## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test:   | :                        |               |   |   | (8                                 | See Instruct                          | tions on Rev   | verse Side  | )                               |  |             |                                |                |  |  |
|--|--------------------------|---------------|---|---|------------------------------------|---------------------------------------|--|---|---------------------------------|--|-------------|--------------------------------|----------------|--|--|
| Open Flow  Deliverability  |                          |               |   |   | Test Date                          |                                       |  |   |                                 | No. 15<br><b>-21292-00-</b>                                    | ഹ           |                                |                |  |  |
| Company  |                          |               | OURCES, L                                       | ıc  | 06-29-2                            | 015                                   | Lease<br>MICHA   |   | 033                             | -2 1292-00-  |             | ۷<br>#12-16                    | Vell Nur       | nber   |  |
| County   |                          |               | Location<br>SE/4                                |   | Section<br>12                      |                                       | TWP<br>35S   |   | RNG (E/W)<br>16W                |  |             | Acres Attributed 320           |                |  |  |
| Field<br>AETNA   |                          | ۱R            |   |   | Reservoir                          | SIPPIAN                               |  |   | Gas Gath                        | nering Conne   |             |                                |                |  |  |
| Completic<br>02-06-2   | n Date                   |               |   |   | Plug Back                          | k Total Dept                          | th   |   | Packer S<br>N/A                 | et at  | •           |                                | _              |  |  |
| Casing Size<br>4.5   |                          |               | Weight<br>10.50#                                |   | Internal Diameter 3.876"           |                                       | Set at 5463'   |   | Perforations<br>5246'           |  |             | то<br>5236'                    |                |  |  |
| Tubing Size<br>2.375   |                          |               | Weight 4.7#                                     |   | Internal Diame<br>1.995"           |                                       | Set at <b>5374</b> '   |   | Perforations                    |  |             | То                             |                |  |  |
| Type Com   |                          |               |   |   | Type Fluid                         | d Production                          | n  | •   |                                 | it or Traveling  | Plunge      | er? Yes                        | / No           |  |  |
|  | Thru (                   |               | ulus / Tubing)                                  |   |                                    | arbon Dioxi                           |  |   | % Nitrog                        |  |             | Gas Gr                         | avity - G      | ì <sub>o</sub>                                 |  |
| Vertical D   |                          |               |   |   |                                    | Pres                                  | sure Taps  | _   |                                 | <del></del> -  |             | (Meter f                       | Run) (Pr       | over) Size                                     |  |
| Pressure   | Buildup                  |               | Shut in _06-2                                   | 9 2   | 15 at 11                           | 1:00AM _                              | (AM) (PM)  | Taken 06  | 3-30                            | 20   | 15 at       | 11:00A                         | M (            | AM) (PM)                                       |  |
| Well on L  | ·                        |               |   |   |                                    |                                       |  |   |                                 | 20   |             |                                |                |  |  |
|  |                          | _             | _   |   |                                    | OBSERVE                               | D SURFAC   | E DATA  |                                 |  | Duratio     | on of Shut-                    | in 24          | Hours  |  |
| Static /<br>Dynamic<br>Property                                      | Orific<br>Size<br>(inche | Size Prover P |   | Pressure Differential In Inches H <sub>2</sub> 0  | Temperature                        | Well Head<br>Temperature<br>t         | Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) |   | Wellher<br>(P <sub>w</sub> ) or | ubing<br>ad Pressure<br>(P <sub>t</sub> ) or (P <sub>s</sub> ) |             | uration<br>lours)              |                | Liquid Produced<br>(Barrels)                   |  |
| Shut-In  |                          | 7             |   | menes 712   |                                    |                                       | psig<br>80   | psia  | 225                             | psia   |             |                                |                |  |  |
| Flow   |                          |               |   |   |                                    | · · · · · · · · · · · · · · · · · · · |  |   |                                 |  | _           |                                |                |  |  |
|  |                          |               |   |   |                                    | FLOW STE                              | REAM ATTR  | IBUTES  |                                 |  | <del></del> | -                              |                |  |  |
| Plate<br>Coeffictient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd |                          |               | Circle one:<br>Meter or<br>ver Pressure<br>psla | Press<br>Extension  | Extension Fac                      |                                       | Flowing<br>Temperature<br>Factor<br>F <sub>ft</sub>                                  | Deviation<br>Factor<br>F <sub>pv</sub>                  |                                 | Metered Flow<br>R<br>(Mofd)                                    |             | GOR<br>(Cubic Feet/<br>Barrel) |                | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub>  |  |
|  |                          |               |   |   |                                    |                                       |  |   |                                 |  |             |                                |                | _  |  |
| (P₅)² ≃  |                          | <b>:</b>      | (P <sub>w</sub> )² =_                           | :   | (OPEN FLO                          |                                       | /ERABILITY<br>% (F   | •   | .ATIONS<br>- 14.4 =             | :  |             | (P <sub>a</sub> )              | 2 = 0.2<br>2 = | 07   |  |
| (P <sub>c</sub> ) <sup>2</sup> - (I                                  |                          | (P            | c)² - (P <sub>w</sub> )²                        | noose lamula 1 or 2<br>1. $P_c^2 - P_a^2$<br>2. $P_c^2 - P_d^2$<br>ivided by: $P_c^2 - P_d$ | LOG of formula 1. or 2. and divide |                                       | Slo<br>As  | ssure Curve<br>pe = "n"<br>- or<br>signed<br>lard Slope | n x 1                           | LOG [  | A           | ntilog                         | Deli<br>Equals | en Flow<br>verability<br>R x Antilog<br>(Mcfd) |  |
|  |                          |               |   |   |                                    |                                       |  |   |                                 |  | _           |                                |                |  |  |
| Open Flo   | w                        |               |   | Mcfd @ 14   | .65 psia                           |                                       | Deliverat  | oility  |                                 |  | Mcfd @      | 14.65 ps                       | a              |  |  |
|  |                          |               | authority, on                                   |   |                                    |                                       | -  |   |                                 | •  | rt and      | that he ha                     |                | •  |  |
| ine facts s  | tated th                 | erei          | n, and that sai                                 | a report is tru   | e and correc                       | KCC /                                 | this the   | <u> </u>  | day of <u>JI</u>                | <del> ·</del>  |             |                                | ,              | <sub>20</sub> <u>15</u> .                      |  |
| <u></u>  |                          |               | Witness (if                                     | any)  |                                    | JUL 2                                 | 2 1 2015   |   |                                 | For C  | Company     |                                |                |  |  |
|  |                          |               | For Commis                                      | sion  |                                    | REC                                   | CEIVED   | _   |                                 | Cher   | ked by      |                                |                |  |  |

| 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 REDLAND RESOURCES, 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 MICHAEL #12-16 |
|--|
| gas well on the grounds that said well:  |
| 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: 07-14-2015  |
| KCC WICHITA  Signature:  CO-MANAGER  Title:  CO-MANAGER  |

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.