



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1231411  
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: \_\_\_\_\_

1231411

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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SandRidge Energy  
Eve #3306 2-22H  
Harper County, KS.

## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Eve #3306 2-22H Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3500 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:  
50:50 Class A:Poz Blend - 1.4 Yield  
2.0% Gel  
0.4% FL-160  
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:  
Class A - 1.18 Yield  
0.8% FL-160  
0.2% CD-31

The top plug was then released and displaced with 198 of fresh water. The plug bumped and pressured up to 1500 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy  
EVE #3306 2-22H  
Harper County, KS.

## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you, for the award of the provision of cementing products and services on the well Eve #3306 2-22H Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 1000 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

46 Bbls (215 sacks) of 15.6 ppg Lead slurry:  
Class A - 1.20 Yield  
2%cc  
1/4# Floseal

The top plug was then released and displaced with 22.5 of fresh water. The plug bumped and pressured up to 800 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.

# Eve 3306 2-22H

## Perforations

(2 shots per foot)

Perforations			
Date	Top (ftKB)	Blm (ftKB)	Zone
9/5/2014	4,798.0	4,800.0	Miss Lime, Original Hole
9/5/2014	4,898.0	4,900.0	Miss Lime, Original Hole
9/5/2014	4,998.0	5,000.0	Miss Lime, Original Hole
9/11/2014	5,318.0	5,320.0	Miss Lime, Original Hole
9/11/2014	5,417.0	5,419.0	Miss Lime, Original Hole
9/11/2014	5,560.0	5,562.0	Miss Lime, Original Hole
9/11/2014	5,745.0	5,747.0	Miss Lime, Original Hole
9/11/2014	5,882.0	5,884.0	Miss Lime, Original Hole
9/11/2014	5,983.0	5,985.0	Miss Lime, Original Hole
9/11/2014	6,173.0	6,175.0	Miss Lime, Original Hole
9/11/2014	6,269.0	6,271.0	Miss Lime, Original Hole
9/11/2014	6,369.0	6,371.0	Miss Lime, Original Hole
9/11/2014	6,516.0	6,518.0	Miss Lime, Original Hole
9/11/2014	6,614.0	6,616.0	Miss Lime, Original Hole
9/11/2014	6,715.0	6,717.0	Miss Lime, Original Hole
9/10/2014	6,901.0	6,903.0	Miss Lime, Original Hole
9/10/2014	7,047.0	7,049.0	Miss Lime, Original Hole
9/10/2014	7,141.0	7,143.0	Miss Lime, Original Hole
9/10/2014	7,279.0	7,281.0	Miss Lime, Original Hole
9/10/2014	7,565.0	7,567.0	Miss Lime, Original Hole
9/10/2014	7,752.0	7,754.0	Miss Lime, Original Hole
9/10/2014	7,846.0	7,848.0	Miss Lime, Original Hole
9/10/2014	7,990.0	7,992.0	Miss Lime, Original Hole
9/10/2014	8,137.0	8,139.0	Miss Lime, Original Hole
9/10/2014	8,277.0	8,279.0	Miss Lime, Original Hole
9/10/2014	8,423.0	8,425.0	Miss Lime, Original Hole
9/10/2014	8,565.0	8,567.0	Miss Lime, Original Hole
9/10/2014	8,713.0	8,715.0	Miss Lime, Original Hole
9/10/2014	8,858.0	8,860.0	Miss Lime, Original Hole
9/10/2014	9,003.0	9,005.0	Miss Lime, Original Hole
9/10/2014	9,141.0	9,143.0	Miss Lime, Original Hole



