



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1211292  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1211292

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Oliver 3306 2-14H
Doc ID	1211292

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	7081-7083	750 gals of 15% HCL, 3259 bbls fresh slickwater, TLTR: 3313	
2	6986-6988	750 gals of 15% HCL, 1948 bbls fresh slickwater, TLTR: 5261	
2	6891-6893	750 gals of 15% HCL, 1923 bbls fresh slickwater, TLTR: 7184	
2	6797-6799	750 gals of 15% HCL, 1957 bbls fresh slickwater, TLTR: 9141	
2	6702-6704	750 gals of 15% HCL, 1948 bbls fresh slickwater, TLTR: 11089	
2	6607-6609	750 gals of 15% HCL, 1921 bbls fresh slickwater, TLTR: 13010	
2	6513-6515	750 gals of 15% HCL, 1936 bbls fresh slickwater, TLTR: 14946	
2	6417-6419	750 gals of 15% HCL, 1941 bbls fresh slickwater, TLTR: 16887	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Oliver 3306 2-14H
Doc ID	1211292

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	6322-6324	750 gals of 15% HCL, 1928 bbls fresh slickwater, TLTR: 18815	
2	6227-6229	750 gals of 15% HCL, 1937 bbls fresh slickwater, TLTR: 20752	
2	6132-6134	750 gals of 15% HCL, 1945 bbls fresh slickwater, TLTR: 22697	
2	6037-6039	750 gals of 15% HCL, 1949 bbls fresh slickwater, TLTR: 24646	
2	5942-5944	750 gals of 15% HCL, 1923 bbls fresh slickwater, TLTR: 26569	
2	5847-5849	750 gals of 15% HCL, 1923 bbls fresh slickwater, TLTR: 28492	
2	5750-5752	750 gals of 15% HCL, 1934 bbls fresh slickwater, TLTR: 30426	
2	5655-5657	750 gals of 15% HCL, 1990 bbls fresh slickwater, TLTR: 32416	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Oliver 3306 2-14H
Doc ID	1211292

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	5655-5657	750 gals of 15% HCL, 2005 bbls fresh slickwater, TLTR: 34421	



# Mid-Continent Conductor, LLC

# Invoice

Date	Invoice #
3/13/2014	2507

P.O. Box 1570  
Woodward, OK 73802  
Phone: (580)254-5400  
Fax: (580)254-3242

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Carl Miller	Net 30	3/13/2014	Oliver 3306 2-14H, Harper Cnty, KS	Lariat 40

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole.
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe.
Mouse Hole	80	Drilled 80 ft. mouse hole.
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe.
Cellar Hole	1	Drilled 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Transport Truck - Conductor	1	Transport mud and water to location.
Grout & Trucking	10	Furnished 10 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump.
Fence Panels	1	Furnished and set safety netting around holes.
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor and equipment for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC13727  
Well Name: Oliver 3306 2-14H  
Code: 850.010  
Amount: 17,850  
Co. Man: Jackie Kennedy  
Co. Man Sig: [Signature]  
Notes:

<b>Subtotal</b>	\$17,850.00
<b>Sales Tax (0.0%)</b>	\$0.00

<b>Total</b>	<b>\$17,850.00</b>
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<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3525</b>	TICKET DATE <b>03/22/14</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Dridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Jackie Kennedy</b>	
LEASE NAME <b>Oliver 3306</b>	Well No. <b>2-14H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Arthur Setzer</b>	

EMP NAME					
Arthur Setzer		0			
Jared Green					
David Settlemier					
0.00					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At 0  
Bottom Hole Temp. 80 Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth 650

Date	Called Out <b>3/22/2014</b>	On Location <b>3/22/2014</b>	Job Started <b>3/22/2014</b>	Job Completed <b>3/22/2014</b>
Time	<b>0500</b>	<b>1300</b>	<b>1530</b>	<b>1800</b>

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		36#	9 1/2"		Surface	654
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	650
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water	BBL.	10
Spacer type	BBL.		
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	

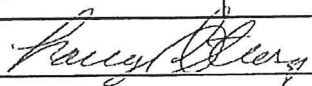
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/22	5.0	3/22	2.0	Surface
Total	5.0	Total	2.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_

