KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | | | | (| See Instruc | tions on Rev | erse Side | ?) | | | | |
|---|-------------------|----------------|---------------------------------------|---|----------------------------|---------------|---|-------------|--|------------------|--------------------------------|--|--------------|
| Open Flow | | | | Test Date: API No. 15 -023-2 | | | | | | | | a | |
| Deliverabilty | | | | | Test Date: | | | | | No. 15 -023 | -20993 - 000 | | |
| Company | | | | | | | Lease | | | | | Vell Nur | nher |
| | | Ene | erov Mana | gement. LL | С | | DOUTHIT | - | | | • | 12-2 | |
| Foundation Energy Management, LL County Location | | | Section | TWP | | | RNG (E/W) | | Acres Attributed | | | | |
| CHEYE | NNE | | SWS | SWNW | | 21 | 48 | | | 1Ŵ | | | |
| Field | | | | • | Reservoi | r | | | Gas Gat | hering Conne | ection | | |
| Cherry Creek Nic | | | brara Gas Area Niobrara | | | | | | South | ern Star | | | |
| Completion Date | | | | y- | | | | | | Set at | | | |
| 8/26/20 | <u> 11 </u> | | | | 1427 | | | | | | _ | | |
| Casing Size | | | Weigh | | Internal Diameter | | Set at | | Perforations | | To 4202 | | |
| 7", 41/2" | | | 17#, 11.6#_ | | 9-7/8". 6-1/4" | | 121, 1468 | | 1253 | | 1292 | | |
| Tubing Size | | | Weight 4.7# | | Internal Diameter 1.995 | | Set at 1309 | | Perforations | | То | | |
| 2-3/8" Type Con | anlatia | n (D) | oparibo) | 4.1# | | d Production | | 309 | Pump Hi | nit or Traveling | Plunger? Yes | / No | |
| Single | | | escribe) | | saitwa | | ., | | rump of | iit or maveiling | Fluilgeri tes | , 140 | |
| | | | nulus / Tubin | 7) | | arbon Dioxi | de | | % Nitroc | en | Gas Gra | avity - G | |
| 1 Todabing | , | (· ···· | 10001 100111 | , | ,,,, | | •• | | 74 | , | | , - | g |
| Vertical D | epth(H | 1) | | <u> </u> | | Pres | sure Taps | | | | (Meter F | Run) (Pr | over) Size |
| | -11- | • | | | | | | | | | • | | • |
| - | | | <u></u> | 3/10 , | 14 | 12 PM | _ | | | | | | |
| Pressure | Buildu | p: | Shut in | | 20at | | (AM) (PM) | Taken | | 20 | at | (/ | AM) (PM) |
| Well on L | ine: | | Started | 3/11 2 | 20 <u>14</u> at _2 | 2:15 PM | (AM) (PM) | Taken | | 20 | at | (| AM) (PM) |
| | | | | | | | | | | | | | |
| | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut-i | n 26. | .25 Hours |
| Static / Orific Dynamic Size | | ce | Circle one: | Pressure | Flowing | Well Head | Head Casing | | Tubing | | Bde - | . | |
| | | I Prover Presi | | Differential . | Temperature | Temperature | Wellhead Pressure (P_w) or (P_1) or (P_2) | | Wellhead Pressure (P _w) or (P _t) or (P _c) | | Duration (Hours) | Liquid Produced (Barrels) | |
| Property | (inch | es) | psig (Pm) | Inches H ₂ 0 | t | l t | psig | psia | psig | psia | , , | , | |
| Shut-In | | | | | | | 89 | | | | | | |
| | | | | | <u> </u> | - | | | | | | | |
| Flow | | | | | | | | | <u> </u> | | | | |
| | | | | | | FLOW STF | REAM ATTRI | BUTES | | | | | |
| Plate | | | Circle one: | Press | Grav | | Flowing | Dow | iation | Metered Flow | GOR | | Flowing |
| Coeffiecient (F _b) (F _p) Mofd | | 0 | Meter or over Pressure psia | Extension | Fac | | lemperature | | ctor | R R | (Cubic Fee | et/ Fluid Gravity G _m | |
| | | Pro | | √ P _m xh | F, | | Factor F _{II} | F | - P4 | (Mcfd) | Barrel) | | |
| | | | <u> </u> | | | | | - | | | | | |
| | | | | | | | | | | | | | |
| | | | | | (OPEN FL | OW) (DELIV | ERABILITY) | CALCUL | ATIONS | | (P.)² | = 0.20 | 07 |
| (P _c) ² = | | _: | (P _#) ² = | : | P _d ≓ | | % (P, | - 14.4) + | 14.4 = _ | : | (P ₄) ² | | |
| | | | | Choose formula 1 or | 2: | ГП | Backpres | sure Curve | , | | | On | en Flow |
| (P _e) ² - (P _e) ² | | (F | 2 ₀)2- (P _w)2 | 1. P _c ² -P _a ² | LOG of formula | 1 1 | Slope = "n" | | n x | LOG | Antilog | Deliverability | |
| (P _c)2-(f | _ _a)₂ | | | 2. P _c ² -P _d ² | 1. or 2. and divide | P,2-P,2 | | igned | | | runnog | | R x Antilog |
| | | | | divided by: P _c ² - P | 2 by: | | Standa | rd Slope | | | | | Mcfd) |
| | | | ļ | | | | | | | | : | | |
| | | | | <u> </u> | i | | | | | | | | |
| L | | | | | | | <u> </u> | | | | | | |
| Open Flor | W | | | Mcfd @ 14 | .65 psia | | Deliverabi | lity | | | Mcfd @ 14.65 psi | a | |
| The u | unders | igned | authority, o | n behalf of the | Company, s | states that h | e is duly aut | horized t | o make ti | ne above repo | rt and that he ha | s knowl | edge of |
| 4L - 6 > | | · | | | | 4 5 | Aleia Alea | 29 | dau at | Α | ugust | | 14 |
| une racts si | aie d f | nerei | n, and that s | aid report is tru | е яно сопес | | tnis the | | day of | | | , 2 | |
| | | | | | K | | RATION COMMI | SSION | | | | | |
| | | | Witness (| fany) | | SEP | 0 3 2014 | | | ForC | company | | |
| | | | ForComm | ission | | | - | | | Chec | ked by | | |
| | | | . 01 0011111 | | | CONCEDU | TION DIVIDIO | k I | | 3,,,, | | | |

| | are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator <u>Foundation Energy Management, LLC</u> |
|--|--|
| and that to correct to of equipm I here | the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records tent installation and/or upon type of completion or upon use being made of the gas well herein named. The production summaries and lease records the production and leas |
| | 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 her agree to supply to the best of my ability any and all supporting documents deemed by Commission eccessary to corroborate this claim for exemption from testing. |
| Date: | August 29, 2014 |
| | Signature: Luckie Patrice Title: Operations Assistant |

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 to the subject well well well a verified report of annual test results.