

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
May 30, 2014

API No. 15  
095-22118-0000

Company Pickrell Drilling Company, Inc.		Lease Bruch		Well Number 2	
County Kingman	Location S/2 SW	Section 24	TWP 29S	RNG (E/W) 7W	Acres Attributed
Field Spivey Grabs		Reservoir Miss		Gas Gathering Connection Oneok	
Completion Date 11-16-07		Plug Back Total Depth 4214		Packer Set at	
Casing Size 8 5/8	Weight 23.0	Internal Diameter	Set at	Perforations	To
Tubing Size 4 1/2	Weight 10.5	Internal Diameter 4.052	Set at 4250	Perforations 4132-4142	To
Type Completion (Describe) Single		Type Fluid Production Oil & Water		Pump Unit or Traveling Plunger? <u>Yes</u> / No Pump Unit	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 4137		Pressure Taps Flange		(Meter Run) (Prover) Size 2.068	
Pressure Buildup: Shut in 5-29 20 14 at 8:00 (AM) (PM)		Taken 5-30 20 14 at 8:00 (AM) (PM)			
Well on Line: Started 5-30 20 14 at 8:00 (AM) (PM)		Taken N/A 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 <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In	0.500					9.5				24	
Flow											

### 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>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

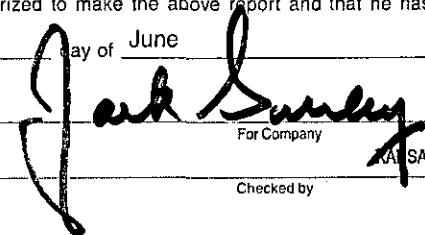
(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>d</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</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>d</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>w</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 9th day of June, 20 14.

\_\_\_\_\_  
Witness (if any)  
\_\_\_\_\_  
For Commission

  
 For Company  
 Received  
 KANSAS CORPORATION COMMISSION  
 Checked by  
**JUN 10 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 Pickrell Drilling Company, 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 Bruch No. 2 gas well on the grounds that said well:

(Check one)

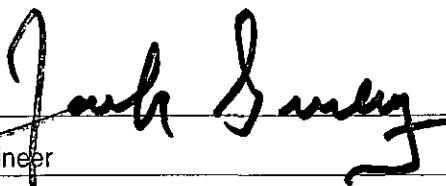
- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. \_\_\_\_\_
- is not capable of producing at a daily rate in excess of 250 mcf/D

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.

Well sold total of 17,679 MCF for 12 month period ended December 31, 2013.

Date: 6-9-14

See attached gauge sheet for May 2014.

Signature:   
 Title: 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  
KANSAS CORPORATION COMMISSION

JUN 10 2014

CONSERVATION DIVISION  
WICHITA, KS

COMPANY:		Pickrell		LEASE:		Bruch # 2		STATE:		KS		MONTH:		MAY		YEAR:		2014							
D A Y S	TANK DATA								OIL SALES			WELL STATUS			GAS SALES		PRODUCTION			TIME	REMARKS				
	Tank No.		Size		Tank No.		Size		TOTAL	S/W	Size	S/W	TANK	TICKET	GROSS	CHOKE	TP	CP	DIFF.	LINE		OIL	GAS	SW	HRS.
	1		2		Oil Stock		Tank		RUNS	TANK	TICKET	GROSS	CHOKE	PRESS	PRESS	DIFF.	LINE	OIL	GAS	SW		HRS.	OFF		
OS	Ft.	In.	BBLs	Ft.	In.	BBLs	BBLs	Ft.	In.	BBLs	BBLs	NUMBER	NUMBER	BBLs	64TH	PSI	PSI	PRES.	PRESS	BBLs	MCF	BBLs	OFF		
			0.00			0.00	0.00			0.00								16	50						
2			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
3			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
4			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
5			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
6			0.00			0.00	0.00			0.00								16	52	0.00	51	0.00			
7			0.00			0.00	0.00			0.00								16	52	0.00	51	0.00			
8			0.00			0.00	0.00			0.00								16	52	0.00	51	0.00			
9			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
10			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
11			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
12			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
13			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
14			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
15			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
16			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
17			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
18			0.00			0.00	0.00			0.00								12	50	0.00	44	0.00			
19			0.00			0.00	0.00			0.00								20	52	0.00	58	0.00			
20			0.00			0.00	0.00			0.00								18	52	0.00	55	0.00			
21			0.00			0.00	0.00			0.00								18	52	0.00	55	0.00			
22			0.00			0.00	0.00			0.00								16	52	0.00	51	0.00			
23			0.00			0.00	0.00			0.00								16	50	0.00	50	0.00			
24			0.00			0.00	0.00			0.00								16	46	0.00	48	0.00			
25			0.00			0.00	0.00			0.00								16	46	0.00	48	0.00			
26			0.00			0.00	0.00			0.00								16	46	0.00	48	0.00			
27			0.00			0.00	0.00			0.00								16	46	0.00	48	0.00			
28			0.00			0.00	0.00			0.00								16	46	0.00	48	0.00			
29			0.00			0.00	0.00			0.00								16	44	0.00	47	0.00			
30			0.00			0.00	0.00			0.00								0	42	0.00	0	0.00	24		
31			0.00			0.00	0.00			0.00								20	46	0.00	54	0.00			
1			0.00			0.00	0.00			0.00								16	44	0.00	47	0.00			
TOTALS							0.00					0.00				0.00			0.00	1468	0.00	24			
WELL TESTS:						ORIFICE METER DATA:				TANK STRAP INFO:				DAILY AVERAGES:				ENDING STOCK:		0.00					
DATE	WELL#	OIL	WATER	SPM	LENGTH	Plate Size:	0.500	Tank #1	Bbl. In.	AVERAGE DAILY OIL		0.00		PIPELINE RUNS +		0.00		OIL							
						Meter Run Size:	2.00	Tank #2	Bbl. In.	AVERAGE DAILY MCF		47		OTHER DISP. +/-				S/W DRAW							
						Static Range:	250	S/W Tank	Bbl. In.	SIGNATURE:		Ron Smith		TOTAL =		0.00									
						Diff Range:	100			PRODUCTION =		0.00		BEG. STOCK -		0.00									
						Coef:	1.8							PRODUCTION =		0.00									

Well Info  
 BOPD 3 BWPD 16  
 SPM 6 STROKE 38 PUMP 1.5  
 5-29 shut well in for test  
 5-30 shut in pressure 95 lbs.

Received  
 KANSAS CORPORATION COMMISSION  
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 CONSERVATION DIVISION  
 WICHITA, KS