



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1114643  
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: \_\_\_\_\_



1114643

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
--	---

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> _____
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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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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 2-35H
Doc ID	1114643

All Electric Logs Run

Boresight
Mudlog
Resistivity
Porosity

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 2-35H
Doc ID	1114643

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8184-8393	4234 bbls water, 36 bbls acid, 75M lbs sd, 4464 TLTR	
5	7694-7988	4228 bbls water, 36 bbls acid, 75M lbs sd, 9050 TLTR	
5	7380-7642	4223 bbls water, 36 bbls acid, 75M lbs sd, 13444 TLTR	
5	7060-7325	4218 bbls water, 36 bbls acid, 75M lbs sd, 17700 TLTR	
5	6512-6762	4209 bbls water, 36 bbls acid, 75M lbs sd, 22075 TLTR	
5	6197-6454	4168 bbls water, 36 bbls acid, 75M lbs sd, 26281 TLTR	
5	5764-6099	4162 bbls water, 36 bbls acid, 75M lbs sd, 30535 TLTR	
5	5381-5702	4156 bbls water, 36 bbls acid, 75M lbs sd, 34335 TLTR	
5	4982-5266	4150 bbls water, 36 bbls acid, 75M lbs sd, 39270 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 2-35H
Doc ID	1114643

### 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 Grade A Cement	11	none
Surface	12.25	9.63	36	775	Halliburton Extendacem and Swiftcem Systems	400	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	5210	Halliburton Econocem and Halcem Systems	310	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	8535	Halliburton Econocem System	460	.2% CFR-3, w/o defoamer, .25% SA-1015, 5 lbm Kol-Seal

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 11, 2013

Tiffany Golay  
SandRidge Exploration and Production LLC  
123 ROBERT S. KERR AVE  
OKLAHOMA CITY, OK 73102-6406

Re: ACO1  
API 15-077-21903-01-00  
Starks 3408 2-35H  
SE/4 Sec.35-34S-08W  
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tiffany Golay



# INVOICE

DATE	INVOICE #
1/14/2013	3682

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

<b>REMIT TO</b>
EDGE SERVICES, INC. BILLING DEPARTMENT PO BOX 14201 OKLAHOMA CITY, OK 73113

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	1/14/2013	2980	UNIT 310	STARKS 3408 2-35H	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 1 LOAD(S) MUD FURNISHED WELDER AND MATERIALS FURNISHED 11 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 14" CONDUCTOR PIPE FOR MOUSE HOLE  TOTAL BID \$ 17,000.00	
Sales Tax (0.0%) \$0.00	
<b>TOTAL \$17,000.00</b>	

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FEB 5 2013

HALLIBURTON

## Cementing Job Summary

REGULATORY DEPT  
SANDRIDGE ENERGY  
The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2977669	Quote #:	Sales Order #: 900189465
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Starks 3408	Well #: 2-35H	API/UWI #: 15-077-21903	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 35 Township 34S Range 8W			
Contractor: Unit Drilling *		Rig/Platform Name/Num: Unit 310	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: HECKENBACH, AUGUST	MBU ID Emp #: 511867

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FINDLEY, GARED A	6.5	520137	GILMORE, DONALD Zackry	9	493055	HECKENBACH, AUGUST Abbott	9	511867
Reyes, Luis	6.5	517474						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10688348	100 mile	10744563	100 mile	10872345	100 mile	10897901	100 mile
10897945	100 mile	11023260	100 mile	11706681	100 mile		

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL Total is the sum of each column separately

Job				Job Times				
Formation Name				Date	Time	Time Zone		
Formation Depth (MD)	Top	Bottom		Called Out	01 - Feb - 2013	03:00	CST	
Form Type	BHST			On Location	01 - Feb - 2013	08:30	CST	
Job depth MD	775. ft		Job Depth TVD	775. ft	Job Started	01 - Feb - 2013	16:16	CST
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	01 - Feb - 2013	17:10	CST
Perforation Depth (MD)	From	To		Departed Loc	01 - Feb - 2013	18:30	CST	

## Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25				80.	800.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	800.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
Stage Tool										Centralizers			

## Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

## Fluid Data

Stage/Plug #: 1
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Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	HLC Standard	EXTENDACEM (TM) SYSTEM (452981)	250.0	sacks	12.4	2.11	11.57		11.57
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.571 Gal	FRESH WATER							
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement			bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	53	Shut In: Instant	1400	Lost Returns		Cement Slurry	126	Pad	10
Top Of Cement	Surface	5 Min		Cement Returns	40	Actual Displacement	53	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	189
<b>Rates</b>									
Circulating	4	Mixing	5.5	Displacement	5.5	Avg. Job			5
Cement Left In Pipe	Amount	89.56 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

