



Confidentiality Requested:
 Yes No

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

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: _____

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: 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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Foster 3508 2-2H
Doc ID	1206022

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9308-9486	1500 gals 15% HCL Acid, 5407 bbls Fresh Slickwater, Running TLTR 5561	
5	9175-9234	1500 gals 15% HCL Acid, 2738 bbls Fresh Slickwater, Running TLTR 8439	
5	8464-8766	1500 gals 15% HCL Acid, 5570 bbls Fresh Slickwater, Running TLTR 14169	
5	8143-8402	1500 gals 15% HCL Acid, 5407 bbls Fresh Slickwater, Running TLTR 19720	
5	7704-8110	1500 gals 15% HCL Acid, 5526 bbls Fresh Slickwater, Running TLTR 25348	
5	7281-7616	1500 gals 15% HCL Acid, 5482 bbls Fresh Slickwater, Running TLTR 30994	
5	6940-7216	1500 gals 15% HCL Acid, 5324 bbls Fresh Slickwater, Running TLTR 36311	
5	6571-6818	1500 gals 15% HCL Acid, 5190 bbls Fresh Slickwater, Running TLTR 41501	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Foster 3508 2-2H
Doc ID	1206022

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6126-6402	1500 gals 15% HCL Acid, 5377 bbls Fresh Slickwater, Running TLTR 46814	
5	5800-6055	1500 gals 15% HCL Acid, 5266 bbls Fresh Slickwater, Running TLTR 52115	
5	5190-5556	1500 gals 15% HCL Acid, 4048 bbls Fresh Slickwater, Running TLTR 56163	

Section 35
34S 8W

STARKS 3408 4-35H

STARKS 3408 2-35H

FOSTER 3508 1-2H FOSTER 3508 2-2H

STARKS 3408 3-35H

BLUE SWD 3408 1-35

Section 36
34S 8W

Miss Entry: 5147'
-98.153182 37.034706

Top Perf: 5190'
-98.153204 37.034542

Harper County

Section 2
35S 8W

Section 1
35S 8W

Bottom Perf: 9486'
-98.152794 37.022961

BHL: 9530'
-98.152791 37.022788

382' FSL

1871' FEL

Section 11
35S 8W

LIT TRUST 3508 3-14H

WRIGLEY 2-11 SWD

WRIGLEY 1-11 SWD

Section 12
35S 8W



Actual Bottom-Hole Location of Foster 3508 2-2H
Harper County, Kansas

T&R: 35S 8W
Section: 2, 1871' FEL & 382' FSL
-98.152791 37.022788

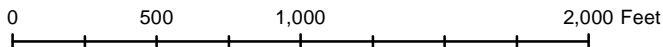
1

< Actual BH Location

| SandRidge Wells

1 in = 667 ft

--- Perf



□ Sections

Draftsman:

Aaron Birk

Draft Date: 5/21/2014

Drawing Name/Number:

Addendum_Foster 3508 2-2H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Summary of Changes

Lease Name and Number: Foster 3508 2-2H

API/Permit #: 15-077-22000-01-00

Doc ID: 1206022

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	05/07/2014	05/23/2014
Completion Or Recompletion Date	5/7/2014	5/10/2014
Perf_Depth_1		Attached
Perf_Material_1		Attached
Perf_Record_1		Attached
Perf_Shots_1		Attached
Save Link	../kcc/detail/operatorE ditDetail.cfm?docID=12 02180	../kcc/detail/operatorE ditDetail.cfm?docID=12 06022

Summary of Attachments

Lease Name and Number: Foster 3508 2-2H

API: 15-077-22000-01-00

Doc ID: 1206022

Correction Number: 1

Attachment Name

As Drilled Plat



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1202180
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

CONFIDENTIAL 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 SLOW
 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: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

TICKET

TICKET NUMBER: WY-210-1
 TICKET DATE: 01/08/2014

ELECTRONIC

SANDRIDGE ENERGY
 ***** BILL IN ADP!! *****
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Foster 3508
 WELL#: 2-2H
 RIG #: Horizon 15
 Co/St: HARPER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
1/8/2014 DRILLED 30" CONDUCTOR HOLE			
1/8/2014 20" CONDUCTOR PIPE (.250 WALL)			
1/8/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
1/8/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
1/8/2014 DRILLED 20" MOUSE HOLE (PER FOOT)			
1/8/2014 16" CONDUCTOR PIPE (.250 WALL)			
1/8/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
1/8/2014 WELDING SERVICES FOR PIPE & LIDS			
1/8/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
1/8/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
1/8/2014 7 YDS OF 10 SACK GROUT			
1/8/2014 8 X 8 HOLE COVER			
1/8/2014 TAXABLE ITEMS			5,845.00
1/8/2014 BID - TAXABLE ITEMS			12,405.00
		Sub Total:	18,250.00
		Tax HARPER COUNTY (6.15 %):	359.47
		TICKET TOTAL:	<u>\$ 18,609.47</u>