Pressures		
MAX	1,500 PSI	AVG. 150
Average Rates in BPM		
MAX	6 BPM	AVG 5
Cement Left in Pipe		
Feet	46	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	180	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/2pps Cello-Flake - .4% C-41P	11.11	2.01	12.40
2	130	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	Lost Returns-1 _____	Actual TOC _____	Bump Plug PSI: _____
Average	5 Min. _____	10 Min _____	15 Min _____	Final Circ. _____	Cement Slurry _____
				Total Volume _____	
				BBI _____	
				10.00	
				N/A	
				55	
				SURFACE	
				150	
				94.0	
				151.00	
				Type: Fresh Water	
				Pad:Bbl -Gal _____	N/A
				Calc.Disp Bbl _____	47
				Actual Disp. _____	47.00
				Disp:Bbl _____	47.00

CUSTOMER REPRESENTATIVE \_\_\_\_\_  
  
SIGNATURE \_\_\_\_\_



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 3566</b>	TICKET DATE <b>03/30/14</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Larry Strong</b>	
LEASE NAME <b>Oliver 3306</b>	Well No. <b>2-14H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Bryan Douglas</b>	

EMP NAME	Bryan Douglas	0					
	Rocky Anthis						
	Flo Helkena						
	Paul Thomas						

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**  
 Bottom Hole Temp. **155** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **-5,491'**

Date	Called Out	On Location	Job Started	Job Completed
	<b>3/29/2014</b>	<b>3/30/2014</b>	<b>3/30/2014</b>	<b>3/30/2014</b>
Time	<b>2000</b>	<b>0000</b>	<b>0500</b>	<b>0800</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		26#	7"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"		Surface	5,491'
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	<b>9</b> Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b> Lb/Gal
Spacer type	Gel BBL.		<b>30</b> <b>8.33</b>
Spacer type	BBL.		
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		ln
NE Agent	Gal.		ln
Fluid Loss	Gal/Lb		ln
Gelling Agent	Gal/Lb		ln
Fric. Red.	Gal/Lb		ln
MISC.	Gal/Lb		ln

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/30	8.0	3/30	3.0	Intermediate
				1 BBL BACK
Total	8.0	Total	3.0	

Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

Pressures		
MAX	5,000 PSI	AVG. 800
Average Rates in BPM		
MAX	8 BPM	AVG 5
Cement Left in Pipe		
Feet	84	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	255	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary						
Preflush	<b>10</b>	Type:	Gel	Preflush:	BBI	<b>30.00</b>
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A
		Actual TOC	2,394	Calc. TOC:		2,394
Average		Bump Plug PSI:	1,700	Final Circ.	PSI:	1,200
ISIP	5 Min.	10 Min.	15 Min.	Cement Slurry:	BBI	86.1
				Total Volume	BBI	322.16

CUSTOMER REPRESENTATIVE \_\_\_\_\_ *Larry Strong* SIGNATURE



# **Sandridge Energy, INC.(mid-con.)**

**Harper Co. (KS27S)**

**Sec 14-T35S-06W**

**Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**16 April, 2014**

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40
<b>Project:</b>	Harper Co. (KS27S)	<b>TVD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Site:</b>	Sec 14-T35S-06W	<b>MD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Well:</b>	Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b> Harper Co. (KS27S)	
<b>Map System:</b>	US State Plane 1927 (Exact solution)
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)
<b>Map Zone:</b>	Kansas South 1502
<b>System Datum:</b>	Mean Sea Level

<b>Site</b> Sec 14-T35S-06W		
<b>Site Position:</b>	<b>Northing:</b> 183,030.00 usft	<b>Latitude:</b> 37° 10' 4.685 N
<b>From:</b> Map	<b>Easting:</b> 2,164,336.00 usft	<b>Longitude:</b> 97° 56' 9.770 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.35 °

<b>Well</b> Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40			
<b>Well Position</b>	<b>+N-S</b> 0.0 usft	<b>Northing:</b> 183,030.00 usft	<b>Latitude:</b> 37° 10' 4.685 N
	<b>+E-W</b> 0.0 usft	<b>Easting:</b> 2,164,336.00 usft	<b>Longitude:</b> 97° 56' 9.770 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 1,286.0 usft

<b>Wellbore</b> Wellbore #1					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2014/03/18	4.30	65.24	51,698

<b>Design</b> Wellbore #1					
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N-S (usft)</b>	<b>+E-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0		349.91

