

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
10-08-10

API No. 15  
15-077-00,828-00-00

Company Pickrell Drilling Company, Inc.		Lease Hogard		Well Number 1	
County Harper	Location SE NE NE	Section 6	TWP 32S	RNG (E/W) 9W	Acres Attributed
Field Spivey Grabs		Reservoir Mississippi	Gas Gathering Connection Kansas Gas Service (Spivey Gas Gathering)		
Completion Date 12-22-59		Plug Back Total Depth 4399 1/2	Packer Set at		
Casing Size 4 1/2	Weight 9.5	Internal Diameter 4.090	Set at 4424	Perforations 4328-4338 &	To 4347-4357
Tubing Size 2 3/8	Weight 4.7	Internal Diameter 1.995	Set at	Perforations	To
Type Completion (Describe) Single		Type Fluid Production Water	Pump Unit or Traveling Plunger? <u>Yes</u> / No		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub>	
Vertical Depth(H) 4342 1/2		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in 10-07		20 10 at 10:00	(AM) (PM) Taken 10-08	20 10 at 10:00	(AM) (PM)
Well on Line: Started 10-08		20 10 at 10:30	(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 (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>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						110		140		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>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>a</sub>)<sup>2</sup> = 0.207

(P<sub>g</sub>)<sup>2</sup> = \_\_\_\_\_

(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>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>g</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>g</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)

Open Flow

Mcf/d @ 14.65 psia

Deliverability

Mcf/d @ 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 14th day of October, 20 10

Witness (if any)

For Commission

RECEIVED

OCT 15 2010

KCC WICHITA

Jack G...  
For Company  
Checked by

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 Hogard No. 1 gas well on the grounds that said well:

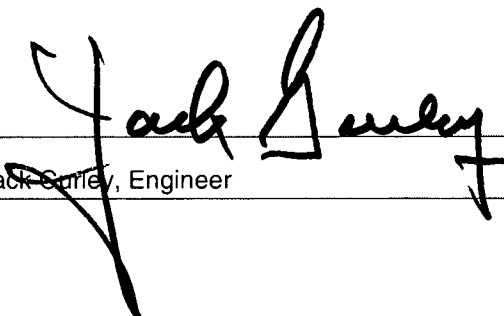
(Check one)

- 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: 10-14-10

Ave. sales rate = 33 MCFD

Signature:   
 Title: Jack Surley, 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

OCT 15 2010

KCC WICHITA

PICKRELL DRILLING COMPANY, INC

100 SOUTH MAIN - SUITE 505 - WICHITA, KANSAS 67202-3738

GAUGE AND PRODUCTION REPORT - GAS

Harper COUNTY  
KS STATE

FROM A.M. 10 - 2 2010 TO A.M. 10 - 9 2010

Hogard LEASE  
Sharon NE FIELD

TANK NUMBER	DATE 2			DATE 3			DATE 4			DATE 5			DATE 6			DATE 7			DATE 8			DATE 9					
	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS			
D.F.F.			8			8			8			8			8			0						12			
L.P.			44			44			44			44			44			0						44			
<p>RECEIVED OCT 15 2010 KCC WICHITA</p>																											
STOCK A.M. TODAY																											
PLUS P/L RUNS YEST.																											
TOTAL																											
LESS STOCK YESTERDAY																											
PRODUCTION YESTERDAY																											
PIPE LINE RUNS AND/OR B. S. AND W. DRAWN OFF											HOURS PUMPED OR FLOWED PER DAY									EXPLAIN DOWN TIME AND DRAWOFFS AND MAKE OTHER REMARKS BELOW							
DATE	TICKET NUMBER	TANK NUMBER	FROM		TO		GROSS BARRELS	GVTY.	TEMP.	TANK % BSW	TEMP.	WELL NO.	CHOKE SPM	TBG. PR. SL	CSG. PR. PLGR. D.	EST. BOPD	WATER %	EST. BWPD	2		3	4	5	6	7	8	9
			FT.	INS.	FT.	INS.													24						24	0	24
												1	4	36	1 1/4	-	100	2									
											GAS WELL TUBING PRESSURE									<p>10/7 - Shut In Well For Pressure Tests</p> <p>10/8 - Tubing 140 P.S.I. - Casing 110 P.S.I.</p> <p>" Open Well Head To Gas Sales Line -</p>							
											CASING PRESSURE																
											DIFFERENTIAL																
											LINE PRESSURE																
TOTAL GROSS RUNS THIS PERIOD							-	ALLOWABLE				SIZE METER RUN & ORIFICE: 2 x .500			HEATER TEMP.:												
GROSS RUNS PREVIOUS PERIODS								RUNS				AVG. DIFF. & LINE PRESS.:			PINTS EMULSION CHEM./DAY:			SIGNED									
TOTAL GROSS RUNS THIS MONTH								OVER SHORT				TOTAL BWPD ON LEASE: 2			PINTS INHIBITOR/DAY:			