

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

Type Test:

(See Instructions on Reverse Side)

- Open Flow  
 Deliverability

Test Date:  
03/30/15

API No. 15  
15-095-01211 - 0000

Company Pickrell Drilling Company, Inc.			Lease Shea-Nicholas		Well Number 1
County Kingman	Location SW SW SW	Section 30	TWP 30S	RNG (E/W) 8W	Acres Attributed
Field Spivey Grabs		Reservoir Mississippi	Gas Gathering Connection Pioneer Exploration		
Completion Date 5/26/58		Plug Back Total Depth 4372		Packer Set at	
Casing Size 4 1/2	Weight 9.5#	Internal Diameter 4.090	Set at 4401	Perforations 4332	To 4354
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? Yes / No		
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide	% Nitrogen	Gas Gravity - G <sub>g</sub>	
Vertical Depth(H) 4343		Pressure Taps Flange		(Meter Run) (Prover) Size 4.000	
Pressure Buildup: Shut in 3/28		20 15 at 9:00	(AM) (PM)	Taken 3/31 20 15 at 9:00 (AM) (PM)	
Well on Line: Started 3/31		20 15 at 9:00	(AM) (PM)	Taken _____ 20 _____ at _____ (AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in 72 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>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	0.500					100		60		72	
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>a</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> = \_\_\_\_\_

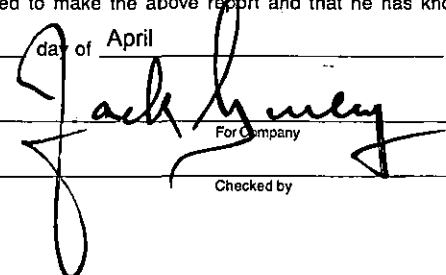
(P <sub>c</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	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 10th day of April, 20 15.

Received  
KANSAS CORPORATION COMMISSION

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

For Company  Checked by \_\_\_\_\_

APR 13 2015  
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.

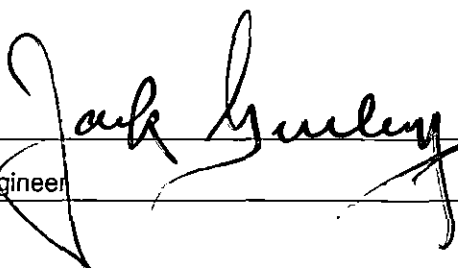
I hereby request a one-year exemption from open flow testing for the Shea Nicholas #1 gas well on the grounds that said well:

(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: 04/10/15 Average daily rate during 2014 equals 15 MCFD.

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 - OIL

Kingman COUNTY  
KS STATE

FROM A.M. 3-26 2015 TO A.M. 4-1 2015

Shea-Nicholas  
Spivey-Grabs

LEASE FIELD

TANK NUMBER	DATE			DATE			DATE			DATE			DATE			DATE					
	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS	FT.	INS.	BARRELS			
16061										8	4	167									
STOCK A.M. TODAY												167									
PLUS P/L RUNS YEST.																					
TOTAL																					
LESS STOCK YESTERDAY												167									
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 FT.	TO FT.	INS.	INS.	GROSS BARRELS	GVTY.	TEMP.	TANK % BSW	TEMP.	WELL NO.	CHOKE SPM	TBG. PR. SL	CSG. PR. PLGR. D.	EST. BOPD	WATER %	EST. BWPD	26	27	28	29		30	31	4/1	
																											Shut-In For 72 Hr Tests
																											#1
TOTAL GROSS RUNS THIS PERIOD							—	ALLOWABLE					SIZE METER RUN & ORIFICE: 2 1/2" x .500				HEATER TEMP.:										
GROSS RUNS PREVIOUS PERIODS								RUNS					AVG. DIFF. & LINE PRESS.: /				PINTS EMULSION CHEM./DAY:				SIGNED						
TOTAL GROSS RUNS THIS MONTH								OVER <input type="checkbox"/>					TOTAL BWPD ON LEASE: 1				PINTS INHIBITOR/DAY:				PUMPER						

Received KANSAS CORPORATION CONTRACT NO. 27

APR 13 7:10 P M  
CONSERVATION DIVISION  
WICHITA, KS

Meter-51318  
[Signature]

2010

11				
12	12001	-	2.77	33243
13	9629	-	3.44	33124
14	9720	-	3.89	37811

Cost.  $\$$  2350/yr SW well Maint  
3500/yr

Drilled in 1959  
 Going down hill

Need Reg & P.V.

Had 2 csq repair - 8455

Had @

2711ft  
 Deep  
 500ft

Disc run 3 -  
 Last 4 yrs only 2

1958  
 1959  
 1960  
 1961  
 1962