KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| ype Test: | | | (- | see instruct | tions on Rev | verse Side | ·) | | | | | |
|--|---|-------------------------|--|---------------|---|-------------------------------------|--|-----------------------------|-------------------------|--------------------------------|---|--|
| Open Flow Deliverabilt | ×24 kr5 | (,+x. | Test Date 11/6/12 |) : | | | API 15- | No. 15 033-21044 ~ | 00-00 | | | |
| Company American Warri | | KUIJA | 1170/12 | <u></u> | Lease Carthrae | 9 | | | #1-4 | Well N | umber | |
| County Location Comanche C-SE-SE | | | Section 4 | | | | RNG (E/ | | | Acres Attributed | | |
| Field Vagnon | | | Reservoir Mississi | | | | Gas Gat WPS | thering Conn | ection | | Pro | |
| Completion Date | | | Plug Bac 5257' | k Total Dep | th | | Packer Set at | | | | , rece | |
| Casing Size | | | | Diameter | Set at 5299' | | Perforations 5225' | | To 5230' | | PECE DEC 0 6 CC WIC | |
| ubing Size | Weight | | 5.950 Internal Diameter | | Set at 5257' | | Perforations | | To | | FCC WIC | |
| 23/8 4.70 Type Completion (Describe) Gas | | | | d Production | n · | | | | eling Plunger? Yes / No | | | |
| | Annulus / Tubing) | | | arbon Dioxi | | | % Nitrog | | Gas (| Gravity - | G, | |
| Annulus /ertical Depth(H) | | | | Pres | sure Taps | | | | (Mete | r Run) (F | Prover) Size | |
| Pressure Buildup | : Shut in 11/6 | 2 | 0_12 at_2 | :30PM | (AM) (PM) | Taken 1 | 1/7 | 20 | 12 at 2:30F | PM | (AM) (PM) | |
| Well on Line: | Started | 2 | 0 at | | (AM) (PM) | Taken | | 20 | at | | (AM) (PM) | |
| | | | . | OBSERVE | D SURFACI | E DATA | | | Duration of Shu | it-in24 | Hours | |
| Static / Orifice Dynamic Size Property (inches | Meter Differential | | Flowing Well Head Temperature t t | | (P _w) or (P _i) or (P _c) | | Tubing Wellhead Pressure (P _w) or (P _t) or (P _c) | | Ouration (Hours) | | Liquid Produced (Barrels) | |
| Shut-In | poig (i m) | monos ri ₂ o | | | 135 | psia | psig | psia | | | | |
| Flow | | | | | 35 | | | | | | | |
| *************************************** | | | | FLOW STE | REAM ATTR | IBUTES | | | | | | |
| Plate Coeffictient (F _b) (F _p) Mcfd | Coefficient Meter or Extended (F _b) (F _p) Prover Pressure | | Grav Fac F | tor | Flowing Temperature Factor F _{it} | | riation actor = pv | Metered Flow R (Mcfd) | (Cubic I | GOR (Cubic Feet/ Barrel) | | |
| | | | | | | | | | | | | |
| P _c) ² = | .: (P _w) ² =_ | : | (OPEN FL | , , | 'ERABILITY % (F |) CALCUL ² 。- 14.4) + | | <u></u> ; | | $(a)^2 = 0.2$ $(a)^2 =$ | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | Choose formula 1 or 2: (P _c) ² - (P _w) ² Or 2 P ₂ P ₂ 2 P ₂ P ₂ | | LOG of formula 1. or 2. and divide by: | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | n x | LOG | Antilog | De | pen Flow liverability s R x Antilog (Mcfd) | |
| | | | | | | | | | | | | |
| Open Flow | n Flow Mcfd @ 14.65 | | | 5 psia | | Deliverability | | Mcfd @ 14.65 psia | | | | |
| The undersig | ned authority, on | behalf of the | Company, | states that h | ne is duly au | | | | ort and that he | has know | vledge of | |
| ne facts stated the | erein, and that said | d report is true | e and correc | t. Executed | this the 29 | 9 | day of N | lovember | | | 20 12 . | |
| | | | | | | | | ~ | | | | |

KCC WICHITA

| | clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request |
|----------------|---|
| | status under Rule K.A.R. 82-3-304 on behalf of the operator American Warrior Inc. |
| | t the foregoing pressure information and statements contained on this application form are true and |
| | to the best of my knowledge and belief based upon available production summaries and lease records |
| | ment installation and/or upon type of completion or upon use being made of the gas well herein named. |
| | reby request a one-year exemption from open flow testing for the Carthrae #1-4 |
| gas wei | 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 |
| | |
| | ther 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: <u>1</u> | /29/12 |
| | |
| | |
| | |
| | |
| | |
| | Signature: |

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.