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature _____

AFE Number: DC 13479
 Well Name: Foster 3508 2-2H
 Code: 850.010
 Amount: 818,609.47
 Co. Man: Lawrence Carl
 Co. Man Sig: [Signature]
 Notes: _____



Cementing Service Report

Customer Sandridge Energy				Job Number 1917453			
Well Foster 3508, 2-2H 3508, 2-2H		Location (legal) Waldron		Schlumberger Location El Reno, Oklahoma		Job Start Feb/15/2014	
Field		Formation Name/Type		Deviation deg	Bit Size 12.3 in	Well MD 777.0 ft	Well TVD ft
County Harper		State/Province Kansas		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Mast SEC.35 - 34S - 8W		API/UWI		Casing/Liner			
Rig Name Horizon #15	Drilled For Oil & Gas	Service Via Land	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class New	Well Type Development	782.5	9.6	36.0	J55	8RD
Drilling Fluid Type	Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe				
Service Line Cementing	Job Type Cem Surface Casing	T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection Single Cement head	Perforations/Open Hole				
Service Instructions	Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft		
	ft	ft			Diameter in		
	ft	ft					
	ft	ft					
	Treat Down Casing	Displacement 57.0 bbl	Packer Type	Packer Depth ft			
	Tubing Vol. bbl	Casing Vol. 60.5 bbl	Annular Vol. bbl	Openhole Vol. bbl			
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>	Casing Tools		Squeeze Job			
Lift Pressure 1080 psi	Shoe Type	Guide	Squeeze Type				
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Depth 782.5 ft	Tool Type				
No. Centralizers 5	Top Plugs 1	Bottom Plugs	Stage Tool Type	Tool Depth ft			
Cement Head Type Single	Stage Tool Depth ft	Tail Pipe Size in					
Job Scheduled For Feb/15/2014	Arrived on Location Feb/15/2014	Leave Location Feb/15/2014	Collar Type Float	Tail Pipe Depth ft			
			Collar Depth 736.7 ft	Sqz. Total Vol. bbl			
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
02/15/2014	22:24:33	2	0.1	8.38	0.0	Started Acquisition	
02/15/2014	22:24:34	2	0.1	8.38	0.0	Start Job	
02/15/2014	22:24:36	2	0.1	8.38	0.0	Start Pumping Spacer	
02/15/2014	22:24:58	2	0.1	8.38	0.1		
02/15/2014	22:25:23	2	0.1	8.38	0.1		
02/15/2014	22:25:48	2	0.1	8.38	0.1		
02/15/2014	22:26:13	4	0.1	8.38	0.2		
02/15/2014	22:26:38	-1	0.1	8.38	0.2		
02/15/2014	22:27:03	-0	0.1	8.38	0.3		
02/15/2014	22:27:28	4	0.2	8.31	0.3		
02/15/2014	22:27:53	100	4.4	8.38	1.1		
02/15/2014	22:28:18	104	4.3	8.38	2.9		
02/15/2014	22:28:43	101	4.3	8.38	4.7		
02/15/2014	22:29:08	23	0.1	8.38	5.5		
02/15/2014	22:29:33	1494	0.0	8.38	5.5		
02/15/2014	22:29:58	945	0.0	8.38	5.5		
02/15/2014	22:30:23	684	0.0	8.38	5.5		
02/15/2014	22:30:48	511	0.0	8.38	5.5		
02/15/2014	22:31:13	4821	0.0	8.38	5.5		
02/15/2014	22:31:38	3568	0.0	8.38	5.5		
02/15/2014	22:32:03	2618	0.0	8.38	5.5		