AFE Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Code: \_\_\_\_\_  
 Amount: \_\_\_\_\_  
 Co. Man: \_\_\_\_\_  
 Co. Man Sig.: \_\_\_\_\_  
 Notes: \_\_\_\_\_

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**HALLIBURTON**

REGULATORY DEPT  
SANDRIDGE ENERGY

**Cementing Job Summary**

*The Road to Excellence Starts with Safety*

Sold To #: 305021	Ship To #: 2977669	Quote #:	Sales Order #: 900197358
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Webster, John	
Well Name: Starks 3408	Well #: 2-35H	API/UWI #: 15-077-21903	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas

Legal Description: Section 35 Township 34S Range 8W			
Contractor: Unit Drilling *		Rig/Platform Name/Num: Unit 310	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: LEACH, CLIFFORD MBU ID Emp #: 475738	

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
LEACH, CLIFFORD Alfred	13.5	475738	MOSES, MORAINO I	13.5	517736	TERRY, STACY Glen	13.5	373291

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2-6-13	13.5							

TOTAL Total is the sum of each column separately

**Job**

**Job Times**

Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	05 - Feb - 2013	08:00 CST
Form Type BHST	On Location	05 - Feb - 2013	12:00 CST
Job depth MD 5255. ft Job Depth TVD	Job Started	05 - Feb - 2013	23:07 CST
Water Depth Wk Ht Above Floor	Job Completed	06 - Feb - 2013	00:16 CST
Perforation Depth (MD) From To	Departed Loc	06 - Feb - 2013	01:30 CST

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
8.75" Open Hole				8.75				800.	5255.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5255.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	800.		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug		1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container		1	
Stage Tool										Centralizers			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

**Fluid Data**

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

Stage/Plug #: 1

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Water		30.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD 2% EXTRA GEL	ECONOCEM (TM) SYSTEM (452992)	120.0	sacks	13.6	1.53	7.24		7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Premium	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		197.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	197	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	197	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	90.71 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

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FEB 14 2013

HALLIBURTON

REGULATORY DEPT  
SANDRIDGE ENERGY

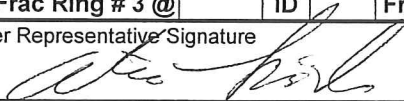
## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021		Ship To #: 2977669		Quote #:		Sales Order #: 900209337							
Customer: SANDRIDGE ENERGY INC EBUSINESS				Customer Rep: Webster, John									
Well Name: Starks 3408			Well #: 2-35H			API/UWI #: 15-077-21903							
Field:		City (SAP): WALDRON		County/Parish: Harper		State: Kansas							
Legal Description: Section 35 Township 34S Range 8W													
Contractor: Unit Drilling *				Rig/Platform Name/Num: Unit 310									
Job Purpose: Cement Production Liner													
Well Type: Development Well					Job Type: Cement Production Liner								
Sales Person: NGUYEN, VINH			Srcv Supervisor: TORRES, DIEGO			MBU ID Emp #: 390647							
<b>Job Personnel</b>													
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #		
CRESS, JOHNNY Leneil		0.0	511390	FINDLEY, GARED A		0.0	520137	GILLIAM, KEVIN S		0.0	493325		
JOHNSON, CALEB Lemuel		0.0	216972	TORRES, DIEGO Lopez		0.0	390647						
<b>Equipment</b>													
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way						
<b>Job Hours</b>													
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours					
2-11-13	8	2											
TOTAL			Total is the sum of each column separately										
<b>Job</b>					<b>Job Times</b>								
Formation Name					Date					Time	Time Zone		
Formation Depth (MD) Top		Bottom		Called Out		10 - Feb - 2013		20:00		CST			
Form Type		BHST		On Location		11 - Feb - 2013		02:00		CST			
Job depth MD		9166. ft		Job Depth TVD		8565. ft		Job Started		11 - Feb - 2013	05:50	CST	
Water Depth		Wk Ht Above Floor		4. ft		Job Completed		11 - Feb - 2013		07:08		CST	
Perforation Depth (MD) From		To		Departed Loc		11 - Feb - 2013		10:10		CST			
<b>Well Data</b>													
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft		
6.125" Open Hole				6.125				5255.	9166.				
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	4843.	9166.				
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5255.				
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	4843.				
<b>Tools and Accessories</b>													
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			
<b>Miscellaneous Materials</b>													
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	
<b>Fluid Data</b>													
Stage/Plug #: 1													

# HALLIBURTON

# Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Water		30.00	bbl	8.5	.0	.0	.0	
2	Standard/poz/en hancer 34/33/33	ECONOCEM (TM) SYSTEM (452992)	460.0	sacks	13.6	1.5	6.77		6.77
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	0.25 %	SA-1015, 50 LB SACK (102077046)							
	5 lbm	KOL-SEAL, BULK (100064233)							
	6.773 Gal	FRESH WATER							
3	Displacement		99.00	bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement	99	Shut In: Instant		Lost Returns	NO	Cement Slurry	123	Pad	
Top Of Cement	5210	5 Min		Cement Returns	0	Actual Displacement	99	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	232
<b>Rates</b>									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature 					

