KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Jilly V

| Type Tes | t: | | | | (| See Instruct | lions on Revo | erse Side | e) | | | | | |
|---|----------------------|---|--|--|---|-----------------------|--|----------------------------|--|------------------------|-----------------------------|--|--|--|
| Open Flow | | | | Took Date | Took Date: | | | | | | | | | |
| De | liverat | oilty | | | Test Date 03/06/20 | | | • | | No. 15 3-20702-00-(| 01 | | | |
| Company Empire Energy E & P LLC | | | | | | Lease Bryant | | | | | 3 | Well Number | | |
| County Comanche | | | Location W/2 W/2 SE | | Section 32 | | TWP 33 | | RNG (E/W) 17W | | | Acres Attributed 160 | | |
| Field Beals | | | | | Reservoir FT. Scott, Pawnee, Altamont, Stottler A , | | | | hering Conn Energy E & | | | | | |
| Completion Date 1/22/1987 | | | | Plug Bac 5002 | Plug Back Total Depth 5002 | | | Packer S 4841 | Set at | | | | | |
| Casing S 4.5 | Casing Size 4.5 | | Weight 10.5 | | Internal D 4.052 | Diameter | Set at 5213 | | Perforations 3340 | | то 4954 | | | |
| Tubing St | Tubing Size 2.375 | | Weigh 4.7 | t | Internal D 1.995 | | Diameter Set at 4841 | | Perforations None | | To None | | | |
| Type Completion (Describe) Commingled (Ga | | | | | Type Fluid Production Dry Gas | | | | Pump Ur No | nit or Traveling | Plunger? Yes | / No | | |
| Producing Thru (A)nulus / Tubing) Annulus and tubing | | | | % C | % Carbon Dioxide | | | % Nitrog | en | Gas G | Gas Gravity - G | | | |
| Vertical D | | | <u>9</u> | | | Pres | sure Taps | | | | (Meter | Run) (Prover) Size | | |
| Pressure | Buildu | p: | Shut in 03/ | 05 | 15 _{at} 8 | 00 AM | (AM) (PM) 1 | aken_03 | 3/06 | 20 | 15 _{at} 8:15 A | AM (AM) (PM) | | |
| Well on L | ine: | | | | | | | | | | | (AM) (PM) | | |
| | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut | -in <u>24</u> Hours | | |
| Static / Dynamic Property | Dynamic Size | | Circle one: Meter Prover Pressi psig (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P_w) or (P_t) or (P_c) | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Duration (Hours) | Liquid Produced (Barrels) | | |
| Shut-In | | | paig (i iii) | mones 11 ₂ 0 | <u> </u> | | psig 10 | psia | psig 5 | psia_ | | | | |
| Flow | | | | | | , | | | | | | | | |
| , <u></u> | | | | , ———— | | FLOW STR | EAM ATTRIE | UTES | | | | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | Press Extension P _m xh | Grav Fact F | or T | Temperature I | | viation Metered Flo actor R F _{pv} (Mcid) | | GOR (Cubic Fe Barrel) | et/ Fluid | | |
| | | | | | _ | | | | | | | | | |
| (P \2 = | | | (P _w)² ≃ | | • | | ERABILITY) | CALCUL - 14.4) + | | | |) ² = 0.207) ² = | | |
| $(P_c)^2 = $ $(P_c)^2 \cdot (P_a)^2$ | | (P _c) ² - (P _w) ² | | Choose formula 1 or 2 | LOG of | | Backpressure Curve | | | <u>-</u> | (V d. | Open Flow | | |
| or (P _c) ² - (P _d) ² | | | | 2. $P_e^2 - P_a^2$ divided by: $P_e^2 - P_w$ | 1, or 2, and divide | and divide p 2 p 2 | | Assigned Standard Slope | | .og | Antilog | Deliverability Equals R x Antilog (Mcfd) | | |
| | | | | | | | | | | | | | | |
| Open Flow | | Mcfd @ 14.65 psia | | | | | Deliverability | | , Mcfd @ | | Mcfd @ 14.65 ps | 14.65 psia | | |
| The t | unders | igned | d authority, or | n behalf of the | Company, s | tates that he | e is duly auth | norized to | make th | e above repo | rt and that he ha | as knowledge of | | |
| | | | | aid report is true | | | | | day of M | arch | | , 20 15 | | |
| | | | Witness (| f any) | KANSAS | Receive CORPORATIO | ed N commission | Pla | why! | W. Tace | Ompany | | | |
| | | | For Comm | lesion | | APR -0-9 | 2015 — | | | Chec | ked by | | | |

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|--|----|
| 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 Empire Energy E & P 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 Bryant #3 | |
| gas well on the grounds that said well: | |
| 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 Commiss | on |
| staff as necessary to corroborate this claim for exemption from testing. | |
| Date: 03/31/2015 | |
| Received KANSAS CORPORATION COMMISSION APR 0 9 2015 CONSERVATION DIVISION WICHITA, KS Signature: Audul W. Jory District Manager | |

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.