

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
10/22/14

API No. 15  
15-081-22053-00-00

Company Strata Exploration, Inc			Lease Leonard		Well Number 2-21
County Haskell	Location 335 FSL 695 FEL	Section 21	TWP 29	RNG (E/W) 32 W	Acres Attributed 320
Field Hugoton		Reservoir St Louis	Gas Gathering Connection Regency		
Completion Date 3/24/14		Plug Back Total Depth 5640	Packer Set at		
Casing Size 5.5	Weight 15.5	Internal Diameter 4.95	Set at 5625	Perforations 5502'	To 5516'
Tubing Size 2.875	Weight 6.5	Internal Diameter 2.441	Set at 5514	Perforations	To
Type Completion (Describe) perf, acid		Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No no		
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide 0.181	% Nitrogen 11.189	Gas Gravity - G <sub>g</sub> .6962	
Vertical Depth(H) 5514		Pressure Taps flange		(Meter Run) (Prover) Size 2.067	
Pressure Buildup: Shut in 10/21 20 14 at 12:30 (AM) (PM) Taken 10/22 20 14 at 12:30 (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 (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>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						380	394	370	384	24	
Flow											

### 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>t</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<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	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

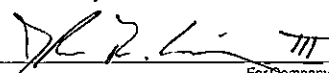
Deliverability

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 22nd day of October, 20 14.

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Commission

  
For Company

\_\_\_\_\_  
Checked by

Received  
KANSAS CORPORATION COMMISSION

NOV 03 2014

CONSERVATION DIVISION  
WICHITA, KS

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 Strata Exploration, 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 Leonard #2-21 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: 10/22/2014

Signature:   
Title: President

**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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WICHITA, KS

# Percent of Proceeds Statement - Fixed Recovery



**ONEOK**  
FIELD SERVICES COMPANY

A SUBSIDIARY OF ONEOK PARTNERS

## METER AND CONTRACT INFORMATION

<b>Meter Name:</b> Leonard 2-21	<b>Meter Number:</b> 450129939A	<b>Accounting Date:</b> May 2014	<b>System Name:</b> Sw Kansas	<b>Pressure:</b> 34.19
<b>Contract Party:</b> Strata Exploration Inc	<b>Contract Party Number:</b> 069356	<b>Production Date:</b> May 2014	<b>Pressure/BTU:</b> 14.73 Dry	<b>BTU Factor:</b> 1,051.90
<b>Contract Number:</b> 432295	<b>CCT Number:</b> 432295	<b>Statement Date:</b> July 01, 2014	<b>Alloc. Decimal:</b> 1.0000	<b>Flow Hours:</b> 744.00

## SETTLEMENT SUMMARY

Accounting Date	Wellhead MCF	Wellhead MMBTU	Purchased Value	Liquid Value	Residue Value	Helium Value	Gross Value	Fees	Taxable Value	Taxes	Net Value
May 2014	6,280.35	6,606.33	\$0.00	\$11,181.74	\$25,304.90	\$0.00	\$36,486.64	\$3,005.46	\$33,481.18	\$1,544.59	\$31,936.59

## LIQUIDS

## METER TOTALS

Product	Theoretical Gallons	FR %	Actual Gallons	TIK Gallons	Shrink MMBTU	Contract Percent	Liquid Price	Liquid Value
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## RESIDUE

## METER TOTALS

Units	Gross Wellhead	Net Delivered	Shrink	Theoretical Residue	Gas Available	Contract Percent	Gas Sold	Residue Price	Residue Value
MCF	6,280.35	5,999.62			5,586.85	92.00%	5,139.90		
MMBTU	6,606.33	6,311.03	434.20	5,876.83	5,876.83	92.00%	5,406.68	\$4.6803	\$25,304.90

## FUELS

## FEES

## TAXES

Fuel Type	Fixed %	MCF	MMBTU	Fee Type	Fee Volume	Fee Rate	Value	Tax Type	Tax Due
Field Fuel	4.47%	280.73	295.30	Gathering	6,606.33	\$0.4549	\$3,005.46	Kst - Kansas Severance Tax	\$1,449.74
Plant Fuel	6.88%	412.77	434.20					Kansas Working Interest Tax	\$13.39
								Kcc - Kansas Corporation Tax	\$81.46