Well		Field		Job Start		Customer		Job Number	
Foster 3508, 2-2H 3508, 2-2H				Feb/15/2014		Sandridge Energy		1917453	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/15/2014	22:32:53	1237	0.0	8.38	5.5				
02/15/2014	22:33:18	4633	0.0	8.38	5.5				
02/15/2014	22:33:43	3402	0.0	8.38	5.5				
02/15/2014	22:33:47	3252	0.0	8.38	5.5	Pressure Test Lines			
02/15/2014	22:34:08	2460	0.0	8.38	5.5				
02/15/2014	22:34:33	13	0.0	8.38	5.5				
02/15/2014	22:34:58	14	0.0	8.38	5.6				
02/15/2014	22:35:23	13	0.0	8.38	5.6				
02/15/2014	22:35:48	67	0.3	8.38	5.6				
02/15/2014	22:36:13	17	0.2	8.38	5.7				
02/15/2014	22:36:38	15	0.2	8.38	5.8				
02/15/2014	22:37:03	15	0.2	8.38	5.8				
02/15/2014	22:37:28	15	0.2	8.38	5.9				
02/15/2014	22:37:53	64	0.8	8.37	6.0				
02/15/2014	22:38:18	110	4.3	8.23	7.7				
02/15/2014	22:38:43	108	4.3	8.31	9.4				
02/15/2014	22:39:08	113	4.3	8.42	11.2				
02/15/2014	22:39:16	117	4.3	9.51	11.8	End Spacer			
02/15/2014	22:39:19	131	4.3	10.03	12.0	Start Mixing Lead Slurry			
02/15/2014	22:39:22	123	4.3	10.36	12.2	Reset Total, Vol = 12.21 bbl			
02/15/2014	22:39:33	135	4.3	11.62	13.0				
02/15/2014	22:39:58	176	4.4	13.05	14.8				
02/15/2014	22:40:23	157	4.3	12.31	16.6				
02/15/2014	22:40:48	140	4.3	12.22	18.3				
02/15/2014	22:41:13	225	5.7	12.52	20.1				
02/15/2014	22:41:38	219	5.7	12.61	22.5				
02/15/2014	22:42:03	214	5.7	12.49	24.9				
02/15/2014	22:42:28	222	5.7	12.43	27.3				
02/15/2014	22:42:53	210	5.8	12.51	29.6				
02/15/2014	22:43:18	219	5.7	12.52	32.0				
02/15/2014	22:43:43	225	5.7	12.45	34.4				
02/15/2014	22:44:08	211	5.7	12.46	36.7				
02/15/2014	22:44:33	211	5.7	12.45	39.1				
02/15/2014	22:44:58	205	5.7	12.43	41.5				
02/15/2014	22:45:23	223	5.7	12.43	43.9				
02/15/2014	22:45:48	214	5.7	12.37	46.2				
02/15/2014	22:46:13	204	5.7	12.02	48.6				
02/15/2014	22:46:38	229	5.8	12.72	51.0				
02/15/2014	22:47:03	213	5.7	12.61	53.3				
02/15/2014	22:47:28	211	5.7	12.50	55.7				
02/15/2014	22:47:53	214	5.7	12.43	58.1				
02/15/2014	22:48:18	211	5.7	12.42	60.5				
02/15/2014	22:48:43	205	5.7	12.43	62.8				
02/15/2014	22:49:08	222	5.7	12.46	65.2				
02/15/2014	22:49:33	207	5.7	12.44	67.6				
02/15/2014	22:49:58	207	5.7	12.41	69.9				
02/15/2014	22:50:23	221	5.7	12.45	72.3				
02/15/2014	22:50:48	208	5.7	12.44	74.7				
02/15/2014	22:51:13	211	5.7	12.44	77.1				
02/15/2014	22:51:38	208	5.7	12.42	79.4				
02/15/2014	22:52:03	220	5.7	12.43	81.8				
02/15/2014	22:52:28	207	5.7	12.44	84.2				
02/15/2014	22:52:53	203	5.7	12.36	86.6				
02/15/2014	22:53:18	220	5.7	12.46	88.9				

Well		Field		Job Start		Customer		Job Number	
Foster 3508, 2-2H 3508, 2-2H				Feb/15/2014		Sandridge Energy		1917453	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
02/15/2014	23:14:08	213	4.4	8.29	169.2				
02/15/2014	23:14:33	229	4.4	8.38	171.0				
02/15/2014	23:14:58	245	4.0	8.37	172.8				
02/15/2014	23:15:23	169	4.3	8.38	174.6				
02/15/2014	23:15:48	245	4.3	8.38	176.4				
02/15/2014	23:16:13	259	4.3	8.38	178.2				
02/15/2014	23:16:38	271	4.3	8.38	180.0				
02/15/2014	23:17:03	278	4.3	8.38	181.7				
02/15/2014	23:17:28	253	3.2	8.38	183.4				
02/15/2014	23:17:53	244	2.5	8.38	184.5				
02/15/2014	23:18:18	260	2.5	8.38	185.5				
02/15/2014	23:18:43	269	2.5	8.38	186.6				
02/15/2014	23:19:08	259	2.5	8.38	187.6				
02/15/2014	23:19:33	281	2.5	8.38	188.6				
02/15/2014	23:19:58	270	2.5	8.38	189.7				
02/15/2014	23:20:23	288	2.5	8.38	190.7				
02/15/2014	23:20:48	1029	2.5	8.38	191.7				
02/15/2014	23:21:13	1087	0.0	8.38	191.9				
02/15/2014	23:21:38	1082	0.0	8.38	191.9				
02/15/2014	23:21:43	1080	0.0	8.38	191.9	Bump Top Plug			
02/15/2014	23:21:44	1080	0.0	8.38	191.9	End Displacement			
02/15/2014	23:22:03	1079	0.0	8.38	191.9				
02/15/2014	23:22:28	115	0.0	8.38	191.9				
02/15/2014	23:22:53	5	0.0	8.38	191.9				
02/15/2014	23:23:18	13	0.0	8.38	191.9				
02/15/2014	23:23:43	7	0.0	8.38	191.9				
02/15/2014	23:24:08	6	0.0	8.38	191.9				
02/15/2014	23:24:33	5	0.0	8.38	191.9				
02/15/2014	23:24:58	9	0.1	8.51	191.9				
02/15/2014	23:25:23	11	0.1	8.46	192.0				
02/15/2014	23:25:48	10	0.1	0.76	192.0				
02/15/2014	23:26:13	10	0.1	0.06	192.0				
02/15/2014	23:26:38	11	0.1	0.05	192.1				
02/15/2014	23:27:03	11	0.1	0.05	192.1				
02/15/2014	23:27:28	11	0.1	0.05	192.1				

