

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

Test Date:
10/1/2010

API No. 15
075-30006 - 0000

Company Chesapeake Operating, Inc.		Lease St Columbans		Well Number 1-12	
County Hamilton	Location NE SW	Section 12	TWP 22S	RNG (E/W) 41W	Acres Attributed
Field Bradshaw		Reservoir Winfield		Gas Gathering Connection OneOk Energy Services	
Completion Date 12/26/64		Plug Back Total Depth 2760		Packer Set at	
Casing Size 5.5	Weight 14.0	Internal Diameter 5.012	Set at 2772	Perforations 2746	To 2746
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 2759	Perforations	To
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		% Nitrogen	
Vertical Depth(H) 2773		Pressure Taps		Gas Gravity - G _g .761	
				(Meter Run) (Prover) Size 4.026	

Pressure Buildup: Shut In 10/1 at 7:00 (AM) (PM) Taken 10/2 at 7:00 (AM) (PM)
Well on Line: Started 20 at _____ (AM) (PM) Taken 20 at _____ (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 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						57	71.4	45	59.4	24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _o) (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

(P₁)² = 0.207

(P_o)² = _____

(P_o)² = _____ : (P_w)² = _____ : P_o = _____ % (P_c - 14.4) + 14.4 = _____ :

(P _o) ² - (P ₁) ² or (P _o) ² - (P _w) ²	(P _o) ² - (P _w) ²	Choose formula 1 or 2: 1. P _o ² - P _w ² 2. P _o ² - P ₁ ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} \right]$	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 15th day of November, 20 10.

Witness (if any)

For Commission

RECEIVED

JAN 20 2011

KCC WICHITA

For Company

Checked by

RECEIVED

DEC 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 Chesapeake Operating, 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 St Columbans 1-12 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: November 15, 2010

Signature: 
Title: David Wiist - Production 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.

RECEIVED RECEIVED
 JAN 20 2011 DEC 06 2010
 KCC WICHITA KCC WICHITA

The logo for the Kansas Corporation Commission features the word "KANSAS" in a large, bold, sans-serif font. Above the letters "A" and "S" is a stylized graphic of a star with a curved line trailing behind it, suggesting a path or a comet. Below "KANSAS" is the text "CORPORATION COMMISSION" in a smaller, all-caps, sans-serif font.

KANSAS
CORPORATION COMMISSION

Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner

David Wiist
Chesapeake Operating Corporation
P.O. Box 18496
Oklahoma City, OK. 73154-0496

December 9, 2010
Dear Mr. Wiist:

The recently submitted claim for an annual open flow testing exemption (Form G-2) to be awarded for the current calendar year of **2010** to Chesapeake Operating's **St. Columbans #1-12** gas well located in Sec.12-22S-41 W of Hamilton County has been reviewed by the Conservation Division staff. The checked status has been conferred by the Commission to the listed well, or else, the indicated alternate course of action must be discharged before this particular gas well will be in full compliance:

- The annual exemption is hereby granted to the above identified gas well retroactive to January 1st of the current calendar year and effective either through the end of this year or up until the well no longer meets the qualifying criterion of averaging less than **250** Mcf/Day.
- The request for an exemption is hereby denied. Contact the Wichita office to learn the reason(s). Please schedule an one-point open flow test for this well as soon as possible. The test will substitute for the denied exemption claim.
- The exemption will be granted upon the insertion of the gas well's shut-in pressure in the box provided on the front side of the form and return of the completed form to this office.

Recompletion of any approved gas well (that had previously met the qualification criterion for being awarded exempt status) automatically disqualifies the exempt well. In all such cases, the well-operator will have to re-apply for a second exemption. This option is open if the new pay zone into which the subject gas well gets recompleted is also a gas zone and presuming that the well still meets the qualification criterion of averaging less than **250** Mcf/Day following recompletion. In the event of a sale/transfer, the granted testing exemption will go with the well.

If the exemption has been denied, failure to perform the stipulated open flow test within thirty (30) days of receiving this letter could result in the shutting in of your well and the imposition of a **\$500** penalty fine.

Sincerely,

Jim Hemmen
Research Analyst
Production Department

CONSERVATION DIVISION
Finney State Office Building, 130 S. Market, Room 2078, Wichita, KS 67202-3802
(316) 337-6200 • Fax: (316) 337-6211 • <http://kcc.ks.gov/>

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JAN 20 2011

KCC WICHITA

GO JET SERVICES INC.

