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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: | en Flov | v | | | (| See Instruct | ions on Re | everse Side | e) | | | | | | |
|--|---|----------|--|--|------------------------------------|-------------------------------|--|--|------------------------------------|---|----------------|--|---|--|--|
| ✓ Deliverabilty | | | | | | Test Date: 12/04/13 | | | | ÁPI No. 15 15-075-20227-00-00 | | | | | |
| Company Linn Ope | | Inc | ; | | | | Lease HCU | | | | | 0621 B | Vell Number | | |
| County Hamilton | | <u> </u> | Locati C SE N | | Section 6 | | TWP 22S | | RNG (E/W) 41W | | | Acres Attributed 640 | | | |
| Field Bradshav | N | | 1 | | Reservoi Winfield | | | | | as Gathering Connection Oneok Field Services | | | | | |
| Completio 6/13/79 | n Date | 9 | | | Plug Bac 2819' | k Total Dept | h . | Packer Set at | | et at | · | | | | |
| Casing Sit | ze | | Weigh 9.5 | nt | Internal D 4.090" | | iameter Set at 2849' | | Perforations 2764' | | | то 2770' | | | |
| 2 3/8 | | | | nt | Internal Diameter 1.995 | | Set at 2760' | | Perforations | | | То | | | |
| Single G | Type Completion (Describe) Single Gas | | | | Gas - \ | | | | Pump Unit or Traveling Plunge Pump | | | Yes | | | |
| Annulus | ; | | nulus / Tubin | g) | % (| Carbon Dioxid | | | % Nitroge | en | , | .772 | ıvity - G _g | | |
| Vertical D | | | | | | Flan | | | | | | 2.067 | | | |
| Pressure I | Buildup | | | 203 | | | | | | | | | , ,, , | | |
| Well on Li | ne: | | Started | 2 | 0 at | | (AM) (PM) | Taken | | 20 | at _ | | (AM) (PM) | | |
| | | | | | | OBSERVE | D SURFAC | E DATA | | | Duration | of Shut-i | n 24 Hours | | |
| Static / Dynamic Property | Orifice Size (inches) | | Circle one: Meter Prover Pressi psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Wellhea | ubing ad Pressure (P ₁) or (P _c) psia | Dura 、 (Ho | ition | Liquid Produced (Barrels) | | |
| Shut-In | | | | | | | 30 | 44.4 | Pump | | 24 | | | | |
| Flow | | | | | | | | | | | | | | | |
| | | | | T | | FLOW STR | EAM ATTR | RIBUTES | | | | | | | |
| | Coeffiecient (F _b) (F _p) | | Circle one: Meter or over Pressure psia | Press Extension P _m x h | Grav Fac | tor Temperature | | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | | GOR (Cubic Fee Barrel) | Flowing Fluid Gravity G _m | | |
| | | | | | | | | | | | | | | | |
| (P _c) ² = | • | _: | (P _w) ² = | · •: | (OPEN FL | OW) (DELIV | - | /) CALCUL P _c - 14.4) + | | : | | (P _a) ² (P _d) ² | = 0.207 | | |
| (P _c) ² - (P or (P _c) ² - (P | Ĭ | (F | °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 | LOG of formula 1. or 2. and divide | | Sto As | essure Curve ppe = "n" or ssigned dard Slope | n x I | og | Anti | log | Open Flow Deliverability Equals R x Antilog (Mcfd) | | |
| | | | | | | | | | | | | | | | |
| Open Flov | v | | <u>.</u> | Mcfd @ 14 | 65 psia | • | Deliverat | bility | | | Mcfd @ | 4.65 psia | i | | |
| The u | ndersi | gned | d authority, o | n behalf of the | Company, s | states that he | e is duly a | uthorized t | o make th | e above repo | rt and th | at he has | s knowledge of | | |
| | | | | aid report is tru | | | | | day of _De | | | | , 20 13 | | |
| | | | Witness (| if any) | | · . | - | D | han | For C | UNC Company | Wir | TKCC WIC | | |
| | | | For Comm | nission | | | | | | Chec | cked by | | DEC 13 2 | | |

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to reque 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 correct to the best of my knowledge and belief based upon available production summaries and lease record of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. | — nd ds |
|--|---------------|
| I hereby request a one-year exemption from open flow testing for the HCU 0621B gas well on the grounds that said well: | |
| 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 Commis staff as necessary to corroborate this claim for exemption from testing. | sion |
| Date: 12/5/13 | |
| | |
| Signature: Maun Huwun 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.

KCC WICHITA

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