# Sandridge Energy

Starks 3408 2-35H (Final)

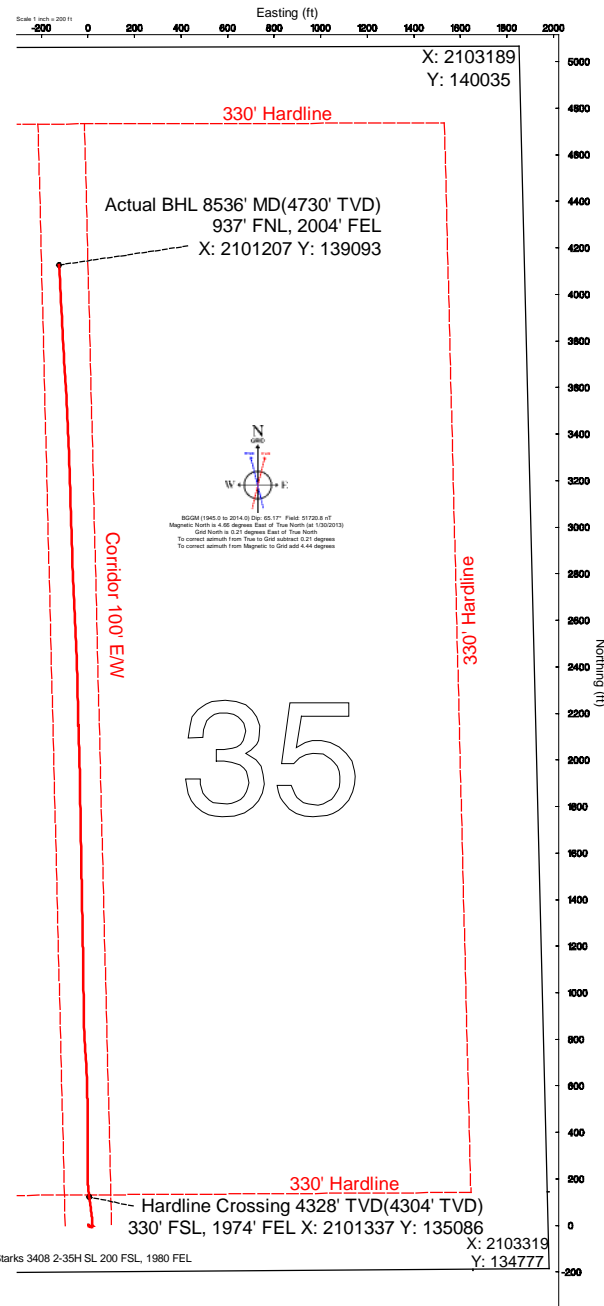
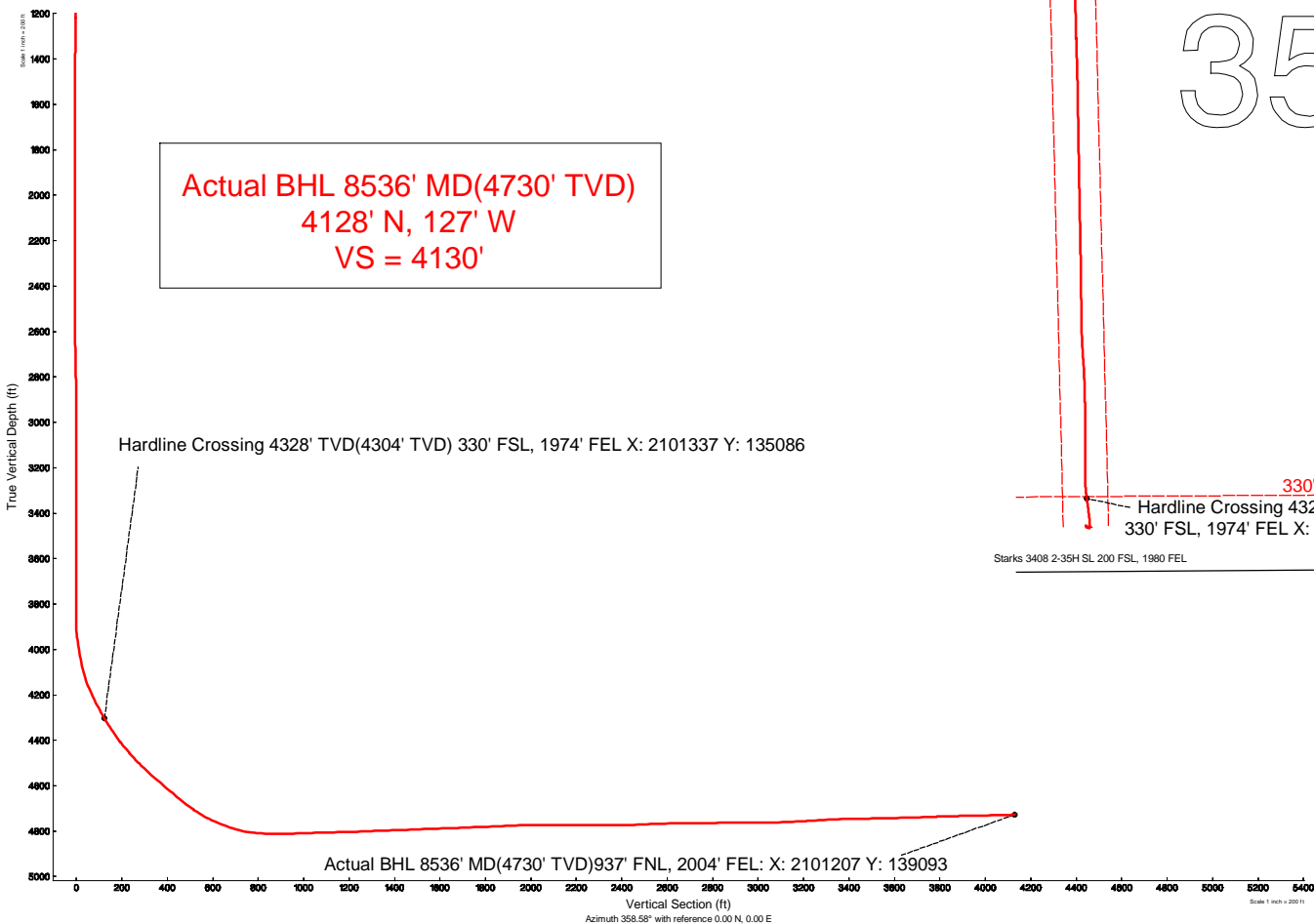
Starks 3408 2-35H SL 200 FSL, 1980 FEL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference wellpath is Plan 1	
True vertical depths are referenced to Unit 310 (KB)	Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
Measured depths are referenced to Unit 310 (KB)	North Reference: Grid north
Unit 310 (KB) to Mean Sea Level: 1292 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Starks 3408 2-35H SL 200 FSL, 1980 FEL): -1277 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: broomart on 1/30/2013

### Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Starks 3408 2-35H Sec. 35-34S-81W	2101334.000	134965.000	37°02'12.510"N	98°09'10.307"W
Slot	Local N (ft)	Local E (ft)	Latitude	Longitude
Starks 3408 2-35H SL 200 FSL, 1980 FEL	0.00	0.00	37°02'12.510"N	98°09'10.307"W
Unit 310 (KB) to Mud line (At Slot: Starks 3408 2-35H SL 200 FSL, 1980 FEL)			15ft	
Mean Sea Level to Mud line (At Slot: Starks 3408 2-35H SL 200 FSL, 1980 FEL)			-1277ft	
Unit 310 (KB) to Mean Sea Level			1292ft	



# Actual Wellpath Report

Sandridge Starks 3408 2-35H\_Final Surveys.

Page 1 of 5

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 2-35H SL 200 FSL, 1980 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 2-35H Actual
Facility	Starks 3408 2-35H Sec. 35-34S-8W		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect 3.0.0
Convergence at slot	0.21° East	User	Broomarl
Scale	1.00005	Report Generated	3/8/2013 at 11:50:25 AM
Wellbore last revised	01-30-2013	Database/Source file	WA_OklahomaCity

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	2101334.00	134965.00	37°02'12.510"N	98°09'10.307"W
Facility Reference Pt			2101334.00	134965.00	37°02'12.510"N	98°09'10.307"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Unit 310 (KB) to Facility Vertical Datum	15.00ft
Horizontal Reference Pt	Slot	Unit 310 (KB) to Mean Sea Level	1292.00ft
Vertical Reference Pt	Unit 310 (KB)	Unit 310 (KB) to Mud Line at Slot (Starks 3408 2-35H SL 200 FSL, 1980 FEL)	15.00ft
MD Reference Pt	Unit 310 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.58°

# Actual Wellpath Report

Sandridge Starks 3408 2-35H Final Surveys.

