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

| Type Test   | ::   |   |                   |  |   | (See Instruc   | tions on Re  | verse Side)              |                       |                                  |   |                              |                 |  |
|---|--|---|-------------------|--|---|--|--|--------------------------|-----------------------|----------------------------------|---|------------------------------|-----------------|--|
| Ор  | en Flo                                       | w   |                   |  |   |  |  |                          | • • •                 | 45                               |   |                              |                 |  |
| Deliverabilty '   |  |   |                   | Test Date:<br>01/20/2011 - 01/21/2011                                |   |  |  |                          | No. 15<br>5-047-21,0: | 37 - <i>0</i> 00                 | 0   |                              |                 |  |
| Company<br>F.G. Holl Company, L.L.C.                            |  |   |                   |  | Lease<br>BRITTON B                      |  |  |                          |                       | V                                | Vell Number<br>3-15                               | _                            |                 |  |
| County Location   |  |   | Section           |  | TWP                                     | TWP RI   |  | /W)                      | į.                    | Acres Attributed                 |   |                              |                 |  |
| Edwards NW NW NW  |  |   | 15                |  | 248                                     | 24S 17   |  |                          |                       |                                  | ,   |                              |                 |  |
| Field   |  |   |                   |  | Reservoir                               |  |  |                          | Gas Gatt              | hering Connec                    | ction Semo  | ias Gath                     | ē,              |  |
| Wayne   |  |   |                   | Kinder   | Kinderhook                              |  |  |                          |                       |                                  |   | ፲ሀ                           |                 |  |
| Completion Date   |  |   |                   | Plug Back Total Depth  |   |  |  | Packer Set at            |                       |                                  |   |                              |                 |  |
| 05/04/1   | 982  |   |                   |  | 4388'                                   |  |  | None                     |                       |                                  |   |                              |                 |  |
| Casing Size Weight  |  |   | Internal C        | lameter  | Set at                                  |  |  | rations                  | То                    |                                  |   |                              |                 |  |
| 4-1/2" 10.5   |  |   |                   |  |   |  | 4434'  |                          |                       | 2'- 4366'                        |   |                              | _               |  |
| Tubing Siz  | ze   |   | Weight            |  | Internal L                              | nternal Diameter Set at                                  |  |                          |                       | rations                          | То  |                              |                 |  |
| Type Corr   | nlotio                                       | n (De   | 4.7#              |  | Type Elui                               | d Production   |  |                          | Dump He               | nit of Travelina                 | Plunger? Yes /                                    | No                           |                 |  |
| Single (  | · _  |   | scribe)           |  | rype Fiui                               | u Production   | ,  |                          | Fump of               | in or maveling                   | runger res r                                      | NO                           |                 |  |
|   | <u>`                                    </u> | ·   | ulus / Tubing)    |  | % Carbor                                | n Dioxide  |  |                          | % Nitrog              | en                               | Gas Gra   | avity - G                    | _               |  |
| Tubing  | ,  | <b>(</b> ,,   |                   |  | ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |  |                          |                       | •                                |   | , -,                         |                 |  |
| Vertical D  | epth(H                                       | 1)  |                   |  |   | Pressi   | ure Taps   |                          |                       |                                  | (Meter R  | un) (Prover) Size            | _               |  |
|   | (-   | •,  |                   |  |   | Flan   |  |                          |                       |                                  | 2"  | , (******, *****             |                 |  |
| Pressure  | Buildu                                       | D: :  | Shut in 01/1      | 4/2010 _19   | at_8:                                   |  | (AM) (PM)  | Taken 0                  | 1/14/20               | 10 19                            | at 8:00   | (AM) (PM)                    | <del></del>     |  |
|   |  |   | Started 01/1      |  |   |  |  | _                        | 1/15/20               | 110                              | at 8:00   | , , , ,                      |                 |  |
| Well on Li  | ine:   | ٤   | started           | 15   | at                                      |  | (AM) (PM)  | laken                    | 17 13/20              | 19                               | at  | (AM) (PM)                    | 1               |  |
|   |  |   |                   |  |   | OBSERVE  | D SURFAC   | E DATA                   |                       |                                  | Duration of Shut-                                 | in <u>24</u> Hot             | urs             |  |
| Static /  | Orif   | lce   | Circle one:       | Pressure   | Flowing                                 | Well Head  |  | sing                     | 1                     | Tubing                           | Duration  | I invite Books               |                 |  |
| Dynamic   |  | Size Prover Press   |                   | Differential re in (h)   | Temperature                             |  | Wellhead Pressure<br>(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) |                          | 1                     | rad Pressure<br>r (P, ) or (P, ) | (Hours)   | Liquid Produced<br>(Barrels) |                 |  |
| Property  | inch   | 183   | pslg              | Inches H <sub>2</sub> 0  | •                                       | t  | psig   | psia                     | psig                  | psia                             |   |                              |                 |  |
| Shul-In   |  |   |                   |  |   |  | N/A  |                          | 0                     |                                  | 24  |                              |                 |  |
