

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(Rev. 03/00)

Type Test:

- Open Flow
 Deliverability

Test Date: 12/23/10

API No. 15-033-20577-0001

Company MIDCO EXPLORATION, INC.		Lease TODD OWWO			Well Number #1
County COMANCHE	Location C NW NW	Section 3	TWP 33S	RNG (E/W) 18W	Acres Attributed
Field NESCATUNGA SW		Reservoir PAWNEE/ALTAMONT		Gas Gathering Connection ONEOK	
Completion Date 11/19/99		Plug Back Total Depth 5130		Packer Set at	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.052	Set at	Perforations 5060-5118	To
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 5125	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production WATER		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No PUMPING UNIT	
Producing Thru (Annulus / Tubing) CASING		% Carbon Dioxide		% Nitrogen	Gas Gravity - G _s
Vertical Depth(H) 5089		Pressure Taps FLANGE			(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in 12/22/10 PS at 10:00 (AM) (PM) Taken 12/23/10 PS at 10:00 (AM) (PM)					
Well on Line: Started 12/23/10 PS at 10:00 (AM) (PM) Taken PS at (AM) (PM)					

OBSERVED SURFACE DATA

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in							70				
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _v) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times H_w}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{dv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_i)² = _____ ; (P_w)² = _____ ; P_e = _____ % ; (P_e - 14.4) + 14.4 = _____ ; (P_w)² = 0.207 ; (P_i)² = _____

(P _i) ² · (P _w) ² or (P _w) ² · (P _i) ²	(P _i) ² · (P _w) ²	Choose formula 1 or 2: 1. P _i ² · P _w ² 2. P _w ² · P _i ² divided by: P _i ² · P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_i^2 - P_w^2}{P_i^2 \cdot P_w^2}$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG $\left[\frac{P_i^2 - P_w^2}{P_i^2 \cdot P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 4th day of January, 2011

MIDCO EXPLORATION, INC. **RECEIVED**
For Company
JAN 10 2011
Checked by
KCC WICHITA

Witness (if any) _____
For Commission _____

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 Todd #1-3 OWWO 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: 1/4/11

Signature: 

Title: Vice-President

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.