<b>Survey Program</b>		<b>Date</b> 2014/04/16		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
250.0	7,391.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N-S (usft)</b>	<b>+E-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
250.0	0.30	12.00	250.0	0.6	0.1	0.6	0.12	0.12	0.00	
<b>First Single Shot Survey</b>										
500.0	0.52	12.00	500.0	2.4	0.5	2.3	0.09	0.09	0.00	
<b>Last Single Shot Survey</b>										
788.0	0.50	12.00	788.0	4.9	1.0	4.6	0.01	-0.01	0.00	
<b>First Archer MWD Surveys</b>										
879.0	0.10	220.40	879.0	5.2	1.1	5.0	0.65	-0.44	-166.59	
970.0	0.80	43.60	970.0	5.6	1.5	5.3	0.99	0.77	-194.29	
1,429.0	0.80	4.80	1,428.9	11.1	3.9	10.3	0.12	0.00	-8.45	

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40
<b>Project:</b>	Harper Co. (KS27S)	<b>TVD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Site:</b>	Sec 14-T35S-06W	<b>MD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Well:</b>	Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,905.0	0.70	143.40	1,904.9	12.1	5.9	10.9	0.29	-0.02	29.12
2,379.0	0.60	224.20	2,378.9	8.0	5.9	6.8	0.18	-0.02	17.05
2,852.0	0.50	272.20	2,851.9	6.3	2.2	5.8	0.10	-0.02	10.15
3,326.0	0.40	36.70	3,325.9	7.7	1.1	7.4	0.17	-0.02	26.27
3,357.0	0.40	35.50	3,356.9	7.9	1.2	7.6	0.03	0.00	-3.87
3,389.0	0.70	304.50	3,388.9	8.1	1.1	7.8	2.54	0.94	-284.38
3,421.0	3.30	291.80	3,420.8	8.6	0.1	8.4	8.19	8.13	-39.69
3,452.0	6.10	290.50	3,451.7	9.5	-2.3	9.7	9.04	9.03	-4.19
3,484.0	8.10	291.40	3,483.5	10.9	-6.0	11.8	6.26	6.25	2.81
3,516.0	10.30	292.10	3,515.1	12.8	-10.7	14.5	6.88	6.88	2.19
3,547.0	12.10	287.90	3,545.5	14.8	-16.4	17.5	6.37	5.81	-13.55
3,579.0	13.40	284.80	3,576.7	16.8	-23.2	20.6	4.59	4.06	-9.69
3,610.0	14.20	283.70	3,606.8	18.6	-30.3	23.6	2.72	2.58	-3.55
3,642.0	14.90	284.90	3,637.8	20.6	-38.1	27.0	2.38	2.19	3.75
3,674.0	16.80	285.30	3,668.6	22.9	-46.6	30.7	5.95	5.94	1.25
3,706.0	18.90	286.20	3,699.0	25.5	-56.0	35.0	6.62	6.56	2.81
3,737.0	21.30	286.90	3,728.1	28.6	-66.2	39.7	7.78	7.74	2.26
3,769.0	23.80	287.10	3,757.7	32.2	-77.9	45.3	7.82	7.81	0.63
3,801.0	26.80	287.50	3,786.6	36.2	-91.0	51.6	9.39	9.38	1.25
3,832.0	29.30	288.90	3,814.0	40.8	-104.8	58.5	8.34	8.06	4.52
3,863.0	31.80	289.50	3,840.7	46.0	-119.7	66.2	8.12	8.06	1.94
3,895.0	35.20	289.50	3,867.3	51.9	-136.4	75.0	10.63	10.63	0.00
3,926.0	38.70	289.10	3,892.1	58.0	-153.9	84.1	11.32	11.29	-1.29
3,958.0	40.00	287.80	3,916.9	64.5	-173.2	93.8	4.81	4.06	-4.06
3,990.0	40.80	285.90	3,941.2	70.5	-193.0	103.2	4.59	2.50	-5.94
4,021.0	43.40	284.60	3,964.2	75.9	-213.1	112.1	8.85	8.39	-4.19
4,053.0	46.50	283.90	3,986.9	81.5	-235.0	121.4	9.81	9.69	-2.19
4,085.0	48.90	284.50	4,008.4	87.3	-257.9	131.1	7.63	7.50	1.88
4,116.0	51.60	286.90	4,028.2	93.7	-280.9	141.5	10.55	8.71	7.74
4,148.0	53.90	290.10	4,047.6	101.8	-305.0	153.7	10.72	7.19	10.00
4,179.0	55.40	292.80	4,065.5	111.1	-328.6	166.9	8.59	4.84	8.71
4,211.0	56.60	294.70	4,083.4	121.8	-352.8	181.7	6.19	3.75	5.94
4,244.0	57.70	296.50	4,101.3	133.8	-377.8	197.9	5.67	3.33	5.45
4,275.0	60.10	298.00	4,117.3	145.9	-401.4	214.0	8.78	7.74	4.84
4,307.0	61.30	299.90	4,133.0	159.4	-425.8	231.6	6.39	3.75	5.94
4,338.0	62.40	300.90	4,147.6	173.3	-449.4	249.3	4.55	3.55	3.23
4,371.0	62.90	303.10	4,162.8	188.8	-474.3	269.0	6.11	1.52	6.67
4,402.0	63.90	306.20	4,176.7	204.5	-497.1	288.5	9.51	3.23	10.00
4,431.0	65.20	308.90	4,189.1	220.5	-517.8	307.8	9.53	4.48	9.31
4,463.0	66.60	310.80	4,202.2	239.2	-540.2	330.2	6.97	4.38	5.94
4,494.0	66.50	313.10	4,214.5	258.2	-561.4	352.6	6.81	-0.32	7.42
4,526.0	65.70	314.60	4,227.5	278.5	-582.5	376.2	4.96	-2.50	4.69
4,558.0	65.10	316.70	4,240.8	299.3	-602.8	400.3	6.25	-1.88	6.56