## GAS ANALYSIS

Units	Helium	Nitrogen	Carbon Dioxide	Sulfur	Methane	Ethane	Propane	Iso-Butane	Normal Butane	Iso-Pentane	Normal Pentane	Hexanes Plus	Other	Total
GPM						1.4962	0.7869	0.1397	0.2846	0.0834	0.1055	0.2238	0.0000	3.1201
MOL %	0.1980	11.0740	0.1430	0.0000	77.7610	5.5960	2.8570	0.4270	0.9030	0.2280	0.2910	0.5130	0.0000	99.9910

## ONEOK CONTACT INFORMATION

<b>Accounting:</b> Denise McGrew 9187321342 denise.mcgreg@oneok.com	<b>Measurement:</b> Oneok Energy Measurement Group 9187321400 ofs_measurement@oneok.com	<b>Contract Administration:</b> Terry Vitt 9185951503 terry.vitt@oneok.com	<b>Comments:</b>
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WICHITA, KS

# Percent of Proceeds Statement - Fixed Recovery



**ONEOK**  
FIELD SERVICES COMPANY

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## METER AND CONTRACT INFORMATION

<b>Meter Name:</b> Leonard 2-21	<b>Meter Number:</b> 450129939A	<b>Accounting Date:</b> June 2014	<b>System Name:</b> Sw Kansas	<b>Pressure:</b> 31.95
<b>Contract Party:</b> Strata Exploration Inc	<b>Contract Party Number:</b> 069356	<b>Production Date:</b> June 2014	<b>Pressure/BTU:</b> 14.73 Dry	<b>BTU Factor:</b> 1,051.90
<b>Contract Number:</b> 432295	<b>CCT Number:</b> 432295	<b>Statement Date:</b> July 29, 2014	<b>Alloc. Decimal:</b> 1.0000	<b>Flow Hours:</b> 720.00

## SETTLEMENT SUMMARY

Accounting Date	Wellhead MCF	Wellhead MMBTU	Purchased Value	Liquid Value	Residue Value	Helium Value	Gross Value	Fees	Taxable Value	Taxes	Net Value
June 2014	5,502.04	5,787.60	\$0.00	\$9,284.90	\$21,320.95	\$0.00	\$30,605.85	\$2,632.99	\$27,972.86	\$1,293.77	\$26,679.09

## LIQUIDS

## METER TOTALS

Product	Theoretical Gallons	FR %	Actual Gallons	TIK Gallons	Shrink MMBTU	Contract Percent	Liquid Price	Liquid Value
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## RESIDUE

## METER TOTALS

Units	Gross Wellhead	Net Delivered	Shrink	Theoretical Residue	Gas Available	Contract Percent	Gas Sold	Residue Price	Residue Value
MCF	5,502.04	5,256.10			4,894.48	92.00%	4,502.92		
MMBTU	5,787.60	5,528.89	380.39	5,148.50	5,148.50	92.00%	4,736.62	\$4.5013	\$21,320.95

## FUELS

## FEES

## TAXES

Fuel Type	Fixed %	MCF	MMBTU	Fee Type	Fee Volume	Fee Rate	Value	Tax Type	Tax Due
Field Fuel	4.47%	245.94	258.71	Gathering	5,787.60	\$0.4549	\$2,632.99	Kcc - Kansas Corporation Tax	\$71.36
Plant Fuel	6.88%	361.62	380.39					Kst - Kansas Severance Tax	\$1,211.22
								Kansas Working Interest Tax	\$11.19

## GAS ANALYSIS

Units	Helium	Nitrogen	Carbon Dioxide	Sulfur	Methane	Ethane	Propane	Iso-Butane	Normal Butane	Iso-Pentane	Normal Pentane	Hexanes Plus	Other	Total
GPM						1.4962	0.7869	0.1397	0.2846	0.0834	0.1055	0.2238	0.0000	3.1201
MOL %	0.1980	11.0740	0.1430	0.0000	77.7610	5.5960	2.8570	0.4270	0.9030	0.2280	0.2910	0.5130	0.0000	99.9910

