

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date: 12/29/2012

API No. 15
15-055-22040-0000

Company Atlas Operating LLC		Lease Garden City		Well Number 13-20	
County Finney	Location SW-SW-NE-NE	Section 20	TWP 22S	RNG (E/W) 33W	Acres-Attributed 640
Field Hugoton		Reservoir Chase Group		Gas Gathering Connection ONEOK	
Completion Date 03/02/2009		Plug Back Total Depth 2720		Packer Set at	
Casing Size 4.5"	Weight 9.5#	Internal Diameter 4.052"	Set at 2751'	Perforations 2554	To 2559
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 1.995"	Set at 2583'	Perforations 2565	To 2568
Type Completion (Describe) Single (Gas)		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No Pump Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.1820		% Nitrogen 33.5840	
Vertical Depth(H)		Pressure Taps Pipe		(Meter Run) (Prover) Size 4	
Pressure Buildup: Shut in 12/29 20 12 at 8:0 AM (AM) (PM)		Taken 12/31 20 12 at 8:0 AM (AM) (PM)			
Well on Line: Started 20 at (AM) (PM)		Taken 20 at (AM) (PM)			

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OBSERVED SURFACE DATA								Duration of Shut-in 48 Hours			
Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure (psig (Pm))	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						32		50		48	
Flow											

FLOW STREAM ATTRIBUTES								
Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(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 ₂) 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: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	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 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 30th day of January, 20 13.

Witness (if any)

For Company

For Commission

Checked by

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Form G-2
(Rev. 7/03)

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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 Atlas Operating 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 Garden City 13-20 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: 01/30/2013

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.