KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes | t: | | | | (| (See Instruc | tions on Re | everse Side | ") | | | | | |
|--|-------------------------------|---|---|---|---|------------------------------|-------------------------------------|--|-----------------|---|----------------------------|---|---|--|
| □ Ot | en Flov | ı | | | Test Date | | | | ΛDI | No. 15 | | | | |
| ☐ De | eliverabi | lty | | | 10/10/2 | | | | | 119-20900 | - 0000 | | | |
| Company ABERCROMBIE ENERGY, LLC | | | | | | | Lease ESTES | Lease ESTES | | | #2 | | ımber | |
| County MEADE | | | Location NW NW SE | | | Section 19 | | TWP 32W | | /W) | Acres Attrib 320 | | Attributed | |
| Field ANGELL | | | | Reservoi MORRO | | | Gas Gathering Conn DUKE ENERGY F | | | | | | | |
| Completion Date 5/25/94 | | | | Plug Bac 6109' | k Total Dep | th | Packer Se 5566' | | | | | | | |
| Casing S 5 1/2" | Size | | Weight 15.5# | | | Internal Diameter 4'.995' | | Set at 6138' | | rations 4 | то 5 596 | ; | | |
| Tubing S 2 3/8" | ize | | Weight 4.7# | | | Diameter | | | | rforations To ONE | | | | |
| Type Cor | mpletion E GAS | (Describe) | | | Type Flui None | id Production | า | | Pump Ui None | nit or Traveling | g Plunger? Yes | s / No | | |
| Producing Thru (Annulus / Tubing) Tubing | | | | | Carbon Dioxi | de | % Nitrogen 8.927 | | | Gas Gravity - G _o 0.713 | | | | |
| Vertical Depth(H) 5596 | | | | | Pressure Taps | | | | 0.02. | | (Mete | (Meter Run) (Prover) Size 3" Flange | | |
| | | | |) 2 | 15 at 9 | (AM) (PM) | Taken 10/11 20 | | | | | | | |
| Well on L | _ine: | | | | 0 at | | (AM) (PM) | Taken | | 20 | at | | (AM) (PM) | |
| | _ | | | | | OBSERVE | D SURFAC | E DATA | | | Duration of Shu | ıt-in24 | Hou | |
| Static / Dynamic Property | ynamic Size | | Circle one: Meter Prover Pressure | | Flowing Temperature t | Well Head Temperature | Weilhead | Casing Wellhead Pressure (P_w) or (P_l) or (P_c) | | Tubing ad Pressure r (P _e) or (P _e) | Duration (Hours) | | Liquid Produced (Barrels) | |
| Shut-In | (mone | psig (Pm | | Inches H ₂ 0 | <u> </u> | | psig 90# | psia 104.4# | psig psia | | 24 hrs. | | | |
| Flow | Flow | | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTE | RIBUTES | | | | • | | |
| Plate Coefficcient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | Press Extension P _m xh | Extension Fac | | Flowing Femperature Factor | iture Deviation | | Metered Flor R (Mcfd) | w GOF (Cubic F Barre | eet/ | Flowing Fluid Gravity G _m | |
| | | | | | | | | | | | <u> </u> | | | |
| (P)² = | | ; (P |) ² = | • | ` | OW) (DELIV | | ') CALCUL P _o - 14.4) + | | : | | a) ² = 0.2 | .07 | |
| (P _c) ² - (I | P _a) ² | $(P_{w})^{2} = \frac{(P_{w})^{2}}{(P_{c})^{2} \cdot (P_{w})^{2}}$ | | oose formula 1 or 2 1. P _a ² - P _a ² 2. P _c ² - P _d ² | LOG of formula 1. or 2. and divide | | Backpressure Curve Slope = "n" | | n x | .og [| Antilog | Open Flow Deliverability Equals R x Antilo (Mcfd) | | |
| | | | divi | ded by: Pc2 - P | 2 by: | <u> </u> | Sidili | | | | | | | |
| O | | | | N4-44 @ 44 | ori- | | Deliversi | atlika | | | Motel @ 14 SE n | si s | | |
| Open Flo | | | | Mcfd @ 14, | <u> </u> | | Deliveral | - | | | Mcfd @ 14.65 p | | | |
| | | | | report is true | | | | | | ecember | ort and that he h | | ledge of 20 <u>15</u> | |
| - | - 71 | , | | | _ | | | | 1. | m | int. | | | |
| | | Witr | ness (if an | y) | k | CC W | ICH!! | <u> </u> | and I | For | Company | | | |
| | | For | Cammissi | on | | DEC 1 | 2015 | | | Che | cked by | | | |
| | | | | | | REC | EIVED | | | | | | | |

| 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 ABERCROMBIE ENERGY, 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 ESTES #2 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: December 14, 2015 |
| Signature: Jany Misol KCC WICHITA Title: Operations Manager DEC 1 5 2015 RECEIVED |

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.