KCC WICHITA

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | | | | | C | See Instru | ucti | ons on Rev | erse Side |) | | | | | | |
|--|-------------------|---|---|---|---|---|--------------------------|-----------------------|--|------------------------------|--|------------------------|----------|------------------------------|---|--|--|
| = ' | en Flo liverab | | | | | Test Date | : | | | | | No. 15 | | | | | |
| <u> </u> | | inty | | | | | | | | | 15- | 023-2122 | 9-00- | 00 | | | |
| Noble E | | gy, I | nc. | | | | | | Lease Wiese | | | | | 33-5 | | Number | |
| County Location Cheyenne NW-SE-NW-SE | | | | | Section 5 | | | | TWP 4S | | RNG (E/W) 41W | | | Acres Attributed | | | |
| Field Cherry C | reek | Niot | orara Gas A | rea | 1 | Reservoir Niobrara | | | | | | hering Co Morgan vi | | ion erry Creek | Com | pressor | |
| Completic 9/20/201 | | Ð | | | | Plug Bad 1459' | k Total De | epth | n | • | Packer S | et at | | | , | | |
| Casing Size Weight 7", 4-1/2" 23#, 11.6# | | | | | Internal Diameter 9-7/8", 6-1/4" | | | Set at 178', 1502' | | Perforations 1295' | | | | RECEIV | | | |
| Tubing Size Weight n/a | | | | Internal Diameter | | | Set at | | Periorations | | | То | · | MAR 07 2 | | | |
| | | | | | Type Fluid Production Saltwater | | | | Perforations To TS 1295' 1356' Perforations To MAR PROPERTY OF TRANSPORT TO NO NO Gas Gravity - G | | | | | EC WC | | | |
| Producing | Thru | | nulus / Tubin | g) | <u> </u> | % C | arbon Dic | oxid | le | | % Nitrog | en | | Gas (| Gravity | , · G, | |
| Annulus Vertical D | | 4) | | | | | Pr | ASS | ure Taps | | | | | (Mate | r Bun' | (Prover) Size | |
| 701110127 | , apa iti | ' | | | | | • • | ••• | aro raps | | | | | (10000 | , | (1 10101) 0120 | |
| Pressure | Bulldu | | Shut In9/2 | | | | | _ | (AM) (PM) | Taken | | | 20 | _ at | | (AM) (PM) | |
| Well on L | lne: | | Started 9/2 | 9/ | 20 | 10 at 1 | 0:50 | (| (AM) (PM) | Taken | | | 20 _ | _ at | | (AM) (PM) | |
| | | | | | | | OBSER | VE | D SURFACE | DATA | | | Di | uration of Shi | ut-in _ | 115 Hours | |
| Static / Dynamic Property | Size | | Circle one. Mater Prover Pressure | | Pressure Differential in | Flowing Temperature t | Well Head Temperature | | Casing Wellhead Pressure $(P_w) = (P_1) = (P_2)$ | | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) | | | Ouration (Houre) | | Liquid Produced (Barrels) | |
| Shut-In | | | paig (Pm) | \dashv | Inches H _s 0 | | | | ^{p±lq} 268 | psia | paig | pale | _ | | + | | |
| Flow | | | | | | | | | | | | | | | + | | |
| <u> </u> | | | | | | | FLOW S | TR | EAM ATTRI | BUTES | | | | | | | |
| Plate Coeffiec (F _k) (F Mctd | lent ,) | Gircle one: Meter or Prover Pressure psie | | | Press Extension P_xh | Gravity Factor F _g | | Ti | Flowing Temperature Factor Fit | | viation Metered Flow actor R F _{pv} (Mctd) | | | GOR (Cubic Fee Barrol) | | Flowing Fluid Gravity G _a | |
| | | | | | | | | | | | | | | | | | |
| (P _e) ² = | | : | (P_)² · | | : | (OPEN FL | OW) (DEL | JVI. | ERABILITY) | - CALCUL - 14.4) + | | | | | ,"); = " ."); = | 0.207 | |
| (P _a) ² - (P _a) ² or (P _a) ² - (P _a) ² | | (P _s) ² - (P _w) ² | | 1. P. P. P. 2. 2. P. 2. | | LOG of formuts 1, or 2, and divide | p p |] | Backpressure Curve Slope = "n" | | n x LOG | | | Antilog | | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | divid | led by: Par Pul | by: | <u> </u> | <u>.</u> | Standa | ard Slope | | | · | | \pm | () | |
| O | | | | | A 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 | 05 mala | | | Dallinanahi | 1014 | | | | | | | |
| Open Flo | | | al accept - ** | | McId @ 14. | | | | Deliverabi | Y . | | | | ofd @ 14.65 | | | |
| | | • | d authority, o | | | , • | | | | | _ | ne above re October | sport | and that he | has ki | _ , 20 <u>10</u> . | |
| | | | Winess | (if an | y) | | | - | _ | | win | kr. | Scr Corn | many L | 廿 | - RECFINE | |
| | _ | | | | | | | _ | _ | <u> </u> | | 1 | Colo | | | [[| |
| | | | For Com | 11284 | ж | | | | | | | 1 | Checke | u uy | | OCT 1 4 20 | |

| | nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy, Inc. |
|------------------|---|
| | regoing pressure information and statements contained on this application form are true and |
| | est of my knowledge and belief based upon available production summarles and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named. |
| | quest a one-year exemption from open flow testing for the Wiese 33-5B |
| | grounds that said well: |
| (0) | |
| (Chi | ock one) sa coalbed methane producer |
| <u>.</u> Г | is cycled on plunger lift due to water |
| ן | Is a source of natural gas for injection into an oil reservoir undergoing ER |
| ŗ | is on vacuum at the present time; KCC approval Docket No |
| ا | is not capable of producing at a daily rate in excess of 250 mcf/D |
| l frombon on | was to supply to the boot of my shifth, only and all supporting decompate decomposity Commission |
| | ree to supply to the best of my ability any and all supporting documents deemed by Commissio |
| Stati as fiecess | ary to corroborate this claim for exemption from testing. |
| Date: 10/8/10 | |
| Date: Tolol To | |
| | |
| | |
| | Signature: Jennife Ramit |

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.