KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | (| See Instruct | tions on Rev | erse Side |) | | | | | |
|---|-------------------|--|---------------------------------------|--|-------------------------------|---|--|---------------------------|---|-----------------------|------------------------------|---|---|--|
| □ Ор | en Flo | w | | | Test Date | | | | ADI | No. 15 | | | | |
| De | liverab | ilty | | | 09/27/1: | | | | | NO. 15 107-22833-(| 00-00 | | | |
| Company WOOLSEY OPERATING COMPANY, LLC | | | | | Lease POWELL A | | | | 3 | Well Number | | | | |
| County BARBER | | | Location S2 NE SW | | Section 2 | | TWP 34S | | RNG (E/W) 11W | | | Acres Attributed | | |
| Field SCHUPBACH | | | | Reservoir MISSIS | SIPPIAN | | | Gas Gathering Conr APC | | ection | | | | |
| Completion Date 9/17/04 | | | | | Plug Bac 4705 | Plug Back Total Depth 4705 | | h | | et at | | | | |
| Casing Size 4.500 | | | Weight 10.500 | | Internal Diameter 4.052 | | Set at | | Perforations 4586 | | то 4614 | | | |
| Tubing Size 2.375 | | | Weight 4.70 | | Internal Diameter 1.995 | | Set at | | Perforations OPEN | | То | | | |
| Type Con | • | n (De | escribe) | .,. | Type Flui OIL, W | d Production | n | | Pump Un PUMP | it or Traveling | Plunger? Yes | / No | | |
| Producing Thru (Annulus / Tubing ANNULUS | | | 3) | % C | arbon Dioxi | de % Nitrogen | | en | Gas Gravity - G | | | | | |
| Vertical E | | 1) | | | | Pres | sure Taps | | | | (Meter | Run) (F | Prover) Size | |
| Pressure | Buildu | ıp: | Shut in09/ | 27/13 | 0 at | | (AM) (PM) | Taken_09 |)/28/13 | 20 | at | | (AM) (PM) | |
| Well on Line: | | | | | 20 at | | (AM) (PM) | | | 20 | at | | (AM) (PM) | |
| | | | | | | OBSERVE | D SURFACE | DATA | | | Duration of Shut | -in | ——— Hours | |
| Static / Dynamic Property | Dynamic Size | | Circle one: Meter Prover Pressu | | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) | | Tubing Wellhead Pressure (P_w) or (P_1) or (P_a) | | Duration (Hours) | Liquid Produced (Barrels) | | |
| Shut-in | | | psig (Pm) | Inches H ₂ 0 | | | psig 100 | psia | 130 psia 24 | | 24 | | | |
| Flow | | | | | | | | | | | | | | |
| | | | | · | | FLOW STR | REAM ATTRI | BUTES | | | | | _ | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | Press Extension P _m x h | Extension Fact | | tor Temperature | | Deviation Metered Flo Factor R F _{pv} (Mcfd) | | w GOR (Cubic Fi Barrel | eet/ | Flowing Fluid Gravity G _m | |
| : | | | | | | | | | | | | | | |
| (P _c) ² = | | | (D.)3 | | • | | <mark>'ERABILITY)</mark> % (P | | | | |) ² = 0.5 | 207 | |
| $ \begin{array}{c c} (P_{o})^{2} - (P_{\bullet})^{2} \\ or \\ (P_{o})^{2} - (P_{d})^{2} \end{array} $ | | | (P _w) ² = | Choose formula 1 or 2 1. P ₀ ² - P ₈ ² 2. P ₂ ² - P ₃ ² | LOG of formula 1. or 2. | | % (P _c - 14.4) + Backpressure Curve Slope = "n" or Assigned | | n x LOG | | (P _d | Open Flow Deliverability Equals R x Antilog | | |
| (F ₀) (| F _d)- | | | divided by: Pc2 - Pw | and divide 2 by: | P _c ² - P _w ² | | rd Slope | | | | | (Mcfd) | |
| | | | | | | | | | | | | | | |
| Open Flo | w | | | Mcfd @ 14 | .65 psia | | Deliverabi | lity | | | Mcfd @ 14.65 ps | ia | | |
| The | unders | iane | d authority o | n behalf of the | Company s | states that h | ne is duly au | thorized to | n make th | e ahove reno | ort and that he h | as kno | wledge of | |
| | | - | * | aid report is true | | | • | | | ECEMBER | and making the | | 20 13 | |
| | | | Winner | if anyl | KCC | WiCh | . 17 \ | | Vin | l Sa | Mary La | _ | | |
| | | | Witness (| · | NEC | 3) 2 0 | وا | | | | 0 | | | |
| | | | For Comm | soofUFI | טבט | ECEIVE | | 31-13 | • | Cne | cked by | | | |
| | | | | | K | エンにいい | مير ادا | | | | | | | |

| exempt status ur and that the fore correct to the be of equipment ins | er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC poing pressure information and statements contained on this application form are true and of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. |
|--|---|
| | est a one-year exemption from open flow testing for the POWELL A-3 |
| jas weii on the g | ounds 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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing. |
| Date: 12/17/13 | |
| <u> </u> | |
| | Signature: Un R Hallough |

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.