Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1210680

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 34464
Name: Lariat Services, Inc. dba Chaparral Supply, Hondo Heavy Haul
Wellsite Geologist: Hanna Thornberg
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 #:

3/6/2014	3/22/2014	4/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-22020-01-00
Spot Description:
NW NW NE NE Sec. 11 Twp. 33 S. R. 6 ☐ East ☑ West
265 Feet from ☑ North / ☐ South Line of Section
1140 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Henry 3306 Well #: 2-2H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1331 Kelly Bushing: 1351
Total Vertical Depth: 9300 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 694 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: 75000 ppm Fluid volume: 560 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: SandRIdge Exploration and Production, LLC
Lease Name: Evans 3406 1-18H License #: 34192
Quarter NW Sec. 19 Twp. 34 S. R. 6 ☐ East ☑ West
County: Harper Permit #: 15077220290100

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: 07/02/2014
☑ **Confidential Release Date:** 07/01/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/07/2014

[redacted]

1210680

Operator Name: SandRidge Exploration and Production LLC Lease Name: Henry 3306 Well #: 2-2H

Sec. 11 Twp. 33 S. R. 6 ☐ East ☑ West County: Harper

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Array Induction Gamma Ray Memory Log
Dual Spaced Neutron Spectral Density Memory Log

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner	3156	
Lansing	3514	
Cottage Grove	3765	
Oswego	4108	
Cherokee	4261	
Verdigris	4284	
Miss Unconformity	4614	

CASING RECORD ☑ New ☐ 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
Conductor	30	20	75	90	Edge Services 10 Sack Grout	9	none
Surface	12.25	9.63	36	694	O-Tex Lite Premium Plus 65/35	320	(6% gel) 2% calcium chloride, 1/4 pps ce
Intermediate	8.75	7	26	5127	O-Tex 50/50 Poz Premium/ Pre	340	4% gel, .2% FL-17, .1% C-51, .2% C-20,

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 5/4/2014

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 2-2H
Doc ID	1210680

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	9193-9195	750 gals of 15% HCL, 3033 bbls fresh slickwater, TLTR: 3305	
1	9008-9010	750 gals of 15% HCL, 2997 bbls fresh slickwater, TLTR: 6302	
1	8780-8782	750 gals of 15% HCL, 2996 bbls fresh slickwater, TLTR: 9298	
1	8552-8554	750 gals of 15% HCL, 3002 bbls fresh slickwater, TLTR: 12300	
1	8324-8326	750 gals of 15% HCL, 2977 bbls fresh slickwater, TLTR: 15277	
1	8140-8142	750 gals of 15% HCL, 2994 bbls fresh slickwater, TLTR: 18271	
1	7958-7960	750 gals of 15% HCL, 2989 bbls fresh slickwater, TLTR: 21260	
1	7774-7776	750 gals of 15% HCL, 2990 bbls fresh slickwater, TLTR: 24250	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 2-2H
Doc ID	1210680

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	7590-7592	750 gals of 15% HCL, 2979 bbls fresh slickwater, TLTR: 27229	
1	7406-7408	750 gals of 15% HCL, 2979 bbls fresh slickwater, TLTR: 30208	
1	7222-7224	750 gals of 15% HCL, 3015 bbls fresh slickwater, TLTR: 33223	
1	7038-7040	750 gals of 15% HCL, 2931 bbls fresh slickwater, TLTR: 36154	
1	6854-6856	750 gals of 15% HCL, 2969 bbls fresh slickwater, TLTR: 39123	
1	6627-6629	750 gals of 15% HCL, 2943 bbls fresh slickwater, TLTR: 42066	
1	6398-6400	750 gals of 15% HCL, 2885 bbls fresh slickwater, TLTR: 44951	
1	6129-6131	750 gals of 15% HCL, 2900 bbls fresh slickwater, TLTR: 47851	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 2-2H
Doc ID	1210680

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	5902-5904	750 gals of 15% HCL, 2880 bbls fresh slickwater, TLTR: 50731	
1	5719-5721	750 gals of 15% HCL, 3018 bbls fresh slickwater, TLTR: 53749	
1	5491-5493	750 gals of 15% HCL, 2928 bbls fresh slickwater, TLTR: 56677	
1	5307-5309	750 gals of 15% HCL, 3081 bbls fresh slickwater, TLTR: 59758	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Henry 3306 2-2H
Doc ID	1210680