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.6			6.3	120.0	0.0	11.7	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
5264	11	341	288			bbl	lb/gal
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface?	<input checked="" type="checkbox"/>	Volume	20.0 bbl
%	0.0 bbl	56.0 bbl	degF	Washed Thru Perfs	<input type="checkbox"/>	To	ft
Customer or Authorized Representative		Schlumberger Supervisor		Circulation Lost	<input type="checkbox"/>	Job Completed	<input checked="" type="checkbox"/>
Mr. Cody Davis		Daniel Myers		-		-	

Customer Sandridge				Job Number 1918378			
Well Foster 3508 2-2H		Location (Legal) Harper Co.		Schlumberger Location		Job Start Feb/22/2014	
Field		Formation Name/Type		Deviation 90 deg	Bit Size 8.8 in	Well MD 5764.0 ft	Well TVD 4794.0 ft
County Harper		State/Province Kansas		BHP 2707 psi	BHST 137 degF	BHCT 129 degF	Pore Press. Gradient lb/gal
Well Master 0631521132		API/UWI 15077220000100					
Rig Name Horizon 15	Drilled For Oil	Service Via Land		Casing/Liner			
				Depth, ft	Size, in	Weight, lb/ft	Grade
Offshore Zone	Well Class New	Well Type Development		5764.0	7.0	26.0	P110
				0.0	0.0	0.0	8RD
Drilling Fluid Type Bentonite		Max. Density 9.40 lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing	Job Type 7" Intermediate						
Max. Allowed Tub. Press 5000 psi	Max. Allowed Ann. Press psi	WH Connection 7" cement head		Perforations/Open Hole			
				Top, ft	Bottom, ft	shot/ft	No. of Shuts
							Total Interval ft
							Diameter in
				Treat Down Casing	Displacement 217.0 bbl	Packer Type	Packer Depth ft
				Tubing Vol. bbl	Casing Vol. 217.0 bbl	Annular Vol. bbl	Openhole Vol. bbl
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure 800 psi		Shoe Type Guide		Squeeze Type			
Pipe Rotated <input checked="" type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Depth 5764.0 ft		Tool Type	
No. Centralizers		Top Plugs 1	Bottom Plugs	Stage Tool Type		Tool Depth ft	
Cement Head Type Single		Stage Tool Depth ft		Tail Pipe Size in			
Job Scheduled For Feb/22/2014 07:00		Arrived on Location Feb/22/2014 07:00	Leave Location Feb/22/2014 19:00	Collar Type Float		Tail Pipe Depth ft	
				Collar Depth 5674.0 ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Solid Fraction NULL	Message
02/22/2014	16:08:09	0.0	0.0	0.0	0.0	0.0	Total Disp 217
02/22/2014	16:26:18	0.0	0.0	0.0	0.0	0.0	Reset Total, Vol = 30.30 bbl
02/22/2014	16:38:38	0.0	0.0	0.0	0.0	0.0	Reset Total, Vol = 70.14 bbl

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry 85.0	Mud	Spacer 30.0	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to 1300	Breakdown	Type	Volume bbl	Density lb/gal
Avg. N2 Percent %	Designed Slurry Volume 83.0 bbl	Displacement 217.0 bbl	Mix Water Temp 50 degF	Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	Washed Thru Perfs <input type="checkbox"/>	To ft
Customer or Authorized Representative Cody			Schlumberger Supervisor Rachel Hart		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	



Sandridge Energy, INC.(mid-con.)

