

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

JAN 27 2014

KCC DODGE CITY

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
12/16/2013

API No. 15
15-081-21742 - 0000

Company Strata Exploration, Inc.		Lease Morris		Well Number 1-4	
County Haskell	Location NE SW NW	Section 4	TWP 30s	RNG (E/W) 32w	Acres Attributed 160
Field Lockport South		Reservoir Atok	Gas Gathering Connection Regency/Plains		
Completion Date 7/7/07		Plug Back Total Depth 5581	Packer Set at none		
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 5624	Perforations 5148	To 5150
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5575	Perforations 5152	To 5158
Type Completion (Describe) acid		Type Fluid Production oil	Pump Unit or Traveling Plunger? Yes / No pumping unit		
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .075	% Nitrogen 12.939	Gas Gravity - G _g .859	
Vertical Depth(H) 5153		Pressure Taps flange		(Meter Run) (Prover) Size 2.069	
Pressure Buildup: Shut in 12/16 20 13 at 11:30a.m. (AM) (PM) Taken 12/17 20 13 at 3:15 p.m. (AM) (PM)					
Well on Line: Started _____ 20 _____ at _____ (AM) (PM) Taken _____ 20 _____ at _____ (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in 43 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						260	174	100	114	27	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_o)² = _____; (P_w)² = _____; P_d = _____ % (P_c - 14.4) + 14.4 = _____; (P_g)² = 0.207; (P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) 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: P _c ² - P _w ²	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

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 9th day of January, 20 14.

Witness (if any)
No Witness *Richard W. Jasp*
For Commission

[Signature]
For Company
Checked by

KCC WICHITA

FEB 03 2014

RECEIVED

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.

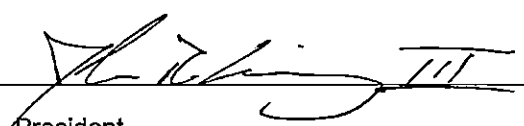
I hereby request a one-year exemption from open flow testing for the Morris #1-4 gas well on the grounds that said well:

(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: 01/09/2014

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.

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

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 2/8/2012 API No. 15-081-21742

Company Strata Exploration		Lease Morris			Well Number 1-4	
County Haskell	Location NE SW NW		Section 4	TWP 30s	RNG (E/W) 32w	Acres Attributed 160?
Field Lockport South	Reservoir Atoka		Gas Gathering Connection Regency/Plains			
Completion Date 7/7/07	Plug Back Total Depth 5581		Packer Set at none			
Casing Size 5.500	Weight 15.500	Internal Diameter	Set at 5624	Perforations 5148	To 5150	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5575	Perforations 5152	To 5158	
Type Completion (Describe) Acid	Type Fluid Production oil		Pump Unit or Traveling Plunger? pumping unit			
Producing Thru (Annulus/Tubing) annulus	% Carbon Dioxide 0.075		% Nitrogen 12.939		Gas Gravity- Gg 0.859	
Vertical Depth (H) 5153	Pressure Taps		Meter Run Size 2.069			
Pressure Buildup: Shut in	2/4/2012@1400		TAKEN	2/7/2012@1445		
Well on Line: Started	2/7/2012@1445		TAKEN	2/8/2012@1500		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						322	336			72.2	
Flow	0.500	18.4	22.10		35	233	247			24.2	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G _m
1.219	33.1	27.06	1.0790	1.0632	1.0062	38		0.859

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 113.4 (P_w)² = 61.4 P_d = 5.5 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 0.34

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
113.17	51.99	2.177	0.3378	0.850	0.2871	1.937	73
113.05	51.99	2.174	0.3373	0.850	0.2867	1.935	73

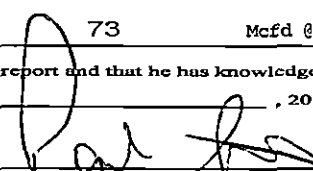
OPEN FLOW 73 Mcfd @ 14.65 psia DELIVERABILITY 73 Mcfd @ 14.65 psia

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 herein and that said report is true and correct. Executed this the 9 day of Feb, 2012

Witness (if any)

For Commission

**RECEIVED
FEB 23 2012
KCC WICHITA**



For Company

Checked by

I declare under penalty or 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

and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Morris 1-4 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 incapable of producing at a daily rate in excess of 250 mcf/D

Date: 2/14/2012

Signature: *Shelia D. King*
 Title: Secretary

Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.