KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Tes | it: | | | | (| 'See Instruct | tions on Rev | erse Side |) | | | | |
|----------------------------------|--------------|--------|----------------------------|---|---------------------|------------------|--|-------------------|-------------|--|-------------------|-----------|--|
| □ o _i | pen Fid | w | | | | | | | | N- 45 | | | |
| De | allveral | bilty | | | 7/2/2 | 7// | | | | No. 15 5-20816-0 0 |)-00 | | |
| Compan | y shoe | Ope | erating, Inc | | <u> </u> | <i></i> | Lease Braddo | ck | | | 1 | Well Nur | nber |
| County Hamilto | | | Locati C SW | | Section 34 | | TWP 22S | | RNG (E | /W) | | Acres Al | besudht |
| Field | | • | | | Reservoi | | | | | hering Conn | | | |
| Bradsh | | ie. | | | Winfiel | k Total Dept | h | | DCP : | <u>Midstrea</u> Set et | <u>m</u> | | |
| 9-29-0 | 4 | | | | 2600 (| TD) | | | | | | | |
| Casing S 4.5 | | | Weigh 10.5 | ι | Internal I 4.052 | Jiameter | Set a 2600 | | 258 | rations 5 | то 2593 | | |
| Tubing S 2.375 | ize . | | Weigh 4.70 | t | internal [2.000 | Diameter | Set at 259 9 | | Perfo | erations | То | | |
| Type Cor Single | | | escribe) | | Type Flui Water | d Production | 1 | | Pump U | nit or Traveling | Plunger? Yes | / No | |
| Producin | g Thru | (Anı | nulus / Tubing | 1) | % C | arbon Dioxid | de | | % Nitrog | en | Gas Gr | avity - G | 9 |
| Vertical E |)epth(i | 1) | | | | Press | sure Taps | | | | (Meter | Run) (Pro | over) Size |
| Pressure | Buildu | ıp: | Shut in | 1/25 | eo // st 4 | 1:05 | (AM)/PM | Taken | 7/0 | 36 20 | // at 4:0 | 5 " | MV (PM) |
| Well on L | | | Started | | | | | | , | | at | | M) (PM) |
| · | - | | | <u></u> | | OBSERVE | D SURFACE | DATA | | <u></u> | Duration of Shut- | in 2 | // Hours |
| Static / | Orlf | | Circle one: Motor | Pressure Differential | Flowing | Well Head | Casi Wellhead F | • | | Tubing ad Pressure | Duration | | Produced |
| Dynamic Property | Siz (Inch | | Prover Pressu psig (Pm) | | Tempereture t | Temperature t | (P _w) or (P _t | | | r (P ₁) or (P _e) | (Hours) | | errels) |
| Shut-In | .70 | 50 | | - | - | | | 65.1 | pag . | Jasia | 24 | | |
| Flow | | | | | | | | | | | | | |
| | | | | | | FLOW STR | EAM ATTRI | BUTES | <u> </u> | | | <u> </u> | |
| Plate | | | Circle one: | Press | Grav | | Flowing | Dev | lation | Metered Flov | GOR | | Flowing |
| Coeffiec (F _b) (F | | | Mater or ver Pressure | Extension | Fact | or | emperature Factor | Fa | ctor | R | (Cubic Fe | | Fluid Gravity |
| Mold | | | psia | ✓ P _m xh | F, | | F _n | ŗ | pv | (Mcfd) | Barrel) | | G, |
| | | | | | | 1 | | | | • | | | |
| | | | | | (OPEN FL | OW) (DELIVI | ERABILITY) | CALCUL | ATIONS | | /P \ | ² = 0.20 | 7 |
| (P _e) ² = | | _: | (P_)2 = | : | P _d = | 9 | 6 (P, | - 14.4) + | 14.4 = | : | (P _a) | | <u>. </u> |
| (D V2 (S | 2 18 | | | Choose formula 1 or 2 | | ГЭ | | sure Curve | | ر ٦ | • | Ope | n Flow |
| (P _e)²- (f | - | (1) | (P,)* | 1. P. P. P. 2. P. | formula 1, or 2, | | Slope | ot e = "u" | пх | rog | Antilog | Dally | erability |
| (P _e)3 - (F | 2,)2 | | 1. | Mated by: P.*-P. | and divide | P,2-P,2 | | Igned rd Slope | | L J | | 1 | R x Antilog Actd) |
| | | | | | | | | | _ | | | ļ . · · · | |
| | _ | | | | | | | | | | | | |
| Open Flor | <u>_</u> | | | Mcfd @ 14. | _ 65 psia | | Delive rabi | lity | | | Mcfd @ 14.65 psi | i Ia | |
| | | | | | • | **** | | | ! 4 | | <u></u> | | |
| | | _ | _ | | | | · | 2 | | 16 above repo | rt and that he ha | s knowle | eage or |
| ine facts si | ated ti | nereir | n, and that sa | ld report is true | and correct | . Executed | this the | | day of | wigg | . 1 | , 2 | 0 <u>/_/</u> . |
| | | | | | | | | | buil | e Ki | aller | | |
| | | | Witness (if | any) | | | _ | 0 | | Fau | company | | |
| | • | | For Commi | ssion | | | _ | - | | Che | iked by | REC | FIVED |

AUG 1 1 2011

| 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 Braddock #1 gas well on the grounds that said welt: (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. I further agree to supply to the best of my ability any and all supporting documents deemed by Commissionstaff as necessary to corroborate this claim for exemption from testing. Date: 8/3/// Signature: Production Assistant | 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 Braddock #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 |
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| Date: 8/2/11 Signature: Janice Ripley | |
| Signature: <u>Janice Ripley</u> | • |
| Signature: <u>Janice Ripley</u> | 4/2/11 |
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| | Signatura: Oaning Ripley |
| Title: Production Assistant | |
| | Title: Production Assistant |
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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.