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KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: | | | | 6 | See Instructi | ions on Revi | erse Side |) | | | | |
|---|-------------|--|---|--|---|--|---|---|--|----------------------|----------------------------------|---|
| Open | Flow | | | T4 D-1- | | | | A D1 | No. 45 | | | |
| ✓ Deliverabilty | | | | Test Date: 1/23/2013 | | | | | No. 15 -20953-00-(| 00 | | |
| Company Caerus WashCo LLC | | | | Lease McPHERSON | | | | | | Well Number 12-16 | | |
| County Location Chēyenne W2SWNW | | | Section 16 | | TWP 5S | | RNG (E/W) 40W | | Acres Attributed 160 | | Attributed | |
| Field Cherry Creek | | | | Reservoir Niobrara | | | | Gas Gathering Connection DRURY GATHERING | | | | |
| Completion Date 4/30/2008 | | | | Plug Back Total Depth 1551' | | | | Packer Set at N/A | | | | |
| Casing Size Weight 10.5# | | | Internal E 4" | Diameter | Set at 1582' | | Perforations 1434' | | To 14 | то 1446' | | |
| Tubing Size Weight 2:375" 4.75# | | | Internal Diameter Set at 2" 1453' | | | | Perforations | | | То | | |
| Type Comple N2 Fractu | | escribe) | | Type Flui Brine V | d Production Vater | 1 | | Pump Un Yes, P | it or Traveling U | Plunger? | Yes / No | |
| Producing Thru (Annulus / Tubing) Annulus | | | | % Carbon Dioxide | | | | % Nitrogen <1% | | | Gas Gravity - G _g | |
| Vertical Dep | oth(H) | | <u>.</u> | *170 | Press | sure Taps | | | | (Me | eter Run) (| Prover) Size |
| | uildup: | Shut:in-1/23 | 20 | 13_at_1 | 0:45AM | (AM) (PM) | 1 <u>/</u> | 24 | | 13 _{at} 12: | 15PM | |
| Well on Line | | Started | | | | | | | | | | . (AM) (PM) - |
| | | | | | OBSERVE | D SURFACE | DATA | | | Duration of S | Shut-in | Hours |
| Dynamic | ynamic Size | | Pressure* Differential in* Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Tubing Tubing Wellhead Pressure (P_w) or (P_1) or (P_c) psig psia | | Duration (Hours) | | uld Produced (Barrels) |
| Shut-In | | | | | i. | 105 | psia | psig_ | - psia | | | |
| Flow | | | 1 | | | | | | | | | |
| | | | | | FLOW STR | EAM ATTRI | BUTES | | ÷ | 1 | | |
| Plate Coeffiction (F _b) (F _p) Mcfd | | Circle one: Meter ör ver Pressure psia | Extension | | Factor F _g | | emperature Fa | | viation = -Metered Flow actor R F _{pv} (Mctd) | | GOR nic Feet/ arrel) | Flowing Fluid Gravity G _m |
| | - | | | | | | | | _ r - <u>t</u> | | | |
| | | • | | | OW) (DELIV | | | | | | $(P_a)^2 = 0$ | .207 |
| (P _c) ² = | : | (P_)2 = | | Pd= | | % (Р | 14.4) + | 14.4 = | : | | (P ₀) ² = | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | P _o) ² - (P _w) ² | oose formula 1 or 2: 1. P _c ² -P _e ² 2. P _c ² -P _d ² ided by: P _c ² -P _e ² | LOG of formula 1. or 2. and divide by: | P _c ² - P _w ² | Slop Ass | sure Curve e = "n" origned ird Slope | e n x .! | og [| Antilog | D | Open Flow eliverability uls R x Antilog (Mcfd) |
| | | | | | | | | | | | | |
| Open Flow | | | Mcfd @ 14.6 | L 55 psia | | Deliverabi | lity | <u> </u> | <u></u> | Mcfd @ 14.6 | - 5 psia | |
| The und | · | d authority, on l | behalf of the | Company, s | | e is duly au | thorized t | o make th | | | _ | wledge of |
| ne ravis sidi | ren mete | m, and that Salt | reportis irde | anu correc | . Executed | uno tile | | uay ui | 7 | 21 | • • • | , 20 <u></u> . |
| | | Witness (if a | ny) | | | _ | | 1 | lest | Company | KCC | WICH |
| | | For Commiss | ilon | | | _ | | • | Che | cked by | APR | 0 9 2014 |

| 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 Caerus WashCo LLC |
|--|
| 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 McPHERSON 12-16 |
| 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 mcf/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: 4/8/4 |
| Signature: |
| Title: Operations Engineer |
| |
| |
| tructions: -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. |

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