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Edge Services 10 Sack Grout	9	none
Surface	12.25	9.63	36	694	O-Tex Lite Premium Plus 65/35; Premium Plus (Class C)	320	(6% gel) 2% calcium chloride, 1/4 pps cello-flake, .4% C-41P
Intermediate	8.75	7	26	5127	O-Tex 50/50 Poz Premium/ Premium	340	4% gel, .2% FL-17, .1% C-51, .2% C-20, .1% C-37, .4% C-41P

EDGE SERVICES
580-254-3216
Woodward, OK

INVOICE

DATE	INVOICE #
3/7/2014	4600

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	3/6/2014	3506	LARIAT 45	HENRY 3306 2-2H	Due on rec...

Description
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED WELDER AND MATERIALS FURNISHED 9 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID $17,668.02

Sales Tax (6.15%)	$168.02
TOTAL	$17,668.02

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3495	03/11/14

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Kansas	dridge Exploration & Produc	Claude Hallmark

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Henry 3306	2-2H	Surface	marcos quintana

EMP NAME							
marcos quintana		0					
Jared Green							
david s							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 700'

	Called Out	On Location	Job Started	Job Completed
Date	3/11/2014	3/11/2014	3/11/2014	3/11/2014
Time	1136	1430	1750	1910

Tools and Accessories

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	Max. Allow
Casing		36#	9⅝"	Surface	700'	1,500
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12¼"	Surface	700'	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density	9	Lb/Gal	
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal	
Spacer type	resh Wate	BBL.	10	8.33	
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	
Perfpac Balls		Qty.			
Other					
Other					
Other					
Other					
Other					

Hours On Location

Date	Hours
3/11	2.0
Total	2.0

Operating Hours

Date	Hours
3/11	2.0
Total	2.0

Description of Job

Surface

Pressures

MAX 1,500 PSI AVG. 200

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	190	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - ¼pps Cello-Flake - .4% C-41P	11.11	2.01	12.40
2	130	Premium Plus (Class C)	2% Calcium Chloride - ¼pps 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		Type:		Preflush:	BBl	10.00	Type: Fresh Water
Breakdown		MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	40	Calc.Disp Bbl 50
		Actual TOC	SURFACE	Calc. TOC:		SURFACE	Actual Disp. 50.00
Average		Bump Plug PSI:	600	Final Circ.	PSI:	300	Disp:Bbl
ISIP	5 Min.	10 Min.	15 Min.	Cement Slurry:	BBl	98.6	
				Total Volume	BBl	158.58	

CUSTOMER REPRESENTATIVE Bill Tolbert

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3523	03/18/14

COUNTY	State	COMPANY	CUSTOMER REP
Harper	Kansas	Sandridge Exploration & Production	Bill Torbett

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Henry 3306	2-2H	Intermediate	John Hall

EMP NAME							
John Hall		0					
Joseph Klemm							
Roy Morris							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 3,685'

Bottom Hole Temp. 140 Pressure _____

Retainer Depth _____ Total Depth 5,127'

	Called Out	On Location	Job Started	Job Completed
Date	3/18/2014	3/18/2014	3/18/2014	3/18/2014
Time	530am	800am	1000am	1230pm

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	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8¾"		Surface	5,127'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	GEL	BBL. 30		10.00
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	
Perfpac Balls		Qty.		
Other				
Other				
Other				
Other				
Other				

Hours On Location

Date	Hours
3/18	4.5
Total	4.5

Operating Hours

Date	Hours
3/18	2.5
Total	2.5

Description of Job

Intermediate

Pressures

MAX	5,000 PSI	AVG.

Average Rates in BPM

MAX	8 BPM	AVG

Cement Left in Pipe

Feet	86	Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	240	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	0.00

Summary

Preflush		Type:		Preflush: BBl	30.00
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn: Gal - BBl	N/A
		Lost Returns-N	NO/FULL	Excess /Return BBl	N/A
		Actual TOC	2,176	Calc. TOC:	2,176
Average		Bump Plug PSI:	1,600	Final Circ. PSI:	1,100
ISIP _____	5 Min. _____	10 Min _____	15 Min _____	Cement Slurry BBl	82.2
				Total Volume BBl	304.70