Page 2 of 5

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 2-35H SL 200 FSL, 1980 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 2-35H Actual
Facility	Starks 3408 2-35H Sec. 35-34S-8W		

WELLPATH DATA (115 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
0.00	0.000	151.840	0.00	0.00	0.00	0.00	2101334.00	134965.00	0.00	
15.00	0.000	151.840	15.00	0.00	0.00	0.00	2101334.00	134965.00	0.00	
250.00	0.250	151.840	250.00	-0.46	-0.45	0.24	2101334.24	134964.55	0.11	
500.00	1.000	151.840	499.98	-2.89	-2.86	1.53	2101335.53	134962.14	0.30	
775.00	0.250	151.840	774.96	-5.57	-5.50	2.94	2101336.94	134959.50	0.27	
816.00	0.220	151.840	815.96	-5.72	-5.65	3.02	2101337.02	134959.35	0.07	
908.00	0.740	125.280	907.96	-6.23	-6.15	3.59	2101337.59	134958.85	0.60	
999.00	0.830	86.330	998.95	-6.56	-6.45	4.73	2101338.73	134958.55	0.58	
1091.00	0.970	75.790	1090.94	-6.36	-6.21	6.15	2101340.15	134958.79	0.24	
1182.00	0.830	97.180	1181.93	-6.29	-6.10	7.55	2101341.55	134958.90	0.40	
1274.00	1.030	126.990	1273.92	-6.90	-6.69	8.87	2101342.87	134958.31	0.56	
1366.00	0.820	112.450	1365.91	-7.68	-7.43	10.14	2101344.14	134957.57	0.34	
1548.00	1.230	115.050	1547.88	-9.08	-8.76	13.11	2101347.11	134956.24	0.23	
1640.00	0.250	94.660	1639.87	-9.54	-9.19	14.21	2101348.21	134955.81	1.09	
1735.00	0.070	11.450	1734.87	-9.51	-9.15	14.43	2101348.43	134955.85	0.26	
1829.00	0.070	129.360	1828.87	-9.49	-9.13	14.48	2101348.48	134955.87	0.13	
1924.00	0.090	189.590	1923.87	-9.60	-9.24	14.52	2101348.52	134955.76	0.09	
2019.00	0.100	108.770	2018.87	-9.70	-9.34	14.58	2101348.58	134955.66	0.13	
2114.00	0.150	77.270	2113.87	-9.71	-9.34	14.78	2101348.78	134955.66	0.09	
2209.00	0.030	4.290	2208.87	-9.66	-9.29	14.90	2101348.90	134955.71	0.15	
2304.00	0.150	30.600	2303.87	-9.53	-9.16	14.97	2101348.97	134955.84	0.13	
2399.00	0.310	240.660	2398.87	-9.54	-9.18	14.81	2101348.81	134955.82	0.47	
2494.00	0.280	341.580	2493.87	-9.44	-9.08	14.51	2101348.51	134955.92	0.48	
2589.00	0.690	41.420	2588.86	-8.80	-8.43	14.82	2101348.82	134956.57	0.63	
2684.00	1.500	38.050	2683.85	-7.42	-7.03	15.96	2101349.96	134957.97	0.85	
2779.00	1.170	13.930	2778.82	-5.52	-5.11	16.96	2101350.96	134959.89	0.68	
2873.00	0.250	259.460	2872.81	-4.63	-4.21	16.99	2101350.99	134960.79	1.38	
2968.00	0.130	342.010	2967.81	-4.56	-4.15	16.75	2101350.75	134960.85	0.28	
3063.00	0.070	62.410	3062.81	-4.43	-4.02	16.77	2101350.77	134960.98	0.14	
3158.00	0.100	81.010	3157.81	-4.39	-3.98	16.90	2101350.91	134961.02	0.04	
3252.00	0.030	297.950	3251.81	-4.37	-3.95	16.96	2101350.96	134961.05	0.13	
3347.00	0.100	56.740	3346.81	-4.32	-3.90	17.01	2101351.01	134961.10	0.12	
3442.00	0.100	63.670	3441.81	-4.24	-3.81	17.15	2101351.16	134961.19	0.01	
3537.00	0.070	154.900	3536.81	-4.26	-3.83	17.25	2101351.25	134961.17	0.13	
3632.00	0.090	66.300	3631.81	-4.28	-3.85	17.35	2101351.35	134961.15	0.12	
3726.00	0.030	164.210	3725.81	-4.28	-3.85	17.42	2101351.42	134961.15	0.11	
3821.00	0.070	141.990	3820.81	-4.35	-3.92	17.46	2101351.46	134961.08	0.05	
3885.00	0.960	357.260	3884.81	-3.84	-3.41	17.46	2101351.46	134961.59	1.59	
3916.00	3.760	356.960	3915.78	-2.57	-2.14	17.40	2101351.40	134962.86	9.03	
3948.00	6.320	358.920	3947.65	0.24	0.67	17.31	2101351.31	134965.67	8.02	
3980.00	8.200	359.070	3979.40	4.29	4.72	17.24	2101351.24	134969.72	5.88	
4011.00	9.940	357.510	4010.01	9.17	9.60	17.08	2101351.09	134974.60	5.67	
4043.00	12.080	355.320	4041.42	15.28	15.70	16.69	2101350.69	134980.70	6.81	
4075.00	13.620	355.090	4072.61	22.38	22.79	16.10	2101350.10	134987.79	4.82	
4106.00	14.910	353.460	4102.66	30.00	30.39	15.33	2101349.33	134995.39	4.36	



