

# KANSAS CORPORATION COMMISSION

## ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
05/18/2012

API No. ~~300~~  
15-119-20-125 - 00-00

Company <b>CHAPARRAL ENERGY</b>		Lease <b>BARAGREE</b>		Well Number <b>1-30</b>	
County <b>MEADE</b>	Location	Section <b>30</b>	TWP <b>34</b>	RNG (E/W) <b>27W</b>	Acres Attributed
Field		Reservoir <b>CHESTER</b>	Gas Gathering Connection <b>DCP</b>		
Completion Date <b>05/18/2012</b>		Plug Back Total Depth		Packer Set at <b>6072</b>	
Casing Size <b>4/12</b>	Weight <b>9.5</b>	Internal Diameter <b>4.090</b>	Set at <b>6314</b>	Perforations	To
Tubing Size <b>23/8</b>	Weight <b>4.7</b>	Internal Diameter <b>1.995</b>	Set at <b>5072</b>	Perforations <b>6139</b>	To <b>6157</b>
Type Completion (Describe) <b>SINGLE</b>		Type Fluid Production <b>WATER</b>		Pump Unit or Traveling Plunger? Yes / No <b>NO</b>	
Producing Thru (Annulus / Tubing) <b>TUBING</b>		% Carbon Dioxide <b>.313</b>		% Nitrogen <b>1.323</b>	
Vertical Depth(H) <b>6148</b>		Pressure Taps <b>FLG</b>		(Meter Run) (Prover) Size <b>3.067</b>	
Pressure Buildup: Shut In <b>05/17</b> 20 <b>12</b> at <b>10:00</b> (AM) (PM) Taken <b>05/18</b> 20 <b>12</b> at <b>10:00</b> (AM) (PM)					
Well on Line: Started <b>05/18</b> 20 <b>12</b> at <b>10:00</b> (AM) (PM) Taken <b>05/19</b> 20 <b>12</b> at <b>10:00</b> (AM) (PM)					

### OBSERVED SURFACE DATA

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>i</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						140	154.4	22	36.4	24	0 WATER
Flow	0.500	95.4	39	60	74	24.7	49.1	12.0	26.4	24	0 OIL

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>d</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pr</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
1.214	109.8	65.20	1.215	1.000	1.020	98		.6773

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>1</sub>)<sup>2</sup> = 23.84 : (P<sub>2</sub>)<sup>2</sup> = 2.41 : P<sub>2</sub> = \_\_\_\_\_ % (P<sub>2</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>1</sub>)<sup>2</sup> = 0.207 (P<sub>2</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>1</sub> ) <sup>2</sup> - (P <sub>2</sub> ) <sup>2</sup> or (P <sub>1</sub> ) <sup>2</sup> - (P <sub>2</sub> ) <sup>2</sup>	(P <sub>1</sub> ) <sup>2</sup> - (P <sub>2</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>1</sub> <sup>2</sup> - P <sub>2</sub> <sup>2</sup> 2. P <sub>1</sub> <sup>2</sup> - P <sub>2</sub> <sup>2</sup> divided by: P <sub>2</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1, or 2, and divide by: $\frac{P_1^2 - P_2^2}{P_2^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
23.63	21.43	1.10266	0.42442	.850	036075	1.08661	106

Open Flow **106** 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 MAY, 20 12.

**RECEIVED**

**JUN 07 2012**

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

Signature: *J. W. Christen* For Company: **THURMOND-MCGLOTHLIN, INC.**  
Checked by \_\_\_\_\_

**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 Chaparral Energy, L.L.C. 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 Baragree 1-30 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: 5/31/2012

Signature:   
 Title: Sr. Engineering Technician I / Regulatory

**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.

GAS TESTING AND MEASUREMENT  
PETROLEUM LABORATORY  
PHYSICAL TEST  
GAS SURVEYS

GAS PRODUCTION SURVEYS  
BACK PRESSURE TESTS  
ELECTRONIC VOLUMES  
CHART INTEGRATION

# THURMOND-McGLOTHLIN, INC.

## NATURAL GAS MEASUREMENT

P.O. Box 2358  
Pampa, Texas 79066  
806-665-5700

COMPONENTS	MOL %	GPM	DATE RUN:	May 21, 2012
Carbon Dioxide	0.313		COMPANY:	Chaparral Energy
Nitrogen	1.323		PURCHASER:	
Methane	88.013	13.030	LEASE:	Baragree 1-30
Ethane	4.860	1.292	STATION:	
Propane	2.249	0.616	PRESSURE:	4.7 Psia
iso-Butane	0.348	0.113	TEMPERATURE:	78 F
n-Butane	0.729	0.228	CYLINDER:	3020
iso-Pentane	0.251	0.091	ANALYSIS BY:	JC
n-Pentane	0.265	0.096	SECURED BY:	CC
Hexane +	1.649	0.716	DATE SAMPLED:	5/18/2012
			Run No:	10149
	100.000			

### GASOLINE CONTENT @ 14.65 PSIA & 60 F

	GPM
PROPANE & HEAVIER	1.860
BUTANE & HEAVIER	1.244
PENTANE & HEAVIER	0.903

REMARKS:  
Meade County Ks.  
One Point

### RESULTS TO:

Gross Heating Value  
BTU @ 14.65 PSIA & 60 F  
Dry 1168.2  
Wet 1147.8

SPECIFIC GRAVITY  
0.6773

\*Based on GPA 2145-09 & 2172-09

*Natural gas is one of our Most Valuable and Profitable Properties. Careful  
Conservation and Expert Handling will pay Abundant Dividends.*

RECEIVED  
JUN 07 2012  
KCC WICHITA