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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | | | See Instruct | tions on Rev | verse Side | e) · ' | | • | | • | |
|--|--------------|---|---|--|---------------------------------------|---|--|--|--|--------------------------------|---------------------------------|---|--|
| Open Flow | | Test Date: | | | | API No. 15 | | | | | | | |
| √ Del | iverabilty | | | 12/04/1 | | | | | 75-20750- | 00-00 | | | |
| Company Linn Ope | | ıc | | | | Lease HCU | | . , . | | 111 | Well N | umber | |
| County Location Hamilton SE NW NW | | | Section 11 | | TWP 21S | | RNG (E/W) 41W | | Acres A 640 | | Attributed | | |
| Field Bradshaw | | | | Reservoir Winfield | | | | Gas Gathering Connection Oneok Field Services | | | | | |
| Completion Date 7/18/01 | | | | Plug Back Total Depth 2879' | | | | Packer Set at | | | | | |
| Casing Size Weight 4.5 10.5 | | | Internal [4.052" | Diameter | | Set at Perforations 2925' 2751' | | | то 2770' | | | | |
| Tubing Size Weight 2 3/8 4.7 | | | | Internal [1.995 | | Set at 2783' | | Perfora | То | То | | | |
| Type Com Single C | | Describe) | • | Type Flui Gas - \ | d Production Water | n | | Pump Uni Pump | t or Traveling | g Plunger? Y | es / No Yes | | |
| Producing | Thru (Ar | nnulus / Tubir | ng) | | Carbon Dioxi | de | · | % Nitroge | 'n | Gas | Gravity - | $\overline{G_{\mathfrak{g}}}$ | |
| Annulus | | | • | | | | <u> </u> | | | .77 | | | |
| Vertical Depth(H)Pressure Taps(Meter Run) (Prover) Size2761'Flange2.068" | | | | | | | | | | | Prover) Size | | |
| Pressure | Buildup: | Shut in 12 | /03 2 | 0_13_at_1 | 1:00 AM | (AM) (PM) | Taken 12 | 2/04 | 20 | 13 at 11:0 | 00 AM | (AM) (PM) | |
| Well on Li | ne: | Started | 2 | 0 at | | (AM) (PM) | Taken | | 20 | at | | (AM) (PM) | |
| | | • • | | • • | OBSERVE | D SURFACE | E DATA | · · · · · · | | Duration of S | hut-in 24 | Hours | |
| Static / Dynamic Property | Dynamic Size | | Circle one: Meter Prover Pressure psig (Pm) Pressure Differential in Inches H ₂ 0 | | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | | Liquid Produced (Barrels) | |
| Shut-In | | | | | | 35 | 49.4 | Pump | | 24 | | | |
| . Flow | • | | | | , , | | | | | | | | |
| | · · | | | · · · · · · | FLOW STR | EAM ATTRI | IBUTES | | | | , | , | |
| Plate Coefficient (F _b) (F _p) Mcfd | | Circle one: Meter or rover Pressure psia | Press Extension ✓ P _m x h | Gravity Factor F _g | | Temperature F | | viation Metered Flo actor R F _{pv} (Mcfd) | | GOR (Cubic Feet/ Barrel) | | Flowing Fluid Gravity G _m | |
| | | | | | | | | | | | | | |
| | , | | | (OPEN FL | OW) (DELIV | ERABILITY) |) CALCUL | ATIONS | • | | $(P_a)^2 = 0.3$ | 207 | |
| (P _c) ² = | : | (P _w) ² | | $P_d =$ | | % (P | P _c - 14.4) + | 14.4 = | | | P _d) ² = | | |
| (P _c) ² -(P _a) ² or (P _c) ² -(P _d) ² | | (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ² | | LOG of formula 1. or 2. and divide P2-P2 | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | n x LOG | | Antilog | . De | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | Lquai | | |
| | | 4 | | | • | | · | | | | | | |
| | | • | | | | | | | | | | | |
| Open Flov | v . | | Mcfd @ 14. | 65 psia | | Deliverab | ility | | • | Mcfd @ 14.65 | psia | <u>.</u> | |
| The u | ındersigne | ed authority, o | on behalf of the | Company, s | states that h | <u>.</u> | | | | ort and that he | | | |
| the facts st | ated there | ein, and that s | said report is true | and correc | t. Executed | this the 5t | h | day of De | cember | | · , | 20 13 | |
| | , | | | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | · _ | Ŋ | haus | -H | iedre | MKI | CC WICH | |
| | , | Witness | (if any) | | | | | | For | Company | | | |
| | | For Com | mission | , | : | • \ | | | - Che | cked by | | EC 13 201 | |

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| | |
| | 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 Linn Operating, Inc. |
| | and that the foregoing pressure information and statements contained on this application form are true and |
| | orrect to the best of my knowledge and belief based upon available production summaries and lease records |
| 0 | f 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 HCU 1111 C |
| g | as well 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 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 |
| S | taff as necessary to corroborate this claim for exemption from testing. |
| | |
| Г | Date: 12/5/13 |
| | |
| | |
| | |
| , | |
| | Signature: Man Fredreck |
| | Title: Regulatory Compliance Advisor |
| | |
| | |
| | |

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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