KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test: | | | | (| See Instruc | tions on Re | verse Side |) | | | |
|---|---|---|--|--|---------------|--|--|--|------------------------------|--|---|
| Open Flow Deliverabilty | | | | Test Date: | | | | API No. 15 15007231880000 | | | |
| Company M & M Exploration, Inc. | | | | Lease Z Bar | | | | Well Number 23-2 | | | |
| County Location Barber NW/4 NW/4 NE/4 | | | Section 23 | | | | RNG (E/W) 15W | | Acres Attributed 160 | | |
| Field Aetna | | | | Reservoir Mississippian | | | Gas Gathering Connection M&M to Quest and ONEOK | | | | |
| Completion Date November 9, 2007 | | | | Plug Back Total Depth | | | | Packer Set at None | | | |
| Casing Size Weight 4.5 10.5 | | | Internal (4.052 | Diameter | | | | rations 4' | To 4910' | To 4910' | |
| Tubing Size 2.375 | Tubing Size Weight | | | | Diameter | Set at 4927' | | Perforations | | То | |
| Type Completion (Describe) Single (Gas) | | | | Type Fluid Production Saltwater/Crude | | | Pump Unit or Traveling Plunger? Yes / No Pump Unit | | | | |
| Producing Thru (Annulus / Tubing) Tubing | | | | % Carbon Dioxide 0.118 | | | % Nitrogen 0.602 | | Gas Gravity - G _g | | |
| Vertical Depth(H) | | | | Pressure Taps | | | | 0.002 | | | un) (Prover) Size |
| Pressure Bui | • | | v. 20 ₂₀ | | | | | | | 10 at at | (, (, |
| | | | | | OBSERVE | D SURFACI | E DATA | | | Duration of Shut-ii | 24 Hours |
| Dynamic | Orifice Size (inches) Prover Pressu psig (Pm) | | Pressure Differential in Inches H ₂ 0 | Flowing Well Head Temperature t | | Casing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c) psig psia | | Duration (Hours) | Liquid Produced (Barrels) |
| Shut-In | | | | | | 128 | 142.4 | poig | psia | | |
| Flow | | | | | | | | | | | |
| | 1 | Circle one: | 1 | | FLOW STF | REAM ATTR | IBUTES | Т | | | |
| Plate Coeffiecient (F _b) (F _p) Mcfd | | Meter or over Pressure psia | Press Extension √ P _m x h | Gravity Factor F _g | | Flowing Temperature Factor F ₁₁ | mperature Factor | | Metered Flow R (Mcfd) | (GOR (Cubic Fee Barrel) | Flowing Fluid Gravity G_m |
| | | | | (OPEN EL | OW) (DELIV | ERABILITY | CALCUI | PACITA | | | |
| (P _c) ² = | : | (P _w) ² = | : | • | | , |) | | : | (P _a)² (P _d)² | = 0.207 = |
| $(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$ | ² (F | (P _c) ² - (P _w) ² (P _c) ² - (P _w) ² 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ² | | LOG of formula 1. or 2. and divide by: | | Backpressure Curve Slope = "n" or Assigned Standard Slope | | n x 106 | | Antilog | Open Flow Deliverability Equals R x Antilog (Mcfd) |
| | | | , 1884 to | | | | | | | | |
| Open Flow Mcfd @ 14.6 | | | 5 psia Deliverabilit | | | ility | Mcfd @ 14.65 psia | | | | |
| | lersigned | d authority, o | | | states that h | | | make th | | rt and that he has | |
| | | | aid report is true | | | | Oth | day of N | lovember | | , ₂₀ <u>10</u> . |
| | | Witness (i | if any) | | | _ | | Me | For C | Company | RECEIVED |
| | | For Comm | | | | _ | | | | | DEC 0.3 2010 |

| 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 M&M 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 Z Bar 23-2 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: November 30, 2010 |
| 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 **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.