Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

| Type Test | t: | | | (| 'See Instruct | tions on Reve | erse Side | e) | | | | | |
|---|--------------|---|---|--|-----------------------|--|---------------------|--|---|--|---|--|--|
| ✓ Open FlowDeliverabilty | | | | Test Date: 12/12/2013 | | | | API No. 15 025-20633 – 0000 | | | | | |
| Company MIDCO Exploration, Inc. | | | | | Lease SMITH | | | | | #1 | Well Number #1 | | |
| County Location CLARK NE | | | | Section 1 | | TWP 34S | | RNG (E/W) 24W | | | Acres Attributed | | |
| Field KREIGER CREEK | | | | | Reservoir CHESTER | | | Gas Gat | hering Conne | ection | | | |
| Completion Date 12/17/1982 | | | | Plug Bac | Plug Back Total Depth | | | Packer S | iet at | | | | |
| Casing Size Weight 4.5 10.5 | | | | Internal I 4.052 | Diameter | Set at | | Perforations 5409 | | To 5419 | | | |
| Tubing Size Weight 2.375 4.7 | | | Internal 1 | Diameter | Set at 5400 | | Perforations | | То | То | | | |
| Type Completion (Describe) SINGLE | | | | Type Flui | Type Fluid Production | | | Pump Unit or Traveling Plunger? Yes / No PUMPING UNIT | | | | | |
| Producing | g Thru (A | Annulus / Tubing) | % C | % Carbon Dioxide | | | | en | Gas Gr | avity - G _g | | | |
| Vertical Depth(H) 5419 | | | | | Pressure Taps FLANGE | | | | | (Meter | Run) (Prover) Size | | |
| Pressure | Buildup: | Shut in 12 | 0_13,10 | 13, 10:00 (AM) (BM) | | | 12/1 | 2 20 | 13 _{at} 10:0 | 00 (AM) (PM) | | | |
| Well on L | ine: | Started 12 | /122 | o <u>1</u> 3 _{at} <u>1</u> (| 0:00 | (AM) (PM) 1 | aken | | 20 | at | (AM) (PM) | | |
| | | | , | | OBSERVE | D SURFACE | DATA | | | Duration of Shut- | in 24 Hours | | |
| Static / Orifice Dynamic Size Property (inches) | | Meter Prover Pressur | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P _w) or (P _t) or (P _c) psig psia | | Tubing Wellhead Pressure $(P_w) \bowtie (P_l) \text{ or } (P_e)$ psig psia , | | Duration (Hours) | Liquid Produced (Barrels) | | |
| Shut-In | | | | | | 80 | | | | | | | |
| Flow | | | | | | | | | | | | | |
| | | 1 | | 1 | FLOW STR | EAM ATTRIE | UTES | | | | <u> </u> | | |
| Plate Goeffieci (F _b) (F Mcfd | ient p) / | Circle one: Meter or Prover Pressure psia | Press Extension √ P _m x h | Grav Fac F | tor T | Flowing Factor | l Deviation | | Metered Flow Fl (Mcfd) | GOR (Cubic Fe Barrel) | Gravity | | |
| L | | | | | | | | | - · · · · · · · · · · · · · · · · · · · | | | | |
| (P _c) ² = | | : (P _w) ² =_ | : | (OPEN FLO | . , | ERABILITY) (% (P, | CALCUL - 14.4) + | | : | (P _a) (P _d) | ² = 0.207 ² = | | |
| (P _c) ² - (F | | (P _e) ² - (P _w) ² | 1. P _c ² - P _d ² 2. P _c ² - P _d ² vided by: P _c ² - P _d ² | LOG of formula 1. or 2. and divide D 2 D 2 | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | n x LOG | | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) | | |
| | | | | | | | | | | | | | |
| Open Flow Mcfd @ 14.8 | | | 5 psia | | Deliverability | | Mcfd @ | | Mcfd @ 14.65 ps | 14.65 psia | | | |
| | | ned authority, on | | and correc | t. Executed | this the 2 | 7th_ | o make th | e above repoi Decembe | rt and that he ha | as knowledge of, 20 | | |
| | | Witness (if a | iny) | K | CC W | | • | MIDO | O EXPLOF | CATION, IN | IC. | | |
| | | For Commis | | | JAN 02 | 2014 _ | | | | ked by | | | |
| | | i or coming | , | | | | | | CHEC | ~~~ uy | | | |

| 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 MIDCO Exploration, 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 <u>Smith</u> #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. 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 Commission staff as necessary to corroborate this claim for exemption from testing. |
| Date: 12/27/2013 Signature: |

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 1S 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.