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40
<b>Project:</b>	Harper Co. (KS27S)	<b>TVD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Site:</b>	Sec 14-T35S-06W	<b>MD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Well:</b>	Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

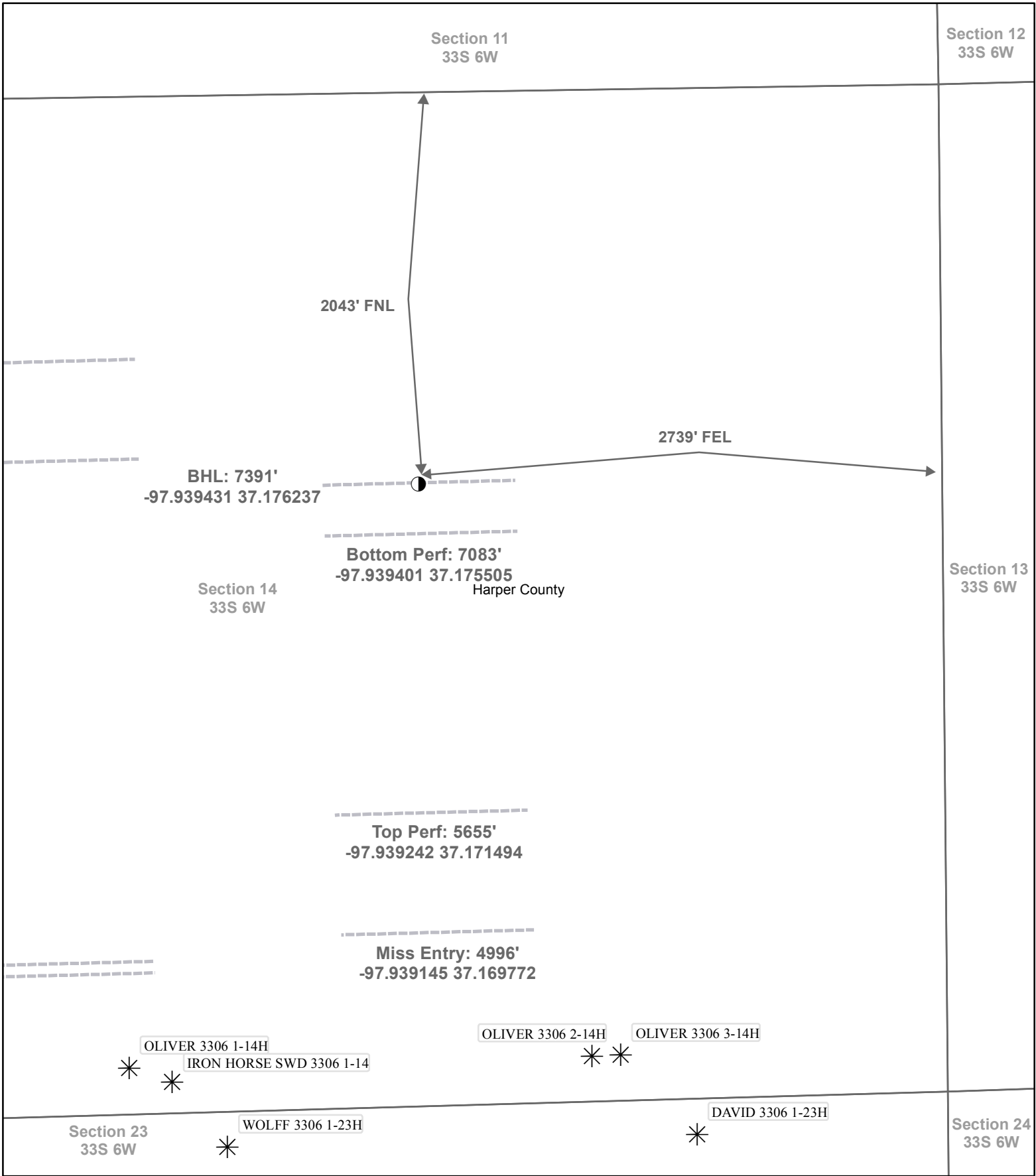
Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,590.0	64.60	318.90	4,254.4	320.8	-622.3	424.8	6.42	-1.56	6.88
4,622.0	65.10	321.60	4,268.0	343.0	-640.8	450.0	7.80	1.56	8.44
4,634.9	65.50	322.45	4,273.4	352.3	-648.0	460.4	6.74	3.10	6.59
<b>PBHL Flynn 1</b>									
4,654.0	66.10	323.70	4,281.3	366.2	-658.5	475.9	6.74	3.14	6.54
4,686.0	66.90	326.30	4,294.0	390.2	-675.3	502.5	7.86	2.50	8.13
4,717.0	68.60	328.70	4,305.8	414.4	-690.7	529.0	9.02	5.48	7.74
4,749.0	71.20	331.00	4,316.7	440.4	-705.8	557.3	10.56	8.13	7.19
4,781.0	73.20	333.60	4,326.5	467.4	-720.0	586.3	9.94	6.25	8.13
4,812.0	75.20	335.80	4,335.0	494.3	-732.7	615.1	9.39	6.45	7.10
4,844.0	76.70	338.10	4,342.7	522.9	-744.9	645.3	8.40	4.69	7.19
4,875.0	77.50	341.50	4,349.7	551.3	-755.3	675.1	11.00	2.58	10.97
4,907.0	78.60	344.30	4,356.3	581.2	-764.5	706.1	9.22	3.44	8.75
4,938.0	79.30	346.80	4,362.2	610.6	-772.1	736.5	8.23	2.26	8.06
4,969.0	79.90	348.80	4,367.8	640.4	-778.5	766.9	6.63	1.94	6.45
5,001.0	80.40	351.00	4,373.3	671.5	-784.1	798.5	6.95	1.56	6.88
5,033.0	80.80	353.40	4,378.5	702.8	-788.3	830.0	7.50	1.25	7.50
5,064.0	81.70	355.60	4,383.3	733.3	-791.3	860.5	7.59	2.90	7.10
5,127.0	84.00	359.00	4,391.1	795.7	-794.2	922.5	6.48	3.65	5.40