Type:	Gel Spacer		
Pad:Bbl -Gal	N/A		
Calc.Disp Bbl	193		
Actual Disp.	192.50		
Disp:Bbl	192.50		

CUSTOMER REPRESENTATIVE _____ Bill Torbett SIGNATURE

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/3/2014
Job End Date:	4/3/2014
State:	Kansas
County:	Harper
API Number:	15-077-22020-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Henry 3306 #2-2H
Longitude:	-97.93377330
Latitude:	37.19576144
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,411
Total Base Water Volume (gal):	2,455,698
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Well Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.08260	None
40/70 Premium Preferred Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	100.00000	3.66858	None
40/70 Resin Coated Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	97.00000	0.89475	None
15% Unihibited HCl Acid	Cimarron Acid	Etching, Dissolving, Cleaning					
			Water	7732-18-5	85.00000	0.56012	None
			Hydrochloric Acid	7647-01-0	15.00000	0.09884	None
			Water	7732-18-5	24.00000	0.00013	None
			Methanol	67-56-1	9.00000	0.00005	None
			2-Butoxyethanol	111-76-2	8.40000	0.00005	None
			N-Dimethyformamide	68-12-2	8.40000	0.00005	None
			Ethylene Glycol	107-21-1	8.40000	0.00005	None
			Isopropyl Alchohol	67-63-0	8.40000	0.00005	None
			Triethyl Phosphate	78-40-0	8.40000	0.00005	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	None

			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00005	None
			Cinnamaldehyde	104-55-2	8.40000	0.00005	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.28474	
			Water	7732-18-5	99.90000	0.28474	
Iron Control, Sodium Erythorbate	Cimarron Acid	Iron Control					
			Water	7732-18-5	55.50000	0.02457	None
			Methanol	67-56-1	12.70000	0.00564	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00403	None
			Poly(ethlene Oxide)	25322-68-3	9.10000	0.00403	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00403	None
			Isopropanol	67-63-0	4.60000	0.00202	None
			Sodium Erythorbate	6381-77-7	100.00000	0.00022	None
			Water	7732-18-5	54.50000	0.00016	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00004	None
			Isopropanol	67-63-0	13.60000	0.00004	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	None
			Methanol	67-56-1	9.00000	0.00003	None
FR-986, Cationic Friction Reducer	Cimarron Acid	Friction Reducer					
			Water	7732-18-5	50.00000	0.00450	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00151	None
			Phosphoric Acid	7664-38-2	16.80000	0.00151	None
			Ethylene Glycol	107-21-1	12.70000	0.00115	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00109	None
			Methanol	67-56-1	3.60000	0.00033	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

DrillRight TECHNOLOGY, INC.

Survey Report

DRT Job # : DR1403043

Company:	Sandridge
Well Name:	Henry 3306 2-2H
Legals:	Sec: 11 Township: 33S Range: 6W
County/State:	Harper KS
Rig Name:	Lariat 45

Customer Rep	Position	Directional Driller	MWD Operator
Claude Hallmark	Company Man	John "Richard" Snider	Blake Reid
Brett Thomas	Other	Monte Bryant	
Bill Torbitt	Company Man		