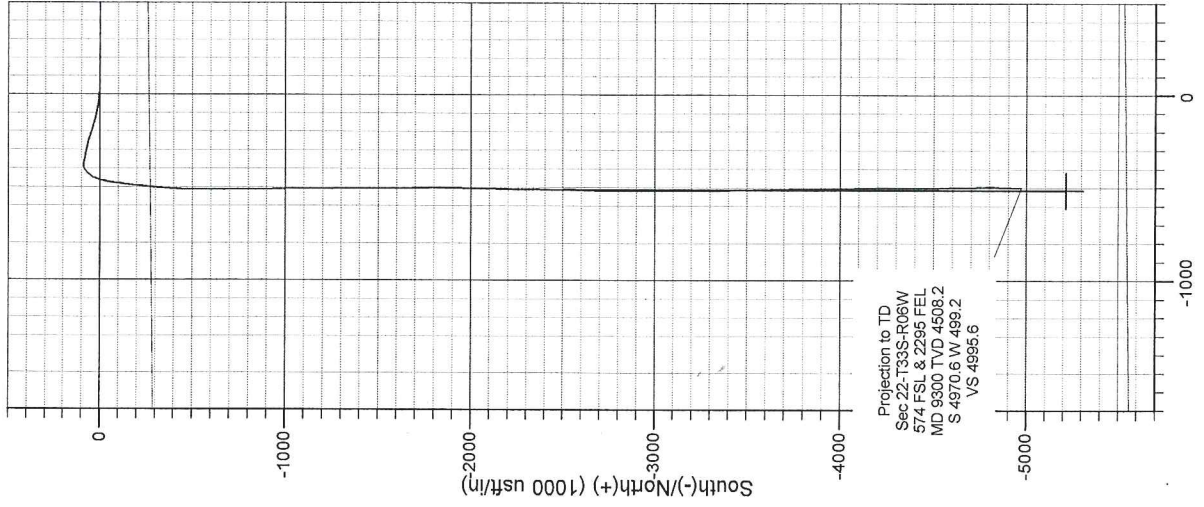
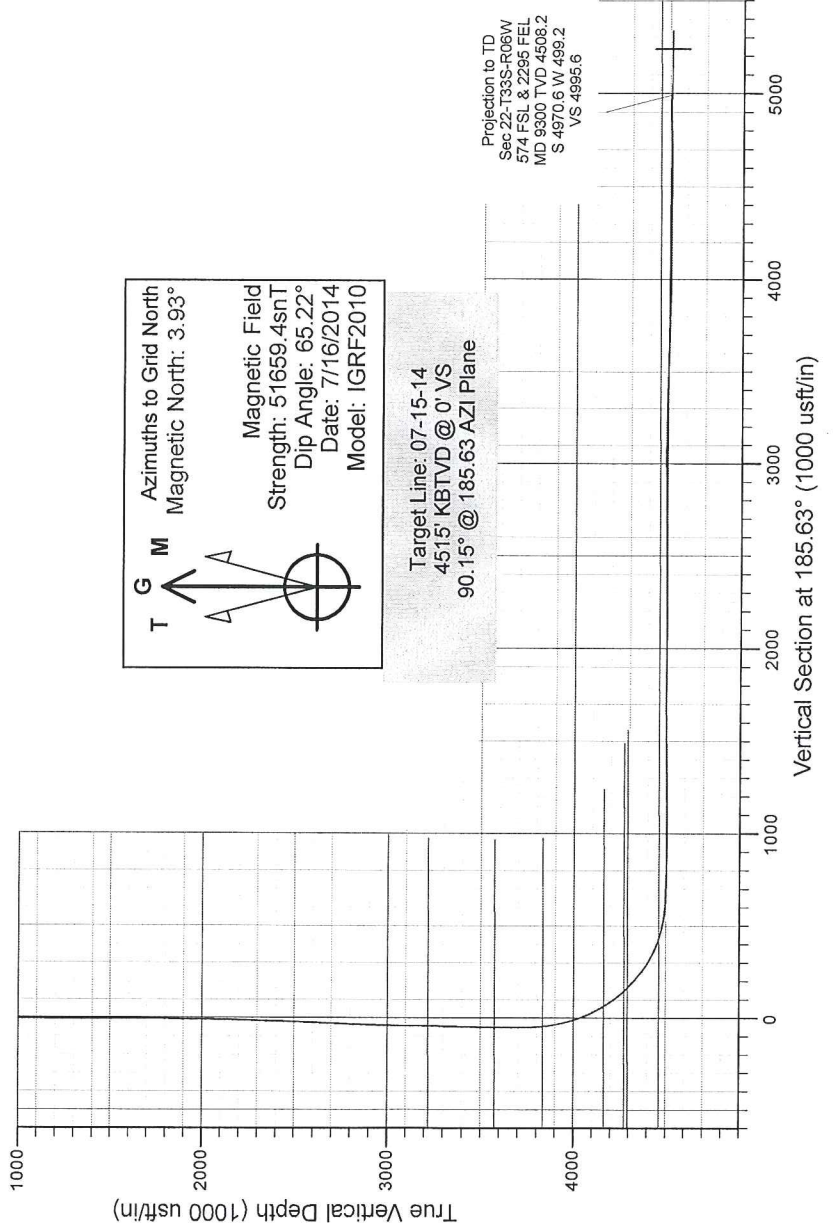
Project: Harper County (NAD-27)  
 Site: Sec 15-T33S-R06W  
 Well: Eve 3306 2-22H/ Lariat 20  
 Plan: Plan 071614 A0 (Eve 3306 2-22H/ Lariat 20/Wellbore #1)

