_d)^2$                     |             | (P,         | (P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |           | . P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup><br>. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup><br>od by: P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> | LOG of<br>formula<br>1. or 2.<br>and divide | formula<br>1. or 2.<br>and divide p 2. p.2 |  | Backpressure Cu<br>Slope = "n"<br>or<br>Assigned<br>Standard Slope |                       | n x LOG  |          | Antilog             |                              | Open Flow Deliverability Equals R x Antilog (Mcfd) |  |  |
|  |             |             |   |           |   |   |  |  |  |                       |  |          |                     |                              |  |  |  |
| Open Flo   |             |             |   |           | Mcfd @ 14.  | 65 neia                                     |  | Deliver  | ability  |                       |  |          | Mcfd @              | 14 65 nei                    |  |  |  |
| -  |             | · · · · · · | author!!  |           |   |   | totos the                                  |  |  | to mel                | , sh =   | ahawa sa |                     | •                            |  | lodge of   |  |
|  |             | •           | •   |           |   |   |  | t he is duly<br>ed this the                        |  |                       | _  | -        | ort and th          | al ne na                     |  | ledge of<br>20 <u>14                                    </u> |  |
|  |             |             | Witness   |           |   | <u>-</u>                                    |  | -  |  |                       |  | es Mana  | gement,             | LLC                          |  | WICH   |  |
|  |             |             | ANITHESS  | (ii etriy |   |   |  | _  |  |                       |  |          |                     |                              | _ <b>Μ</b> Δ\                                      | <del>/ 2 9 20</del> 1  |  |
|  |             |             | For Com   | missio    | 1   |   |  |  |  |                       |  | Che      | cked by             |                              |  | _ <del>_</del>   |  |
|  |             |             |   |           |   |   |  |  |  |                       |  |          |                     |                              | R  | ECEIVE   |  |

| 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 Quantum Resources Management, LLC  |
|--|
| 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 Fox 36-M |
| 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.  KCC WICHITA  |
| Date: 5/14/14 KCC WICHITA  |
| RECEIVED   |
| Signature: Little: 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.

KCC WICHITA

MAY 29 2014

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