Harper Co. (KS27S)

Sec. 35-T34S-T08W

Foster 3508 2-2H/Job #04678-431-22/Horizon 15

Wellbore #1

Design: Wellbore #1

Standard Survey Report

07 March, 2014

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Foster 3508 2-2H/Job #04678-431-22/Horizon 15
Project:	Harper Co. (KS27S)	TVD Reference:	WELL @ 1306.0usft (Original Well Elev)
Site:	Sec. 35-T34S-T08W	MD Reference:	WELL @ 1306.0usft (Original Well Elev)
Well:	Foster 3508 2-2H/Job #04678-431-22/Horizon 15	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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

Site Sec. 35-T34S-T08W		
Site Position:	Northing: 135,021.00 usft	Latitude: 37° 2' 13.028 N
From: Map	Easting: 2,102,293.00 usft	Longitude: 98° 8' 58.478 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.22 °

Well Foster 3508 2-2H/Job #04678-431-22/Horizon 15		
Well Position +N-S 0.0 usft	Northing: 135,021.00 usft	Latitude: 37° 2' 13.028 N
+E-W 0.0 usft	Easting: 2,102,273.00 usft	Longitude: 98° 8' 58.724 W
Position Uncertainty 0.0 usft	Wellhead Elevation: usft	Ground Level: 1,288.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2014/02/12	4.45	65.11	51,623

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0			
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	189.81	

Survey Program		Date 2014/03/07		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
250.0	9,530.0	Archer MWD Survey (Wellbore #1)	MWD	MWD - Standard

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
250.0	0.40	153.70	250.0	-0.8	0.4	0.7	0.16	0.16	0.00	
First Single Shot Survey										
500.0	0.20	153.70	500.0	-2.0	1.0	1.8	0.08	-0.08	0.00	
750.0	0.20	153.70	750.0	-2.7	1.4	2.5	0.00	0.00	0.00	
Last Single Shot Survey										
865.0	0.10	153.70	865.0	-3.0	1.5	2.7	0.09	-0.09	0.00	
First Archer MWD Survey										
956.0	0.30	311.80	956.0	-2.9	1.3	2.6	0.43	0.22	173.74	

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Foster 3508 2-2H/Job #04678-431-22/Horizon 15
Project:	Harper Co. (KS27S)	TVD Reference:	WELL @ 1306.0usft (Original Well Elev)
Site:	Sec. 35-T34S-T08W	MD Reference:	WELL @ 1306.0usft (Original Well Elev)
Well:	Foster 3508 2-2H/Job #04678-431-22/Horizon 15	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
1,048.0	0.70	127.00	1,048.0	-3.1	1.6	2.8	1.09	0.43	190.43	
1,139.0	0.90	138.70	1,139.0	-4.0	2.5	3.5	0.28	0.22	12.86	
1,231.0	1.10	202.20	1,231.0	-5.3	2.7	4.8	1.16	0.22	69.02	
1,323.0	2.50	236.80	1,322.9	-7.2	0.7	7.0	1.86	1.52	37.61	
1,418.0	4.00	242.40	1,417.8	-9.9	-4.0	10.5	1.61	1.58	5.89	
