KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| = : | : en Flow liverabilty | , | | Test Date | See Instructi | ons on Re | verse Side | AF | Pl No. 15 -023-20548-0 | 00-00 | | |
|--|-----------------------------|---|---|------------------------------------|---|--|--|--|-----------------------------|-------------------------------|---|--|
| Company Noble Er | | nc | | | | Lease Zweyga | ardt | 10 | -020-20040-0 | | Well Number | |
| County Location Cheyenne SENW | | | Section 5 | | TWP 4S | | RNG (E/W) 41W | | | Acres Attributed | | |
| Field Cherry Creek | | | Reservoir | | , | | Gas Ga | athering Conne ern Star/Kind | | | | |
| Completion Date 5/23/04 | | | | Plug Bac | k Total Dept | h | | Packer | | | | |
| Casing Size Weight 7", 4-1/2" 17#, 10.5# | | | Internal C 9-7/8", | | Set at 259', 1555' | | Perforations 1383' | | то 1419' | | | |
| | bing Size Weight 4.7# | | Internal Diameter 1.995 | | Set at 1376' | | Perforations | | То | То | | |
| Type Completion (Describe) Single (gas) | | | Type Flui saltwat | d Production ter | l | | Pump Unit or Traveling Playes Rod Pu | | Plunger? (Yes | À NO | | |
| Producing Thru (Annulus / Tubing) tubing | | | | % C | % Carbon Dioxide | | | % Nitrogen Gas Gravity - G | | | | |
| Vertical D | epth(H) | | | | Press | sure Taps | | | | (Meter I | Run) (Prover) Size | |
| Pressure | Buildup: | Shut in 3/2 | 1 2 | 0_13_at_2 | :00 | (AM) (PM) | Taken | | 20 | at | (AM) (PM) | |
| Well on L | ine: | Started 3/2 | 2 2 | 0 13 at 3 | :30 | (AM) (PM) | Taken | | 20 | at | (AM) (PM) | |
| | | | | | OBSERVE | | | · | | Duration of Shut- | 25.5 Hours | |
| Static / Dynamic Property | Orifice Size (inches | ize Prover Pressure | | Flowing Temperature t | Well Head Temperature t | Casing Welthead Pressure (P _w) or (P _t) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P _i) or (P _o) | | Duration (Hours) | Liquid Produced (Barrels) | |
| Shut-In | | · · | Inches H ₂ 0 | | | psig 89 | psia | psig | psia | | | |
| Flow | - | | | | | | | | | | | |
| | ····- | | | | FLOW STR | EAM ATTE | RIBUTES | | 1 | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | feter or Extension | | Gravity Factor F | | Fa | viation actor F _{pv} | Metered Flow R (Mcfd) | w GOR (Cubic Fe Barrel) | Gravity | |
| | | | 1 | (OBEN EL | OW) (DELIV | EDADII ITV | A) CALCIII | ATIONS | | | | |
| (P _c) ² = | | : (P _w) ² = | ·: | P _d = | , , | | P _c - 14.4) - | | | (P _a) | ² = 0.207 ² = | |
| (P _c) ² - (F or (P _c) ² - (F | - 1 | (P _c) ² - (P _w) ² | Choose formula 1 or 2 1, P _c ² - P _s ² 2, P _c ² - P _d ² divided by: P _c ² - P _w | LOG of formula 1. or 2. and divide | P _c ² - P _w ² | Sid | essure Curve ppe = "n" or ssigned dard Slope | n v | LOG | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | | |
| Open Flor | pen Flow Mcfd @ 1 | | Mcfd @ 14. | .65 psia | | Deliverability | | Mcfd (| | Mcfd @ 14.65 ps | @ 14.65 psia | |
| The (| undersigr | • | n behalf of the | Company, | | - | | | Ť | ort and that he ha | as knowledge of | |
| he facts s | tated the | rein, and that s | aid report is true | e and correc | t. Executed | this the 2 | 26 | day of _ | December | , | , 20 <u>13</u> . | |
| ۹ | | Witness (| if any) | | | | | | For | Company | KCC WICI | |
| , | | For Comm | nission | | | | | | Che | cked by | DEC 3 1 20 | |

| | under penalty of perjury under the laws of the state of Kansas that I am authorized to request | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|
| exempt statu | s under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, 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 records | | | | | | | |
| | 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 Zweygardt 22-5 | | | | | | | |
| gas well on t | ne grounds that said well: | | | | | | | |
| ,, | | | | | | | | |
| (C | theck 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 Commissic | | | | | | | |
| | ssary to corroborate this claim for exemption from testing. | | | | | | | |
| | , | | | | | | | |
| | | | | | | | | |
| Date: 12/26/ | <u> </u> | | | | | | | |
| | • | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Signature: L. L. | | | | | | | |
| | Signature: A M | | | | | | | |

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.