Henry 3306 2-2H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
TieInPoint	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
Survey	962.00	1.10	285.70	961.94	2.50	-8.89	2.5	0.11	0.11	7.72	285.71	9.23
Survey	1420.00	0.70	253.60	1419.89	2.90	-15.81	2.9	0.14	0.09	7.01	280.39	16.07
Survey	1881.00	0.40	223.20	1880.87	0.93	-19.61	0.93	0.09	0.07	6.59	272.72	19.63
Survey	2216.00	0.20	205.00	2215.87	-0.45	-20.66	-0.45	0.07	0.06	5.43	268.75	20.66
Survey	2736.00	0.40	188.00	2735.86	-3.07	-21.30	-3.07	0.04	0.04	3.27	261.80	21.52
Survey	3210.00	0.70	329.80	3209.85	-2.21	-22.99	-2.21	0.22	0.06	29.92	264.51	23.10
Survey	3642.00	0.50	335.30	3641.83	1.78	-25.11	1.78	0.05	0.05	1.27	274.05	25.17
Survey	3685.00	1.20	352.10	3684.83	2.40	-25.25	2.4	1.71	1.63	39.07	275.43	25.36
Survey	3717.00	3.20	3.10	3716.80	3.62	-25.25	3.62	6.36	6.25	34.37	278.16	25.51
Survey	3748.00	5.60	7.70	3747.71	5.98	-25.00	5.98	7.82	7.74	14.84	283.45	25.71
Survey	3780.00	8.20	5.20	3779.47	9.80	-24.58	9.8	8.18	8.13	7.81	291.74	26.46
Survey	3812.00	11.00	4.00	3811.02	15.12	-24.16	15.12	8.77	8.75	3.75	302.04	28.50
Survey	3843.00	13.90	3.00	3841.29	21.79	-23.76	21.79	9.38	9.35	3.23	312.52	32.24
Survey	3875.00	16.50	3.50	3872.16	30.17	-23.28	30.17	8.14	8.13	1.56	322.35	38.11
Survey	3906.00	18.70	3.10	3901.71	39.52	-22.74	39.52	7.11	7.10	1.29	330.08	45.60
Survey	3938.00	20.50	2.30	3931.85	50.24	-22.24	50.24	5.69	5.62	2.50	336.12	54.94
Survey	3970.00	22.90	2.50	3961.58	62.06	-21.74	62.06	7.50	7.50	0.63	340.69	65.76
Survey	4001.00	25.00	2.80	3989.91	74.63	-21.16	74.63	6.79	6.77	0.97	344.17	77.57
Survey	4033.00	26.70	4.60	4018.71	88.55	-20.25	88.55	5.85	5.31	5.63	347.12	90.84
Survey	4065.00	29.00	4.70	4047.00	103.45	-19.04	103.45	7.19	7.19	0.31	349.57	105.19
Survey	4096.00	31.70	4.30	4073.75	119.06	-17.81	119.06	8.73	8.71	1.29	351.49	120.38
Survey	4128.00	34.50	3.90	4100.55	136.49	-16.57	136.49	8.78	8.75	1.25	353.08	137.49
Survey	4160.00	36.50	3.60	4126.60	155.03	-15.35	155.03	6.27	6.25	0.94	354.35	155.79
Survey	4191.00	38.70	3.30	4151.16	173.91	-14.22	173.91	7.12	7.10	0.97	355.33	174.49
Survey	4223.00	41.20	3.00	4175.69	194.43	-13.09	194.43	7.84	7.81	0.94	356.15	194.87
Survey	4255.00	42.90	3.50	4199.45	215.82	-11.88	215.82	5.41	5.31	1.56	356.85	216.15
Survey	4286.00	44.90	4.80	4221.79	237.26	-10.32	237.26	7.08	6.45	4.19	357.51	237.48
Survey	4318.00	47.10	4.30	4244.02	260.20	-8.50	260.2	6.97	6.88	1.56	358.13	260.34
Survey	4349.00	49.70	3.10	4264.60	283.34	-7.01	283.34	8.87	8.39	3.87	358.58	283.43
Survey	4381.00	52.80	2.00	4284.63	308.26	-5.90	308.26	10.05	9.69	3.44	358.90	308.32
Survey	4413.00	56.50	1.90	4303.14	334.34	-5.01	334.34	11.57	11.56	0.31	359.14	334.38
Survey	4444.00	59.90	1.80	4319.47	360.67	-4.16	360.67	10.97	10.97	0.32	359.34	360.69
Survey	4476.00	63.60	1.70	4334.61	388.84	-3.30	388.84	11.57	11.56	0.31	359.51	388.85
Survey	4508.00	66.20	1.90	4348.19	417.81	-2.39	417.81	8.14	8.13	0.63	359.67	417.82
Survey	4539.00	69.30	0.90	4359.92	446.48	-1.69	446.48	10.44	10.00	3.23	359.78	446.48
Survey	4571.00	72.00	0.60	4370.53	476.67	-1.30	476.67	8.48	8.44	0.94	359.84	476.67
Survey	4603.00	74.80	0.30	4379.67	507.33	-1.06	507.33	8.80	8.75	0.94	359.88	507.33
Survey	4634.00	77.60	360.00	4387.06	537.44	-0.98	537.44	9.08	9.03	0.97	359.90	537.44
Survey	4666.00	80.50	359.10	4393.14	568.85	-1.23	568.85	9.47	9.06	2.81	359.88	568.85
Survey	4697.00	83.00	358.10	4397.59	599.52	-1.98	599.52	8.67	8.06	3.23	359.81	599.52

DrillRight TECHNOLOGY, INC.

