

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

Type Test:

(See Instructions on Reverse Side)

Open Flow  
 Deliverability

Test Date:  
04-11-13

API No. 15  
15-095-22016-0000

Company  
Pickrell Drilling Company, Inc.

Lease  
Cessna "B"

Well Number  
2

County Location  
Kingman SE NW SW

Section  
7

TWP  
30S

RNG (E/W)  
6W

Acres Attributed

Field  
Messenger

Reservoir  
Miss.

Gas Gathering Connection  
West Wichita Gas Gathering

Completion Date  
02-13-06

Plug Back Total Depth  
4160

Packer Set at

Casing Size  
5 1/2

Weight  
15.5

Internal Diameter  
4.950

Set at  
4193

Perforations  
4094

To  
4100

Tubing Size  
2 3/8

Weight  
4.7

Internal Diameter  
1.995

Set at  
4089

Perforations

To

Type Completion (Describe)  
Single

Type Fluid Production

Pump Unit or Traveling Plunger? Yes / No

Producing Thru (Annulus / Tubing)  
Annulus

% Carbon Dioxide  
0.172

% Nitrogen  
8.900

Gas Gravity - G<sub>g</sub>  
0.7092

Vertical Depth(H)  
4097

Pressure Taps  
Flange

(Meter Run) (Prover) Size  
2.00

Pressure Buildup: Shut in 4-10 20 13 at 8:00 (AM) (PM) Taken 4-11 20 13 at 8:00 (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>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						22		P		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>dv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>w</sub>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>1</sub>)<sup>2</sup> = 0.207

(P<sub>2</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>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>a</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

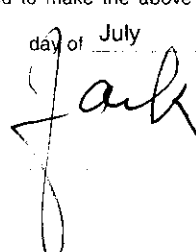
Deliverability

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 25th day of July 20 13

Witness (if any)

For Commission

  
 For Company  
 Checked by  
**JUL 26 2013**  
**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 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 Cessna "B" #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.

Date: 07-25-13

Note: This well makes 229 BWP. The water begins to kill the gas within minutes after shutting down the pumping unit. The pressure reflected after that is merely trapped line pressure. The well is very quickly dead.

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.

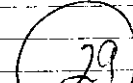
The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