## ONEOK CONTACT INFORMATION

<b>Accounting:</b> Denise McGrew 9187321342 denise.mcgreg@oneok.com	<b>Measurement:</b> Oneok Energy Measurement Group 9187321400 ofs_measurement@oneok.com	<b>Contract Administration:</b> Terry Vitt 9185951503 terry.vitt@oneok.com	<b>Comments:</b>
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# Percent of Proceeds Statement - Fixed Recovery



**ONEOK**  
FIELD SERVICES COMPANY  
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## METER AND CONTRACT INFORMATION

<b>Meter Name:</b> Leonard 2-21	<b>Meter Number:</b> 450129939A	<b>Accounting Date:</b> July 2014	<b>System Name:</b> Sw Kansas	<b>Pressure:</b> 29.95
<b>Contract Party:</b> Strata Exploration Inc	<b>Contract Party Number:</b> 069356	<b>Production Date:</b> July 2014	<b>Pressure/BTU:</b> 14.73 Dry	<b>BTU Factor:</b> 1,051.90
<b>Contract Number:</b> 432295	<b>CCT Number:</b> 432295	<b>Statement Date:</b> August 27, 2014	<b>Alloc. Decimal:</b> 1.0000	<b>Flow Hours:</b> 744.00

## SETTLEMENT SUMMARY

Accounting Date	Wellhead MCF	Wellhead MMBTU	Purchased Value	Liquid Value	Residue Value	Helium Value	Gross Value	Fees	Taxable Value	Taxes	Net Value
July 2014	5,109.45	5,374.61	\$0.00	\$8,522.69	\$20,015.97	\$0.00	\$28,538.66	\$2,445.11	\$26,093.55	\$1,206.56	\$24,886.99

## LIQUIDS

## METER TOTALS

Product	Theoretical Gallons	FR %	Actual Gallons	TIK Gallons	Shrink MMBTU	Contract Percent	Liquid Price	Liquid Value
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## RESIDUE

## METER TOTALS

Units	Gross Wellhead	Net Delivered	Shrink	Theoretical Residue	Gas Available	Contract Percent	Gas Sold	Residue Price	Residue Value
MCF	5,109.45	4,881.06			4,545.24	92.00%	4,181.62		
MMBTU	5,374.61	5,134.36	353.24	4,781.12	4,781.12	92.00%	4,398.63	\$4.5505	\$20,015.97

## FUELS

## FEES

## TAXES

Fuel Type	Fixed %	MCF	MMBTU	Fee Type	Fee Volume	Fee Rate	Value	Tax Type	Tax Due
Field Fuel	4.47%	228.39	240.25	Gathering	5,374.61	\$0.4549	\$2,445.11	Kcc - Kansas Corporation Tax	\$66.27
Plant Fuel	6.88%	335.82	353.24					Kst - Kansas Severance Tax	\$1,129.85
								Kansas Working Interest Tax	\$10.44

## GAS ANALYSIS

Units	Helium	Nitrogen	Carbon Dioxide	Sulfur	Methane	Ethane	Propane	Iso-Butane	Normal Butane	Iso-Pentane	Normal Pentane	Hexanes Plus	Other	Total
GPM						1.4962	0.7869	0.1397	0.2846	0.0834	0.1055	0.2238	0.0000	3.1201
MOL %	0.1980	11.0740	0.1430	0.0000	77.7610	5.5960	2.8570	0.4270	0.9030	0.2280	0.2910	0.5130	0.0000	99.9910

## ONEOK CONTACT INFORMATION

**Accounting:**  
Denise McGrew  
9187321342  
denise.mcgreg@oneok.com

**Measurement:**  
Oneok Energy Measurement Group  
9187321400  
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**Contract Administration:**  
Terry Vitt  
9185951503  
terry.vitt@oneok.com

**Comments:**

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# Percent of Proceeds Statement - Fixed Recovery



**ONEOK**  
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## METER AND CONTRACT INFORMATION

<b>Meter Name:</b> Leonard 2-21	<b>Meter Number:</b> 450129939A	<b>Accounting Date:</b> August 2014	<b>System Name:</b> Sw Kansas	<b>Pressure:</b> 30.76
<b>Contract Party:</b> Strata Exploration Inc	<b>Contract Party Number:</b> 069356	<b>Production Date:</b> August 2014	<b>Pressure/BTU:</b> 14.73 Dry	<b>BTU Factor:</b> 1,051.90
<b>Contract Number:</b> 432295	<b>CCT Number:</b> 432295	<b>Statement Date:</b> September 25, 2014	<b>Alloc. Decimal:</b> 1.0000	<b>Flow Hours:</b> 741.87

