KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | E FOINT S | | | tions on Re | | | • | i iESi | |
|--|---|---|--------------------------------------|-------------------------------------|--|--|---|---|------------------------------|--|--|
| = : | en Flow Iiverabilt | | | Test Date | e: · | | | | I No. 15 -023-20759-0 | 0-00 | |
| Company Noble E | | · | | | | Lease Rueb | Farm | 10- | -020-201 33-0 | | Vell Number |
| County Cheyen | | | ation F | Section 15 | | TWP 3S | | RNG (E | /W) | , | Acres Attributed |
| Field | | | | Reservoi | | | | Gas Ga | thering Conne | | |
| Completic | n Date | liobrara Gas | Area | - | k Total Dep | th | | Packer | reek via Arme Set at | | |
| 10/1/200 Casing Si | ze | Wei | | 1650' Internal [| | Set | | n/a Perfo | orations | То | TATAWAR HIT |
| 7", 4-1/2 Tubing Si | | 17# Weig | , 9.5# ght | 9-1/4", 6-1/4" Internal Diameter | | | 300', 1696' Set at | | orations | 1552' то | |
| n/a | | (Describe) | | | d Productio | | | | nit or Traveling | | / No |
| Single (| Gas) | | | Saltwa | iter | | | No | | | |
| Producing Annulus | roducing Thru (Annulus / Tubing) .nnulus | | | % C | ide | % Nitrogen | | gen | Gas Gravity - G _g | | |
| Vertical D | | | | | Pres | sure Taps | | | | (Meter F | Run) (Prover) Size |
| Pressure | Ruildun: | Shut in _2/ | 24/ | 0_10_at_1 | 1:15 | (AM) (PM) | Takan | - | 20 | at | (AM) (PM) |
| Well on Li | • | Started 2/ | 25/ ₂ | 0 10 at 1 | | (AM) (PM) | | | | at | , ,, , |
| | ,,, | | | | 0000000 | | | | | | 26 |
| Static / | Orifice | Circle one | 1 1000010 | Flowing | Well Head | D SURFAC | sing | 1 | Tubing | Ouration of Shut-i | nnours |
| Dynamic Property | Size (inches | Prover Pressure in | | Temperature t | | Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Wellhead Pressure (P_w) or (P_t) or (P_c) | | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | | psig (Pili | n) Inches H ₂ 0 | | | psig 182 | psia | psig | psia | | |
| Flow | | | | | | | | | | · · · · · · | |
| | | 1 | | | FLOW STE | REAM ATTR | IBUTES | | | | |
| Plate Coeffiecie (F _b) (F _p Mcfd | | Circle one: Meter or Prover Pressure psia Press Extension ✓ P _m x h | | Gravity Factor F _g | | Flowing Temperature Factor F _{ft} | Fa | viation actor = pv | Metered Flow R (Mcfd) | GOR (Cubic Fee Barrel) | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | |
| P _c) ² = | | : (P _w) ² | | (OPEN FLO | | ERABILITY |) CALCUL P _c - 14.4) + | | | (P _a)² (P _d)² | = 0.207 |
| (P _c) ² - (P | 12 | (P _c) ² - (P _w) ² | Choose formula 1 or 2. | | | Backpre | ssure Curve | | | (' _d / | Open Flow |
| (P _c) ² - (P | | ('c) - ('w) | 2. $P_c^2 - P_d^2$ | formula 1. or 2. and divide | P _c ² -P _w ² | As | pe = "n" - or signed ard Slope | n x | LOG | Antilog | Deliverability Equals R x Antilog (Mcfd) |
| | | | | | ··· | - | | | | | |
| Onon Fire | | | Mataloga | RE nois | | Dation | .::: | | | | |
| Open Flow | | and outhority | Mcfd @ 14. | | totas that h | Deliverab | | | | icfd @ 14.65 psia | |
| | | | on benair of the said report is true | | | | | | ne above report pril | and that he has | s knowledge of |
| | | wire that | ame i pport to tide | 3 5511661 | | | <u>()</u> | ـــــــــــــــــــــــــــــــــــــ | le R | annot | RECEIVED SAS CORPORATION (|
| | | Witness | (if any) | | | | 1 | | For Co | | |
| | | For Com | mission | | | | | | Check | ed by | MAY 0 5 2 |

| | are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. |
|-------------|---|
| and that tl | ne foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records |
| of equipm | ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Rueb Farm 43-15 |
| | n 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 |
| | er agree to supply to the best of my ability any and all supporting documents deemed by Commissio cessary to corroborate this claim for exemption from testing. |
| | cessary to corroborate this claim for exemption from testing. |

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.