



KANSAS CORPORATION COMMISSION 1138433  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

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
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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: \_\_\_\_\_



1138433

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 3-35H
Doc ID	1138433

All Electric Logs Run

Mud Log
Boresight
Nuclear
Induction
Prizm

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 3-35H
Doc ID	1138433

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8832-9076	4099 bbls water, 36 bbls acid, 75M lbs sd, 4355 TLTR	
5	8444-8744	4093 bbls water, 36 bbls acid, 75M lbs sd, 8702 TLTR	
5	8138-8364	4088 bbls water, 36 bbls acid, 75M lbs sd, 13071 TLTR	
5	7736-8042	4082 bbls water, 36 bbls acid, 75M lbs sd, 17423 TLTR	
5	7370-7630	4076 bbls water, 36 bbls acid, 75M lbs sd, 22213 TLTR	
5	7010-7304	4071 bbls water, 36 bbls acid, 75M lbs sd, 26587 TLTR	
5	6704-6947	4066 bbls water, 36 bbls acid, 75M lbs sd, 30901 TLTR	
5	6296-6626	4059 bbls water, 36 bbls acid, 75M lbs sd, 35098 TLTR	
5	5945-6183	4054 bbls water, 36 bbls acid, 75M lbs sd, 39382 TLTR	
5	5586-5858	4054 bbls water, 36 bbls acid, 75M lbs sd, 39382 TLTR	

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

May 08, 2013

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

Re: ACO1  
API 15-077-21925-01-00  
Starks 3408 3-35H  
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

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

Date	Invoice #
4/15/2013	1833

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

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Earl Sullivan	Net 45	4/15/2013	Starks 3408 3-35H, Harper Cnty, KS	Latshaw 38

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Grout & Trucking	10	Furnished grout and trucking to location
Transport Truck - Conductor	1	Transport truck and water to displace cement down center of conductor hole
Grout Pump	1	Furnished grout pump
Fence Panels	4	Furnished safety netting around conductor holes
Welder & Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
Cover Plate	1	Furnished cover plates
Permits	1	Permits

AFE Number: DC 12676

Well Name: Starks 3-35H

Code: 850-010

Amount: \$19,340.00

Co. Man: Lewis Maddox

Co. Man Sig: [Signature]

Notes: \_\_\_\_\_

<b>Subtotal</b>	\$19,340.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$19,340.00</b>

RECEIVED

APR 25 2013

HALLIBURTON

Cementing Job Summary

REGULATORY DEPT

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2993785	Quote #:	Sales Order #: 900379509
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: STARKS 3408	Well #: 3-35H	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Contractor: Latshaw Drlg.	Rig/Platform Name/Num: Latshaw 38		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: FRENCH, JEREMY	Srvc Supervisor: DAVIS, ROBERT	MBU ID Emp #: 458886	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, ROBERT T	4.5	458886	MILLER, ELWOOD W	4.5	459317	STOOPS, LEVI Keith	4.5	523378

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
4-21-13	4.5	3						

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	21 - Apr - 2013 10:00 CST
Form Type	BHST	On Location	21 - Apr - 2013 17:00 CST
Job depth MD	784. ft	Job Depth TVD	784. ft
Water Depth	Wk Ht Above Floor	Job Started	21 - Apr - 2013 19:30 CST
Perforation Depth (MD) From	To	Job Completed	21 - Apr - 2013 20:05 CST
		Departed Loc	21 - Apr - 2013 22:00 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
Open Hole				12.25					800.		800.
Surface Casing	Unknown		9.625	8.921	36.		J-55		800.		800.

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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom	



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)	170.0	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)	200.0	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	57	Shut In: Instant		Lost Returns	0	Cement Slurry	107	Pad	
Top Of Cement	0	5 Min		Cement Returns	32	Actual Displacement	57	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	174
<b>Rates</b>									
Circulating		Mixing	6	Displacement	6	Avg. Job			6
Cement Left In Pipe	Amount	40 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 <i>Lewis Maddox</i>					



API No.
OTC/OCC Operator No.