WELL DETAILS: Eve 3306 2-22H/ Lariat 20

Ground Level: 1335.0	
Northing	Longitude
182957.00	2159193.00 37° 10' 4.266 N 97° 57' 13.311 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
6830.0	90.30	180.80	4494.5	-2501.4	-510.2	0.00	0.00	0.00 2539.4
6955.0	90.30	180.06	4493.8	-2626.4	-511.1	0.59	-90.00	2663.9
6990.0	89.60	180.06	4493.8	-2661.4	-511.2	2.00	180.00	2698.7
9542.7	89.60	180.07	4511.6	-5214.0	-514.0	0.00	71.05	5239.3



## Survey Report

<b>Company:</b>	Sandridge Energy	<b>Local Co-ordinate Reference:</b>	Well Eve 3306 2-22H/ Lariat 20
<b>Project:</b>	Harper County (NAD-27)	<b>TVD Reference:</b>	KB @ 1356.0usft
<b>Site:</b>	Sec 15-T33S-R06W	<b>MD Reference:</b>	KB @ 1356.0usft
<b>Well:</b>	Eve 3306 2-22H/ Lariat 20	<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 County (NAD-27)			
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Kansas South 1502		

<b>Site</b> Sec 15-T33S-R06W			
<b>Site Position:</b>		<b>Northing:</b>	182,716.00 usft
<b>From:</b>	Map	<b>Easting:</b>	2,160,925.00 usft
<b>Latitude:</b>			37° 10' 1.782 N
<b>Longitude:</b>			97° 56' 51.932 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Grid Convergence:</b>	0.34 °

<b>Well</b> Eve 3306 2-22H/ Lariat 20			
<b>Well Position</b>	+N/-S	0.0 usft	<b>Northing:</b> 182,957.00 usft
	+E/-W	0.0 usft	<b>Easting:</b> 2,159,193.00 usft
<b>Latitude:</b>			37° 10' 4.266 N
<b>Longitude:</b>			97° 57' 13.311 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b> 0.0 usft
			<b>Ground Level:</b> 1,335.0 usft

<b>Wellbore</b> Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/16/2014	4.27	65.22	51,659

<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	185.63	

<b>Survey Program</b> Date 8/12/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
414.0	9,300.0	Drillright MWD Surveys (Wellbore #1)	MWD	MWD - Standard

<b>Survey</b>										
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)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
414.0	0.30	23.70	414.0	1.0	0.4	-1.0	0.07	0.07	0.00	0.00
595.0	0.50	63.80	595.0	1.8	1.3	-1.9	0.18	0.11	22.15	0.16
777.0	0.70	64.10	777.0	2.6	3.0	-2.9	0.11	0.11	0.16	0.16
961.0	0.80	62.70	961.0	3.7	5.2	-4.2	0.06	0.05	-0.76	-0.76
1,144.0	0.90	56.10	1,143.9	5.1	7.5	-5.8	0.08	0.05	-3.61	-3.61
1,235.0	2.10	278.70	1,234.9	5.7	6.5	-6.3	3.11	1.32	-150.99	-150.99
1,326.0	3.80	275.90	1,325.8	6.3	1.8	-6.4	1.87	1.87	-3.08	-3.08
1,418.0	6.20	278.30	1,417.4	7.3	-6.1	-6.7	2.62	2.61	2.61	2.61
1,513.0	6.80	263.40	1,511.8	7.4	-16.8	-5.7	1.88	0.63	-15.68	-15.68



