KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | | (| See Instruc | tions on Re | verse Side |)) | | | | | |
|---|-------------|---|--|-------------------------------|--|--|--|--|---------------|-------------------------------------|--|-------------------------------|------------------------------|---|--|
| Op | en Flov | v | | | | Tool Date | | | | A Di | I NIA 15 | | | | |
| De | liverabi | lty | | | | Test Date 6/22/11 | ∌: | | | | l No. 15 ·057-20163- | 0000 | | | |
| Company WOOLS | | PER | ATING CO | MP | ANY, LLC | | | Lease AUSTIN | 1 | | | | Well Numl | | |
| County Location FORD Appx NE NE SW | | | Section 11 | | TWP 28S | | | /W) | Acres Attribu | | ributed | | | | |
| Field PLEASA | NT V | ALLI | ĒΥ | | | Reservoir MISSIS | r SIPPIAN | | | | thering Conn K FIELD SE | | | | |
| Completion Date 2/27/81 | | | | Plug Back Total Depth 5092 | | | | Packer : NONE | | | | | | | |
| Casing Size 4.500 | | | Weight 10.50 | | | Internal Diameter 4.052 | | Set at 4956 | | Perforations 4956 | | то 5033 | | | |
| Tubing Size 2.375 | | | Weight 4.70 | | | Internal Diameter 1.995 | | Set at 5028 | | Perforations OPEN | | То | | | |
| Type Completion (Describe) SINGLE | | | | Type Fluid Production WATER | | | Pump Unit or Traveling Plunger? Yes / No PUMPING | | | | • | | | | |
| Producing | - | (Ann | nulus / Tubin | g) | | % C | Carbon Diox | ide | | % Nitro | gen | Gas Gi | ravity - G | | |
| Vertical D | |) | | | | | Pres | ssure Taps | | | | (Meter | Run) (Prov | /er) Size | |
| Pressure | Buildup | p: 5 | Shut in6/2 | 1/1 | 1 20 |) at | | (AM) (PM) | Taken 6/ | 22/11 | 20 | at | (AI | И) (РМ) | |
| Well on Line: | | Started | | 20 |) at | at | | Taken | | 20 | at | (AM) (PM) | | | |
| | 1 | | | | | | OBSERVE | ED SURFAC | E DATA | _ | | Duration of Shut | -in | Hours | |
| Static / Dynamic Property | ynamic Size | | Meter Prover Pressure | | Pressure Differential in Inches H ₂ 0 | tial Flowing West | | Il Head Casin Derature (P _w) or (P _t psig | | Wellhe | Tubing ead Pressure or (Pt) or (Pc) psia | Duration (Hours) | Liquid Produced (Barrels) | | |
| Shut-In | | | | | 2 | | | 110 | psia | 125 | рена | 24 | | | |
| Flow | | | | | | | | | | | <u> </u> | | <u> </u> | | |
| П | - | | | 1 | | 1 | FLOW ST | REAM ATTR | IBUTES | | | | | | |
| Plate Coefficcient (F _b) (F _p) Mcfd | | Circle one: Meter or Prover Pressure psia | | | Press Extension √ P _m x h | Gravity Factor F ₀ | | Temperature Fa | | viation Metered Flow actor R (Mcfd) | | w GOR (Cubic Fe Barrel) | set/ | Flowing Fluid Gravity G _m | |
| | | | | | | (OPEN FL | OW) (DELI) | /ERABILITY |) CALCUL | ATIONS | | | | | |
| (P _c) ² = | | _: | (P _w) ² = | _ | : | P _d = | | | c - 14.4) + | | : | |) ² = 0.207 | | |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | | (P | (P _e)²- (P _w)² | | ose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_c^2$ led by: $P_c^2 - P_w^2$ | LOG of formula 1. or 2. and divide by: | | Backpressure Curv Slope = "n" or Assigned Standard Slope | | n x LOG | | Antilog | Delive Equals R | Open Flow Deliverability Equals R x Antilog (Mcfd) | |
| | | | | | | | | | | | | | | | |
| Open Flo | w | | | | Mcfd @ 14.6 | 55 psia | | Deliverat | oility | | | Mcfd @ 14.65 ps | ia | | |
| The | undersi | aned | I authority, c | n b | ehalf of the | Company, s | states that I | he is duly a | uthorized t | o make t | he above rep | ort and that he ha | as knowle | dge of | |
| | | - | • | | report is true | • • | | · · | | day of _ | November | | . 20 | 11 | |
| | | | | | | | | - | Tels | · RC | Lalla | yku_ | | EIVED | |
| | | | Witness | (if any | y) | | | = | | | <i></i> | Company | DEC : | 3 0 2011 | |
| | | | For Comi | missio | on | | | | | | Che | cked by | CC N | /ICHIT/ | |

| | er penalty of perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC |
|--|---|
| and that the foregorrect to the best of equipment insta I hereby requa | oing 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 llation 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 AUSTIN A-2 bunds 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. |
| | Signature: <u>What Hollang</u> Title: FIELD MGR. |

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.