PERFORATING - LOGGING

OKLAHOMA CITY, OKLA.

SALES CONTRACT AND FIELD WORK ORDER

Job No. 901-6697	Charge To KANSAS NEBRASKA NAT. GAS CO.	Customer Order No.
Date 12-22-64	Address 300 N. ST. JOSEPH ST.	Nearest Town SYRACUSE
Operator Reynolds	City & State Hastings Nebraska	Field PPASHANGAS PRCA
Riggers Eichman	Mail Invoices To: SPME	Lease and Well No. ST. COL. KANSAS #1
CLARK	Address	County HAMILTON
Legal Description	City & State	State KANSAS

- In consideration of service work to be performed, the undersigned hereby agrees to the following general terms and conditions of services:
- (1) All accounts are to be paid within the terms fixed by Go Jet Services Inc. invoices; and should these terms not be observed, interest at the rate of 8% per annum will be charged from the date of such invoice. In the event the enforcement of a claim for indebtedness, arising hereunder, is placed in the hands of an attorney for collection, the customer agrees to pay all costs of collection and reasonable attorney's fees, which in no event shall be less than \$75.00.
 - (2) Because of the uncertain conditions and hazards existing in a well which are beyond the control of Go Jet Services, Inc., it is understood by the customer that Go Jet Services, Inc., cannot guarantee the results of their services and will not be held responsible for personal or property damage in the performances of their services.
 - (3) Should any Go Jet Services, Inc., instruments or equipment be lost or damaged in the performance of the operations requested, the customer agrees to make every reasonable effort to recover same, and to reimburse Go Jet Services, Inc., for the value of the items which cannot be recovered, or the cost of repairing damage to items recovered.
 - (4) It is further understood and agreed that all depth measurements shall be supervised by the customer or its employees.
 - (5) The customer certifies that it has the full right and authority to order such work on such well and that the well in which the work is to be done by Go Jet Services, Inc., is in proper and suitable condition for the performances of said work.
 - (6) The customer agrees to pay any and all taxes, fees and charges placed on services rendered by Go Jet Services, Inc., by governmental requirements including city, county, state and federal taxes and fees or reimburse Go Jet Services, Inc., for such taxes and fees paid to said agencies.
 - (7) No employee is authorized to alter the terms or conditions of this agreement.

DATE **12-22-64** CUSTOMER **KANSAS NEBRASKA NAT. GAS CO.** BY **Lawrence Holmstrom**

WORK PERFORMED	PRICING
Run CORRELATION GAMMA & CEMENT TAG Log:	Set up \$ 37.50
From 2763 ft. to 2500 ft.; From 2203 ft. to 1900 ft.	1st 4 Shots \$ 130.00
From _____ ft. to _____ ft.; From _____ ft. to _____ ft.	Next _____ Shots @ \$ _____ Ea. \$
Jet _____ (TYPE) Bridge Plug at _____ ft.	Next _____ Shots @ \$ _____ Ea. \$
	Next _____ Shots @ \$ _____ Ea. \$
Perforated with DE FRAU 4WAY as Follows:	LOGGING:
From _____ ft. to 2746 ft., 4 Shots	Depth Charge 2763 ft. @ \$.03 ft. \$ 82.89
	Logging Chg. _____ ft. @ \$ _____ ft. \$ NK
	BRIDGE PLUG:
	Type _____ \$
	Setting Charge _____ \$
	Depth Charge _____ ft. @ \$ _____ ft. \$
	DUMP BAILER SERVICE:
	1st Run _____ ft. @ \$ _____ ft. \$
	Additional Runs:
	No. Runs _____ x _____ ft. x \$ _____ ft. \$
	Other Services (Specify) WST. Royalty Chg. \$10.00
	CEMENT Tag Log min \$50.00

Other Services (Specify) _____ RECEIVED
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ZERO 7'AGL	CASING SIZE 5 1/2	CASING WT.	CUSTOMER'S T. D. 2770	GO T. D. 2763	KCC WICHITA FNU
CUSTOMER'S COLLARS 2604, 2642, 2683, 2711, 2			GO COLLARS Same	TYPE FLUID IN HOLE WATER	

SALES CREDIT TO: **LIBERAL**
 COMMENTS: **#926**

I certify that the above ordered services have been performed to my satisfaction, that all zones perforated were designated by me and all depth measurements checked and approved.