KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | | | | (| See Instruct | ions on Reve | erse Side | e) | | | | | |
|---|------------------|----------------|----------------------------------|---|-----------------------------------|--|--|-----------------|----------------|---|--|-----------------------|------------------------|--|
| Ор | en Flo | w | | | Test Date | a: | | | API | No. 15 -181 | -20388-0 | 00-00 | | |
| De | liverab | ilty | | | | | | | | | | | | |
| Company Foundation Energy Management, LLC | | | | | Lease C P. HELMAN | | | | · | | | | Number 3-24 | |
| County | auom | | Locati | | Section | | TWP | <u> </u> | RNG (E/ | W) | | | Attributed | |
| SHERM | IAN | | | N-NE-SW | | 24 | 6S | | • |)Ŵ | | | | |
| Field GOODL | _AND |) | | | Reservoir NIOBR | | | | | hering Conne r Morgan | ection | | | |
| Completio | on Date | ө | | · | Plug Bac | k Total Dept | h | | Packer S | et at | | | | |
| 1/1/200 | | | | | 1481' | | | | | | | | | |
| Casing Size 7", 41/2" | | | Weigh | | Internal Diameter 6.538, 4.052 | | Set at 401', 1523' | | Perfo | rations 1342' | = | то 1 362 ' | | |
| Tubing Si | _ | - | Weigh | #, 10.5# | Internal D | • | Set at | 1023 | Perfo | rations | - <u>'</u> | | | |
| 2-3/8" | | | | 4.7# | | 995 | | 396' | | | - | _ | | |
| Type Con | pletion | ı (De | scribe) | | Type Flui | d Production | 1 | | Pump Ur | nit or Traveling | Plunger? | Yes / No | | |
| SINGLE (GAS) | | | SALTWATER | | | | | | ROD PUMP | | | | | |
| Producing ANNUL | • | (Anr | iulus / Tubing |) | % C | % Carbon Dioxide | | | | % Nitrogen | | | Gas Gravity - G | |
| Vertical D | | 1) | | | <u> </u> | Press | sure Taps | | | | (1) | Meter Run) (| Prover) Size | |
| | | | | | | | | | | | | | | |
| Pressure | Buildu | p: \$ | Shut in | 12/8 | 15 at 9 | 00 AM | (AM) (PM) 1 | aken | | 20 | at | <u> </u> | (AM) (PM) | |
| Well on L | ine: | : | Started | 12/9 2 | ₀ 15 _{at} 9 | MA 00:6 | (AM) (PM) 1 | aken | | 20 | at | | _ (AM) (PM) | |
| | | | - | | - | OBSERVE | D SURFACE | DATA | | | Duration of | Shut-in | 24 Hours | |
| Static / | Orific | ce | Circle one: | Pressure | Flowing | Well Head | Casin | - | 1 | ubing | | | wild Duadonad | |
| Dynamic | Size | е | Meter Prover Pressu | Differential re in | Temperature | Temperature | Wellhead P (P _w) or (P ₁) | | | ad Pressure (P _L) or (P _c) | Duration Liquid Produced (Hours) (Barrels) | | | |
| Property | (inche | es) | psig (Pm) | Inches H ₂ 0 | t | t | psig | psia | psig | psia | | | | |
| Shut-In | | | | | | | 28 | | | | | | | |
| Flow | | | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTRIE | UTES | | | | | | |
| Plate | | | Circio one: | Press | . Grav | ity _ | Flowing | Dev | iation | Metered Flov | , | GOR | Flowing | |
| Coeffieci (F _b) (F | | | Meter or ver Pressure | Extension | , Fact | tor | emperature Factor | | ctor | R (Mcfd) | 1 ' | ubic Feet/ Barrel) | Fluid Gravity | |
| Mold | | | psia | √ P _m xħ | ' s | | F _n | , | pv | (MCIO) | | - Darreij | G _m | |
| | | | | | | | | | | | | | | |
| | | | | | (OPEN FL | OW) (DELIV | ERABILITY) | CALCUL | ATIONS | | | $(P_a)^2 = 0$ | 207 | |
| (P _c)² = | | _: | (P _w) ² = | : | P _d = | 9 | % (P, | - 14.4) + | 14.4 = | : | | $(P_a)^2 = $ | | |
| | | = | | Choose formula 1 or 2 | : | | Backpress | | - 1 | ГЛ | | | Open Flow | |
| (P _c) ² - (F | _") _s | (P | c)2 - (P _w)2 | 1. P _c ² -P _c ² | LOG of formula | | Slope | :≃ "ກ" r' | n x l | LOG | Antilog | , 0 | eliverability | |
| (P _c) ² - (F | a)2 | | | 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$ | 1. or 2. and divide by: | P _c ² -P _w ² | | gned d Slope | | | | Equ | als R x Antilog (Mcfd) | |
| | | | | aviaea by: F _c -F _w | | <u> </u> | Giarioa | - | | | | | | |
| | | | - | | | | | | | | | | | |
| | | | | | | _ | | | | | | | | |
| Open Flow | | | | | . Deliverabil | ity | Mcfd @ 14.65 psia | | | | | | | |
| The (| ındersi | gnec | i authority, or | behalf of the | Company, s | states that h | e is duly aut | horized t | o make th | , | | | | |
| the facts s | tated ti | ne re i | n, and that sa | id repart is tru | e and correc | t. Executed | this the | 16 | day of | DEC | EMBER | | , 20 | |
| | | | | | | F | Received | | | | | | | |
| | | | Witness (i | any) | | KANSAS COR | PORATION COM | MISSION | | For | Company | | - | |
| | | | Eas Carrer | legion | | - D EC | 2 1 201 | <u> </u> | | Cha | cked by | | | |
| | | | For Comm | issiOII | | טבנ | - 1 ZUI | J | | Cue | even nà | | | |

| | 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 Foundation Energy Management, LLC |
|--|---|
| 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 ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the P. HELMAN 23-24 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 er agree to supply to the best of my ability any and all supporting documents deemed by Commission excessary to corroborate this claim for exemption from testing. |
| Date: | 12/16/2015 |
| | 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.