KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | (| See Instruct | ions on Reve | erse Side |) | | | | |
|--|--------------------------------|--|--|--|--------------|---|--|---|-----------------------------|---|---|--|
| Op | en Flow | | | Test Date | . | | | ΔĐI | No. 15 | | | |
| De | eliverabilty | | | 10/12/2 | | | | | 007-22898 | -0000 | | |
| Company Norstar Petroleum Inc. | | | | Lease Vanderwork | | | vork | Well Number 2-7 | | | | |
| County Location Barber C S2 NW | | | | Section 7 | | TWP 32S | | | W) | | Acres Attributed | |
| Field Medicine River | | | | Reservoir Mississippi | | | | Gas Gathering Connection West Wichita Gas Gathering | | | | |
| Completion Date 6/7/05 | | | | Plug Back Total Depth 4338 | | | | Packer S None | et at | | 0 | |
| Casing S 5.5 | Casing Size Weight 5.5 15.5 | | | Internal Diameter 5.0 | | Set at 4392 | | Perforations 4254 | | то 4280 | | |
| Tubing S 2.375 | Tubing Size Weight 2.375 4.7 | | | Internal Diameter 1.995 | | Set at Pe | | Perfo | rations | То | | |
| Type Completion (Describe) Casing | | | | Type Fluid Production Oil and Water | | | | Pump Unit or Traveling Plunger? Yes / No Pumping | | | | |
| Producing Casing | g Thru (Ar | nnulus / Tubing) | | % C | arbon Dioxi | de | m/on-viva/nininimi | % Nitrog | en | Gas Gra | avity - G _g | |
| Vertical C | Depth(H) | | | ······································ | Pres | sure Taps | | | Lav | (Meter F | Run) (Prover) Size | |
| | Buildup: | Shut in Octo | | | • | | | | | 15 at 10:15 | (AM)(PM) | |
| Well on L | ine: | Started | 2 | :0 at | | (AM) (PM) | aken | | 20 | at | | |
| [| | Circle one: | Pressure | | | D SURFACE Casin | | l - | ubing | Duration of Shut- | n_24Hour | |
| Static / Dynamic Property | nic Size <i>Meter</i> Differen | | Differential in Inches H ₂ 0 | remperature Temperature | | Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Duration Liquid Produced (Hours CCC WCHIT | | |
| Shut-In | | | | | | ,,, | ¢ = | 15 | 29.7 | NOV | | |
| Flow | | | | | | | | | | R | CEIVED | |
| | - 1 - | | | 1 | FLOW STR | EAM ATTRI | BUTES | 1 | · | | | |
| Plate Coefficient (F _b) (F _p) Mcfd | | Citcle one: Mater or Over Pressure psia Press Extension P _m X h | | Gravity T Factor T | | Flowing Temperature Factor F ₁₁ | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | (Cubic Fer Barrel) | Flowing Fluid Gravity G _m | |
| | | | | | | | <u> </u> | | | | | |
| (P _c) ² = | | (P _w) ² =_ | : | (OPEN FL | | ERABILITY) % (P | CALCUL - 14.4) + | | : | (P _a)² (P _d)² | = 0.207 | |
| (P _c) ² - (I or (P _c) ² - (I | | (P _c) ² - (P _w) ² | thoose farmula 1 or 2 1, $P_c^2 - P_a^2$ 2, $P_c^2 - P_a^2$ Wided by: $P_c^2 - P_a$ | se formula 1 of 2: , P _c ² - P _o ² LOG of formula , P _c ² - P _d ² 1. or 2, and divide | | Backpressure Curve Slope = "n" | | | -oe | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Open Flow Mcfd @ 1 | | | | .65 psia | | Deliverabil | Deliverability | | | Mcfd @ 14.65 psia | | |
| | | ed authority, on ein, and that sai | | | | | | day of O | | rt and that he ha | s knowledge of, 20 <u>15</u> | |
| | | Witness (if | | | | i a Managan | B | rad | 1,6 | ei Her | | |
| | | For Commis | sion | | | | | | Chec | ked by | | |

| I declare under penalty of perjury under the laws of the state of Kansas that | · | | | | |
|---|-------------------------------|--|--|--|--|
| exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Norstar Petrol | eum Inc. | | | | |
| and that the foregoing pressure information and statements contained on this a | | | | | |
| correct to the best of my knowledge and belief based upon available production su | ummaries and lease records | | | | |
| of equipment installation and/or upon type of completion or upon use being made o | of the gas well herein named. | | | | |
| I hereby request a one-year exemption from open flow testing for the Vander | work 2-7 | | | | |
| gas 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 mc | ₩. | | | | |
| I further agree to supply to the best of my ability any and all supporting docur | ments deemed by Commission | | | | |
| staff as necessary to corroborate this claim for exemption from testing. | • | | | | |
| . | KCC WICH! | | | | |
| 0 00 0045 | NOV 0 9 2015 | | | | |
| Date: October 22, 2015 | RECEIVED | | | | |
| | 4 years (A (2) F | | | | |
| | | | | | |
| | - 01 | | | | |
| Signature: | | | | | |
| | | | | | |
| Title: Engineer | | | | | |
| | | | | | |

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.