KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes | it: | | | | | (See Instru | ctions on Re | everse Sid | e) | | | | |
|----------------------------------------------------------------------------------|-------------|----------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------|---------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------|---------------------|-------------------------------------------------------------|--|
| Open Flow Deliverabilty | | | | | Test Date: | | | | API No. 15 15-02521067 | | | | |
| Compan Hartman | | omp | any | | | | Lease Tuttle | · · · · · · | | | | Well Number | |
| County Clark | | | Locati SE/4 | on | Section 08 | | TWP 35S | | RNG (E/W) 21W | | | Acres Attributed | |
| Field Harper I | Ranch | | | | Reservoi | - | | *** | Gas Gat | hering Conn idstream | | | |
| Completi 3-16-91 | on Date | 9 | | | Plug Bad | k Total Dep | oth | | Packer S NONE | | | 102/11/2004 | |
| Casing Size 4 1/2" | | | Weigh 10.5# | | Internal Diameter 4.052" | | Set at 5799' | | Perforations 5624' | | To 5647' | | |
| Tubing Size 2 3/8" | | | Weight 4.7# | | Internal Diameter 1.995" | | Set at 5621' | | Perforations NA | | То | | |
| Type Cor | | | scribe) | *************************************** | | id Production | | | Pump Ur | it or Traveling | Plunger? Yes | / No | |
| Single Zone -Morrow Producing Thru (Annulus / Tubing) Annulus | | |) | | | | | % Nitrogen 00.0 | | Gas Gravity - G _o | | | |
| Vertical E | |) | | | | Pres | ssure Taps | · | 00.0 | | | Run) (Prover) Size | |
| Pressure | Buildup |): S | Shut in 4-3 | 2 | 0_10_at_9 | :00 | . (AM) (PM) | Taken_4- | 4 | 20 | 10 at 9:00 | (AM) (PM) | |
| Well on L | ine: | s | started | | | | | | | | at | | |
| | | | | | | OBSERVE | ED SURFAC | E DATA | | | Duration of Shut- | inHour | |
| Static / Dynamic Property | ynamic Size | | Circle one: Meter Prover Pressu psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Wellhead | (P _c) | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) | |
| Shut-In | | | | 2 | | | 50# | psia | psig | psia | | | |
| Flow | | | | | | | | | | | | | |
| | —т | | | | | FLOW ST | REAM ATTR | IBUTES | | | | | |
| Plate Coeffiect (F _b) (F Mcfd | ient | Circle one: Meter or Prover Pressure psia | | Press Extension ✓ P _m xh | Gravity Factor F _g | | Temperature F | | viation Metered Flow actor R F _{pv} (Mcfd) | | (Cubic Fe | Flowing Fluid Gravity G _m | |
| | | | | | (OPEN FL | OW) (DELIV | /ERABILITY |) CALCUL | ATIONS | | (0.1) | | |
| (P _c) ² = | | : | (P _w) ² = | : | • | , , | | , - 14.4) + | | : | (P _a); | = 0.207 = | |
| (P _e) ² - (F or (P _e) ² - (F | 2)2 | |)²- (P _w)² | 1. P _c ² - P _d ² 2. P _c ² - P _d ² iivided by: P _c ² - P _w ² | LOG of formula 1. or 2. and divide | P _c ² -P _w ² | Backpre Sloj | ssure Curve pe = "n" orsigned ard Slope | | og [| Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | | | |
| Open Flov | <u> </u> | / | | Mcfd @ 14.6 | 65 psia | | Deliverab | ility | | | Mcfd @ 14.65 psi | a | |
| | | | • | behalf of the | | | | iot | make the | october | rt and that he ha | s knowledge of, 20 | |
| | | | Witness (if | any) | | | - | ٠٨. | NVY - 1 | For C | ompany | | |
| | | | For Commi | ssion | | | - | | | Chec | ked by | RECEIV | |

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| exempt and that correct to fequip | clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Harrow Old Co. Onc. the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named. |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | reby request a one-year exemption from open flow testing for the Tuble, 2-8 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 |
| | ther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing. |
| ate:1 | 0/11/10 |
| | |
| | Signature: A.T. Wuthub Title: V.P. Fuld Quertions |
| | |
| | |

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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