KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | | | | (| See Instruct | ions on Rev | erse Side |)) | | | | |
|--|----------|---|---|--|-----------------------------|----------------------------------|--|----------------------------------|--|---------------------------|--------------------------------|--------------------------------------|--|
| Open Flow Deliverabilty | | | | | Test Date |) : | | API No. 15 15-023-20772-00-00 | | | | | |
| Company Noble Energy Inc | | | | | Lease Rueb Farm | | | | | | Well Number 41-16 | | |
| County Location Cheyenne NENE | | | | n | Section 16 | | TWP 3S | | RNG (E/W) 42W | | , | Acres Attributed | |
| Field Cherry Creek | | | | Reservoi Niobrara | | | Gas Gathering Conr Kinder Morgan | | | ection | DEC U 5 20 To KCC WICHIN | | |
| Completion Date 8/27/2007 | | | | | Plug Bac 1706' | k Total Dept | h | Packe | | acker Set at | | UEC 05 20 | |
| Casing Size 7", 4-1/2" | | | Weight 17#, 9. | .5# | Internal (9-7/8", | | Set at 301', 1746' | | Perforations 1530' | | то 1564' | TO KCC WI | |
| Tubing Size Weight 2-3/8" 4.7# | | | | | Internal (1.995 | Diameter | Set at | | Perforations | | То | | |
| Type Completion (Describe) Single (gas) | | | | Type Fluid Production Saltwater | | | Pump Unit or Traveling Plunger? Yes / No Yes | | | | | | |
| Producing Tubing | Thru | (Anr | nulus / Tubing) | | % Carbon Dioxide | | | | % Nitrogen Gas Gravity - G _Q | | | | i _o |
| Vertical D | epth(H | l) | | | | Pres | sure Taps | | | | (Meter F | Run) (Pr | over) Size |
| Pressure Well on Li | | - | Shut in 1/25 Started 1/26 | | | 12 at 12:40 (| | | | 20 ; | | | |
| | | | ······································ | ······································ | | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | _{in} 26. | 75 Hours |
| Static / Dynamic Property | nic Size | | Circle one Meter Prover Pressure psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Duration (Hours) | Liquid | d Produced Barrels) |
| Shut-In | | | F-13 (/ | , manas 1 120 | | | psig 90 | psia | psig | psia | | | |
| Flow | | | | | | | | | | | | | |
| | | | | | · | FLOW STR | EAM ATTRI | BUTE\$ | | | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | Press Extension ✓ P _m x h | Gra Fac F | tor | Temperature | | viation Metered Flow actor R F _{pv} (Mcfd) | | GOR (Cubic Feet/ Barrel) | | Flowing Fluid Gravity G _m |
| | | | | | (ODEN 51 | 040 (05) 0 | | | 4710010 | | | | |
| P _c) ² = | | _ : | (P _w) ² =_ | : | P _d = | , , | ERABILITY) | | - 14.4 = | | | ² = 0.2 ² = | 07 |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P _c) ² - (P _w) ² | | 1. P ² -P ² LOG of formula 2. P ² -P ² and divide by: P ² -P ² by: | | P.2. P.2 | Backpressure Slope = "r | | n x LOG | | Antilog | Deli Equals | en Flow verability R x Antilog (Mcfd) |
| | | | Of | <i>чывы шу.</i> Т _С [−] Г _W | | <u> </u> | Startus | | | | | | |
| | | | | | | | | | | | | | |
| Open Flow Mcfd @ 14.65 psia | | | | | | Deliverability Mcfd @ 14.65 psia | | | | | | | |
| | | - | d authority, on | | | | • | | | ne above repo lovember | rt and that he ha | | ledge of ₂₀ <u>12</u> . |
| | | | Witness (if a | any) | | | | | | For C | ompany | | |
| | | | For Commis | sion | | | | | | Chec | ked by | | |
| | | | r or Commis | SIO(I | | | | | | Onec | med by | | |

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status 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 of equipment 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 Rueb Farm 41-16 gas well on the grounds that said well: (Check one) | | |
|--|--|--|
| of equipment 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 Rueb Farm 41-16 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 mct/D I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing. Date: 11/30/2012 | exempt status undo and that the foreg | er Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc |
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| staff as necessary to corroborate this claim for exemption from testing. Date: 11/30/2012 | | is on vacuum at the present time; KCC approval Docket No |
| L L L | | |
| Signature: | Date: _11/30/2012 | |
| | | Signature: |
| Title: Regulatory Analyst | | Title: Regulatory Analyst |

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.