KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Te | st: | | | | | (See Ins | structions o | n Rev | erse Side |) | | _ | | | |
|--|----------------------------|---|------------------------------------|---|--|--|----------------|---------|--|---|---------------------------------------|-----------------------------|---|----------------------------------|--|
| | pen Fl | low | | | Tool Day | | | | | 40 | M- 45 | | | | |
| D | elivera | bilty | | | /-/3-/ | Test Date: API No. 15 -/.3-// 15-071-20 | | | | | | 098-000 | | | |
| Compar | ly nhoo | 0 | | | , , , , , , | | Lea | | | | · · · · · · · · · · · · · · · · · · · | | Well N | umber | |
| County | Opi | erating, In | | Section | Clift Section TWP | | | | "A" 1 RNG (E/W) Acr | | | A | A | | |
| Greeley C SE | | | | 33 | | | | 188 | | 40W | | Acres Attributed 640 | | | |
| Field Bradshaw | | | | | Winfie | Reservoir Winfield | | | | | hering Conne [idstream | | | • | |
| Completion Date 1/1976 | | | | | Plug Ba 2923 | Plug Back Total Depth 2923 | | | n Packe Non | | Set at | · = | | | |
| Casing 8 4.5 | sing Size Weight 5 10.5 | | | | Internal 4.09 | Internal Diameter 4.09 | | | Set at 2950 | | Perforations 2882 | | To 2899 | | |
| Tubing S 2.375 | bing Size Weight 375 4.7 | | | ht | Internal 1.995 | | Set at 2904 | | | Perforations | | То | | | |
| | | | | | | Type Fluid Production | | | | Pump Ur Yes | nit or Traveling | Plunger? Yes / No | | | |
| | | ı (An | nulus / Tubir | 10) | | arbon D | Dioxide | _ | | % Nitrog | en | Gas G | avity - 1 | <u> </u> | |
| Annulu | S | | | -87 | | | | | | | _,, | | avily - | G ₀ | |
| Vertical E 2960 | Pepth(i | H) | | | | F | Pressure Ta | рѕ | · · · | | | (Meter | Run) (P | rover) Size | |
| Pressure | Builda | ıp: | Shut In | 1-12 2 | 0 // at _ | 9:36 |)_ (AM) | (PM) | Taken | 1-1 | 3_20 | // at 9:30 | 2 | (AM) (PM) | |
| Well on L | ine: | | Started | 2 | 0 at _ | | (AM) | (PM) ` | Taken | | 20 | at | | (AM) (PM) | |
| • | | | | . | | OBSE | RVED SUR | FACE | DATA | | - | Duration of Shut- | | 34 Hours | |
| Static / | Orlf | ica | Citale one: | Pressure | Flowing | Well He | | Casir | פי | | ubing | | | | |
| Dynamic Property | | | Meter Prover Prass psig (Pm) | . 1 | Temperature Temper | | I Walhard P | | | Wellhead Pressure (P,) or (P,) or (P,) psig psia | | | | ld Produced Barrels) | |
| Shut-In | .15 | Ö | | | | | | | 57 | - " | | 24 | | | |
| Flow | | | | | | | | | | | | | | | |
| | | | | · · | | FLOW | STREAM A | ATTRIE | UTES | | · · · · · · · · · · · · · · · · · · · | | | | |
| Plate Coeffiecient (F _b) (F _e) Mcfd | | Girch one; Motor or Prover Pressure psia | | Press Extension P _m x h | sion Facto | | or Temperature | | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | GOR (Cubic Fe Barrel) | | Flowing Fluid Gravity G | |
| | | | | 1. | (OPEN FL | OW) (DE | LIVERARI | LITY | CALCULA | ATIONS | | | | 1 | |
| P _c) ³ = | | <u>-</u> : | (P _w)2= | | P₀= | | % | | - 14.4) + | ' | : | (P _a) | ² = 0.2 | 207 | |
| $(P_a)^2 \cdot (P_a)^2$ or $(P_a)^2 \cdot (P_a)^2$ | | (P _e) ² - (P _w) ² | | 1. P _a ² - P _a ² 2. P _a ² - P _a ² divided by: P _a ² - P _a ² | 1. P. 2 - P. 2 2. P. 2 - P. 2 3. 1. or 2. 1. or 2. 3. and divide by: P. 2 - P. 2 by: | | p2.p2 | | ackpressure Curve Slope = "n" Or Assigned Standard Slope | | .og [] | Antilog | Open Flow Deliverabilit Equals R x An (Mcfd) | | |
| | | | | | | | _ | | | | | | | | |
| Open Flov | | | | Mcfd @ 14.6 | 1 35 nela | | Dolis | verabil | ity | | | Mcfd @ 14.65 ps | | | |
| | | igned | authority, o | · | | tates tha | | | | make th | | | | RECEIVEI | |
| | | | | aid report is true | | | | | | day of | May | | | | |
| - | | | | | | | _ | _(| Jan | ice | Repl | ey | | MAY 1 2 20 | |
| | | | Witness (| fany) | | | | | 1 | | For C | completiny | K | CC WICH | |
| | | | For Comm | ission | | | - | | | | Chec | ked by | | | |

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|---|
| 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 Clift A-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 |
| staff as necessary to corroborate this claim for exemption from testing. Date: $\frac{5/9}{/1}$ |
| Signature: <u>Production</u> Assistant |

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.