

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
12/03/11

API No. 15  
171-20629-00 - ∞

Company FIML Natural Resources, LLC		Lease Pfenninger		Well Number 12-29-1831	
County Scott	Location NW SW	Section 29	TWP 18S	RNG (E/W) 31W	Acres Attributed 160
Field Hugoton NE		Reservoir Krider		Gas Gathering Connection OneOk	
Completion Date 10/04/2010		Plug Back Total Depth 2987		Packer Set at	
Casing Size 5.5	Weight 15.5	Internal Diameter 4.950	Set at 4768	Perforations 2774	To 2786
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 2764	Perforations	To
Type Completion (Describe) Gas Well		Type Fluid Production Water		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .06		% Nitrogen 42.67	
Gas Gravity - G <sub>g</sub> 742		Vertical Depth(H) 4788'		Pressure Taps Flange	
				(Meter Run) (Prover) Size 2.067	
Pressure Buildup: Shut in 12/3 20 10 at 7:00 AM (AM) (PM) Taken 12/4 20 10 at 7:00 AM (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 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						300		280		24	
Flow	.75					240		220			

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcf/d)	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: $P_c^2 - P_w^2$	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 11 day of March, 20 11.

Witness (if any)

**RECEIVED**

*[Signature]*  
For Company

For Commission

**MAR 14 2011**

Checked by

**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 FIML Natural Resources, 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 Pfenninger 12-29-1831 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: 03/11/2011

Signature:   
Title: Regulatory Specialist

**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.

**Monthly Gauge Report**  
12/2010

Route: 201  
Well: PFENNINGER 12-29-1831 - PFEN 12-29-1831

Date	NO OIL	RUN TICKETS			Total Oil		Water		Gas				Engineering				Remarks			
	TANKS	Count	Gross	Net	Stock	Prod	Haul	Prod	Stat	Diff	MCF	HrsOn	Down	Code	TBG	CSG		SPM	SLN	
12/01/2010					0.00															
12/02/2010					0.00	0.00	0.00	0.00	44.00	50.00	178.42	24:00			210	240				DWALKER
12/03/2010					0.00	0.00	0.00	0.00	44.00	50.00	74.34	10:00	14:00	99	210	240				Shut in for state test @10am DWALKER
12/04/2010					0.00	0.00	0.00	0.00	52.00		0.00	13:00	11:00	99	280	300				Back in @ 11am DWALKER
12/05/2010					0.00	0.00	0.00	0.00	52.00	40.00	171.91	24:00			280	300				DWALKER
12/06/2010					0.00	0.00	0.00	0.00	50.00	40.00	168.91	24:00			220	240				DWALKER
12/07/2010					0.00	0.00	0.00	0.00	50.00	34.00	155.73	24:00			220	240				DWALKER
12/08/2010					0.00	0.00	0.00	0.00	50.00	34.00	155.73	24:00			220	240				DWALKER
12/09/2010					0.00	0.00	0.00	0.00	52.00	34.00	158.49	24:00			200	240				DWALKER
12/10/2010					0.00	0.00	0.00	0.00	52.00	26.00	138.60	24:00			200	240				DWALKER
12/11/2010					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240				DWALKER
12/12/2010					0.00	0.00	0.00	0.00	52.00	26.00	138.60	24:00			190	240				DWALKER
12/13/2010					0.00	0.00	0.00	0.00	54.00	20.00	123.64	24:00			190	240				DWALKER
12/14/2010					0.00	0.00	0.00	0.00	52.00	18.00	115.32	24:00			200	240				DWALKER
12/15/2010					0.00	0.00	0.00	0.00	52.00	18.00	115.32	24:00			200	240				DWALKER
12/16/2010					0.00	0.00	0.00	0.00	54.00	18.00	117.30	24:00			200	240				DWALKER
12/17/2010					0.00	0.00	0.00	0.00	54.00	16.00	110.59	24:00			200	240				DWALKER
12/18/2010					0.00	0.00	0.00	0.00	54.00	16.00	110.59	24:00			200	240				DWALKER
12/19/2010					0.00	0.00	0.00	0.00	54.00	18.00	117.30	24:00			200	240				DWALKER
12/20/2010					0.00	0.00	0.00	0.00	52.00	20.00	121.56	24:00			200	240				DWALKER
12/21/2010					0.00	0.00	0.00	0.00	54.00	16.00	110.59	24:00			200	240				DWALKER
12/22/2010					0.00	0.00	0.00	0.00	53.00	24.00	134.31	24:00			200	240				DWALKER
12/23/2010					0.00	0.00	0.00	0.00	53.00	26.00	139.79	24:00			200	240				DWALKER
12/24/2010					0.00	0.00	0.00	0.00	53.00	36.00	164.49	24:00			200	240				DWALKER
12/25/2010					0.00	0.00	0.00	0.00	53.00	24.00	134.31	24:00			200	240				DWALKER
12/26/2010					0.00	0.00	0.00	0.00	53.00	26.00	139.79	24:00			200	240				DWALKER
12/27/2010					0.00	0.00	0.00	0.00	53.00	26.00	139.79	24:00			200	240				DWALKER
12/28/2010					0.00	0.00	0.00	0.00	53.00	26.00	139.79	24:00			200	240				DWALKER
12/29/2010					0.00	0.00	0.00	0.00	53.00	36.00	164.49	24:00			200	240				DWALKER
12/30/2010					0.00	0.00	0.00	0.00	51.00	34.00	157.12	24:00			200	240				DWALKER
12/31/2010					0.00	0.00	0.00	0.00	52.00	28.00	143.83	24:00			200	240				DWALKER
01/01/2011					0.00	0.00	0.00	0.00	52.00	30.00	148.88	24:00			200	240				DWALKER
Totals			0.00	0.00		0.00		0.00			4,119.21									