## Survey Report

<b>Company:</b>	Sandridge Energy	<b>Local Co-ordinate Reference:</b>	Well Eve 3306 2-22H/ Lariat 20
<b>Project:</b>	Harper County (NAD-27)	<b>TVD Reference:</b>	KB @ 1356.0usft
<b>Site:</b>	Sec 15-T33S-R06W	<b>MD Reference:</b>	KB @ 1356.0usft
<b>Well:</b>	Eve 3306 2-22H/ Lariat 20	<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)	
1,607.0	9.10	267.10	1,604.9	6.4	-29.7	-3.5	2.51	2.45	3.94	
1,701.0	10.00	282.90	1,697.6	7.8	-45.1	-3.4	2.94	0.96	16.81	
1,795.0	8.60	280.00	1,790.4	10.9	-60.0	-5.0	1.57	-1.49	-3.09	
1,890.0	10.90	281.80	1,884.0	14.0	-75.8	-6.5	2.44	2.42	1.89	
1,984.0	9.70	278.70	1,976.5	17.0	-92.3	-7.8	1.41	-1.28	-3.30	
2,079.0	10.90	282.50	2,070.0	20.1	-109.0	-9.3	1.45	1.26	4.00	
2,173.0	10.10	279.70	2,162.4	23.4	-125.8	-11.0	1.01	-0.85	-2.98	
2,267.0	10.30	286.60	2,254.9	27.2	-142.0	-13.2	1.32	0.21	7.34	
2,362.0	9.40	283.10	2,348.5	31.4	-157.7	-15.8	1.14	-0.95	-3.68	
2,456.0	10.10	287.30	2,441.2	35.6	-173.0	-18.5	1.06	0.74	4.47	
2,550.0	9.40	285.20	2,533.8	40.1	-188.3	-21.4	0.84	-0.74	-2.23	
2,645.0	10.30	290.00	2,627.4	45.0	-203.8	-24.8	1.28	0.95	5.05	
2,739.0	10.00	291.10	2,719.9	50.8	-219.3	-29.1	0.38	-0.32	1.17	
2,833.0	9.50	287.80	2,812.6	56.1	-234.3	-32.9	0.80	-0.53	-3.51	
2,927.0	9.70	286.20	2,905.3	60.7	-249.3	-36.0	0.35	0.21	-1.70	
3,021.0	9.60	285.20	2,997.9	65.0	-264.4	-38.7	0.21	-0.11	-1.06	
3,115.0	8.30	282.40	3,090.8	68.5	-278.6	-40.8	1.46	-1.38	-2.98	
3,210.0	8.80	281.00	3,184.7	71.3	-292.5	-42.3	0.57	0.53	-1.47	
3,304.0	10.70	282.10	3,277.4	74.6	-308.1	-44.0	2.03	2.02	1.17	
3,398.0	9.80	279.90	3,369.9	77.8	-324.5	-45.5	1.04	-0.96	-2.34	
3,492.0	10.20	282.70	3,462.4	81.0	-340.5	-47.2	0.67	0.43	2.98	
3,587.0	9.00	278.60	3,556.1	83.9	-356.0	-48.6	1.45	-1.26	-4.32	
3,681.0	9.30	281.60	3,648.9	86.5	-370.7	-49.8	0.60	0.32	3.19	
3,745.0	9.00	280.10	3,712.1	88.5	-380.7	-50.7	0.60	-0.47	-2.34	
3,776.0	8.80	268.10	3,742.7	88.8	-385.5	-50.6	6.01	-0.65	-38.71	
3,808.0	9.50	257.30	3,774.3	88.2	-390.5	-49.4	5.78	2.19	-33.75	
3,839.0	10.30	249.40	3,804.9	86.6	-395.6	-47.4	5.08	2.58	-25.48	
3,872.0	11.40	243.20	3,837.3	84.1	-401.3	-44.3	4.86	3.33	-18.79	
3,903.0	13.10	240.20	3,867.6	81.0	-407.1	-40.7	5.85	5.48	-9.68	
3,935.0	14.90	234.40	3,898.6	76.8	-413.5	-35.8	7.13	5.63	-18.13	
3,967.0	16.60	228.80	3,929.4	71.4	-420.3	-29.8	7.12	5.31	-17.50	
3,999.0	18.80	222.80	3,959.9	64.6	-427.3	-22.3	8.92	6.88	-18.75	
4,030.0	20.10	218.70	3,989.1	56.8	-434.0	-13.9	6.08	4.19	-13.23	
4,061.0	21.60	212.80	4,018.1	47.8	-440.4	-4.4	8.32	4.84	-19.03	
4,093.0	23.30	206.80	4,047.7	37.2	-446.5	6.8	8.91	5.31	-18.75	
4,125.0	24.70	201.80	4,076.9	25.3	-451.8	19.1	7.71	4.38	-15.63	
4,157.0	26.50	197.20	4,105.8	12.3	-456.4	32.5	8.38	5.63	-14.38	
4,188.0	28.70	194.40	4,133.3	-1.5	-460.3	46.7	8.24	7.10	-9.03	
4,220.0	31.20	192.90	4,161.0	-17.0	-464.1	62.5	8.15	7.81	-4.69	
4,251.0	33.70	191.00	4,187.1	-33.3	-467.5	79.0	8.71	8.06	-6.13	
4,282.0	36.20	190.10	4,212.5	-50.8	-470.7	96.7	8.23	8.06	-2.90	
4,313.0	38.40	189.10	4,237.2	-69.3	-473.9	115.4	7.36	7.10	-3.23	
4,345.0	40.20	187.90	4,262.0	-89.3	-476.9	135.7	6.11	5.63	-3.75	
4,377.0	43.10	187.30	4,285.9	-110.4	-479.7	156.9	9.15	9.06	-1.88	

