

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(Rev. 2/98)

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date: 12/23/10

API No. 15 -033-21218 - 0000

Company MIDCO EXPLORATION, INC.			Lease DALE		Well Number # 4
County COMANCHE	Location NW/4	Section 34	TWP 32S	RNG (E <sup>W</sup> ) 18W	Acres Attributed
Field NESCATUNGA SW		Reservoir SWOPE		Gas Gathering Connection ONEOK	
Completion Date 6/27/01		Plug Back Total Depth 4942		Packer Set at NONE	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.090	Set at 5770	Perforations 4732	To 4734
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4730	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PUMPING UNIT	
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide		% Nitrogen	
				Gas Gravity - G .665	

Vertical Depth(H) 4733	Pressure Taps FLANGE	(Meter Run) (Prover) Size 2"
Pressure Buildup: Shut in 12/22/10 at 10:00 (AM) (PM) Taken 12/23/10 at 10:00 (AM) (PM)		
Well on Line: Started 12/23/10 at 10:00 (AM) (PM) Taken 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 <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In											
Flow						103					

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>s</sub> ) Mcd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times H_w}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>dv</sub>	Metered Flow R (Mcd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>w</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>e</sub>)<sup>2</sup> = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ ; P<sub>e</sub> = \_\_\_\_\_ % ; (P<sub>e</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>w</sub>)<sup>2</sup> = 0.207 ; (P<sub>e</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>e</sub> ) <sup>2</sup> · (P <sub>w</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> · (P <sub>e</sub> ) <sup>2</sup>	(P <sub>w</sub> ) <sup>2</sup> · (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2 1. P <sub>e</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup> 2. P <sub>e</sub> <sup>2</sup> · P <sub>e</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by: $\frac{P_e^2 \cdot P_w^2}{P_e^2 \cdot P_w^2}$	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog Mcd

Open Flow Mcd @ 14.65 psia      Deliverability Mcd @ 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 14th day of January, 2011

Witness (if any) \_\_\_\_\_  
For Commission \_\_\_\_\_

MIDCO EXPLORATION, INC.  
For Company  
Checked by \_\_\_\_\_

RECEIVED

JAN 10 2011

KCC WICHITA

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 date #4 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.