RECEIVED  
MAY 7 2013  
REGULATORY DEPT  
SANDRIDGE ENERGY

**CEMENTING REPORT**  
To Accompany Completion Report

Form 1002C  
Rev. 1996

ATTENTION: IMPORTANT REGULATORY DOCUMENT  
retain for your records and file with  
appropriate agency.

OKLAHOMA CORPORATION COMMISSION  
Oil & Gas Conservation Division  
Post Office Box 52000-2000  
Oklahoma City, Oklahoma 73152-2000  
OAC 165:10-3-4(h)

All operators must include this form when submitting the Completion Report, (Form 1002A). The signature on this statement must be that of qualified employees of the cementing company and operator to demonstrate compliance with OAC 165:10-3-4(h). It may be advisable to take a copy of this form to location when cementing work is performed.

TYPE OR USE BLACK INK ONLY

*Field Name				OCC District
*Operator	<b>SANDRIDGE ENERGY INC EBUSINESS</b>			OCC/OTC Operator No
*Well Name/No.	<b>Starks 3408 3-35H</b>			County <b>Harper</b>
*Location	1/4	1/4	1/4	1/4
	Sec	<b>35</b>	Twp	<b>34S</b>
			Rge	<b>8W</b>

Cement Casing Data	Conductor Casing	Surface Casing	Alternative Casing	Intermediate Casing	Production String	Liner
Cementing Date				<b>5/2/13</b>		
*Size of Drill Bit (Inches)				<b>8.75</b>		
*Estimated % wash or hole enlargement used in calculations				<b>35</b>		
*Size of Casing (inches O.D.)				<b>7</b>		
*Top of Liner (if liner used) (ft.)						
*Setting Depth of Casing (ft.) from ground level				<b>5572.85</b>		
Type of Cement (API Class) In first (lead) or only slurry				<b>50/50 POZ STD</b>		
In second slurry				<b>PREMIUM</b>		
In third slurry						
Sacks of Cement Used In first (lead) or only slurry				<b>150</b>		
In second slurry				<b>200</b>		
In third slurry						
Vol of slurry pumped (Cu ft)(14.X15.) in first (lead) or only slurry				<b>229.5</b>		
In second slurry				<b>238</b>		
In third slurry						
Calculated Annular Height of Cement behind Pipe (ft)				<b>2200.3</b>		
Cement left in pipe (ft)				<b>90.55</b>		

\*Amount of Surface Casing Required (from Form 1000) \_\_\_\_\_ ft.

*Was cement circulated to Ground Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	*Was Cement Staging Tool (DV Tool) used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
*Was Cement Bond Log run? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If so, Attach Copy)	*If Yes, at what depth? _____ ft

CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE OF FORM

\* Designates items to be completed by Operator.  
Items not so designated shall be completed by the Cementing Company.

Remarks

**Stage #1/Slurry #1:** Fresh Water

**Stage #1/Slurry #2:** 50/50 POZ STANDARD W / 2% EXTRA GEL w/ ECONOCEM (TM) SYSTEM, 2 % Bentonite, 0.4 % Halad(R)-9, 2 lbm Kol-Seal, 2 % Bentonite.

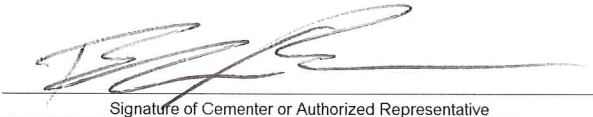
**Stage #1/Slurry #3:** PREMIUM w/ HALCEM (TM) SYSTEM, 0.4 % Halad(R)-9, 2 lbm Kol-Seal.

**Stage #1/Slurry #4:** Displacement

\*Remarks

**CEMENTING COMPANY**

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that the cementing of casing in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.