## Survey Report

<b>Company:</b>	Sandridge Energy	<b>Local Co-ordinate Reference:</b>	Well Eve 3306 2-22H/ Lariat 20
<b>Project:</b>	Harper County (NAD-27)	<b>TVD Reference:</b>	KB @ 1356.0usft
<b>Site:</b>	Sec 15-T33S-R06W	<b>MD Reference:</b>	KB @ 1356.0usft
<b>Well:</b>	Eve 3306 2-22H/ Lariat 20	<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)	
4,408.0	45.50	187.40	4,308.1	-131.9	-482.4	178.6	7.75	7.74	0.32	
4,440.0	47.50	187.20	4,330.1	-154.9	-485.4	201.8	6.27	6.25	-0.63	
4,471.0	50.10	186.80	4,350.5	-178.1	-488.2	225.1	8.44	8.39	-1.29	
4,503.0	53.30	186.00	4,370.3	-203.0	-491.0	250.2	10.19	10.00	-2.50	
4,535.0	55.70	185.80	4,388.9	-228.9	-493.7	276.2	7.52	7.50	-0.63	
4,566.0	58.90	185.40	4,405.7	-254.9	-496.2	302.3	10.38	10.32	-1.29	
4,597.0	62.30	184.70	4,420.9	-281.8	-498.6	329.3	11.14	10.97	-2.26	
4,629.0	65.10	184.60	4,435.1	-310.4	-500.9	358.0	8.75	8.75	-0.31	
4,660.0	67.70	184.40	4,447.5	-338.7	-503.2	386.4	8.41	8.39	-0.65	
4,692.0	70.30	184.00	4,458.9	-368.5	-505.4	416.3	8.21	8.13	-1.25	
4,723.0	72.90	183.50	4,468.7	-397.8	-507.3	445.7	8.53	8.39	-1.61	
4,755.0	75.60	182.70	4,477.4	-428.6	-508.9	476.4	8.77	8.44	-2.50	
4,786.0	78.00	181.90	4,484.5	-458.7	-510.2	506.6	8.14	7.74	-2.58	
4,818.0	80.70	181.10	4,490.4	-490.2	-511.0	537.9	8.79	8.44	-2.50	
4,849.0	83.70	180.30	4,494.6	-520.9	-511.4	568.5	10.01	9.68	-2.58	
4,881.0	86.60	179.80	4,497.3	-552.8	-511.4	600.3	9.20	9.06	-1.56	
4,912.0	87.90	179.70	4,498.8	-583.7	-511.2	631.1	4.21	4.19	-0.32	
4,943.0	88.10	179.90	4,499.9	-614.7	-511.1	661.9	0.91	0.65	0.65	
4,974.0	88.40	179.90	4,500.8	-645.7	-511.1	692.7	0.97	0.97	0.00	