1,512.0	5.80	258.20	1,511.4	-12.4	-11.6	14.2	2.38	1.91	16.81	
1,607.0	8.90	259.00	1,605.6	-14.8	-23.5	18.6	3.26	3.26	0.84	
1,701.0	11.20	256.00	1,698.2	-18.4	-39.5	24.8	2.51	2.45	-3.19	
1,796.0	13.30	256.40	1,791.0	-23.2	-59.1	32.9	2.21	2.21	0.42	
1,890.0	15.30	255.50	1,882.1	-28.8	-81.6	42.3	2.14	2.13	-0.96	
1,985.0	15.80	250.20	1,973.6	-36.4	-105.9	53.9	1.58	0.53	-5.58	
2,079.0	17.10	248.80	2,063.8	-45.7	-130.8	67.3	1.45	1.38	-1.49	
2,174.0	17.10	248.30	2,154.6	-55.9	-156.8	81.8	0.15	0.00	-0.53	
2,267.0	18.10	247.90	2,243.2	-66.4	-182.9	96.6	1.08	1.08	-0.43	
2,362.0	17.40	247.10	2,333.7	-77.5	-209.7	112.1	0.78	-0.74	-0.84	
2,457.0	16.50	244.30	2,424.6	-88.9	-234.9	127.6	1.28	-0.95	-2.95	
2,552.0	17.00	245.50	2,515.5	-100.5	-259.7	143.2	0.64	0.53	1.26	
2,646.0	15.00	241.60	2,605.9	-111.9	-282.9	158.5	2.41	-2.13	-4.15	
2,742.0	16.40	240.80	2,698.3	-124.5	-305.7	174.7	1.48	1.46	-0.83	
2,836.0	19.20	244.90	2,787.8	-137.5	-331.2	191.9	3.26	2.98	4.36	
2,930.0	19.80	244.70	2,876.4	-150.9	-359.6	209.9	0.64	0.64	-0.21	
3,025.0	19.90	243.10	2,965.8	-165.1	-388.6	228.9	0.58	0.11	-1.68	
3,119.0	17.50	248.40	3,054.8	-177.5	-416.0	245.8	3.13	-2.55	5.64	
3,214.0	15.20	246.80	3,146.0	-187.7	-440.7	260.0	2.47	-2.42	-1.68	
3,308.0	14.40	256.80	3,236.9	-195.2	-463.5	271.3	2.84	-0.85	10.64	
3,403.0	14.20	255.50	3,328.9	-200.8	-486.2	280.7	0.40	-0.21	-1.37	
3,497.0	13.50	261.70	3,420.2	-205.3	-508.3	288.9	1.74	-0.74	6.60	
3,592.0	14.20	268.00	3,512.4	-207.3	-530.9	294.7	1.75	0.74	6.63	
3,686.0	15.50	266.00	3,603.3	-208.6	-554.9	300.1	1.49	1.38	-2.13	
3,781.0	15.40	259.70	3,694.9	-211.7	-580.0	307.4	1.77	-0.11	-6.63	
3,876.0	16.50	258.60	3,786.2	-216.6	-605.6	316.7	1.20	1.16	-1.16	
3,971.0	18.30	260.90	3,876.9	-221.7	-633.6	326.4	2.03	1.89	2.42	
4,066.0	20.70	261.70	3,966.4	-226.4	-664.9	336.4	2.54	2.53	0.84	
4,161.0	20.80	254.80	4,055.3	-233.3	-697.8	348.8	2.57	0.11	-7.26	
4,193.0	20.20	253.40	4,085.2	-236.4	-708.6	353.6	2.42	-1.88	-4.38	
4,225.0	21.40	250.10	4,115.1	-239.9	-719.4	359.0	5.24	3.75	-10.31	
4,256.0	22.60	245.40	4,143.9	-244.3	-730.1	365.2	6.87	3.87	-15.16	
4,287.0	24.60	238.10	4,172.3	-250.2	-741.0	372.8	11.41	6.45	-23.55	
4,319.0	27.00	232.50	4,201.1	-258.2	-752.5	382.6	10.68	7.50	-17.50	
4,350.0	29.80	229.60	4,228.4	-267.4	-763.9	393.7	10.07	9.03	-9.35	
4,382.0	33.50	225.50	4,255.6	-278.8	-776.3	407.0	13.37	11.56	-12.81	
4,413.0	36.50	221.60	4,281.0	-291.7	-788.5	421.8	12.07	9.68	-12.58	
4,445.0	38.80	218.40	4,306.3	-306.7	-801.0	438.7	9.43	7.19	-10.00	