Survey Report

DRT Job # :

Henry 3306 2-2H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	4729.00	85.00	359.10	4400.93	631.33	-2.76	631.33	6.98	6.25	3.13	359.75	631.34
Survey	4761.00	85.50	359.60	4403.58	663.22	-3.12	663.22	2.21	1.56	1.56	359.73	663.23
Survey	4793.00	87.40	359.60	4405.56	695.15	-3.34	695.15	5.94	5.94	0.00	359.72	695.16
Survey	4824.00	87.70	359.40	4406.89	726.12	-3.61	726.12	1.16	0.97	0.65	359.72	726.13
Survey	4856.00	87.60	359.30	4408.20	758.09	-3.97	758.09	0.44	0.31	0.31	359.70	758.10
Survey	4887.00	87.80	359.20	4409.44	789.06	-4.38	789.06	0.72	0.65	0.32	359.68	789.07
Survey	4919.00	87.50	359.10	4410.75	821.03	-4.85	821.03	0.99	0.94	0.31	359.66	821.04
Survey	4951.00	87.40	358.90	4412.17	852.99	-5.41	852.99	0.70	0.31	0.63	359.64	853.01
Survey	4982.00	87.10	358.80	4413.66	883.95	-6.03	883.95	1.02	0.97	0.32	359.61	883.97
Survey	5014.00	87.10	358.70	4415.28	915.90	-6.73	915.9	0.31	0.00	0.31	359.58	915.92
Survey	5046.00	88.20	359.30	4416.59	947.87	-7.29	947.87	3.91	3.44	1.88	359.56	947.90
Survey	5077.00	88.90	360.00	4417.37	978.86	-7.48	978.86	3.19	2.26	2.26	359.56	978.89
Survey	5195.00	90.20	0.60	4418.30	1096.85	-6.86	1096.85	1.21	1.10	0.51	359.64	1096.87
Survey	5290.00	89.50	0.70	4418.55	1191.84	-5.78	1191.84	0.74	0.74	0.11	359.72	1191.85
Survey	5385.00	88.80	0.50	4419.96	1286.83	-4.79	1286.83	0.77	0.74	0.21	359.79	1286.84
Survey	5480.00	89.30	1.60	4421.54	1381.80	-3.05	1381.8	1.27	0.53	1.16	359.87	1381.80
Survey	5575.00	89.80	1.30	4422.28	1476.77	-0.65	1476.77	0.61	0.53	0.32	359.97	1476.77
Survey	5670.00	90.40	1.00	4422.11	1571.75	1.26	1571.75	0.71	0.63	0.32	0.05	1571.75
Survey	5764.00	90.50	359.60	4421.38	1665.74	1.75	1665.74	1.49	0.11	1.49	0.06	1665.74
Survey	5856.00	90.50	359.20	4420.58	1757.73	0.79	1757.73	0.43	0.00	0.43	0.03	1757.73
Survey	5949.00	91.00	358.00	4419.36	1850.69	-1.49	1850.69	1.40	0.54	1.29	359.95	1850.69
Survey	6040.00	90.60	358.20	4418.09	1941.63	-4.50	1941.63	0.49	0.44	0.22	359.87	1941.64
Survey	6132.00	90.90	0.10	4416.89	2033.61	-5.86	2033.61	2.09	0.33	2.07	359.83	2033.62
Survey	6224.00	90.70	359.30	4415.60	2125.60	-6.35	2125.6	0.90	0.22	0.87	359.83	2125.61
Survey	6316.00	90.10	0.40	4414.96	2217.60	-6.59	2217.6	1.36	0.65	1.20	359.83	2217.61
Survey	6407.00	89.20	1.50	4415.51	2308.58	-5.08	2308.58	1.56	0.99	1.21	359.87	2308.59
Survey	6500.00	90.40	0.70	4415.84	2401.56	-3.30	2401.56	1.55	1.29	0.86	359.92	2401.56
Survey	6591.00	89.70	2.10	4415.76	2492.53	-1.08	2492.53	1.72	0.77	1.54	359.98	2492.53
Survey	6683.00	90.60	1.90	4415.52	2584.47	2.13	2584.47	1.00	0.98	0.22	0.05	2584.47
Survey	6775.00	91.30	1.60	4413.99	2676.41	4.94	2676.41	0.83	0.76	0.33	0.11	2676.41
Survey	6866.00	91.10	1.10	4412.09	2767.37	7.08	2767.37	0.59	0.22	0.55	0.15	2767.38
Survey	6958.00	90.60	360.00	4410.73	2859.35	7.96	2859.35	1.31	0.54	1.20	0.16	2859.36
Survey	7049.00	90.20	359.40	4410.09	2950.35	7.49	2950.35	0.79	0.44	0.66	0.15	2950.36
Survey	7142.00	90.50	359.90	4409.52	3043.35	6.92	3043.35	0.63	0.32	0.54	0.13	3043.36
Survey	7233.00	89.90	359.40	4409.20	3134.35	6.36	3134.35	0.86	0.66	0.55	0.12	3134.36
Survey	7324.00	90.60	0.20	4408.81	3225.34	6.05	3225.34	1.17	0.77	0.88	0.11	3225.35
Survey	7416.00	90.50	359.90	4407.92	3317.34	6.13	3317.34	0.34	0.11	0.33	0.11	3317.35
Survey	7508.00	90.20	359.50	4407.36	3409.34	5.65	3409.34	0.54	0.33	0.43	0.09	3409.34
Survey	7602.00	89.60	359.20	4407.52	3503.33	4.58	3503.33	0.71	0.64	0.32	0.07	3503.33
Survey	7697.00	89.60	358.70	4408.18	3598.31	2.84	3598.31	0.53	0.00	0.53	0.05	3598.31
Survey	7792.00	89.90	358.90	4408.60	3693.29	0.85	3693.29	0.38	0.32	0.21	0.01	3693.29
Survey	7887.00	90.70	0.40	4408.10	3788.28	0.27	3788.28	1.79	0.84	1.58	0.00	3788.28
Survey	7982.00	90.60	360.00	4407.02	3883.28	0.60	3883.28	0.43	0.11	0.42	0.01	3883.28
Survey	8077.00	90.20	359.80	4406.36	3978.27	0.44	3978.27	0.47	0.42	0.21	0.01	3978.27
Survey	8172.00	89.60	0.30	4406.53	4073.27	0.52	4073.27	0.82	0.63	0.53	0.01	4073.27
Survey	8267.00	88.70	359.60	4407.94	4168.26	0.44	4168.26	1.20	0.95	0.74	0.01	4168.26
Survey	8362.00	89.40	359.20	4409.51	4263.24	-0.55	4263.24	0.85	0.74	0.42	359.99	4263.24
Survey	8457.00	88.30	359.00	4411.42	4358.21	-2.04	4358.21	1.18	1.16	0.21	359.97	4358.21

