KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes | - | | | (| (See Instruc | tions on Re | verse Sid | e) | | | | |
|--|-----------------------------|---|--|-------------------------------------|--------------|--|--|--|------------------------------|--|--|---|
| Open Flow Deliverabilty | | | | Test Date: 9-11-14 | | | | API No. 15 075-20746-00-00 | | | | |
| Company | | ating, Inc. | | | | Lease Cletus | | , | | 1 | Well Nu | mber |
| County Location Hamilton SW/SE | | | Section 30 | | TWP 21S | | RNG (E/W) 41W | | Acres Attributed | | | |
| Field Bradshaw | | | Reservoir Winfield | | | | Gas Gathering Connection | | ection | | | |
| Completion Date 7-31-2001 | | | Plug Back Total Depth 2816 | | | | Packer S None | Set at | | | | |
| Casing S 4.5 | g Size Weight 10.5 | | | Internal Diameter 4.052 | | Set at 2818 | | Perforations 2768 | | To 2780 | | |
| Tubing S | ubing Size Weight | | | Internal (| Diameter | Set at 2816 | | Perforations | | То | | |
| Type Completion (Describe) Single - Gas | | | Type Fluid Production Water | | | | Pump Unit or Traveling Plunger? Yes / No Pump Unit - Rod | | | | | |
| Producing Thru (Annulus / Tubing) Annulus | | | % Carbon Dioxide | | | % Nitrog | | Gas G | Gas Gravity - G _g | | | |
| Vertical E | | | | | Pres Flan | sure Taps | | | | (Meter | Run) (P | rover) Size |
| Pressure | Buildup: | Shut in | 9-10 2 | 014 _{at} | 14 at 10:30 | | | | -//20 | 14 at 10:30 | | Ā M) (PM) |
| Well on Line: | | Started 20 | |) at | | (AM) (PM) Taken | | 20 | | | | AM) (PM) |
| | | | | | OBSERVE | D SURFAC | | | | Duration of Shut | -in | 34 Hours |
| Static / Dynamic Property | Orifice Size (inches) | Circle one Meter Prover Pressur | - 1 | Flowing Well Head Temperature t t | | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) | | | | d Produced Barrels) |
| Shut-In | .625 | psig (Pm) |) Inches H ₂ 0 | | | psig psia | | psig psia | | 24 | | |
| Flow | | | | | | 0,0 | | | | | | |
| | | | | | FLOW STE | REAM ATTR | IBUTES | | | | | |
| Plate Coeffiec (F _b) (F Mcfd | ient P | Circle one Meter or Prover Pressure psia | Press Extension | Extension Fact | | Flowing Devia Femperature Fac Factor F _p | | ctor R | | GOR (Cubic Fe Barrel) | | Flowing Fluid Gravity G _m |
| | | | | | | | | | | | | |
| (P _c) ² = | : | (P _w)² =_ | : | (OPEN FLO | | 'ERABILITY % (F | CALCUL | | : | (P _a) (P _d) | ² = 0.20 | 07 |
| (P _c) ² - (I or (P _c) ² - (I | - | (P _c) ² - (P _w) ² | Thoose formula 1 or 2 1 $P_c^2 - P_a^2$ 2 $P_c^2 - P_d^2$ Avided by $P_c^2 - P_w^2$ | LOG of formula 1 or 2 and divide by | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | e n x l OG | | Antilog | Open Flow Deliverability Equals R x Antrlog (Mcfd) | |
| | | , | | - | | , | | | | | | |
| Open Flo | w | | Mcfd @ 14.6 | 35 psia | • | Deliverab | ilitv | | | Mcfd @ 14.65 ps | ia | |
| The t | undersigne | ed authority, on | behalf of the | Company, s | | e is dufy au | thorized to | o make th | | t and that he ha | s knowl | 20 <u>14</u> . |
| | | Witness (if | | | | _ | | | | <u> </u> | CORPOR | ATION COMMIS |
| ا الله الله الله الله الله الله الله ال | 5 | For Gommis | ssion | | | _ | • | * | Check | ked by | 90. | 3 2014 |
| 1 3 5 2 5 15 | | mi, -140, | | w I | | 17 | * 4 * | 6, | S4 . | CO | NSERVA WICH | ION DIVISIOI IITA, KS |

| 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 Horseshoe Operating, Inc. 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 Cletus 1 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: 10-1-14 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 gap 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.

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