5,006.0	88.80	179.70	4,501.6	-677.7	-511.0	724.5	1.40	1.25	-0.63	
5,037.0	89.10	179.70	4,502.2	-708.7	-510.8	755.4	0.97	0.97	0.00	
5,069.0	89.50	179.50	4,502.6	-740.7	-510.6	787.2	1.40	1.25	-0.63	
5,100.0	89.50	179.40	4,502.8	-771.7	-510.3	818.0	0.32	0.00	-0.32	
5,132.0	89.80	179.20	4,503.0	-803.7	-509.9	849.8	1.13	0.94	-0.63	
5,163.0	89.80	179.00	4,503.1	-834.7	-509.4	880.6	0.65	0.00	-0.65	
5,177.0	89.50	179.30	4,503.2	-848.6	-509.2	894.5	3.03	-2.14	2.14	
5,264.0	89.50	178.80	4,504.0	-935.6	-507.8	980.9	0.57	0.00	-0.57	
5,358.0	90.20	179.40	4,504.2	-1,029.6	-506.3	1,074.3	0.98	0.74	0.64	
5,452.0	90.60	179.90	4,503.6	-1,123.6	-505.7	1,167.8	0.68	0.43	0.53	
5,545.0	90.40	179.70	4,502.8	-1,216.6	-505.4	1,260.3	0.30	-0.22	-0.22	
5,639.0	90.70	179.80	4,501.9	-1,310.6	-505.0	1,353.8	0.34	0.32	0.11	
5,733.0	90.50	179.50	4,500.9	-1,404.6	-504.4	1,447.3	0.38	-0.21	-0.32	
5,825.0	91.00	179.70	4,499.7	-1,496.6	-503.8	1,538.8	0.59	0.54	0.22	
5,916.0	91.70	179.60	4,497.5	-1,587.6	-503.2	1,629.3	0.78	0.77	-0.11	
6,009.0	89.50	179.70	4,496.6	-1,680.5	-502.6	1,721.8	2.37	-2.37	0.11	
6,100.0	89.40	178.90	4,497.4	-1,771.5	-501.5	1,812.2	0.89	-0.11	-0.88	
6,191.0	89.90	180.60	4,498.0	-1,862.5	-501.1	1,902.7	1.95	0.55	1.87	
6,281.0	89.80	181.30	4,498.2	-1,952.5	-502.6	1,992.4	0.79	-0.11	0.78	
6,373.0	89.30	181.70	4,498.9	-2,044.5	-505.0	2,084.2	0.70	-0.54	0.43	
6,463.0	90.30	180.70	4,499.3	-2,134.5	-506.9	2,173.9	1.57	1.11	-1.11	
6,555.0	90.30	180.30	4,498.8	-2,226.5	-507.7	2,265.5	0.43	0.00	-0.43	
6,647.0	90.90	180.70	4,497.8	-2,318.4	-508.5	2,357.2	0.78	0.65	0.43	
6,738.0	91.50	180.30	4,495.9	-2,409.4	-509.3	2,447.8	0.79	0.66	-0.44	

