

1600 E. Murdock Wichita, KS 67214

For Maintenance or Recalibration call:  
Phone: (866) 384-3010  
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# Torque Wrench

## Calibration Report For:

## Eagle Rock Energy - Canadian TX

Eagle Rock Energy  
Terry Clark  
14907 CR N.  
Canadian, TX 79014

Calibration Date:	31 Jul 2013
Calibration Number:	130731.26A.6
Temperature:	75.10°F
Humidity:	56.00% RH

### Test Instrument Identification

Manufacturer:	SNAP-ON	Model:	TQR600C
Type:	Manual wrench	Serial Number:	16426
Wrench Type:	2	Wrench Class:	A

Standard Testing Points or Instrument Settings		Instrument "As Found" Readings [1] (FT-LB)						Instrument "As Left" Readings [2] (FT-LB)						Low Limit	High Limit
		1	2	3	4	5	AVG	1	2	3	4	5	AVG	-4%	+4%
240	Reading	242.6	237.0	242.4	238.8	241.4	<b>240.4</b>	242.6	237.0	242.4	238.8	241.4	<b>240.4</b>	230.4	249.6
	Deviation %	1.08	-1.25	1.00	-0.50	0.58	<b>0.18</b>	1.08	-1.25	1.00	-0.50	0.58	<b>0.18</b>		
360	Reading	357.4	362.4	364.5	368.4	362.0	<b>362.9</b>	357.4	362.4	364.5	368.4	362.0	<b>362.9</b>	345.6	374.4
	Deviation %	-0.73	0.66	1.25	2.33	0.55	<b>0.81</b>	-0.73	0.66	1.25	2.33	0.55	<b>0.81</b>		
600	Reading	616.0	615.5	615.8	616.9	614.2	<b>615.7</b>	616.0	615.5	615.8	616.9	614.2	<b>615.7</b>	576.0	624.0
	Deviation %	2.66	2.57	2.63	2.81	2.36	<b>2.61</b>	2.66	2.57	2.63	2.81	2.36	<b>2.61</b>		

### Remarks

This manual wrench was tested in the absence of any side-loading.  
Readings were taken at 20%, 60%, and 100% settings of the tool's maximum torque scale (if applicable).

- (1) "As Found" Data: **IN TOLERANCE**  
Test Instrument was found within applicable tolerance levels.  
(2) "As Left" Data: **IN TOLERANCE, RESTRICTED WITH CHART**  
Test Instrument was left within applicable tolerance levels.

Technician Comments:

  
Jason Hankins, Calibration Technician

### Notes

- A. This accredited organization maintains both A2LA accreditation to ISO/IEC 17025 for the specific tests/calibrations listed in A2LA Certificate #3040.01, and ISO 6789.  
B. Environmental conditions were held within MobileCal's standards of 60 to 88 degrees Fahrenheit and below 90% relative humidity.  
C. All readings have an expanded uncertainty of .83% for up to 50 ft-lb, .20% for up to 500 ft-lb and .15% for up to 2,000 ft-lb (k=2).  
D. Procedures for this calibration method are outlined in the MobileCal Quality Management Procedure Manual Version 3.0.  
E. All standards and associated equipment used to calibrate this instrument have been calibrated and are traceable to A2LA accreditation and the National Institute of Standards and Technology (NIST).  
F. Customer acknowledges and agrees that MobileCal's standard sales terms and conditions are incorporated herein by reference and made a part of this calibration report.  
G. This document relates only to the test instrument listed on this certificate and cannot be reproduced, except in full, without written approval of MobileCal.  
H. Calibration performed and valid for Clockwise Direction only.  
I. This calibration document is followed by a Calibration Schedule page.



## Calibration Laboratory Location #6: Certification Schedule

Capacity	Item	Serial #	Model #	Report #	Date Cal'd	Date Due Cal
300 PSI	Pressure gauge	2999825	DPI 104	1001427247	2/11/2013	2/11/2014
3000 PSI	Pressure gauge	3032755	DPI 104	1001427249	2/11/2013	2/11/2014
10000 PSI	Pressure gauge	3065743	DPI 104	1001427248	2/11/2013	2/11/2014
600 In/LBS	AKO Transducer	5139 20505	TSD 111/050	26238	2/20/2013	2/20/2014
600 Ft/LBS	CDI Transducer	110005462	60004-F-MT	1001427252	2/20/2013	2/20/2014
250 Ft/LBS	CDI Transducer	608880102	2503-F-MT	1001427254	2/20/2013	2/20/2014
5000 Ft/LBS	AKO Transducer	5140 20505	TSD 511	26238	2/20/2013	2/20/2014
1500 Ft/LBS	CDI Transducer	1109012823	15005-F-MT	1001427253	2/21/2013	2/21/2014
2000 Ft/LBS	AKO Transducer	5141 20505	TSD 2011	26238	2/20/2013	2/20/2014
20000 Ft/LBS	AKO Transducer	5142 20505	TSD 20011	26238	2/20/2013	2/20/2014
UNK	Hygro-Thermometer	NONE	445703	MC0002	2/18/2013	2/18/2014