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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| County Cheyenne Field Cherry Creek Completion Date | Inc Loc | | Test Date |) : | | | API | No. 15 | | | | | |
|---|---|-----------------------------|------------------------------------|-------------------------------------|-----------------------|---|---|--|--------------------------------|---|----------------------------------|--|--|
| Noble Energy County Cheyenne Field Cherry Creek Completion Date | Loc | | | | | | 15_ | 023-20869-0 | 0_00 | | | | |
| Cheyenne Field Cherry Creek Completion Date | | Company Ioble Energy Inc | | | | Lease Zweygardt | | | | Well Number 13-34 | | | |
| Cherry Creek Completion Date | County Location Cheyenne NW-NW | | | | TWP 3S | | | RNG (E/W) 41W | | Acres Attributed | | | |
| • | Field Cherry Creek | | | | Reservoir Niobrara | | | Gas Gathering Connection Southern Star/Kinder Morgan | | | | | |
| | Completion Date 2/6/2008 | | | Plug Back Total Depth 1489' | | | Packer Set at | | | | | | |
| Casing Size Weight 7", 4-1/2" 17#,10.5# | | | Internal 0 9-7/8", | | | Set at 214', 1530' | | rations 1' | то 1400' | | | | |
| ubing Size Weight 2-3/8" 4.7# | | Internal Diameter 1.995 | | | Set at 1426' | | rations | То | | | | | |
| Type Completion (Describe) Single (gas) | | | | Type Fluid Production Saltwater | | | Pump Unit or Traveling Plunger? Yes / No Yes | | | | | | |
| Producing Thru Fubing | (Annulus / Tut | ing) | % C | arbon Dio | xide | | % Nitrog | jen | Gas Gr | avity - (| à, | | |
| Vertical Depth(H | 1) | | | Pre | essure Taps | | | | (Meter | Run) (P | rover) Size | | |
| Pressure Buildu | p: Shut in 1 | /9 | 20_13_at_1 | :00 | (AM) (PM) | Taken | | | at | (| (AM) (PM) | | |
| Well on Line: | /ell on Line: Started 1/10 20 | | 20 <u>13</u> at <u>9</u> | 13 at 9:00 | | Taken | 20 | | at (AM) (PM) | | AM) (PM) | | |
| | | | | OBSERV | ED SURFACE | DATA | ••• | | Duration of Shut- | in_44 | Hours | | |
| Static / Orific Dynamic Size Property (inches | e Prover Pre | Differential in | Flowing Temperature t | Well Head Temperature t | Wellhead if | (P _w) or (P ₁) or (P _c) | | Tubing ead Pressure r (P _t) or (P _c) | Duration (Hours) | | Liquid Produced (Barrels) | | |
| Shut-In | | | | | psig 101 | psia | psig | psia | | | | | |
| Flow | | | | | | | <u></u> | | | | | | |
| | | | ··· | FLOW ST | REAM ATTRI | BUTES | | | - | | | | |
| Plate Coefficeient (F _b) (F _p) Mcfd | Circle one: Meter or Prover Pressure psia Press Extension P _m x h | | Fac | Gravity Factor F _g | | Flowing Temperature Factor F ₁₁ Fermion peviate Factor F _{pv} | | Metered Flow R (Mcfd) | GOR (Cubic Feet/ Barrel) | | Flowing Fluid Gravity G | | |
| l | | | (OPEN FL | OW) (DEL | IVERABILITY) | CALCUI | ATIONS | | | | | | |
| P _c) ² = | _: (P _w) | ² = ; | P _a = | | | | - 14.4 = | · | (P _a) | 2 = 0.2 2 = | 07 | | |
| $(P_e)^{2-}(P_a)^2$ or $(P_e)^{2-}(P_d)^2$ | $ (P_c)^2 - (P_w)^2 $ Choose formula 1 or 2: $ 1. P_c^2 - P_a^2 $ $ 2. P_c^2 - P_d^2 $ $ divided by: P_c^2 - P_w^2 $ | | LOG of formula 1. or 2. and divide | formula 1. or 2. and divide p2.p2 | | Backpressure Curve Slope = "n"or Assigned Standard Slope | | rog | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | | | |
| | | | | | | | | | | | | | |
| Open Flow | Flow Mcfd @ 14.65 psia | | | Deliverability | | <u></u> | Mcfd @ 14.65 psia | | | | | | |
| The undersi | igned authority, | on behalf of the | Company, s | states that | he is duly au | thorized t | o make th | ne above repo | rt and that he ha | ıs know | ledge of | | |
| e facts stated th | herein, and tha | t said report is tru | e and correc | t. Execute | ed this the 18 | 3 | day of D | ecember | | | 20 13 . | | |
| | Witne | ss (if any) | | | | | | For C | ompany | КС | c wic i | | |
| | For Co | mmission | | | - | | | Chec | ked by | חב | C 3 0 20 | | |

| exemp and the correct of equi | declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request of status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc. at the foregoing pressure information and statements contained on this application form are true and at to the best of my knowledge and belief based upon available production summaries and lease records ipment installation and/or upon type of completion or upon use being made of the gas well herein named. Thereby request a one-year exemption from open flow testing for the |
|--|---|
| | (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 mcf/D |
| staff a | urther agree to supply to the best of my ability any and all supporting documents deemed by Commission s necessary to corroborate this claim for exemption from testing. 12/18/2013 |
| | Signature: Kalmlu Mills 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.

KCC WICHITA

DEC 3 0 2013

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