KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | • | | (| See Instruc | tions on Re | verse Side | e) | , \ | | |
|---|-------------------------------|-----------|---|---|---|--|--|--|---|-----------------------------|--|--|
| Open Flow Deliverabilty | | | Test Date: 12/4/2010 | | | API No. 15 15-145,20,568 - <i>OO</i> OO | | | | | | |
| Company White & Ellis Drilling, Inc. | | | | | | Lease Kellems | s | WI | | | Well Number | |
| County Pawnee | | | Location C 1/2 NE NW | | Section 7 | | TWP 23S | | RNG (EA | W) | | Acres Attributed |
| Field Zook Extension | | | | | Reservoir Mississippi | | | | Gas Gath | en Mid | stream | |
| Completion Date 2/6/79 | | | | | Plug Bad 4150 | k Total Dep | th | | Packer S | et at | | |
| Casing Size 4 1/2" | | | Weight 10.5# | | Internal Diameter 3.958 | | Set at 4179 | | Perforations 4091 | | To 4099 | |
| Tubing Size 2 3/8" | | | Weight 4.6# | | Internal Diameter 1.901 | | Set at 4140 | | Perforations | | То | |
| Type Completion (E Single (Ga | | | escribe) | ` | Type Flui salt wa | d Productio I ter | n | Pump Unit or Trav Yes - Rod | | it or Traveling Rod Pu 1 | Plunger? Yes | / No |
| Producing Thru (Annulus / Tubing) Annulus | | | | % C | % Carbon Dioxide | | | % Nitrogen Gas Gravity - G _g | | | ravity - G _g | |
| Vertical D | epth(H |) | | ······ | | Pres | sure Taps | | | | (Meter | Run) (Prover) Size |
| Pressure | Buildup | o: \$ | Shut in12/3 | 20 | 10 at 1 | :00PM | (AM) (PM) | Taken_12 | 2/4 | 20 | 10 at 1:00Pl | M (AM) (PM) |
| Well on L | ine: | ; | Started | 20 |) at | | (AM) (PM) | Taken | | 20 | at | (AM) (PM) |
| | | | | , | | OBSERVE | D SURFAC | | T | | Duration of Shut- | -inHours |
| Static / Dynamic Property | namic Size | | Circle one: Meter Prover Pressur psig (Pm) | Pressure Differential In Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Tubing Wellhead Pressure (P_w) or (P_t) or (P_c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | Shut-In .375 | | | 2 | | | psig 80 | psia | paig | psia | 24 hrs 0 | |
| Flow | | | | | | | | | <u> </u> | | | |
| Plate | | | Circle one: | D | | | Flowing | | | | | Flowing |
| Coeffiecient | | | Meter or ver Pressure psia | Press Extension P _m xh | Grav Fact | or Temperature | | Fa | Factor | | I Flow GOR (Cubic Feet/ Gravit Gravit G _m | |
| | | | | | | | | | | | | |
| /D \2 | | | (D.)2 | | • | • • | /ERABILITY % (| <mark>/) CALCUL</mark> P _c - 14.4) + | | ٠ | (P _a) (P _d) | $0^2 = 0.207$ |
| $(P_c)^2 = \frac{(P_c)^2 - (P_c)^2}{(P_c)^2 - (P_c)^2}$ | P _a) ² | _ · (P | (P _w) ² - (P _w) ² | hoose formula 1 or 2: 1. P _c ² -P _a ² 2. P _c ² -P _d ² vided by: P _c ² -P _w ² | LOG of formula 1. or 2. and divide | | Backpre Slo | essure Curve ope = "n" or ssigned dard Slope | n x L | .og [] | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | | uero como | | | | | | | | |
| Open Flo | | | | Mcfd @ 14. | 65 psia | | Delivera | bility | <u> </u> | | Mcfd @ 14.65 ps | sia |
| | | anec | 1 authority on | | | states that | <u> </u> | | to make th | | rt and that he h | |
| | | - | - | d report is true | | | | | day pr | | -1 | . 20 10 |
| | <u>Qia</u> | n | m. Ho | selv | | | | 4 | Wille | | /// | RECEIVE |
| | | | Witness (if | eny) | | | | | | Fort | company | DEC 1 3 2 |
| | | | For Commi | ssion | | | | - | | Che | cked by | |

KCC WICHITA

| | are under penalty of perjury under the laws of the state of Kansas that I am authorized to request atus under Rule K.A.R. 82-3-304 on behalf of the operator White & Ellis Drilling, Inc. |
|----------------------------------|--|
| correct to of equipr I her | the foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records ent installation and/or upon type of completion or upon use being made of the gas well herein named. by request a one-year exemption from open flow testing for the Kellems #2 |
| gas well | on the grounds that said well: |
| l furt | 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 there agree to supply to the best of my ability any and all supporting documents deemed by Commission |
| | ecessary to corroborate this claim for exemption from testing. |
| Date: <u>12</u> | 08/2010 |
| | Signature: |
| | Title: Dallas Flowers, Production Superintendent |

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.

DEC 1 3 2010