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Site:	Sec. 35-T34S-T08W	MD Reference:	WELL @ 1306.0usft (Original Well Elev)
Well:	Foster 3508 2-2H/Job #04678-431-22/Horizon 15	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
4,477.0	40.70	214.70	4,331.0	-323.1	-813.2	456.9	9.48	5.94	-11.56	
4,508.0	42.40	211.70	4,354.2	-340.3	-824.5	475.8	8.44	5.48	-9.68	
4,540.0	44.20	209.60	4,377.4	-359.2	-835.6	496.3	7.20	5.63	-6.56	
4,571.0	45.40	207.40	4,399.4	-378.4	-846.1	517.0	6.32	3.87	-7.10	
4,603.0	45.30	205.80	4,421.9	-398.7	-856.2	538.8	3.57	-0.31	-5.00	
4,634.0	45.40	204.10	4,443.7	-418.7	-865.5	560.1	3.91	0.32	-5.48	
4,666.0	45.40	202.60	4,466.2	-439.6	-874.6	582.2	3.34	0.00	-4.69	
4,698.0	45.60	199.80	4,488.6	-460.9	-882.8	604.6	6.27	0.63	-8.75	
4,729.0	45.50	198.20	4,510.3	-481.8	-890.0	626.5	3.70	-0.32	-5.16	
4,761.0	45.80	195.60	4,532.7	-503.7	-896.7	649.2	5.88	0.94	-8.13	
4,792.0	46.20	194.20	4,554.2	-525.3	-902.4	671.4	3.50	1.29	-4.52	
4,824.0	47.80	193.50	4,576.1	-548.0	-908.0	694.7	5.25	5.00	-2.19	
4,856.0	50.50	191.90	4,597.0	-571.6	-913.3	718.9	9.25	8.44	-5.00	
4,887.0	52.20	189.50	4,616.4	-595.4	-917.8	743.1	8.16	5.48	-7.74	
4,919.0	53.50	188.10	4,635.7	-620.6	-921.7	768.6	5.35	4.06	-4.38	
4,950.0	55.50	186.80	4,653.7	-645.6	-925.0	793.8	7.30	6.45	-4.19	
4,982.0	57.50	186.20	4,671.3	-672.1	-928.0	820.4	6.44	6.25	-1.88	
5,014.0	59.20	185.70	4,688.1	-699.2	-930.8	847.6	5.48	5.31	-1.56	
5,045.0	62.20	185.00	4,703.3	-726.1	-933.3	874.6	9.88	9.68	-2.26	
5,077.0	65.80	185.20	4,717.3	-754.8	-935.9	903.2	11.26	11.25	0.63	
5,108.0	68.80	186.40	4,729.3	-783.2	-938.8	931.7	10.32	9.68	3.87	
5,140.0	72.00	187.20	4,740.0	-813.2	-942.4	961.8	10.27	10.00	2.50	
5,171.0	75.00	187.40	4,748.8	-842.6	-946.1	991.5	9.70	9.68	0.65	
5,203.0	77.50	187.10	4,756.4	-873.5	-950.1	1,022.6	7.87	7.81	-0.94	
5,235.0	79.70	185.60	4,762.8	-904.7	-953.5	1,053.9	8.27	6.88	-4.69	
5,266.0	81.50	184.20	4,767.8	-935.1	-956.1	1,084.4	7.32	5.81	-4.52	
5,298.0	83.10	182.10	4,772.1	-966.8	-957.9	1,115.9	8.20	5.00	-6.56	
5,329.0	84.50	180.70	4,775.5	-997.6	-958.6	1,146.3	6.37	4.52	-4.52	
5,361.0	86.30	179.40	4,778.0	-1,029.5	-958.7	1,177.8	6.93	5.63	-4.06	
5,393.0	87.30	178.80	4,779.8	-1,061.4	-958.2	1,209.2	3.64	3.13	-1.88	
5,425.0	88.60	178.10	4,780.9	-1,093.4	-957.3	1,240.5	4.61	4.06	-2.19	
5,456.0	89.80	177.60	4,781.4	-1,124.4	-956.1	1,270.8	4.19	3.87	-1.61	
5,487.0	90.00	177.50	4,781.4	-1,155.3	-954.8	1,301.1	0.72	0.65	-0.32	
5,519.0	90.20	177.30	4,781.4	-1,187.3	-953.4	1,332.4	0.88	0.63	-0.63	
5,551.0	88.80	177.80	4,781.7	-1,219.3	-952.0	1,363.7	4.65	-4.38	1.56	
5,582.0	87.40	178.00	4,782.7	-1,250.2	-950.9	1,394.0	4.56	-4.52	0.65	
5,613.0	87.40	178.00	4,784.1	-1,281.2	-949.8	1,424.3	0.00	0.00	0.00	
5,645.0	88.40	178.00	4,785.3	-1,313.1	-948.7	1,455.6	3.13	3.13	0.00	
5,677.0	89.30	178.20	4,785.9	-1,345.1	-947.6	1,486.9	2.88	2.81	0.63	
5,708.0	89.50	178.00	4,786.2	-1,376.1	-946.6	1,517.3	0.91	0.65	-0.65	
5,736.0	87.90	177.30	4,786.9	-1,404.1	-945.4	1,544.6	6.24	-5.71	-2.50	
5,803.0	88.80	177.10	4,788.8	-1,471.0	-942.2	1,610.0	1.38	1.34	-0.30	

