

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
08/26/2015

API No. 15
15-007-23956-0000

Company Chieftain Oil Co., Inc.		Lease Roark		Well Number 1	
County Barber	Location NE SW SW SW	Section 10	TWP 35S	RNG (E/W) 11W	Acres Attributed
Field Wildcat		Reservoir Mississippian		Gas Gathering Connection Targa Pipeline Mid-Continent WestOk, LLC	
Completion Date 11/13/2012		Plug Back Total Depth 5403		Packer Set at None	
Casing Size 5.5	Weight 15.5	Internal Diameter 4.95	Set at 5445	Perforations 4802	To 4812
Tubing Size 2.875	Weight 6.5	Internal Diameter 2.441	Set at 4793	Perforations	To
Type Completion (Describe) Single (Gas + Oil)		Type Fluid Production Oil/Water		Pump Unit or Travelling Plunger? <input checked="" type="checkbox"/> No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.216		% Nitrogen 1.65	
Vertical Depth(H) 5545		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 08/26 20 15 at (AM) (PM) Taken 08/27 20 15 at (AM) (PM)					
Well on Line: Started 20 at (AM) (PM) Taken 20 at (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in _____ 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						61.5				24	
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 = _____ : (P₁)² = 0.207
(P₂)² = _____

(P _c) ² - (P _w) ² or (P ₁) ² - (P ₂) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P ₁ ² - P ₂ 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 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 28 day of August 20 15.

KCC WICHITA

Witness (if any)

For Company

SEP 04 2015

For Commission

Checked by

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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 Chieftain Oil Co., 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 Roark #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: 08/28/2015

Signature: *Robert Robert*
 Title: *Field supervisor*

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.

CORRECTION #1



KANSAS CORPORATION COMMISSION 1263162
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

Confidentiality Requested:

Yes No

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33235
Name: Chieftain Oil Co., Inc.
Address 1: 101 S. 5th St.; PO Box 124
Address 2:
City: KIOWA State: KS Zip: 67070 + 1912
Contact Person: Ron Molz
Phone: (620) 825-4030
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: David A. Barker
Purchaser:

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:

Operator:

Well Name:

Original Comp. Date: Original Total Depth:

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

10/10/2012 10/21/2012 11/13/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-007-23956-00-00

Spot Description:
NE SW SW SW Sec. 10 Twp. 35 S. R. 11 East West
520 Feet from North / South Line of Section
340 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: Barber

Lease Name: Roark Well #: 1

Field Name:

Producing Formation: Mississippian

Elevation: Ground: 1332 Kelly Bushing: 1335

Total Vertical Depth: 5545 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 345 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from:

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 10000 ppm Fluid volume: 1200 bbis

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Chieftain Oil Co., Inc.

Lease Name: Garner SWD License #: 33235

Quarter NW Sec. 11 Twp. 33 S. R. 10 East West

County: Barber Permit #: D-28060

KCC WICHITA

SEP 04 2015

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AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested Date: 12/11/2012
- Confidential Release Date: 12/11/2014
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 09/03/2015

Meter Analysis

August, 2015

Targa Pipeline Company

Avard System	
Meter: 95243403	Name: Roark 1

	Mol %	Liquid Content		
Carbon Dioxide	0.216	0.0366	Pressure Base	14.730
Nitrogen	1.654	0.1819	Temperature Base	60.00
Methane	89.820	15.2233		
Ethane	4.676	1.2503		
Propane	1.892	0.5211	Relative Density	0.6380
Iso-Butane	0.264	0.0863	Dry Heating Value	1111.60
N-Butane	0.632	0.1993	As Del Heating Value	
Iso-Pentane	0.176	0.0645	Sat Heating Value	1092.25
N-Pentane	0.232	0.0842		
Hexane	0.437	0.1906		
Heptane			C2+ Liquid Content	2.3963
Octane			C5+ Liquid Content	0.3393
Nonane			C6+ Liquid Content	0.1906
Decane			26# Gasoline	0.5358
Oxygen			H2S ppm	3.0
Hydrogen				
Helium				
Argon				
Water Vapor				
Hydrogen Sulfide				
Total	100.000	17.8382		

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SEP 04 2015
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