5,172.0	84.90	359.50	4,395.4	840.5	-794.8	966.7	2.29	2.00	1.11
5,222.0	86.20	359.70	4,399.3	890.3	-795.1	1,015.9	2.63	2.60	0.40
5,267.0	87.40	359.80	4,401.8	935.2	-795.3	1,060.1	2.68	2.67	0.22
5,316.0	88.80	359.70	4,403.5	984.2	-795.6	1,108.4	2.86	2.86	-0.20
5,348.0	89.50	359.60	4,403.9	1,016.2	-795.7	1,139.9	2.21	2.19	-0.31
5,379.0	90.40	359.70	4,404.0	1,047.2	-795.9	1,170.5	2.92	2.90	0.32
5,411.0	91.30	359.70	4,403.5	1,079.2	-796.1	1,202.0	2.81	2.81	0.00
5,545.0	93.30	358.90	4,398.1	1,213.1	-797.7	1,334.1	1.61	1.49	-0.60
5,637.0	91.00	359.10	4,394.7	1,305.0	-799.3	1,424.9	2.51	-2.50	0.22
5,728.0	90.00	358.30	4,393.9	1,396.0	-801.4	1,514.8	1.41	-1.10	-0.88
5,821.0	89.20	358.70	4,394.5	1,488.9	-803.8	1,606.7	0.96	-0.86	0.43
5,913.0	90.50	357.10	4,394.8	1,580.9	-807.2	1,697.8	2.24	1.41	-1.74
6,004.0	90.90	357.50	4,393.6	1,671.8	-811.5	1,788.1	0.62	0.44	0.44
6,094.0	90.90	358.90	4,392.2	1,761.7	-814.3	1,877.1	1.56	0.00	1.56
6,185.0	90.50	359.40	4,391.1	1,852.7	-815.7	1,966.9	0.70	-0.44	0.55
6,276.0	90.40	359.50	4,390.4	1,943.7	-816.6	2,056.7	0.16	-0.11	0.11
6,368.0	91.50	0.30	4,388.9	2,035.7	-816.7	2,147.3	1.48	1.20	0.87
6,460.0	90.90	0.50	4,387.0	2,127.6	-816.1	2,237.7	0.69	-0.65	0.22
6,551.0	87.30	0.10	4,388.4	2,218.6	-815.6	2,327.2	3.98	-3.96	-0.44
6,643.0	86.30	0.40	4,393.5	2,310.5	-815.2	2,417.5	1.13	-1.09	0.33
6,735.0	89.60	0.00	4,396.8	2,402.4	-814.9	2,508.0	3.61	3.59	-0.43
6,828.0	91.90	0.10	4,395.6	2,495.4	-814.8	2,599.5	2.48	2.47	0.11
6,924.0	89.60	0.10	4,394.3	2,591.4	-814.6	2,694.0	2.40	-2.40	0.00