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Foster 3508 2-2H/Job #04678-431-22/Horizon 15
Project:	Harper Co. (KS27S)	TVD Reference:	WELL @ 1306.0usft (Original Well Elev)
Site:	Sec. 35-T34S-T08W	MD Reference:	WELL @ 1306.0usft (Original Well Elev)
Well:	Foster 3508 2-2H/Job #04678-431-22/Horizon 15	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
5,867.0	88.80	177.30	4,790.1	-1,534.9	-939.0	1,672.4	0.31	0.00	0.31	
5,961.0	89.50	177.60	4,791.5	-1,628.8	-934.8	1,764.2	0.81	0.74	0.32	
6,057.0	89.90	177.90	4,792.0	-1,724.7	-931.1	1,858.1	0.52	0.42	0.31	
6,151.0	90.50	178.00	4,791.7	-1,818.6	-927.7	1,950.1	0.65	0.64	0.11	
6,245.0	90.80	178.30	4,790.6	-1,912.6	-924.7	2,042.2	0.45	0.32	0.32	
6,340.0	90.90	178.40	4,789.2	-2,007.5	-921.9	2,135.3	0.15	0.11	0.11	
6,394.0	90.90	178.40	4,788.4	-2,061.5	-920.4	2,188.2	0.00	0.00	0.00	
6,435.0	90.80	178.40	4,787.8	-2,102.5	-919.3	2,228.4	0.24	-0.24	0.00	
6,531.0	91.00	179.00	4,786.3	-2,198.4	-917.1	2,322.6	0.66	0.21	0.63	
6,626.0	90.70	179.10	4,784.9	-2,293.4	-915.5	2,415.9	0.33	-0.32	0.11	
6,721.0	91.10	179.60	4,783.4	-2,388.4	-914.5	2,509.3	0.67	0.42	0.53	
6,816.0	90.20	179.60	4,782.3	-2,483.4	-913.8	2,602.8	0.95	-0.95	0.00	
6,911.0	90.40	180.10	4,781.8	-2,578.4	-913.5	2,696.3	0.57	0.21	0.53	
7,005.0	90.20	179.30	4,781.3	-2,672.4	-913.1	2,788.9	0.88	-0.21	-0.85	
7,099.0	88.00	179.10	4,782.8	-2,766.4	-911.7	2,881.3	2.35	-2.34	-0.21	
7,194.0	88.30	178.30	4,785.8	-2,861.3	-909.6	2,974.4	0.90	0.32	-0.84	
7,288.0	89.80	179.50	4,787.4	-2,955.2	-907.8	3,066.7	2.04	1.60	1.28	
7,382.0	89.80	179.90	4,787.7	-3,049.2	-907.3	3,159.3	0.43	0.00	0.43	
7,477.0	90.50	179.90	4,787.5	-3,144.2	-907.1	3,252.8	0.74	0.74	0.00	
7,571.0	90.60	180.10	4,786.6	-3,238.2	-907.1	3,345.5	0.24	0.11	0.21	
7,665.0	90.20	179.80	4,785.9	-3,332.2	-907.0	3,438.1	0.53	-0.43	-0.32	
7,760.0	89.10	179.80	4,786.5	-3,427.2	-906.7	3,531.6	1.16	-1.16	0.00	
7,855.0	89.60	180.50	4,787.6	-3,522.2	-907.0	3,625.3	0.91	0.53	0.74	
7,950.0	90.30	180.50	4,787.7	-3,617.2	-907.8	3,719.0	0.74	0.74	0.00	
8,044.0	89.90	180.60	4,787.5	-3,711.2	-908.7	3,811.8	0.44	-0.43	0.11	
8,139.0	90.20	180.30	4,787.4	-3,806.2	-909.4	3,905.5	0.45	0.32	-0.32	
8,234.0	90.50	180.40	4,786.8	-3,901.2	-910.0	3,999.2	0.33	0.32	0.11	
8,329.0	91.70	180.80	4,785.0	-3,996.2	-911.0	4,093.0	1.33	1.26	0.42	
8,424.0	92.30	181.00	4,781.7	-4,091.1	-912.5	4,186.8	0.67	0.63	0.21	
8,518.0	92.40	180.90	4,777.8	-4,185.0	-914.1	4,279.6	0.15	0.11	-0.11	
8,613.0	92.30	181.30	4,773.9	-4,279.9	-915.9	4,373.4	0.43	-0.11	0.42	
8,708.0	90.90	180.50	4,771.3	-4,374.9	-917.4	4,467.2	1.70	-1.47	-0.84	
8,802.0	91.10	180.60	4,769.7	-4,468.9	-918.3	4,560.0	0.24	0.21	0.11	
8,897.0	90.40	181.10	4,768.4	-4,563.8	-919.7	4,653.8	0.91	-0.74	0.53	
8,992.0	90.80	181.70	4,767.4	-4,658.8	-922.0	4,747.8	0.76	0.42	0.63	
9,087.0	90.90	182.10	4,766.0	-4,753.7	-925.2	4,841.9	0.43	0.11	0.42	
9,182.0	89.50	181.30	4,765.7	-4,848.7	-928.0	4,935.9	1.70	-1.47	-0.84	
9,276.0	87.10	179.50	4,768.5	-4,942.6	-928.6	5,028.6	3.19	-2.55	-1.91	
9,371.0	85.30	179.80	4,774.8	-5,037.4	-928.1	5,121.9	1.92	-1.89	0.32	
9,466.0	86.90	180.30	4,781.2	-5,132.2	-928.1	5,215.3	1.76	1.68	0.53	
Last Archer MWD Survey										
9,530.0	86.90	180.30	4,784.7	-5,196.1	-928.5	5,278.3	0.00	0.00	0.00	



Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Foster 3508 2-2H/Job #04678-431-22/Horizon 15
Project:	Harper Co. (KS27S)	TVD Reference:	WELL @ 1306.0usft (Original Well Elev)
Site:	Sec. 35-T34S-T08W	MD Reference:	WELL @ 1306.0usft (Original Well Elev)
Well:	Foster 3508 2-2H/Job #04678-431-22/Horizon 15	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
Projection to TD - PBHL Foster 2-2H										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.0	250.0	-0.8	0.4	First Single Shot Survey	
750.0	750.0	-2.7	1.4	Last Single Shot Survey	
865.0	865.0	-3.0	1.5	First Archer MWD Survey	
9,466.0	4,781.2	-5,132.2	-928.1	Last Archer MWD Survey	
9,530.0	4,784.7	-5,196.1	-928.5	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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