Signature of Cementer or Authorized Representative

**OPERATOR**

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Signature of Operator or Authorized Representative

Name & Title Printed or Typed

**BRIAN PENN, Service Supervisor**

---

**Halliburton Energy Services**

Address

**701 DISPENCARY RD**

City

**BURNS FLAT**

State **OKLAHOMA** Zip **73624**

Telephone (AC) Number

**580 562 1500**

Date

**5/2/13**

\*Name & Title Printed or Typed

\*Operator

\*Address

\*City

\*State \*Zip

\*Telephone (AC) Number

\*Date

**INSTRUCTIONS**

1. A) This form shall be filed by the operator, at the O.C.C. office in Oklahoma City, as an attachment to the Completion Report (Form 1002A) for a producing well or a dry hole.
- B) An original of this form shall be filed as an attachment to the Completion Report, (Form 1002A), for each cementing company used on a well.
- C) The cementing of different casing strings on a well by one cementing company may be consolidated on one form.
2. Cementing Company and Operator shall comply with the applicable portions of OAC 165:10-3-4(h).
3. Set surface casing 50 feet below depth of treatable water to be protected and cement from casing shoe to ground surface or as allowed by OAC 165:10-3-4(h).
4. **IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, BE SURE TO FOLLOW CORPORATION COMMISSION RULES.**

# Sandridge Energy

Starks 3408 3-35H (Plan 1)

Starks 3408 3-35H SL 200 FSL, 660 FEL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