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40
<b>Project:</b>	Harper Co. (KS27S)	<b>TVD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Site:</b>	Sec 14-T35S-06W	<b>MD Reference:</b>	WELL @ 1304.0usft (Original Well Elev)
<b>Well:</b>	Oliver 3306 2-14H/Job # 04724-431-22/Lariat 40	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,019.0	90.40	0.00	4,394.3	2,686.4	-814.5	2,787.5	0.85	0.84	-0.11	
7,113.0	92.70	359.60	4,391.8	2,780.3	-814.9	2,880.1	2.48	2.45	-0.43	
7,208.0	93.50	359.00	4,386.7	2,875.2	-816.0	2,973.7	1.05	0.84	-0.63	
7,303.0	91.30	359.10	4,382.7	2,970.1	-817.6	3,067.4	2.32	-2.32	0.11	
7,334.0	90.90	359.60	4,382.1	3,001.1	-818.0	3,097.9	2.07	-1.29	1.61	
<b>Last Archer MWD Surveys</b>										
7,391.0	90.50	359.60	4,381.4	3,058.1	-818.3	3,154.1	0.70	-0.70	0.00	
<b>Projection to TD - PBHL Oliver 2-14H</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.0	250.0	0.6	0.1	First Single Shot Survey	
500.0	500.0	2.4	0.5	Last Single Shot Survey	
788.0	788.0	4.9	1.0	First Archer MWD Surveys	
7,334.0	4,382.1	3,001.1	-818.0	Last Archer MWD Surveys	
7,391.0	4,381.4	3,058.1	-818.3	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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**SANDRIDGE**  
THE POWER OF US™

**Actual Bottom-Hole Location of Oliver 3306 2-14H**  
T&R: 33S 6W  
Section: 14, 2739' FEL & 2043' FNL  
-97.939431 37.176237

1 in = 667 ft

0 500 1,000 2,000 Feet

● Actual BH Location  
 \* SandRidge Wells  
 --- Perf  
 □ Sections

Draftsman: Naomi Martinez      Draft Date: 7/2/2014

Drawing Name/Number:  
Addendum\_Oliver\_3306\_2-14H.mxd

Coordinate System:  
NAD 1927 State Plane  
Kansas South FIPS: 1502