KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | : | | | | | 6 | See Instruc | tions on Rev | erse Side | e) | | | |
|---|-----------------------|--|--|-------------------------|--|-----------------------------|---------------------------------------|--|--|---|-----------------------------|-----------------------------|--|
| | en Flov Iiverabi | | • | | | Jest Date | ξ L | | | | No. 15 071-20116 | -00 00 | |
| Company Horseshoe Operating, Inc. | | | | | 7.51 | Т | Lease Kuder | ase | | , | Well Number | | |
| County Location Greeley C NW/NW | | | | Section 1 | | TWP 18S | | RNG (E/W) 40W | | Acres Attributed | | | |
| Field Bradshaw | | | | Reservoir Winfiel | | | | Gas Gathering Connection DCP Midstream | | tion | | | |
| Completion Date B-13-1976 | | | | Plug Bac 3019 | k Total Dep | th | • | Packer Set at | | | • | | |
| asing Si | g Size Weight 10.5 | | | Internal Diameter 4.052 | | Set at 3021 | | Perforations 2956-62 | | то 2924-34 | | | |
| ubing Si 2-3/8 | | | | _ | Internal Diameter 2.000 | | Set at 2986 | | Perforations | | То | | |
| Type Completion (Describe) Single-Gas | | | | | Type Fluid Water | Type Fluid Production Water | | | Pump Unit or Traveling Plunger? Yes / No . Pump Unit | | | | |
| | Thru | | ulus / Tubin | g) | | % C | arbon Diox | ide | | % Nitroge | n | Gas Gr | avity - G _g |
| /ertical D | | | ······································ | | · | | | ssure Taps 2nqe | | | | (Meter I | Run) (Prover) Size |
| Pressure | Buildup |): S | hut in | 4. | 2 20 | 24 at _ | 8:00 | (AM) (PM) | Taken | 4.3 | 20/ | 4 at 8.0 | 00 (AM) (PM) |
| Vell on Li | ine: | S | tarted | | 20 |) at | ţ. | (AM) (PM) | Taken | | 20 _ | at | (AM) (PM) |
| | 44 | | | | | . , | OBSERVE | D SURFACE | DATA | | | Ouration of Shut- | in 24 Hours |
| Static / Dynamic Property | lc Size | | Circle one: Meter Prover Pressure psig (Pm) | | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | ture (P_w) or (P_1) or (P_c) | | Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | .66 | 35 | | | 2 | | | psig | /3 | μsig | psia | 24 | |
| Flow | | | | | | | | | | | | , | |
| | | | | т | | | FLOW ST | REAM ATTRI | BUTES | <u>-</u> | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | | Press Gra Extension Fac P_xh F | | tor Temperature | | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | GOR (Cubic Fe Barrel) | i Gravita |
| | | | | | · · · | | | * | <u> </u> | | | | |
| P _c) ² = | | _: | (P _w) ² = | - | : | (OPEN FLO | , , | /ERABILITY) % (P | CALCUI - 14.4) + | | <u>.</u> : | (P _a) | ² = 0.207 ² = |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P _c)²-(P _w)² | | 2 | 1. P _c ² -P _c ² 2. P _c ² -P _c ² dided by: P _c ² -P _c ² by: | | Backpressur Slope =or Assign Standard | | e = "n" or igned | e nxL | og 📗 | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | · | | | | | | . | <u>.</u> | | | |
| pen Flov | N | | | | Mcfd @ 14.6 | 55 psia | | Deliverabi | lity | <u>.</u> | , N | lcfd @ 14.65 ps | ia |
| | | | | | ehalf of the report is true | | | | thorized | to make the | e apove report | and that he ha | as knowledge of // , 20 // . |
| | | | Witness | (if any |) | | | | | jani | Fdr Cg | freezy f | <u>- </u> |
| | | | For Comr | nissio | n | | | _ | | | Check | red by · | KANSAS CORPORATION |

OCT 0 2 2014

| exempt status under Rule K.A.R. 82-3-304 on be | e laws of the state of Kansas that I am authorized to request half of the operator Horseshoe Operating, Inc. |
|---|--|
| | d statements contained on this application form are true and |
| correct to the best of my knowledge and belief b | ased upon available production summaries and lease records |
| of equipment installation and/or upon type of cor | npletion or upon use being made of the gas well herein named. |
| I hereby request a one-year exemption from | open flow testing for the Kuder #1 |
| gas well on the grounds that said well: | |
| | |
| (Check one) | |
| is a coalbed methane produc | er . |
| is cycled on plunger lift due t | o water |
| is a source of natural gas for | injection into an oil reservoir undergoing ER |
| is on vacuum at the present t | me; KCC approval Docket No. |
| is not capable of producing a | t a daily rate in excess of 250 mcf/D |
| | |
| I further agree to supply to the best of my a | oility any and all supporting documents deemed by Commission |
| staff as necessary to corroborate this claim for | exemption from testing. |
| | |
| Pate: 9-3-14 | |
| Date | |
| · | • • • • • • • • • • • • • • • • • • • |
| | |
| Signa | ture: |
| | THIO. |

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.

Posses a Received MMISTON

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CUNSTON IVERS