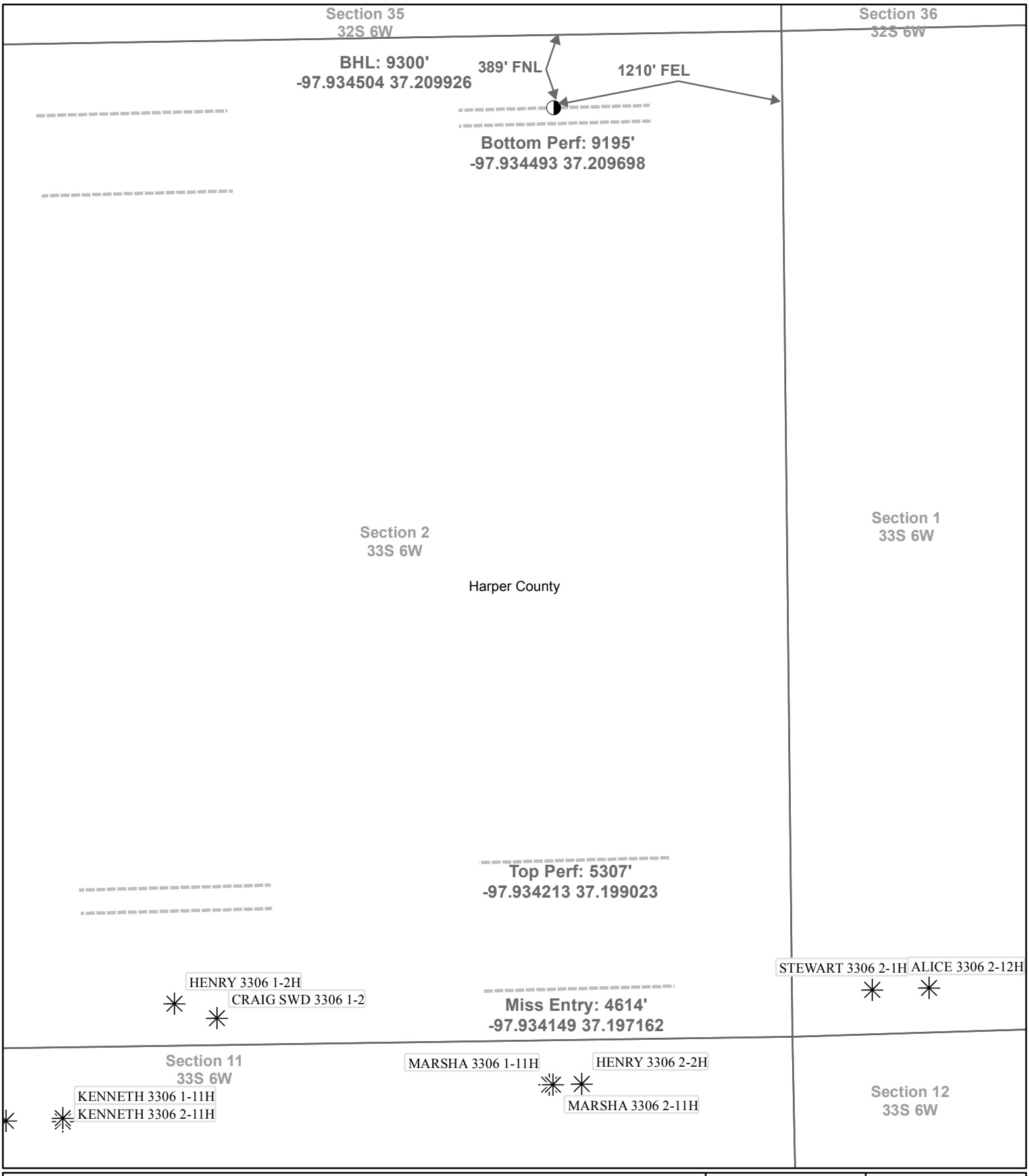
DrillRight TECHNOLOGY, INC.