**Down Code Description**  
99: OTHER

**RECEIVED**  
**MAR 14 2011**  
**KCC WICHITA**

**Monthly Gauge Report**  
01/2011

Route: 201  
Well: PFENNINGER 12-29-1831 - PFEN 12-29-1831

Date	NO OIL	RUN TICKETS			Total Oil		Water		Gas				Engineering				Remarks		
	TANKS	Count	Gross	Net	Stock	Prod	Haul	Prod	Stat	Diff	MCF	HrsOn	Down	Code	TBG	CSG		SPM	SLN
01/01/2011					0.00														
01/02/2011					0.00	0.00	0.00	0.00	52.00	20.00	121.56	24:00			200	240			DWALKER
01/03/2011					0.00	0.00	0.00	0.00	52.00	20.00	121.56	24:00			200	240			DWALKER
01/04/2011					0.00	0.00	0.00	0.00	52.00	20.00	121.56	24:00			200	240			DWALKER
01/05/2011					0.00	0.00	0.00	0.00	52.00	20.00	121.56	24:00			200	240			DWALKER
01/06/2011					0.00	0.00	0.00	0.00	50.00	20.00	119.44	24:00			200	240			DWALKER
01/07/2011					0.00	0.00	0.00	0.00	46.00	24.00	126.07	24:00			200	240			DWALKER
01/08/2011					0.00	0.00	0.00	0.00	48.00	20.00	117.28	24:00			200	240			DWALKER
01/09/2011					0.00	0.00	0.00	0.00	48.00	20.00	117.28	24:00			200	240			DWALKER
01/10/2011					0.00	0.00	0.00	0.00	48.00	18.00	111.26	24:00			200	240			DWALKER
01/11/2011					0.00	0.00	0.00	0.00	46.00	18.00	109.18	24:00			200	240			DWALKER
01/12/2011					0.00	0.00	0.00	0.00	46.00	18.00	109.18	24:00			200	240			DWALKER
01/13/2011					0.00	0.00	0.00	0.00	46.00	12.00	89.14	24:00			200	240			DWALKER
01/14/2011					0.00	0.00	0.00	0.00	45.00	22.00	119.53	24:00			200	240			DWALKER
01/15/2011					0.00	0.00	0.00	0.00	45.00	22.00	119.53	24:00			200	240			DWALKER
01/16/2011					0.00	0.00	0.00	0.00	46.00	26.00	131.21	24:00			200	240			DWALKER
01/17/2011					0.00	0.00	0.00	0.00	56.00	16.00	112.42	24:00			200	240			DWALKER
01/18/2011					0.00	0.00	0.00	0.00	54.00	12.00	95.77	24:00			200	240			DWALKER
01/19/2011					0.00	0.00	0.00	0.00	54.00	12.00	95.77	24:00			200	240			DWALKER
01/20/2011					0.00	0.00	0.00	0.00	58.00	8.00	80.77	24:00			200	240			DWALKER
01/21/2011					0.00	0.00	0.00	0.00	50.00	10.00	84.46	24:00			200	240			DWALKER
01/22/2011					0.00	0.00	0.00	0.00	50.00	8.00	75.54	24:00			200	240			DWALKER
01/23/2011					0.00	0.00	0.00	0.00	50.00	8.00	75.54	24:00			200	240			DWALKER
01/24/2011					0.00	0.00	0.00	0.00	52.00	22.00	127.49	24:00			200	240			DWALKER
01/25/2011					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240			DWALKER
01/26/2011					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240			DWALKER
01/27/2011					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240			DWALKER
01/28/2011					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240			DWALKER
01/29/2011					0.00	0.00	0.00	0.00	54.00	22.00	129.68	24:00			200	240			DWALKER
01/30/2011					0.00	0.00	0.00	0.00	56.00	18.00	119.24	24:00			200	240			DWALKER
01/31/2011					0.00	0.00	0.00	0.00	56.00	22.00	131.82	24:00			200	240			DWALKER
02/01/2011					0.00	0.00	0.00	0.00	56.00	22.00	131.82	24:00			200	240			DWALKER
Totals			0.00	0.00		0.00		0.00			3,534.38								

