Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test | t: | | | | • | (| See Ins | tructi | ions on Rev | verse Side |) | | | | | | |
|--|-------------|--|---|-----------------------|--|---------------------------------------|--|------------------------------------|---|---------------|---|------------------|--------------------------|------------------|---------------------------------------|---|---|
| Ор | en Flo | w | | | | | | | | | | | | | | | |
| ✓ Deliverability | | | | Test Date 11/11/20 | 014 | , , , | | API No. 15 15-097 -2 017 | | | 77-0000 | | | | | | |
| Company Kiowa G | y Sas Co | mpa | 08.6 g . iny a 0 6.000 | 1 | 10 10 | | | ; | Lease Miller | 1 | | oh ao Artaona | · · | <u>~~</u> 1 | V | Vell Nun | |
| County Kiowa | Se Y | | Loca NW | tion | S 1 10 1 | Section 25 | 4 12. | | TWP 27 | | RNG (E 18W | | ī, | | | cres At | tributed |
| Field Greensb | | | | | . " " | Reservoii Mississi | | | | •• | Gas · Ga OneOk | thering C | onne | | | | , |
| Completion Date 10/03/73 | | | | Plug Bac 4,773 | k Total | Deptl | h , | Packer Set at NA | | | | , | | | | | |
| Casing Size Weight 4.5" 9.5 | | | | Internal I | Internal Diameter 4" | | | Set at Perform 4,698 | | | | | | | | | |
| Tubing Size Weight 2 3/8" 4.7 | | | | Internal [| Internal Diameter 2" | | | Set at Perforation | | | То | | | | | | |
| Type Con Single | npletio | n (De | scribe) | | | Type Flui Crude | | | | | Pump U | | eling | Plunger? | Yes | / No | - |
| Producing Thru (Annulus / Tubing) Annulus and Tubing | | | | % C | arbon [| Dioxid | de | % Nitrogen 2.3123 | | | Gas Gravity - G | | | | <u> </u> | | |
| Vertical E | | | | - | • | | | - | sure Taps . ge 95 lb | - | | | | (N | leter R | luṃ) (Pro | over) Size |
| Pressure | Buildu | , | snut in | /10 | 20 | | :10 | | (AM) (FM) | | | | | 14 at 2: | | | AM)(PM) |
| Well on L | _ine: | ! | Started 11 | <u>/11</u> | 20 | 14 at 2 | :10 | | (AM) M | Taken 11 | /11 ` . | | 20 . | 14 at 4: | 10 | (4 | AM) (РМ) |
| | | | - | | | 783 | OBSE | RVE | D SÜRFACI | E DATA | ta gar | | | Duration of | Shut-ii | n <u>24</u> | Hours |
| Static / Orifice Dynamic Size Property (inches | | е. | Meter | | Pressure Differential In Inches H ₂ 0 | Flowing Well H Temperature Temper t t | | | | | Wellhead Pressure (P _w) or (P _t) or (P _c) | |)' • | Duration (Hours) | | Liquid Produced (Barrels) | |
| Shut-In | | | | _ | | , a .V | · · | | 76 | рыа | - psig - | | · . | 24 | | , | , |
| Flow | | | | | | | | | 30 | . , | | | | | | | |
| | | | | | | | FLOW | STR | EAM ATTR | BUTES | | | | | | | |
| Plate Coeffictient (F _b) (F _p) Mcfd | | | Circle one: Meter or Prover Pressure psia | | Press Extension | Fac | Gravity Factor F ₉ | | Flowing Temperature Factor F ₁₁ | | Factor | | ered Flow R (Mcfd) | | GOR (Cubic Feet/ Barrel) | | Flowing Fluid Gravity G _m |
| | · | | | | | | | | r | | | 43 | | | | | |
| | | | | | | (OPEN FL | OW) (DI | ĘĽI V I | ERABILITY |) CALCUL | ATIONS | | • | , | | = 0.20 | 17 |
| (P _c) ² = | | <u> : </u> | (P _w) ² | | ose formula 1 or 2: | P _d = | | 9 | % ` .(F | · 14.4) + | 14.4 = _ | : | <u>, • ´.</u> | | (P _d) ² | = | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | ['] (P | (P _c) ² - (P _w) ² | | 1. P _c ² - P _g ² 2. P _c ² - P _g ² | LOG of formula 1. or 2. and divide | formula 1. or 2. and divide p 2. p 2 | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | | n x LOG | | Antilog | | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | ` | | | | | • . | | | | | |
| | | | ١ | | | | | | , | | | | , | | | | |
| Open Flo | w | | | • | Mcfd @ 14. | 65 psia | | | Deliverab | ility | | • | ٨ | /lcfd @ 14. | 65 psia | a | |
| The | unders | igned | authority, | on b | ehalf of the | Company, | states th | at h | e iş duly at | thorized to | o make t | he above | repor | t and that | he has | s knowl | edge of |
| the facts s | stated t | herei | n, ånd that | said | report is true | and correc | t. Exec | uted | this the 1s | st · | day of 1 | /lay . | | | , , , , , , , , , , , , , , , , , , , | , 2 | 0 15 |
| | | 1 | Witness | (it an | v) | | KCC | :_W | /ICHIT | <u>^.</u> | < Pod | @_\ | ForCo | LIDL ompany | | | |
| | | | For Con | | | | -MAY | -0 | 7 2015 - | | | | Chec | ked by | | | ···· |
| | | | | | | | R | EC | EIVED | • | | | | | | | |

| | nder the laws of the state of Kansas that I am authorized to request 4 on behalf of the operator Kiowa Gas Company | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | tion and statements contained on this application form are true and | | | | | | | |
| correct to the best of my knowledge and b | pelief 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 | on from open flow testing for the <u>Miller #1</u> | | | | | | | |
| gas well on the grounds that said well: | • | | | | | | | |
| (0) | | | | | | | | |
| (Check one) | producer | | | | | | | |
| | 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 | | | | | | | |
| | | | | | | | | |
| | esent time; KCC approval Docket No | | | | | | | |
| | ucing at a daily rate in excess of 250 mcf/D | | | | | | | |
| io net capable of pleas | | | | | | | | |
| I further agree to supply to the best of staff as necessary to corroborate this cla | of my ability any and all supporting documents deemed by Commission implies that it is a supporting to the state of the st | | | | | | | |
| Date: _5/01/15 | | | | | | | | |
| KCC WICHITA MAY 07 2015 RECEIVED | Signature: Title: President | | | | | | | |

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.