

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date: 10/1/10

API No. 15  
15-189-21,155-~~00000~~00-01

Company HOPE Company LLC		Lease Kinser		Well Number 2-4A	
County Stevens	Location SW/4	Section 20	TWP 34S	RNG (E/W) 36W	Acres Attributed 320
Field Hanke		Reservoir Lower Morrow		Gas Gathering Connection Oneok	
Completion Date 3/27/90		Plug Back Total Depth 6469		Packer Set at N/A	
Casing Size 5 1/2	Weight 14#	Internal Diameter	Set at 6798	Perforations 6278	To 6284
Tubing Size 2 7/8	Weight 6.5#	Internal Diameter	Set at 6289	Perforations 6310	To 6324
Type Completion (Describe) Foam/Sand Frac		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No Plunger	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 6800		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in <u>10/1</u> 20 <u>10</u> at <u>8:00</u> (AM) (PM) Taken <u>10/2</u> 20 <u>10</u> at <u>8:00</u> (AM) (PM)					
Well on Line: Started <u>10/2</u> 20 <u>10</u> at <u>8:00</u> (AM) (PM) Taken <u>10/3</u> 20 <u>10</u> at <u>8:00</u> (AM) (PM)					

### OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						600		420		24	0
Flow						320		60		24	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_c)^2 =$  \_\_\_\_\_ :  $(P_w)^2 =$  \_\_\_\_\_ :  $P_d =$  \_\_\_\_\_ %  $(P_c - 14.4) + 14.4 =$  \_\_\_\_\_ :  $(P_a)^2 = 0.207$   
 $(P_d)^2 =$  \_\_\_\_\_

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	Choose formula 1 or 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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability 26 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 3rd day of October, 20 10.

Witness (if any) \_\_\_\_\_ RECEIVED 10/6/10 For Company [Signature]  
For Commission \_\_\_\_\_ Checked by \_\_\_\_\_

OCT 06 2010  
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 HOPE Company LLC 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 Kinser 2-4A 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: 10/3/10

Signature: Cardenzel Emight  
Title: Managing Member

**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.

RECEIVED  
OCT 06 2010  
KCC WICHITA

Lane Walmateer / Hemmen

Form G-2  
(Rev. 7/03)

RECEIVED

OCT 04 2010

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

(See Instructions on Reverse Side)

KCC WICHITA

Type Test:

- Open Flow
- Deliverability

Test Date:

10/1/10

API No. 15

15-189-21,155-001H

Company HOPE Company LLC		Lease Kinser		Well Number 2-4A	
County Stevens	Location SW/4	Section 20	TWP 34S	RNG (E/W) 36W	Acres Attributed 320
Field Hanke		Reservoir Lower Morrow		Gas Gathering Connection Oneok	
Completion Date 3/27/90		Plug Back Total Depth 6469		Packer Set at N/A	
Casing Size 51/2	Weight 14#	Internal Diameter	Set at 6798	Perforations 6278	To 6284
Tubing Size 27/8	Weight 6.5#	Internal Diameter	Set at 6289	Perforations 6310	To 6324
Type Completion (Describe) Foam/Sand Frac		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No Plunger	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen Gas Gravelly - G <sub>g</sub>	
Vertical Depth(H) 6800		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 10/1 2010 at 8:00 (AM) (PM)		Taken 10/2 2010 at 8:00 (AM) (PM)			
Well on Line: Started 10/3 2010 at 8:00 (AM) (PM)		Taken 10/3 2010 at 8:00 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in 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>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						600		420		24	0
Flow						320		60		24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>0</sub> ) (F <sub>p</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{F_p \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>s</sub>

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>1</sub>)<sup>2</sup> = 0.207  
(P<sub>2</sub>)<sup>2</sup> =

(P <sub>2</sub> ) <sup>2</sup> =	(P <sub>w</sub> ) <sup>2</sup> =	P <sub>0</sub> = %	(P <sub>c</sub> - 14.4) + 14.4 =				
(P <sub>2</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>2</sub> ) <sup>2</sup> - (P <sub>0</sub> ) <sup>2</sup>	(P <sub>2</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>2</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>2</sub> <sup>2</sup> - P <sub>0</sub> <sup>2</sup> divided by: P <sub>0</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: P <sub>2</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow

Mcfd @ 14.65 psia

Deliverability

2.6

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 3rd day of October, 20 10

*Lawrence Smith*  
For Company  
Member

Witness (if any)

For Commission

Checked by

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 HOPE Company LLC 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 Kinser 2-4A 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: 10/3/10

Signature: *Carl Engel Emig*

Title: Managing Member

**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.

RECEIVED

OCT 04 2010

KCC WICHITA