**KCC WICHITA**

**JUL 26 2013**

**RECEIVED**

COMPANY:			Pickrell			LEASE:			Cessna B #2			STATE:		KS		MONTH:		APRIL		YEAR:		2013			
D	TANK DATA										OIL SALES			WELL STATUS			GAS SALES		PRODUCTION			TIME	REMARKS		
A	Tank No.		Size	Tank No.		Size	TOTAL	S/W		Size	S/W				TP	CP	GAS SALES		PRODUCTION			HRS.			
Y	1			2			Oil Stock	Tank			RUNS	TANK	TICKET	GROSS	CHOKE	PRESS	PRESS	DIFF.	LINE	OIL	GAS	SW	OFF		
S	Ft.	In.	BBLs	Ft.	In.	BBLs	BBLs	Ft.	In.	BBLs	BBLs	NUMBER	NUMBER	BBLs	64TH	PSI	PSI	PRES.	PRESS	BBLs	MCF	BBLs			
OS			0.00			0.00	0.00			0.00							18	26						Well Info	
2			0.00			0.00	0.00			0.00							14	26	0.00	54	0.00			BOPD 5 BWPD 229	
3			0.00			0.00	0.00			0.00							14	26	0.00	54	0.00			SPM 12 STROKE 74 PUMP 12	
4			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
5			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00			4-11 down ice start unit	
6			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00			4-23 unit down rain start	
7			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
8			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
9			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
10			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
11			0.00			0.00	0.00			0.00							0	22	0.00	0	0.00	24			
12			0.00			0.00	0.00			0.00							20	25	0.00	63	0.00				
13			0.00			0.00	0.00			0.00							20	25	0.00	63	0.00				
14			0.00			0.00	0.00			0.00							18	25	0.00	60	0.00				
15			0.00			0.00	0.00			0.00							18	24	0.00	59	0.00				
16			0.00			0.00	0.00			0.00							14	24	0.00	52	0.00				
17			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
18			0.00			0.00	0.00			0.00							12	27	0.00	51	0.00				
19			0.00			0.00	0.00			0.00							12	28	0.00	52	0.00				
20			0.00			0.00	0.00			0.00							10	30	0.00	49	0.00				
21			0.00			0.00	0.00			0.00							10	30	0.00	49	0.00				
22			0.00			0.00	0.00			0.00							10	30	0.00	49	0.00				
23			0.00			0.00	0.00			0.00							12	22	0.00	23	0.00	12			
24			0.00			0.00	0.00			0.00							12	24	0.00	48	0.00				
25			0.00			0.00	0.00			0.00							12	26	0.00	50	0.00				
26			0.00			0.00	0.00			0.00							10	26	0.00	45	0.00				
27			0.00			0.00	0.00			0.00							10	26	0.00	45	0.00				
28			0.00			0.00	0.00			0.00							10	26	0.00	45	0.00				
29			0.00			0.00	0.00			0.00							10	26	0.00	45	0.00				
30			0.00			0.00	0.00			0.00							10	26	0.00	45	0.00				
1			0.00			0.00	0.00			0.00							10	28	0.00	47	0.00				
TOTALS						0.00						0.00						0.00		1448		0.00		36	
WELL TESTS:						ORIFICE METER DATA:				TANK STRAP INFO:				DAILY AVERAGES:				ENDING STOCK:		0.00					
DATE	WELL#	OIL	WATER	SPM	LENGTH	Plate Size:	0.625	Tank #1	Bbl. In.	AVERAGE DAILY OIL		0.00		PIPELINE RUNS +		0.00		OTHER DISP. +/-		0.00					
						Meter Run Size:	2.00	Tank #2	Bbl. In.	AVERAGE DAILY MCF		48		TOTAL =		0.00				0.00					
						Static Range:	500	S/W Tank	Bbl. In.	SIGNATURE:		Ron Smith		BEG. STOCK -		0.00				0.00					
						Diff Range:	100							PRODUCTION =		0.00				0.00					
						Coef:	2.85																		

  
**KCC WICHITA**  
**JUL 26 2013**  
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**PICKRELL DRILLING COMPANY, INC.**

100 SOUTH MAIN - SUITE 505  
WICHITA, KANSAS 67202-3738  
(316) 262-8427 • FAX (316) 262-0893

July 25, 2013

**KCC WICHITA**  
**JUL 26 2013**  
**RECEIVED**

Cessna B-2  
One Point Stabilized Open Flow  
or Deliverability Test (Form G-2)  
API #15-095-22016-0000  
Sec. 7-30S-06W, Kingman Cty, KS

Mr. Jim Hemmen  
KCC Production Staff  
Kansas Corporation Commission  
130 S. Market, Room 2078  
Wichita, Kansas 67202-3802

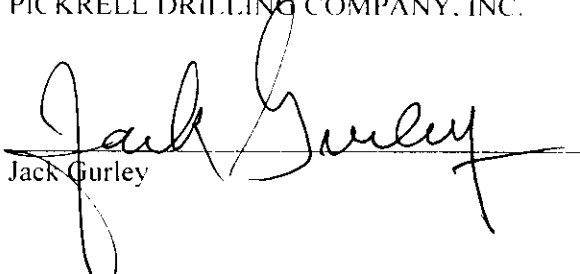
Dear Mr. Hemmen:

Enclosed therewith please find a Shut-In Pressure Report and Exemption Request for the captioned well for the years 2012 and 2013.

We chose the two periods when the well had been shut down for 24 or more hours for one reason or another from which to derive our data. We may have had correspondence regarding this well before. The well makes 7-45 MCFD while pumping and producing, it also makes 229 BWPD and this water quickly kills the well when the unit is shut down.

Yours very truly,

PICKRELL DRILLING COMPANY, INC.

  
Jack Gurley

cc: David H.