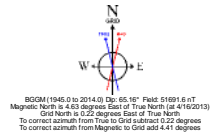
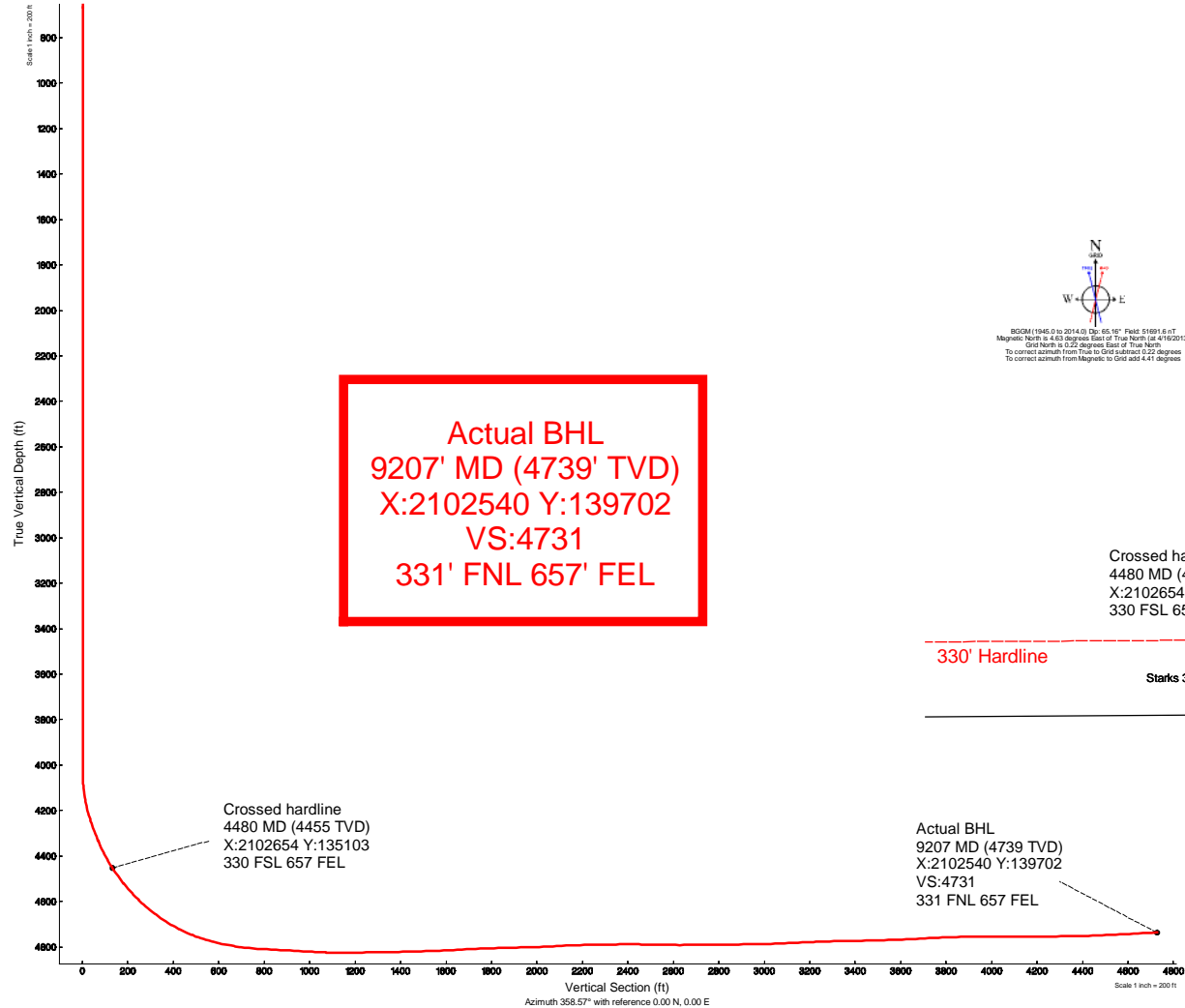
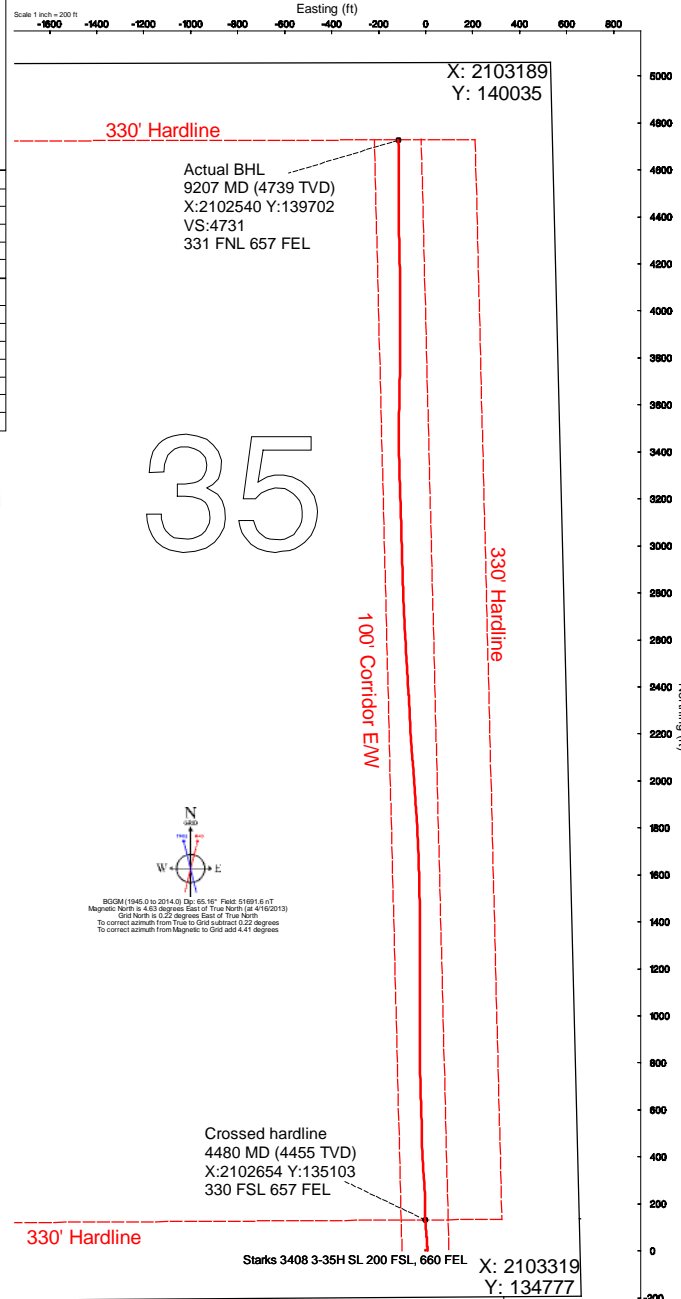
Plot reference wellpath is Plan 1		Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
True vertical depths are referenced to Latshaw 38 (KB)		North Reference: Grid north
Measured depths are referenced to Latshaw 38 (KB)		Scale: True distance
Latshaw 38 (KB) to Mean Sea Level: 1313 feet		Depths are in feet
Mean Sea Level to Mud line (At Slot: Starks 3408 3-35H SL 200 FSL, 660 FEL): -1290 feet		Created by: broomart on 4/17/2013
Coordinates are in feet referenced to Slot		