# Actual Wellpath Report

Sandridge Starks 3408 2-35H\_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 2-35H SL 200 FSL, 1980 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 2-35H Actual
Facility	Starks 3408 2-35H Sec. 35-34S-8W		

## WELLPATH DATA (115 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
4138.00	17.600	353.570	4133.38	38.92	39.29	14.32	2101348.32	135004.29	8.41	
4170.00	21.120	352.830	4163.56	49.48	49.82	13.06	2101347.06	135014.82	11.03	
4201.00	24.120	350.580	4192.17	61.31	61.61	11.32	2101345.32	135026.61	10.07	
4233.00	26.610	351.910	4221.09	74.91	75.16	9.24	2101343.24	135040.16	7.98	
4265.00	28.650	352.360	4249.44	89.65	89.86	7.21	2101341.21	135054.86	6.41	
4296.00	29.840	352.800	4276.48	104.71	104.88	5.26	2101339.26	135069.88	3.90	
4328.00	30.170	352.240	4304.20	120.63	120.74	3.18	2101337.18	135085.75	1.35	Hardline Crossing 4328' TVD(4304' TVD) 330' FSL, 1974' FEL X: 2101
4360.00	31.460	354.270	4331.68	136.95	137.02	1.26	2101335.26	135102.03	5.18	
4391.00	33.690	354.070	4357.80	153.59	153.62	-0.44	2101333.56	135118.63	7.20	
4423.00	35.850	355.780	4384.09	171.80	171.80	-2.05	2101331.95	135136.81	7.41	
4454.00	37.490	357.590	4408.95	190.30	190.28	-3.11	2101330.89	135155.29	6.34	
4486.00	39.480	357.940	4434.00	210.21	210.18	-3.89	2101330.11	135175.19	6.26	
4518.00	41.640	359.770	4458.31	231.01	230.98	-4.29	2101329.70	135195.99	7.71	
4549.00	43.210	359.830	4481.19	251.92	251.89	-4.37	2101329.63	135216.90	5.07	
4581.00	43.730	1.380	4504.42	273.92	273.90	-4.13	2101329.87	135238.92	3.71	
4612.00	46.210	1.690	4526.35	295.80	295.80	-3.55	2101330.45	135260.82	8.03	
4644.00	48.670	0.780	4547.99	319.34	319.36	-3.04	2101330.96	135284.38	7.97	
4707.00	49.760	0.020	4589.14	367.02	367.06	-2.71	2101331.29	135332.08	1.96	
4771.00	49.750	358.840	4630.49	415.86	415.91	-3.20	2101330.80	135380.93	1.41	
4802.00	49.990	359.220	4650.47	439.56	439.61	-3.60	2101330.40	135404.63	1.22	
4833.00	50.470	359.900	4670.30	463.39	463.43	-3.78	2101330.22	135428.46	2.29	
4865.00	52.950	359.270	4690.13	488.50	488.55	-3.96	2101330.04	135453.57	7.90	
4897.00	55.620	359.290	4708.81	514.47	514.52	-4.29	2101329.71	135479.55	8.34	
4928.00	58.320	359.200	4725.70	540.46	540.51	-4.63	2101329.37	135505.54	8.71	
4960.00	61.960	0.270	4741.63	568.20	568.26	-4.76	2101329.24	135533.28	11.74	
4992.00	65.060	358.380	4755.90	596.83	596.89	-5.10	2101328.90	135561.92	11.04	
5023.00	67.950	357.150	4768.26	625.26	625.29	-6.21	2101327.79	135590.33	10.01	
5055.00	70.120	357.640	4779.71	655.13	655.14	-7.57	2101326.43	135620.18	6.93	
5087.00	72.780	357.160	4789.89	685.46	685.45	-8.95	2101325.05	135650.48	8.43	
5118.00	76.010	355.890	4798.23	715.29	715.24	-10.76	2101323.24	135680.28	11.14	
5150.00	79.600	355.680	4804.99	746.53	746.43	-13.06	2101320.94	135711.47	11.24	
5181.00	83.460	357.030	4809.55	777.16	777.02	-15.01	2101318.99	135742.06	13.18	
5213.00	86.240	356.730	4812.42	809.01	808.85	-16.74	2101317.26	135773.89	8.74	
5259.00	89.510	358.590	4814.13	854.97	854.77	-18.62	2101315.38	135819.81	8.18	
5320.00	91.080	359.010	4813.82	915.96	915.75	-19.89	2101314.11	135880.80	2.66	
5415.00	91.910	359.360	4811.34	1010.92	1010.71	-21.24	2101312.75	135975.76	0.95	
5509.00	91.840	358.960	4808.26	1104.87	1104.65	-22.62	2101311.38	136069.70	0.43	
5604.00	91.530	359.330	4805.47	1199.82	1199.60	-24.04	2101309.96	136164.66	0.51	
5699.00	92.210	358.480	4802.37	1294.77	1294.53	-25.85	2101308.15	136259.59	1.15	
5794.00	92.150	359.340	4798.75	1389.70	1389.44	-27.66	2101306.34	136354.51	0.91	
5889.00	92.220	358.500	4795.13	1484.63	1484.35	-29.45	2101304.55	136449.43	0.89	
5984.00	92.100	359.220	4791.55	1579.56	1579.27	-31.34	2101302.66	136544.35	0.77	
6079.00	92.140	358.950	4788.04	1674.49	1674.19	-32.85	2101301.15	136639.27	0.29	
6174.00	92.250	359.010	4784.40	1769.42	1769.10	-34.54	2101299.46	136734.19	0.13	
6269.00	92.750	359.020	4780.26	1864.32	1864.00	-36.17	2101297.82	136829.09	0.53	

