

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
12-12-2011

API No. 15  
15-033-21231 - 00-00

Company Pickrell Drilling Company, Inc.			Lease Gates "H"		Well Number 1
County Comanche	Location 120' W of C W/2 SW	Section 18	TWP 32S	RNG (E/W) 18W	Acres Attributed
Field Coldwater Twp		Reservoir Mississippi	Gas Gathering Connection Oneok Field Services		
Completion Date 07-03-01		Plug Back Total Depth 5286	Packer Set at		
Casing Size 4 1/2	Weight 10.5	Internal Diameter 4.052	Set at 5322	Perforations 5144	To 5150
Tubing Size 2 3/8	Weight 4.7	Internal Diameter 1.995	Set at 5149	Perforations Open Ended	To
Type Completion (Describe) Single		Type Fluid Production	Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes / No		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.180	% Nitrogen 1.140	Gas Gravity - G <sub>g</sub> 0.604	
Vertical Depth(H) 5147		Pressure Taps Flange		(Meter Run) ( <del>Prove</del> ) Size 2.00	
Pressure Buildup: Shut in 12-9		20 11 at 10:00	(AM) (PM) Taken 12-12	20 11 at 10:00	(AM) (PM)
Well on Line: Started 12-12		20 11 at 10:00	(AM) (PM) Taken	20	at (AM) (PM)

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### OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	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>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						235		P		72	
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>v</sub> ) (F <sub>g</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>w</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$\therefore (P_w)^2 = 0.207$   
 $(P_w)^2 = \dots$

$(P_c)^2 = \dots$  ;  $(P_w)^2 = \dots$  ;  $P_g = \dots$  % ;  $(P_c - 14.4) + 14.4 = \dots$  ;

$(P_c)^2 \cdot (P_w)^2$ or $(P_w)^2 \cdot (P_c)^2$	$(P_w)^2 \cdot (P_w)^2$	Choose formula 1 or 2: 1. $P_w^2 \cdot P_g^2$ 2. $P_w^2 \cdot P_g^2$ divided by: $P_w^2 \cdot P_w^2$	LOG of formula 1, or 2, and divide by: $P_c^2 \cdot P_w^2$	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

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, 20 12.

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

*Jack G. [Signature]*  
\_\_\_\_\_  
For Company  
\_\_\_\_\_  
Checked

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 Pickrell Drilling Company, 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 Gates "H" #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

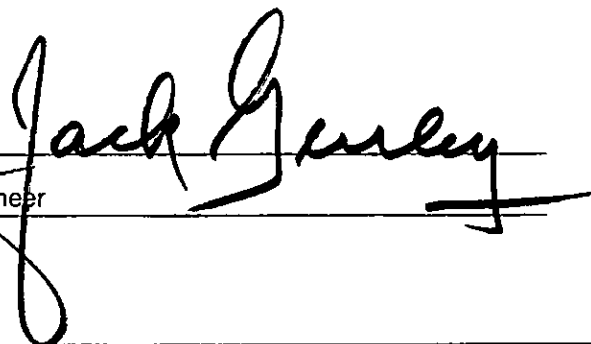
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing..

Date: January 4, 2012

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Signature: \_\_\_\_\_

Title: Engineer



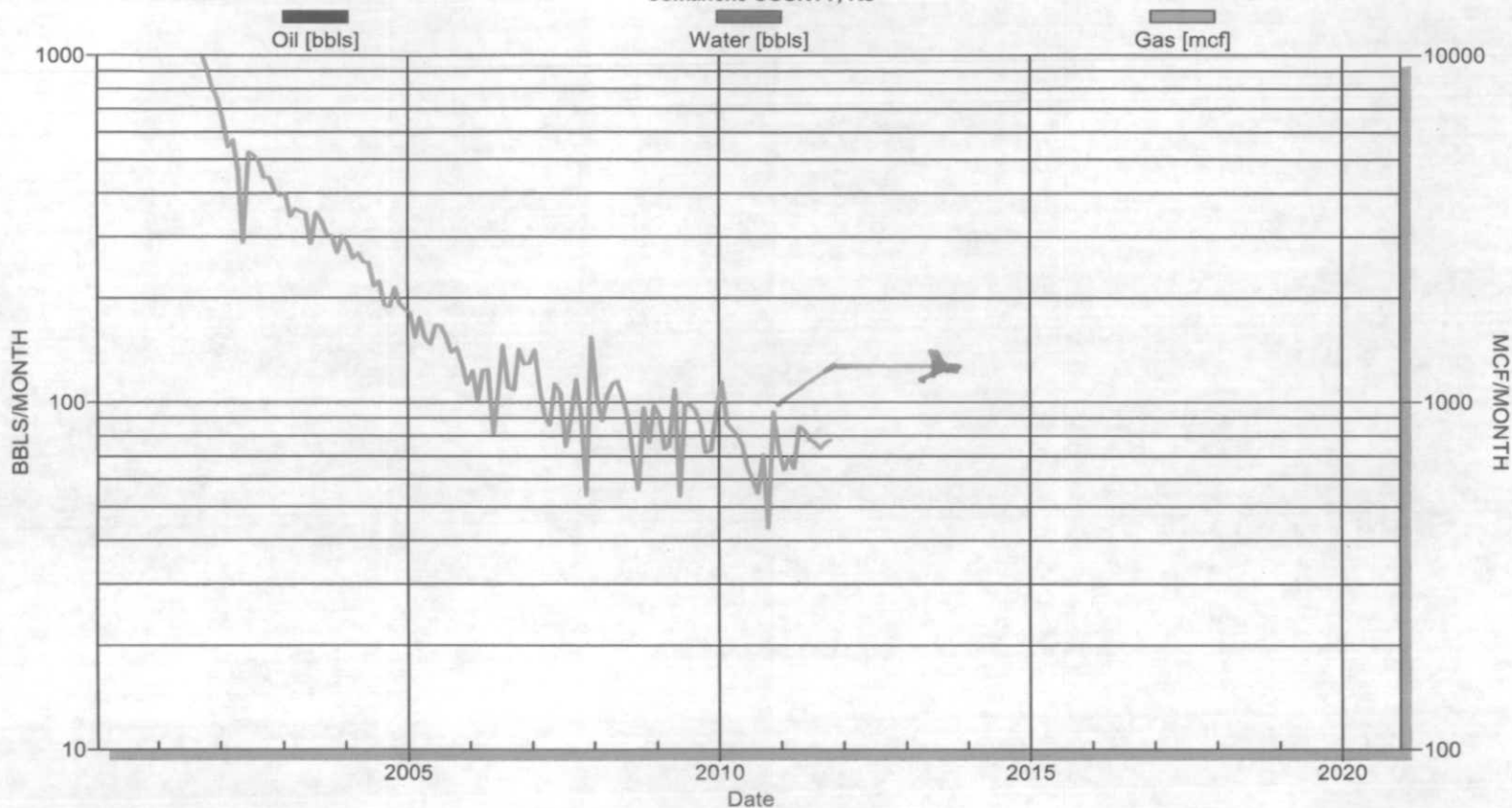
**Instructions:** If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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.

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**GATES 'H' 1**  
Comanche COUNTY, KS



Operator: Pickrell Drilling Company, Inc.  
Field: COLDWATER TOWNSITE  
Reservoir:

Average daily rate for 10  
months Jan. 2011 thru Oct.  
2011 = 24.5 MCFD

Cum Oil [bbls]: 0  
Cum Gas [mcf]: 251834  
Cum Water [bbls]: 0

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