## SETTLEMENT SUMMARY

Accounting Date	Wellhead MCF	Wellhead MMBTU	Purchased Value	Liquid Value	Residue Value	Helium Value	Gross Value	Fees	Taxable Value	Taxes	Net Value
August 2014	5,335.07	5,611.95	\$0.00	\$8,546.24	\$14,114.13	\$0.00	\$22,660.37	\$2,553.08	\$20,107.29	\$947.89	\$19,159.40

## LIQUIDS

## METER TOTALS

Product	Theoretical Gallons	FR %	Actual Gallons	TIK Gallons	Shrink MMBTU	Contract Percent	Liquid Price	Liquid Value
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## RESIDUE

## METER TOTALS

Units	Gross Wellhead	Net Delivered	Shrink	Theoretical Residue	Gas Available	Contract Percent	Gas Sold	Residue Price	Residue Value
MCF	5,335.07	5,096.59			4,745.94	92.00%	4,068.85		
MMBTU	5,611.95	5,361.10	368.84	4,992.26	4,992.26	92.00%	3,765.27	\$3.7485	\$14,114.13

## FUELS

## FEES

## TAXES

Fuel Type	Fixed %	MCF	MMBTU	Fee Type	Fee Volume	Fee Rate	Value	Tax Type	Tax Due
Field Fuel	4.47%	238.48	250.85	Gathering	5,611.95	\$0.4549	\$2,553.08	Kcc - Kansas Corporation Tax	\$69.20
Plant Fuel	6.88%	350.65	368.84					Kst - Kansas Severance Tax	\$870.65
								Kansas Working Interest Tax	\$8.04

## GAS ANALYSIS

Units	Helium	Nitrogen	Carbon Dioxide	Sulfur	Methane	Ethane	Propane	Iso-Butane	Normal Butane	Iso-Pentane	Normal Pentane	Hexanes Plus	Other	Total
GPM						1.4962	0.7869	0.1397	0.2846	0.0834	0.1055	0.2238	0.0000	3.1201
MOL %	0.1980	11.0740	0.1430	0.0000	77.7610	5.5960	2.8570	0.4270	0.9030	0.2280	0.2910	0.5130	0.0000	99.9910

## ONEOK CONTACT INFORMATION

<b>Accounting:</b> Denise Mcgrew 9187321342 denise.mcgrew@oneok.com	<b>Measurement:</b> Oneok Energy Measurement Group 9187321400 ofs_measurement@oneok.com	<b>Contract Administration:</b> Terry Vitt 9185951503 terry.vitt@oneok.com	<b>Comments:</b>
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NATURAL GAS ANALYSIS REPORT  
GPA 2145-09

Sampled by:  
Trilobite Testing, Inc.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 785-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 620-482-2371  
Fax: 620-626-7108

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Lab Number: 20140281  
Sample From: LEONARD 2-21  
Producer: STRATA EXPLORATION  
Date:  
Time:  
Sampler:  
Source:

-----  
Analyzed: 02/27/14  
Pressure:  
Temperature:  
Location: 21-29-31  
County: HASKELL  
State: KANSAS  
Formation:

	Mole %	GPM
Helium	He: 0.232	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.189	0.000
Carbon Dioxide	CO2: 0.181	0.000
Methane	C1: 77.580	0.000
Ethane	C2: 5.786	2.170
Propane	C3: 2.812	1.054
Iso Butane	iC4: 0.422	0.129
Normal Butane	nC4: 0.893	0.284
Iso Pentane	iC5: 0.219	0.060
Normal Pentane	nC5: 0.277	0.077
Hexanes Plus	C6+: 0.409	0.094
	TOTAL: 100.000	3.868
	Z Fact: 0.9998	
	SP.GR.: 0.6962	
	BTU (SAT): 1042.9 @ 14.73 psia	
	BTU (DRY): 1061.4 @ 14.73 psia	
	OCTANE RATING: 111.2	

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COMMENTS:

0.000

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