KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: | * | | | (| (See Instru | ctions on Rev | erse Side |)) | | | | | |
|--|-------------------------------|---|--|--|-------------------------|---|--|------------------|---|--------------------------------|---|--------------------|--|
| Open Flow | | | | Test Date | - | | | l No. 15 | | | | | |
| | liverabilty | | | 9/29/10 | | | | 15- | 007-22484-0 | | | _ | |
| Company WOOLSI | | RATING CO | OMPANY, LL | С | | Lease ELLIS | | | | G-4 | Well Number | | |
| County Location BARBER 405' FSL & 990' FEL | | | | | | TWP 33S | | | /W) | | Acres Attributed | | |
| Field AETNA | | | | Reservoir MISSIS | | | Gas Gathering Conn APC | | ection | | | | |
| Completio 3/21/96 | on Date | | | Plug Bac 5280 | ck Total Dep | oth | | Packer S NONE | | | | _ | |
| Casing Size Weight 4.500 10.50 | | | Internal E 4.052 | Diameter | | Set at 5337 | | orations 4 | To 4784 | | _ | | |
| Tubing Size Weight | | | Internal C | Diameter | Set at | Set at | | orations | То | | | | |
| 2.375 4.70 Type Completion (Describe) | | | | 1.995 | id Production | | 4843 | | EN nit or Traveling | Blunger? Yes | Plunger? Yes / No | | |
| SINGLE | | | | WATE | R | | PUMPING | | _ | | | | |
| ANNUL | us | Annulus / Tubir | ng) | % C | % Carbon Dioxide | | | % Nitrog | en | | Gas Gravity - G | | |
| Vertical Depth(H) Pressure Taps 4729 | | | | | | | | | | (Meter F | Run) (Prover) Siz | .e | |
| Pressure | Buildup: | Shut in 9/2 | 28/10 | 20 at | | _ (AM) (PM) | Taken 9/ | 29/10 | 20 | at | (AM) (PM |) | |
| Well on Li | ine: | Started | Started 20 | | | | (AM) (PM) Taken | | | | | | |
| 1 | , | | | | OBSERV | ED SURFACE | DATA | | | Duration of Shut-i | nHc | urs | |
| Static / Dynamic Property | Orifice Size (inches) | Circle one: Pressure Meter Differential Prover Pressure in | | Temperature | Temperature Temperature | | Casing Wellhead Pressure $(P_w) \propto (P_1) \propto (P_2)$ | | Tubing ead Pressure or (P ₁) or (P _c) | Duration (Hours) | Liquid Produced | | |
| | (monou, | psig (Pm) | n) Inches H ₂ C | <u>'</u> | i i | psig | psia | psig | psia | | <u> </u> | _ | |
| Shut-In | | | | | <u> </u> | 172 | | 0 | | 24 | | _ | |
| Flow | | | | | | | | <u> </u> | | <u>.,,</u> | <u> </u> | | |
| | | Circle one: | | | FLOW ST | REAM ATTRI | BUTES | | | | <u> </u> |] | |
| Plate Coefficient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | Press Extension P _m x h | _ Fac | ctor | Flowing Temperature Factor F _{ft} | Deviation Factor F _{pv} | | Metered Flow R (Mcfd) | W GOR (Cubic Fee Barrel) | Flowing Fluid Gravity G _m | | |
| | | | | | | | | | <u> </u> | | | | |
| (P _c) ² = | ; | (P _u) ² | =: | (OPEN FL | • • | VERABILITY) _% (P. |) CALCUL 2, - 14.4) + | | : | (P _a) ² | = 0.207 | _ | |
| (P _a) ² - (F or (P _a) ² - (F | 2 _a) ² | (P _c) ² - (P _w) ² 1. P _c ² 2. P _c ² divided by: 1 | | LOG of formula 1. or 2. and divide p 2. p | | Backpres Slope Assi | sure Curve | | c roe | Antilog | Open Flow Deliverability Equals R x Antil (Mcfd) | og | |
| | | | | * | | | | | | | | | |
| Open Flov | w | | Mcfd @ 1 | 4.65 psia | | Deliverabil | ility | | | Mcfd @ 14.65 psia | B. | | |
| | | | | | | | | | he above repor | ort and that he has | s knowledge of | _ | |
| he facts st | ated ther | ein, and that s | said report is tr | ue and correc | t. Executer | d this the 29 | <u>'</u> | day of | (pvember | | , ₂₀ <u>10</u> | - · | |
| | | Wilman | s (if any) | | | _ | | $\overline{}$ | , <u>o-7</u> | W. | SEC. | EIVED | |
| | | | | | | _ | | | | Company | ner | 9-7-7 0 | |
| | | For Com | ımission | | | | | | Chec | cked by | DEC | £-6 | |
| | | | | | | | | | | | KCC ' | NICH | |

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to re exempt status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC and that the foregoing pressure information and statements contained on this application form are trucorrect to the best of my knowledge and belief based upon available production summaries and lease re of equipment installation and/or upon type of completion or upon use being made of the gas well herein in the state of the state | ecords |
|--|-------------|
| I hereby request a one-year exemption from open flow testing for theELLIS G-4 gas well on the grounds that said well: | |
| 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 Costaff as necessary to corroborate this claim for exemption from testing. Date: | nmission |
| Signature: | <u> </u> |

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.