## Survey Report

<b>Company:</b>	Sandridge Energy	<b>Local Co-ordinate Reference:</b>	Well Eve 3306 2-22H/ Lariat 20
<b>Project:</b>	Harper County (NAD-27)	<b>TVD Reference:</b>	KB @ 1356.0usft
<b>Site:</b>	Sec 15-T33S-R06W	<b>MD Reference:</b>	KB @ 1356.0usft
<b>Well:</b>	Eve 3306 2-22H/ Lariat 20	<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)	
6,830.0	90.30	180.80	4,494.5	-2,501.4	-510.2	2,539.4	1.41	-1.30	0.54	
6,921.0	89.70	180.80	4,494.5	-2,592.4	-511.5	2,630.1	0.66	-0.66	0.00	
7,012.0	90.90	180.40	4,494.0	-2,683.4	-512.4	2,720.7	1.39	1.32	-0.44	
7,104.0	89.80	181.00	4,493.4	-2,775.4	-513.5	2,812.4	1.36	-1.20	0.65	
7,199.0	91.30	180.80	4,492.5	-2,870.4	-515.0	2,907.0	1.59	1.58	-0.21	
7,294.0	92.10	181.00	4,489.7	-2,965.3	-516.5	3,001.7	0.87	0.84	0.21	
7,388.0	88.60	180.00	4,489.1	-3,059.3	-517.3	3,095.3	3.87	-3.72	-1.06	
7,484.0	88.20	179.10	4,491.8	-3,155.2	-516.6	3,190.7	1.03	-0.42	-0.94	
7,578.0	88.80	179.70	4,494.3	-3,249.2	-515.6	3,284.1	0.90	0.64	0.64	
7,673.0	89.00	179.10	4,496.1	-3,344.2	-514.6	3,378.5	0.67	0.21	-0.63	
7,768.0	88.80	178.70	4,497.9	-3,439.1	-512.8	3,472.9	0.47	-0.21	-0.42	
7,862.0	88.40	179.20	4,500.2	-3,533.1	-511.1	3,566.2	0.68	-0.43	0.53	
7,956.0	88.40	179.10	4,502.8	-3,627.1	-509.7	3,659.6	0.11	0.00	-0.11	
8,051.0	88.30	178.70	4,505.6	-3,722.0	-507.8	3,753.9	0.43	-0.11	-0.42	
8,145.0	88.90	179.50	4,507.9	-3,816.0	-506.4	3,847.2	1.06	0.64	0.85	
8,239.0	89.50	179.10	4,509.2	-3,909.9	-505.2	3,940.6	0.77	0.64	-0.43	
8,333.0	89.60	178.40	4,509.9	-4,003.9	-503.2	4,034.0	0.75	0.11	-0.74	
8,426.0	90.40	179.40	4,509.9	-4,096.9	-501.4	4,126.3	1.38	0.86	1.08	
8,520.0	89.20	179.80	4,510.2	-4,190.9	-500.7	4,219.8	1.35	-1.28	0.43	
8,614.0	90.40	180.60	4,510.6	-4,284.9	-501.1	4,313.4	1.53	1.28	0.85	
8,709.0	89.80	179.50	4,510.4	-4,379.9	-501.1	4,407.9	1.32	-0.63	-1.16	
8,803.0	89.60	178.80	4,510.9	-4,473.9	-499.7	4,501.3	0.77	-0.21	-0.74	
8,898.0	89.10	178.10	4,512.0	-4,568.8	-497.2	4,595.6	0.91	-0.53	-0.74	
8,992.0	90.70	179.50	4,512.1	-4,662.8	-495.2	4,688.9	2.26	1.70	1.49	
9,086.0	92.60	179.60	4,509.4	-4,756.8	-494.5	4,782.3	2.02	2.02	0.11	
9,181.0	90.00	181.30	4,507.3	-4,851.7	-495.2	4,876.9	3.27	-2.74	1.79	
9,250.0	89.40	182.20	4,507.6	-4,920.7	-497.3	4,945.7	1.57	-0.87	1.30	
9,300.0	89.40	182.20	4,508.2	-4,970.6	-499.2	4,995.6	0.00	0.00	0.00	
<b>PBHL Eve 2-22H</b>										

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_