# Actual Wellpath Report

Sandridge Starks 3408 2-35H\_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 2-35H SL 200 FSL, 1980 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 2-35H Actual
Facility	Starks 3408 2-35H Sec. 35-34S-8W		

## WELLPATH DATA (115 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
6364.00	91.940	359.130	4776.37	1959.24	1958.91	-37.71	2101296.29	136924.01	0.86	
6459.00	89.780	357.970	4774.94	2054.22	2053.86	-40.11	2101293.89	137018.96	2.58	
6554.00	89.110	358.220	4775.86	2149.21	2148.80	-43.27	2101290.73	137113.91	0.75	
6648.00	91.020	358.760	4775.76	2243.21	2242.76	-45.74	2101288.25	137207.88	2.11	
6743.00	89.750	358.850	4775.12	2338.20	2337.74	-47.73	2101286.27	137302.86	1.34	
6838.00	90.870	357.570	4774.60	2433.20	2432.69	-50.69	2101283.30	137397.81	1.79	
6933.00	92.960	357.540	4771.43	2528.12	2527.54	-54.74	2101279.25	137492.67	2.20	
7028.00	90.890	357.000	4768.24	2623.04	2622.37	-59.27	2101274.73	137587.51	2.25	
7060.00	89.750	357.620	4768.06	2655.03	2654.34	-60.77	2101273.23	137619.47	4.06	
7148.00	90.860	357.140	4767.59	2743.01	2742.24	-64.79	2101269.21	137707.38	1.37	
7243.00	92.060	358.450	4765.17	2837.96	2837.14	-68.44	2101265.55	137802.28	1.87	
7338.00	89.320	357.980	4764.03	2932.95	2932.08	-71.40	2101262.59	137897.23	2.93	
7433.00	90.090	358.310	4764.52	3027.94	3027.02	-74.48	2101259.52	137992.18	0.88	
7528.00	92.180	358.010	4762.63	3122.91	3121.95	-77.53	2101256.47	138087.11	2.22	
7623.00	94.080	358.490	4757.45	3217.77	3216.76	-80.42	2101253.57	138181.93	2.06	
7718.00	92.860	357.620	4751.70	3312.58	3311.53	-83.64	2101250.35	138276.70	1.58	
7812.00	91.180	357.240	4748.38	3406.50	3405.37	-87.86	2101246.14	138370.55	1.83	
7907.00	90.990	357.600	4746.58	3501.47	3500.26	-92.13	2101241.86	138465.44	0.43	
8002.00	91.390	356.500	4744.61	3596.41	3595.11	-97.02	2101236.98	138560.30	1.23	
8097.00	91.730	356.250	4742.03	3691.30	3689.89	-103.02	2101230.97	138655.07	0.44	
8192.00	92.500	356.920	4738.52	3786.18	3784.65	-108.68	2101225.32	138749.84	1.07	
8286.00	90.920	357.250	4735.71	3880.10	3878.48	-113.46	2101220.54	138843.68	1.72	
8381.00	91.200	357.180	4733.96	3975.06	3973.36	-118.07	2101215.92	138938.56	0.30	
8476.00	91.670	356.730	4731.58	4069.99	4068.19	-123.12	2101210.88	139033.40	0.68	
8536.00	91.670	356.730	4729.83	4129.93	4128.07	-126.54	2101207.46	139093.28	0.00	Actual BHL 8536' MD(4730' TVD)937' FNL, 2004' FEL: X: 2101207

# Actual Wellpath Report

Sandridge Starks 3408 2-35H\_Final Surveys.