**RECEIVED**  
**MAR 14 2011**  
**KCC WICHITA**

**Monthly Gauge Report**  
02/2011

Route: 201  
Well: PFENNINGER 12-29-1831 - PFEN 12-29-1831

Date	NO OIL	RUN TICKETS			Total Oil		Water		Gas				Engineering					Remarks		
	TANKS	Count	Gross	Net	Stock	Prod	Haul	Prod	Stat	Diff	MCF	HrsOn	Down	Code	TBG	CSG	SPM		SLN	
02/01/2011					0.00															
02/02/2011					0.00	0.00	0.00	0.00	50.00	40.00	168.91	24:00			200	240				DWALKER
02/03/2011					0.00	0.00	0.00	0.00	50.00	50.00	188.85	24:00			200	240				DWALKER
02/04/2011					0.00	0.00	0.00	0.00	50.00		0.00	00:00	24:00	02	200	240				CPARKS
02/05/2011					0.00	0.00	0.00	0.00	54.00	50.00	195.49	24:00			200	240				DWALKER
02/06/2011					0.00	0.00	0.00	0.00	44.00	100.00	252.32	24:00			200	240				DWALKER
02/07/2011					0.00	0.00	0.00	0.00	46.00	100.00	257.33	24:00			200	240				DWALKER
02/08/2011					0.00	0.00	0.00	0.00	44.00	88.00	236.70	24:00			200	240				DWALKER
02/09/2011					0.00	0.00	0.00	0.00	44.00	94.00	244.63	24:00			200	240				DWALKER
02/10/2011					0.00	0.00	0.00	0.00	46.00	80.00	230.17	24:00			200	240				DWALKER
02/11/2011					0.00	0.00	0.00	0.00	48.00	90.00	248.79	24:00			200	240				DWALKER
02/12/2011					0.00	0.00	0.00	0.00	48.00	90.00	248.79	24:00			200	240				DWALKER
02/13/2011					0.00	0.00	0.00	0.00	48.00	92.00	251.54	24:00			200	240				DWALKER
02/14/2011					0.00	0.00	0.00	0.00	48.00	92.00	251.54	24:00			200	240				DWALKER
02/15/2011					0.00	0.00	0.00	0.00	48.00	92.00	251.54	24:00			200	240				DWALKER
02/16/2011					0.00	0.00	0.00	0.00	52.00	60.00	105.27	12:00	12:00	02	200	240				DWALKER
02/17/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/18/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/19/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/20/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/21/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/22/2011					0.00	0.00	0.00	0.00	42.00		0.00	00:00	24:00	02	200	240				DWALKER
02/23/2011					0.00	0.00	0.00	0.00	42.00		0.00	12:00	12:00	02	200	240				DWALKER
02/24/2011					0.00	0.00	0.00	0.00	56.00	40.00	177.75	24:00			200	240				DWALKER
02/25/2011					0.00	0.00	0.00	0.00	52.00	38.00	167.56	24:00			200	240				DWALKER
02/26/2011					0.00	0.00	0.00	0.00	50.00	36.00	160.24	24:00			200	240				DWALKER
02/27/2011					0.00	0.00	0.00	0.00	48.00	28.00	138.77	24:00			200	240				DWALKER
02/28/2011					0.00	0.00	0.00	0.00	48.00	24.00	128.47	24:00			200	240				DWALKER
03/01/2011					0.00	0.00	0.00	0.00	58.00	100.00	285.56	24:00			200	240				DWALKER
Totals			0.00	0.00		0.00		0.00			4,190.22									

Down Code Description  
02: HIGH LINE PRESSURE

**RECEIVED**  
**MAR 14 2011**  
**KCC WICHITA**