

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
N/A (Well Exempt)

API No. 15  
007-22985-00-00

Company <b>Lasso Energy LLC</b>		Lease Packard		Well Number 1-32	
County Barber	Location NE NW SE	Section 32	TWP 31S	RNG (E/W) 12W	Acres Attributed
Field Medicine river		Reservoir Mississippi		Gas Gathering Connection Lumen Midstream Partnership LLC	
Completion Date 03-29-06		Plug Back Total Depth 4437		Packer Set at N/A	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 4528	Perforations 4197	To 4217
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 1.995	Set at 4220	Perforations N/A	To
Type Completion (Describe) Gas		Type Fluid Production Gas, Water		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing, Annulus		% Carbon Dioxide see attached		% Nitrogen Gas Gravity - G <sub>g</sub>	
Vertical Depth(H)		Pressure Taps		(Meter Run) (Prover) Size	
Pressure Buildup: Shut in <u>Nov 21</u> 20 <u>11</u> at <u>11:00 a.m.</u> (AM) (PM) Taken <u>Nov 22</u> 20 <u>11</u> at <u>11:00 a.m.</u> (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						220		220		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>tt</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>a</sub>)<sup>2</sup> = 0.207

(P<sub>d</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>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" 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 17 day of May, 2012.

\_\_\_\_\_  
Witness (if any)

\_\_\_\_\_  
For Commission

*Lasso Energy LLC*  
\_\_\_\_\_  
For Company  
*[Signature]*  
Checked by

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MAY 21 2012

KCC WICHITA

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 Lasso Energy LLC 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 Packard #1-32 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: 05/17/2012

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.

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**MEASUREMENT SOLUTIONS INC.**

6705 East 81st Street Suite 155 Tulsa, OK 74133  
 Telephone 918-493-2700 Fax 918-493-2704

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10/1/2007

**GAS ANALYSIS REPORT**

METER NUMBER :	2607	SAMPLE TYPE :	SPOT
METER NAME :	PACKARD #1-32	SAMPLE DATE :	09/13/2007
METER ID :	PRATT	SAMPLE PRES / TEMP :	79 / 86
PRODUCER :	PRAIRIE RESOURCES	SAMPLED BY :	CW
COMPANY :	LUMEN ENERGY	EFFECTIVE DATE :	10/01/2007

COMPONENT	PERCENT	<u>BTU VALUES @ 14.65</u>		<u>BTU VALUES @ 14.73</u>	
Helium He	0.3225	REAL DRY	1111.35	REAL DRY	1117.42
Oxygen O2	0.0000	REAL WET	1091.90	REAL WET	1097.86
Hydrogen Sulfide H2S	0.0000				
Carbon Dioxide CO2	0.1218				
Nitrogen N2	9.5834				
Methane C1	74.8162	<u>GPM VALUES @ 14.65</u>		<u>GPM VALUES @ 14.73</u>	
Ethane C2	7.8849	C2	2.0961	C2	2.1076
Propane C3	4.3595	C3	1.1938	C3	1.2003
I-Butane IC4	0.6082	IC4	0.1979	IC4	0.1989
N-Butane nC4	1.3173	nC4	0.4130	nC4	0.4153
I-Pentane IC5	0.2673	IC5	0.0973	IC5	0.0979
N-Pentane nC5	0.3145	nC5	0.1133	nC5	0.1139
Hexane Plus C6+	0.4044	C6+	0.1755	C6+	0.1764
TOTALS	100.0000		4.2869		4.3103

SPECIFIC GRAVITY

REAL DRY 0.7259  
 REAL WET 0.7241

COMPRESSIBILITY FACTOR

Z FACTOR DRY 0.9972  
 Z FACTOR WET 0.9971

GALLONS PER THOUSAND

GPM TOTALS @ 14.65

C2 + GPM 4.2869  
 C3 + PGM 2.1908  
 C4 + GPM 0.9970  
 C5 + GPM 0.3861

GPM TOTALS @ 14.73

C2 + GPM 4.3103  
 C3 + PGM 2.2027  
 C4 + GPM 1.0024  
 C5 + GPM 0.3882

COMMENTS :

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KCC WICHITA

VR CUNRY, Inc.

918-367-8824

**GAS ANALYSIS REPORT**

Number	000009	Type	POTENTIAL
Name	PACKARD # 1-32	Date	08/08/2006
Company	GLA-LUMBN	Effective	05/01/2008
		Pressure	480
		Temp	62
		Sample By	G.MAIER

Component	PerCent	BTU @ 14.66	BTU @ 14.73
Hellum	0.3802	Real DRY 1088.0323	Real DRY 1088.0574
Oxygen	0.0000	Real WET 1088.0442	Real WET 1071.8868
N2	0.0000		
Car Dioxide	0.0562	GPM @ 14.66	GPM @ 14.73
Nitrogen	10.0016	Ethane 1.9886	Ethane 2.0008
Methane	76.6888	Propane 1.1027	Propane 1.1087
Ethane	7.4843	I-Butane 0.1708	I-Butane 0.1714
Propane	4.0267	N-Butane 0.3513	N-Butane 0.3521
I-Butane	0.6241	(i-Pentane 0.0820	I-Pentane 0.0824
N-Butane	1.0568	N-Pentane 0.0887	N-Pentane 0.0902
I-Pentane	0.2253	Hexane + 0.1857	Hexane + 0.1864
N-Pentane	0.2857	Totals: 3.0076	Totals: 3.9287
Hexane +	0.3127		
Total:	100.0000		

**SPECIFIC GRAVITY**

Real	0.7122
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**COMPRESS FACTOR**

Z Factor	0.8873
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**GPM @ 14.66**

C2+ GPM	3.9076
C3+ GPM	1.9179
C4+ GPM	0.8182
C5+ GPM	0.3134

**GPM TOTALS:**

**GPM @ 14.73**

C2+ GPM	3.9287
C3+ GPM	1.9282
C4+ GPM	0.8196
C5+ GPM	0.3160

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