## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes   | :<br>en Flo | w   | One  | 1 0 0   | (  | See Insi                       | tructio   | ons on Re  | verse Sio                              | le)               |  |                       |                                 |                         |  |   |
|--|-------------|---|--|---|--|--------------------------------|---|--|--|-------------------|--|-----------------------|---------------------------------|-------------------------|--|---|
| ✓ De   |             |   | Test Date:<br>1/29 to 1/30/15                    |   |  |                                |   | API No. 15<br>033-21,298-00-06                                       |  |                   |  |                       |                                 |                         |  |   |
| Company<br>America   | , Inc       | 1725 10   | Lease<br>Murd                                    |   |  |                                |   |  |  |                   |  | Well Number           |                                 |                         |  |   |
| County   | he          | Locat<br>CNEN   |  | Section<br>03   |  |                                |   |  |  | NG (E/M<br>6W     | <i>'</i> )   |                       | ,                               | Acres A                 | Attributed   |   |
| Field<br>Aetna Gas Area  |             |   |  |   | Reservoir<br>Miss                            |                                |   |  | Gas Gathering Cont<br>Oneok            |                   |  |                       | ection                          |                         |  |   |
| Completi-<br>2/27/02   | on Dai      | e   |  |   | Plug Bac<br>5466                             | Plug Back Total Depth<br>5466  |   |  | Packer S<br>none                       |                   |  | t at                  |                                 |                         |  |   |
| Casing S<br>5.5  | ize         |   | Weigl  | ht  | Internal Diameter                            |                                |   | Set at 5500  |  |                   | Perfora<br>5262  | tions                 | то<br>5318                      |                         |  |   |
| Tubing Size Weight   |             |   |  |   | Internal [                                   | Diameter                       | Set   | t at Perforations  |  |                   |  |                       | То                              |                         |  |   |
| Type Cor<br>single   | npletio     | escribe)  |  | Type Flui<br>Oil/SW   |  |                                | Pump Unit or Traveling<br>yes - pump unit           |  |  |                   | g Plunger? Yes / No  |                       |                                 |                         |  |   |
| Producing<br>annulus   | •           | nulus / Tubin   | g)   | % c<br>.1920  | arbon D                                      | е                              | % Nitrogen<br>.6111                                 |  |  |                   | Gas Gravity - G <sub>o</sub><br>.659   |                       |                                 |                         |  |   |
| Vertical Depth(H)  |             |   |  |   | Pressure Taps<br>flange                      |                                |   |  |  |                   |  |                       | (Meter Run) (Prover) Size<br>3" |                         |  |   |
| Pressure Buildup: Shut in 1/26                                       |             |   |  |   | <sub>0</sub> _15 <sub>at</sub> _9            | (AM) (PM)                      | M) Taken_1/29 2                                     |  |  | 20                | 15 at.   | 5 at 9:00 am (AM) (PA |                                 |                         |  |   |
| Well on L  | .ine:       |   | Started _1/2                                     | <u>9</u> 2  | 0 <u>15</u> at <u>9</u>                      | 15 at 9:00 am (AM) (PM) Take   |   |  |  | 1/30 20           |  |                       | <u>15</u> at                    | 15 at 9:00 am (AM) (PM) |  |   |
| •  | •           |   |  |   |  | OBSE                           | RVED  | SURFAC   | E DATA                                 |                   |  |                       | Duration                        | n of Shut-              | <sub>in_</sub> 72                                  | Hours   |
| Static /<br>Dynamic<br>Property                                      | πic Size    |   | Circle one:<br>Meter<br>Prover Press             |   | Flowing Well Her Temperature Temperat        |                                |   | wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_c)$        |  |                   | 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  | In          |   | psig (Pm)  | Inches H <sub>2</sub> 0   |  |                                |   | psig psia<br>123.5 137.9   |  | +                 | psig psla  |                       | 72                              |                         |  |   |
| Flow   | w .750      |   | 30   | 6   | 36   | 36                             |   | 80.8   | 95.2                                   |                   |  |                       | 24                              |                         |  |   |
|  |             |   |  | ,   |  | FLOW                           | STRE  | AM ATTE  | IBUTES                                 | •                 |  |                       |                                 |                         | •  |   |
| Plate<br>Coeffiecient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd |             | Pro   | Circle one:<br>Meter or<br>over Pressure<br>psia | Press<br>Extension<br>✓ P <sub>m</sub> x h  | Gravity<br>Factor<br>F <sub>g</sub>          |                                | Flowing<br>Temperature<br>Factor<br>F <sub>11</sub> |  | Deviation<br>Factor<br>F <sub>pv</sub> |                   |  |                       | w GOR<br>(Cubic Fee<br>Barrel)  |                         | et/  | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub> |
| 2.740  |             | 44  | .4   | 16.32   | 1.232  |                                | 1.0   | 24   |  |                   | ;  | 56                    |                                 |                         |  |   |
| $(P_c)^2 = 1$  | 9.016       | 3 :   | (P <sub>w</sub> )² ±                             | <sub>=</sub> 9.063 <sub>:</sub>   | (OPEN FL<br>P <sub>d</sub> =                 |                                | LIVE  |  | ') CALCU<br>P <sub>c</sub> - 14.4)     |                   |  | :                     |                                 | (b°);<br>(b°);          | e 0.2  | 07  |
| $(P_o)^2 - (P_a)^2$<br>or<br>$(P_o)^2 - (P_d)^2$                     |             | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |  | Choose formula 1 or 2  1. P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> 2. P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> <sup>2</sup> divided by: P <sub>o</sub> <sup>2</sup> - P <sub>o</sub> | LOG of formula 1. or 2. and divide   p 2 p 2 |                                | ,2  | Backpressure Curv<br>Slope = "n"<br>or<br>Assigned<br>Standard Slope |  |                   | n x LOG  |                       | Antilog                         |                         | Open Flow Deliverability Equals R x Antilog (Mcfd) |   |
| 18.809   |             | 9.953   |  | 1.889   | .2762  |                                |   |  | .850                                   |                   | .2347  |                       | 1.72                            |                         | 96   |   |
|  |             |   |  |   |  |                                |   | Assigned   |  |                   |  |                       |                                 |                         |  |   |
| Open Flo   | w 96        |   |  | Mcfd @ 14   | 65 psia X .5                                 | psia x .50 = Deliverability 48 |   |  |  | Mcfd @ 14.65 psia |  |                       |                                 |                         |  |   |
|  |             | _   |  | on behalf of the  |  |                                |   | _  |  | 1                 | // _   | above repo            | ort and th                      | hat he ha               |  | rledge of<br>20 <u>15</u> .                   |
|  |             |   | Witness  | (if any)  | Kansas                                       | Rece                           | NOITION (   | j<br>Commissio   | N                                      | <u> </u>          | My ?   | Ford                  | Company                         |                         |  |   |
|  |             |   | For Comi   | mission   | F  | EB 0                           | <b>5</b> '  | <b>2</b> 015 - 1   |  | 10                | un,  | /// C Che             | cked by                         |                         |  |   |

CONSERVATION DIVISION WICHITA, KS