KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes | it: | | | | (| See Instruc | lions on Reve | erse Side |) | | | | | |
|--|------------------|--|---|--|--|--|---|--|--|-----------------------------|--|---------------------------------------|--|--|
| Open Flow | | | | | | | | | • | M- 45 | | | | |
| Deliverability | | | | Test Date 8/21/15 |) : | | API No. 15 15-007-23308-0000 | | | | | | | |
| Company WOOLSEY OPERATING COMPANY, LL | | | | MPANY, I.L.O | _ | Lease LIEBL | ease | | | | Well Number | | | |
| County Location BARBER NE NE NW | | | on | Section 7 | - | TWP RNG (E/M 33 S 10 W | | W) | Acres Attributed | | | | | |
| Field TRAFFAS | | | | Reservoir MISSIS | | | | Gas Gathering Conn | | ection | | | | |
| Completion Date 9/17/08 | | | | | k Total Depi | th | | Packer S | et at | | | | | |
| Casing Size 4.500 | | | Weight 10.50 | | Internal Diameter 4.052 | | Set at 5064 | | Perforations 4630 | | то 4752 | | <u> </u> | |
| Tubing S | Tubing Size Weig | | | Internal D | | | | | Perforations | | То | | <u> </u> | |
| 2.375 4.70 Type Completion (Describe) | | | | 1.995 47 Type Fluid Production | | | | OPEN Pump Unit or Traveling Plung | | | / No | | | |
| SINGLE | | | | | WATER | | | | PUMPING | | | | | |
| Producing ANNUL | _ | (Annı | ılus / Tubing |) | % Carbon Dioxide | | | | % Nitrog | Gas Gr | Gas Gravity - G _g | | | |
| Vertical D | Depth(H) |) | | | , | Pres | sure Taps | | | | (Meter I | Run) (Pr | over) Size | |
| Pressure | Buildup |): S | hut in <u>8/2</u> 0 |)/15 2 | .0 at | | (AM) (PM) | aken_8/ | 21/15 | 20 | at | (| AM) (PM) | |
| Well on L | line: | s | tarted | 2 | 0 at | | (AM) (PM) 1 | Taken | | 20 | at | (| AM) (PM) | |
| | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | in | Hours | |
| Static / Dynamic Property | Dynamic Size | | Circle one: Pressi Meter Differer Prover Pressure | | Flowing Wett Hear Temperature Temperature t | | Wellhead Pressure $(P_w) \circ r(P_i) \circ r(P_c)$ | | Tubing Wellhead Pressure $(P_w) \text{ or } (P_t) \text{ or } (P_a)$ | | Duration (Hours) | | Liquid Produced (Barrels) | |
| Shut-In | .625 | | psig (Pm) | Inches H₂0 | | | psig 35 | psia | psig 40 | psia | 24 | | | |
| Flow | | | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTRIE | UTES | | | | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Citcle one: Meter or Prover Pressure psia | | Press Extension P _m x h | Grav Fact | tor 1 | Flowing Femperature Factor | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | v GOR (Cubic Fe Barrel) | | Flowing Fluid Gravity G _m | |
| | | | | | | | | | | | | | _ | |
| (P _c) ² = | | : | (P _w)² =_ | : | (OPEN FL | • • | ERABILITY) | CALCUL - 14.4) + | | : | (P _a) (P _d) | ² = 0.20 ² = | 07 | |
| (P _c) ² - (P _a) ² or (P _c) ² - (P _a) ² | | | | 2. P ₂ -P _d ² | LOG of formula 1. or 2. | | Backpressure Curve Slope = "n" | | n x LOG | | Antilog | | Open Flow Deliverability quals R x Antilog | |
| (-,) (| ' d) | | | fivided by: P.2-P. | and divide by: | P _c ² -P _w ² | | rd Slope | - | | | | Mcfd) | |
| | | | | | | | + | - | | | | | | |
| Open Flow N | | | Mcfd @ 14. | Mcfd @ 14.65 psia | | | Deliverability | | | Mcfd @ 14.65 psia | | | | |
| The | undersi | ned | authority, or | behalf of the | Company, s | tates that h | e is duly aut | | | | rt and that he ha | s knowl | edge of | |
| the facts s | stated th | erein | , and that sa | id report is true | e and correc | t. Executed | this the 12 | , | day of O | CTOBER | | , 2 | <u>15</u> . | |
| _ | | | | | | Recei | ved | Win | <u>, L</u> | Nalls | und _ | | | |
| | | | Witness (if | any) | KANSA | NS CURPORATI | ION COMMISSIO | N | | For C | ompany | | | |
| | | _ | For Commi | ssion | | 0CT 1 | 6 2015 [—] | | | Chec | cked by | | | |

CONSERVATION DIVISION WICHITA, KS

| • | Ity of perjury under the laws of the state of Kansas that I am authorized to request K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LLC |
|-----------------------------|--|
| | essure information and statements contained on this application form are true and |
| correct to the best of my k | nowledge and belief based upon available production summaries and lease records |
| • • | and/or upon type of completion or upon use being made of the gas well herein named. e-year exemption from open flow testing for the LIEBL 2 |
| gas well on the grounds t | |
| (Check one) | |
| , === | albed methane producer |
| | ed on plunger lift due to water |
| is a so | urce of natural gas for injection into an oil reservoir undergoing ER |
| is on v | acuum at the present time; KCC approval Docket No. |
| is not | capable of producing at a daily rate in excess of 250 mcf/D |
| - | ply to the best of my ability any and all supporting documents deemed by Commission oborate this claim for exemption from testing. |
| Date: 10/12/15 | |
| | Signature: Wind Hallay Title: FIELD MGR. |
| | |

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.

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