Page 5 of 5

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 2-35H SL 200 FSL, 1980 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 2-35H Actual
Facility	Starks 3408 2-35H Sec. 35-34S-8W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BHL 330 FNL, 1980' FEL		4739.93	4734.76	-116.99	2101217.00	139700.00	37°02'59.329"N	98°09'11.533"W	point

WELLPATH COMPOSITION - Ref Wellbore: Starks 3408 2-35H Actual Ref Wellpath: AWP - Final				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	775.00	Generic gyro - northseeking (Standard)	Gyro rcvd from field 2-3-13 file seems corrupt; need to check into it	Starks 3408 2-35
775.00	8476.00	NaviTrak (Standard)	Inteq MWD	Starks 3408 2-35
8476.00	8536.00	Blind Drilling (std)	Projection to bit	Starks 3408 2-35

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	3/12/2013
State:	Kansas
County:	Harper
API Number:	15-077-21903
Operator Name:	SandRidge Expl. and Prod., LLC
Well Name and Number:	Starks 3408 2-35H
Longitude:	-98.1528
Latitude:	37.0368
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	4,729
Total Water Volume (gal)*:	1,608,933

### 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
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent	Water (Including Mix Water Supplied by Client)*	-		94.83459%	
			Crystalline silica	14808-60-7	96.23336%	4.97085%	
			Hydrogen chloride	7647-01-0	2.63807%	0.13627%	
			Acrylamide sodium acrylate copolymer	25085-02-3	0.38193%	0.01973%	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.33182%	0.01714%	
			Polyethylene glycol monoethyl ether	31726-34-8	0.11520%	0.00595%	
			Glutaraldehyde	111-30-8	0.05737%	0.00296%	
			Trisodium ortho phosphate	7601-54-9	0.02662%	0.00138%	
			Sodium erythorbate	6381-77-7	0.02256%	0.00117%	
			Alkylalcohol, ethoxylate >C10	68002-97-1	0.02032%	0.00105%	
			Sorbitan monooleate	1338-43-8	0.01625%	0.00084%	
			Methanol	67-56-1	0.01246%	0.00064%	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01024%	0.00053%	
			Thiocyanic acid, ammonium salt	1762-95-4	0.01002%	0.00052%	
			Poly(oxyethylene) sorbitol monostearate	9005-67-8	0.00948%	0.00049%	
			Fatty acids, tall-oil	61790-12-3	0.00873%	0.00045%	
			Ethane-1,2-diol	107-21-1	0.00758%	0.00039%	
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00718%	0.00037%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00505%	0.00026%	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00334%	0.00017%	
			Prop-2-yn-1-ol	107-19-7	0.00223%	0.00012%	

			Alkenes, C>10 a-	64743-02-8	0.00149%	0.00008%	
			Ethanol	64-17-5	0.00123%	0.00006%	
			Propan-2-ol	67-63-0	0.00101%	0.00005%	
			Potassium hydroxide	1310-58-3	0.00023%	0.00001%	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00012%	0.00001%	

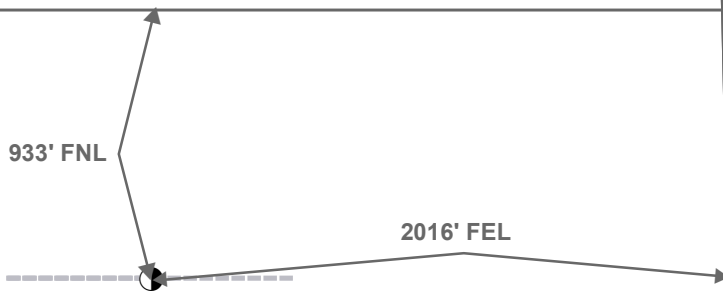
\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Section 26  
34S 8W

Section 25  
34S 8W



BHL: 8536'  
-98.153587 37.048171

Bottom Perf: 8184'  
-98.15353 37.047228

Harper County

Section 35  
34S 8W

Section 36  
34S 8W

Top Perf: 4982'  
-98.153216 37.038472

Miss Entry: 4946'  
-98.153215 37.038394

STARKS 1-35H

STARKS 3408 4-35H

STARKS 3408 2-35H

STARKS 3408 3-35H

Section 2  
35S 8W

Section 1  
35S 8W



Actual Bottom-Hole Location of Starks 3408 2-35H  
Harper County, Kansas

T&R: 34S 8W  
Section: 35, 2016' FEL & 933' FNL  
Long/Lat: -98.153587 37.048171

1 in = 668 ft

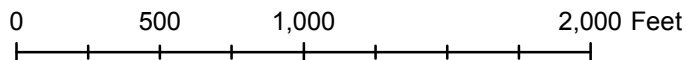


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 5/8/2013

Drawing Name/Number:

Addendum\_Starks\_2-35H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

## Remarks

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Tiffany Golay 04/25/013 02:52 pm	Additional Fluid Mgmt Info: 950 bbls hauled to Gray Mud Disposal, W/2 15-24N-7W Garfield, OK
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Tiffany Golay 02/11/013 08:49 am	TVD= 4,729'
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