

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
4/9/15

API No. 15  
095-22219 - 0000

Company Pickrell Drilling Company, Inc.		Lease Young "A"			Well Number 2
County Kingman	Location NE SE	Section 12	TWP 30S	RNG (E/W) 8W	Acres Attributed
Field Spivey Grabs		Reservoir Mississippi		Gas Gathering Connection Oneok Field Services Company	
Completion Date 3/29/11		Plug Back Total Depth 4157		Packer Set at	
Casing Size 4 1/2	Weight 10.5#	Internal Diameter 4.052	Set at 4200	Perforations 4112	To 4122
Tubing Size 2 3/8	Weight 4.7#	Internal Diameter 1.995	Set at 4146	Perforations	To
Type Completion (Describe) Single		Type Fluid Production Water		Pump Unit or Traveling Plunger? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H) 4117		Pressure Taps Flange		(Meter Run) (Prover) Size 3.00	
Pressure Buildup: Shut in 4/6		20 15 at 12:30		(AM) (PM) Taken 4/9	
Well on Line: Started 4/9		20 15 at 12:30		(AM) (PM) Taken	

### OBSERVED SURFACE DATA

Duration of Shut-In 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In	0.625					300		P		72	
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</sub> ) (F <sub>v</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" 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 17th day of April, 20 15.

Received  
KANSAS CORPORATION COMMISSION

APR 20 2015  
CONSERVATION DIVISION  
WICHITA, KS

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

For Company Jack Gurdley  
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.

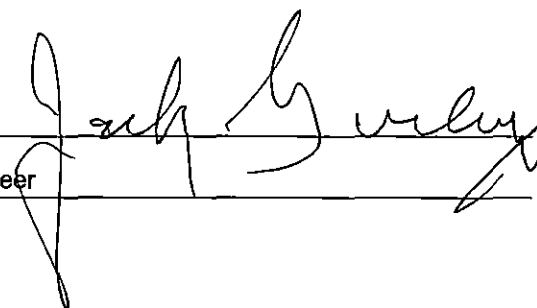
I hereby request a one-year exemption from open flow testing for the Young "A" #2 gas well on the grounds that said well:

(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: 4/17/15

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.

PICKRELL DRILLING COMPANY, INC

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

GAUGE AND PRODUCTION REPORT - GAS

Kingman COUNTY  
KS STATE

FROM A.M. 4-2 2015 TO A.M. 4-9 2015

Young-A (Land 2) LEASE  
Spivey-Grabs 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			
19161	2	7	51 91										2	8	53 59												
STOCK A.M. TODAY			51 91												53 59												
PLUS P/L RUNS YEST.																											
TOTAL																											
LESS STOCK YESTERDAY			50 24												57 91												
PRODUCTION YESTERDAY			1 67												1 68												

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 FT.	TO FT.	GROSS BARRELS	GVTY.	TEMP.	TANK % BSW	TEMP.	WELL NO.	CHOKE SPM	TBG. PR. SL	CSG. PR. PLGR. D.	EST. BOPD	WATER %	EST. BHPD	2	3	4	5		6	7	8	9
										1	7	36	1 1/4	175	73	2	24							0	0
										2	4	36	1 1/4	-	100	1	24						0	0	
																	90	90	90	90	90	90	90	90	90

4 1/6 #1, #2 Shut in  
For 72 Hr tests  
4 1/8 (#1) CSG 160 (#2) CSG 300#  
Tub 40" Tub 200"  
Master 35296 200  
Deduct - 168387

#20 D-3" X .625

TOTAL GROSS RUNS THIS PERIOD		ALLOWABLE	SIZE METER RUN & ORIFICE:	X	HEATER TEMP.:	
GROSS RUNS PREVIOUS PERIODS		RUNS	AVG. DIFF. & LINE PRESS.:	/	PINTS EMULSION CHEM./DAY:	SIGNED
TOTAL GROSS RUNS THIS MONTH		OVER SHORT	TOTAL BHPD ON LEASE:	3	PINTS INHIBITOR/DAY:	FOR [Signature]

Received  
KANSAS CORPORATION COMMISSION  
APR 20 2015  
CONSERVATION DIVISION  
WICHITA, KS