| Flow  |  |   |                   |  |   |  | Down   | net                      | Pitim                 | mine -                           | Hown  | e aas                        | 7               |  |
|   |  |   |                   |  | · · · · · · · · · · · · · · · · · · ·   | FLOW STR   | REAM ATT   | RIBUTES                  | <del></del>           | <del>(''') -</del>               | <del>()                                    </del> | 3 3 2                        | _               |  |
| Plate   |  |   | Circle one:       | Press  | 6                                       | I  | Flowing  |                          |                       |                                  | 600   | Flowing                      | ٦               |  |
| Coeffictient (F <sub>b</sub> )(F <sub>p</sub> ) Mcfd            |  | Meter or<br>Prover Pressure<br>psia                             |                   | Extension  | Grav<br>Fac                             | ·   •  | Temperature  | 1                        | ation tor             | Metered Flov<br>R                | GOR<br>(Cubic Fe                                  | ev Fluid                     |                 |  |
|   |  |   |                   | š P <sub>m</sub> x H <sub>w</sub>                                    | F,                                      | ,  | Factor<br>F <sub>n</sub>   | 1                        | pv                    | (Mcfd)                           | Barrel)   | Gravity<br>G <sub>m</sub>    |                 |  |
| INICIO  |  |   |                   |  |   | <del></del>  | ' 11   |                          |                       |                                  |   |                              | $\dashv$        |  |
|   | . <u>.</u>                                   |   |                   |  |   |  |  | L                        |                       |                                  |   |                              |                 |  |
|   |  |   |                   |  | (OPEN FL                                | OW) (DELIV   | ERABILITY  | ) CALCUL                 | ATIONS                |                                  | (P_)  | 2 = 0.207                    |                 |  |
| (P <sub>c</sub> ) <sup>2</sup> =                                |  | _:  | (P_)2 =_          | :  | P <sub>a</sub> =                        |  | % (  | P <sub>c</sub> - 14.4) + | 14.4 =                | :                                | (P <sub>a</sub> ) <sup>2</sup>                    |                              |                 |  |
|   |  |   |                   | hoose formula 1 or 2.  |   | $\overline{\Gamma}$                                      | Backpre  | ssure Curve              |                       | Г٦                               |   | Open Flow                    | $\neg$          |  |
| (P <sub>e</sub> ) <sup>2</sup> - (P <sub>e</sub> ) <sup>2</sup> |  | (P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |                   | 1. P <sub>2</sub> - P <sub>3</sub>                                   | LOG of formula                          |  | Sto  | Slope = "n"              |                       | LOG                              | Antilog   | Deliverability               | Deliverability  |  |
| (P <sub>c</sub> )² - (F   | 2 <sub>a</sub> )2                            |   |                   | 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>          | 1, or 2,<br>and divide                  | P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> |  | signed                   |                       |                                  | , 1.u.og  | Equals R x Antilog           | 9               |  |
|   |  |   |                   | ivided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | by:                                     | <u> </u>   | Stand  | lard Slope               |                       |                                  |   | meid                         | _               |  |
|   |  |   |                   |  |   |  |  |                          | 1                     |                                  |   |                              |                 |  |
|   |  |   |                   |  |   |  |  |                          |                       |                                  |   |                              | ٦               |  |
|   |  |   |                   |  |   |  | 1  |                          |                       |                                  |   | <u> </u>                     | لـــا           |  |
| Open Flow   | ٧  |   |                   | Mcfd @ 14.6  | 5 psia                                  | <del>.</del>   | Deliverabi   | lity                     |                       |                                  | Mcfd @ 14.65 psia                                 | <u> </u>                     | _               |  |
| The u   | ndersi                                       | gned  | authority, on t   | ehalf of the C   | ompany, sta                             | tes that he is   | s duly autho   | rized to ma              | ke the ab             | ove report and                   | I that he has know                                | ledge of the facts           | į               |  |
|   |  | -   | at said report is |  |   |  | 251  | Ն .                      |                       | امعدا                            | 2011  | 10                           |                 |  |
| stated there  | ені, аг                                      | เบเกล   | ic said report is | uue and come   | ot. CXBCULE                             | ะบ แมร เกษ   |  | day of                   | الميحيد ا             | <u></u>                          |   | 'A                           | •               |  |
|   |  |   |                   |  |   |  |  |                          | _Les                  | sere                             | <u>22</u> M                                       | POED PRAIR                   | D               |  |
|   |  |   | Witness (if       | eny)   |   |  | ,  |                          |                       | For                              | Сотрапу   |                              | U               |  |
|   |  |   | For Commi         | ssion  |   |  |  |                          |                       | Che                              | cked by   | JAN 27 2                     | <del>01</del> 1 |  |

| exempt status und<br>and that the foreg<br>the best of my know<br>tion and/or of type<br>I hereby reque | er penalty or perjury under the laws of the state of Kansas that I am authorized to request the Rule K.A.R. 82-3-304 on behalf of the operator F.G. Holl Company, L.L.C. oing information and statements contained on this application form are true and correct to owledge and belief based upon gas production records and records of equipment installated completion or upon use of the gas well herein named.  Set a permanent exemption from open flow testing for the BRITTON B 3-15 ounds that said well: |
|---|---|
| (Check  | 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 incapable of producing at a daily rate in excess of 250 mcf/D   |
| Date: <u>01/25/201</u>  | Signature:S Mpcinge   |

## Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.