Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Tes | st: | | | | | (See Instruc | ctions on Rev | rerse Side, | 16 | 017.7 | 0168-00 | -60 |
|---|----------|----------------------|---|---|-----------------------------------|---------------------------------------|--|-----------------------|---|---|--------------------------------|-----------------------------------|
| O | pen Fl | ow | | | | | | | 12 - | 041-2 | 0100 00 | |
| √ De | elivera | bilty | | | Test Date 01/25/ | : 2011 - 01 | /26/2011 | | | | | |
| Company F.G. H | | omp | any, L.L.C | | | | Lease Masse | —- ∨ "B" | | | | Vell Number -18 |
| County | | ···· | Locati | | Section | | TWP | | RNG (E | :/W) | | cres Attributed |
| Edwards SE NE SE | | | 18 | | 248 | • • | | | | | | |
| Field | | | | | Reservoi | * | | | Gas Gat | hering Conne | ction | |
| Embry | | | | Mississippi | | | Semgas Gathering L.L.C. | | | | | |
| Completion Date 04/10/1875 | | | | Plug Back Total Depth | | | Packer S | Set at | | | | |
| | | |) A factorial | | 4398' | · · · · · · · · · · · · · · · · · · · | | | none | | | |
| Casing Size Weight 4-1/2" 10.5# | | Internal Diameter | | Set at 4394' | | Perforations 4294'-4307' | | То | | | | |
| Tubing S | ize | | Weigh | | Internal D | liameter | Set at | | | orations | То | |
| 2-3/8" 4.7# | | | | | | 95' | | | 10 | | | |
| Type Con | npletic | n (De | escribe) | <u>. </u> | Type Flui | d Production | | | Pump U | nit or Traveling | Plunger? Yes / | No |
| Single | <u> </u> | | | | SW | | | | Pump | Unit | | |
| | - | (Ann | ulus / Tubing) |) | % Carbor | Dioxide | | | % Nitrog | en | Gas Gra | vity - G _g |
| Tubing | | | | | | | | | | | | |
| Vertical D |)epth(l | - 1) | | | | Pressi | ure Taps | | | | (Meter Ru 2" | n) (Prover) Size |
| Pressure | Buildu | ıp: : | Shut in 01/2 | 25/2011 ₁₉ | at 8: | 00 | (AM) (PM) | Taken 0 | 1/25/20 |)11 19 | at 8:00 | (AM) (PM) |
| Well on L | .ine: | | | 26/2011 ₁₉ | | | (AM) (PM) | | 1/26/20 | 11 19 | at 8:00 | (AM) (PM) |
| | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut-in | 24 Hours |
| Static / Orifice Dynamic Size Property Inches | | Circle one: Pressure | | Flowing | Well Head | Casing | | Tubing | | | | |
| | | | Meter or Prover Pressu | | Temperature t | Temperature | Wellhead Pressure (P _w) or (P _t) or (P _c) | | Wellhead Pressure (P_w) or (P_1) or (P_2) | | Duration (Hours) | Liquid Produced (Barrels) |
| | | | psig | Inches H ₂ 0 | | | psig | psia | psig | psla | | |
| Shut-In | | | | | | | 180 | | | | 24 | |
| Flow | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTRI | BUTES | | | | |
| Plate | | | Circle one: | Press | Grav | ity | Flowing | Devi | ation | Metered Flow | GOR | Flowing |
| Coeffiecient (F _b) (F _b) | | | Meter or ver Pressure | Extension | Fact | or 1 | Temperature Factor | Factor | | R | (Cubic Fee | fluid Gravity |
| Mcfd | | | psia | š P _m x H _w | · F. | | F _n | F | pν | (Mcfd) | Barrel) | G, G, |
| | | | | | | | | | | *************************************** | | |
| | 1 | | | <u> </u> | /OPEN EL | | EDADU POA | | | | 1 | |
| (D)2 = | | | /D \2 - | • | | _ | ERABILITY) | | | | | = 0.207 |
| (P _c) ² = | | : | (P _w) ² = | Choose formula 1 or 2: | P _d = . | | T | - 14.4) + | 14.4 = | ; | (P _d) ² | = |
| (P _c)² - (F | P_)2 | (P | (P _w) ² - (P _w) ² | 1. P ₂ -P ₂ | LOG of | | | sure Curve s = "n" | | ا [] م | | Open Flow |
| or (P _c)² - (F | 2 J2 | | İ | 2. P _c ² -P _d ² | formula 1. or 2. and divide | | | or gned | пх | | Antilog | Deliverability Equals R x Antilog |
| (₆ / (| اه | | | divided by: P.2 - P.2 | by: | P.2-P.2 | | rd Slope | | L] | 1 | Mcfd |
| | | | | , | | | | | | | | |
| | | | | | · | | | | | | | |
| Open Flow | | | | Morrid @ 14 G | E neie | | Deliverabili | · | | | 1-71 0 44 051- | |
| · · | | - | | Mcfd @ 14.6 | | | Deliverabilit | | | | 1cfd @ 14.65 psia | |
| The u | ndersi | gned | authority, on | behalf of the Co | mpany, stat | es that he is | duly authoriz | zed to mal | ke the ab | eve report and | that he has knowle | edge of the facts |
| stated them | ein, an | d tha | t said report i | s true and corre | ct. Execute | d this the _ | C881 | day of | <u> </u> | anvan | 1 2011 | , 19 |
| | | | | | | | | • | (| \ \ \ \ \ - = - | | , |
| | | | Wilness (if | any) | | | | | | <u> </u> | ompany T | onge |
| | | | | - 47 | | | | | | rof (|) | |
| | | | For Comm | ission | | | | | | Chec | ked by | |

| | eclare under penalty or perjury under the laws of the state of Kansas that I am authorized to request t status under Rule K.A.R. 82-3-304 on behalf of the operator F.G. Holl Company, L.L.C. |
|--------|---|
| | at the foregoing information and statements contained on this application form are true and correct to |
| | st of my knowledge and belief based upon gas production records and records of equipment installa- |
| ion an | d/or of type completion or upon use of the gas well herein named. |
| Fhe | ereby request a permanent exemption from open flow testing for the Massey "B" 1-18 |
| as we | ll 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 incapable of producing at a daily rate in excess of 250 mcf/D |
| | |
| | |
| | |
|)ate: | 01/28/2011 |
| | |
| | |
| | |
| | |
| | Lavenessmanne) |
| | Signature: |
| | Title: Geologist |

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.

FEB 0 1 2011