Survey Report

DRT Job # :

Henry 3306 2-2H Surveys

Type	M Depth	Incl.	Azimuth	TVD	North	East	V Section	Dogleg	B Rate	T Rate	Clos Azi	Clos Dist
Survey	8551.00	88.60	359.30	4413.96	4452.17	-3.43	4452.17	0.45	0.32	0.32	359.96	4452.17
Survey	8646.00	90.10	359.80	4415.04	4547.15	-4.18	4547.15	1.66	1.58	0.53	359.95	4547.15
Survey	8741.00	90.50	359.70	4414.54	4642.15	-4.59	4642.15	0.43	0.42	0.11	359.94	4642.15
Survey	8836.00	89.50	359.90	4414.54	4737.15	-4.92	4737.15	1.07	1.05	0.21	359.94	4737.15
Survey	8931.00	90.60	0.40	4414.46	4832.15	-4.67	4832.15	1.27	1.16	0.53	359.94	4832.15
Survey	9026.00	90.70	360.00	4413.38	4927.14	-4.34	4927.14	0.43	0.11	0.42	359.95	4927.14
Survey	9121.00	90.40	359.30	4412.47	5022.13	-4.92	5022.13	0.80	0.32	0.74	359.94	5022.13
Survey	9216.00	90.20	358.90	4411.97	5117.12	-6.41	5117.12	0.47	0.21	0.42	359.93	5117.12
Survey	9249.00	90.20	358.90	4411.85	5150.11	-7.04	5150.11	0.00	0.00	0.00	359.92	5150.11
PrjCalcPnt	9300	90.2	358.9	4411.67	5201.10	-8.02	5201.10	0	0	0	359.91	5201.11



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Henry 3306 2-2H
T&R: 33S 6W
Section: 2, 1210' FEL & 389' FNL
-97.934504 37.209926

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Naomi Martinez	Draft Date: 7/2/2014
Drawing Name/Number: Addendum_Henry_3306_2-2H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	