### Location Information

Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Starks 3408 3-35H Sec. 35-34S-8W				2102655.000	134973.000	37°02'12.540"N	98°08'54.016"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Starks 3408 3-35H SL 200 FSL, 660 FEL	0.00	0.00	2102655.000	134973.000	37°02'12.540"N	98°08'54.016"W		
Latshaw 38 (KB) to Mud line (At Slot: Starks 3408 3-35H SL 200 FSL, 660 FEL)								23ft
Mean Sea Level to Mud line (At Slot: Starks 3408 3-35H SL 200 FSL, 660 FEL)								-1290ft
Latshaw 38 (KB) to Mean Sea Level								1313ft



# 35





## Actual Wellpath Report

Sandridge Starks 3408 3-35H\_Svy (07-Jun-2013).  
Page 1 of 4



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 3-35H SL 200 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 3-35H Actual
Facility	Starks 3408 3-35H 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	0.22° East	User	Adammic
Scale	1.00005	Report Generated	07/Jun/2013 at 3:20:32 PM
Wellbore last revised	04-16-2013	Database/Source file	intokcapp01

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	2102655.00	134973.00	37°02'12.540"N	98°08'54.016"W
Facility Reference Pt			2102655.00	134973.00	37°02'12.540"N	98°08'54.016"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Latshaw 38 (KB) to Facility Vertical Datum	23.00ft
Horizontal Reference Pt	Slot	Latshaw 38 (KB) to Mean Sea Level	1313.00ft
Vertical Reference Pt	Latshaw 38 (KB)	Latshaw 38 (KB) to Mud Line at Slot (Starks 3408 3-35H SL 200 FSL, 660 FEL)	23.00ft
MD Reference Pt	Latshaw 38 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	358.57°



## Actual Wellpath Report

Sandridge Starks 3408 3-35H\_Svy (07-Jun-2013).

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 3-35H SL 200 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 3-35H Actual
Facility	Starks 3408 3-35H Sec. 35-34S-8W		

WELLPATH DATA (100 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]	Comments
0.00†	0.000	88.570	0.00	0.00	0.00	0.00	2102655.00	134973.00	0.00	
23.00	0.000	88.570	23.00	0.00	0.00	0.00	2102655.00	134973.00	0.00	
268.00	0.530	88.570	268.00	0.00	0.03	1.13	2102656.13	134973.03	0.22	
495.00	0.440	88.570	494.99	0.00	0.08	3.05	2102658.05	134973.08	0.04	
765.00	0.690	88.570	764.98	0.00	0.14	5.72	2102660.72	134973.14	0.09	
851.00	0.750	88.570	850.97	0.00	0.17	6.80	2102661.80	134973.17	0.07	
1008.00	0.070	251.300	1007.96	-0.03	0.16	7.73	2102662.73	134973.16	0.52	
1469.00	0.040	282.160	1468.96	-0.07	0.11	7.31	2102662.31	134973.11	0.01	
1944.00	0.030	36.890	1943.96	0.06	0.24	7.22	2102662.22	134973.24	0.01	
2418.00	0.040	76.420	2417.96	0.19	0.38	7.46	2102662.46	134973.38	0.01	
2892.00	0.030	190.750	2891.96	0.11	0.30	7.59	2102662.59	134973.30	0.01	
3366.00	0.070	133.440	3365.96	-0.22	-0.02	7.78	2102662.78	134972.98	0.01	
3840.00	0.000	4.340	3839.96	-0.42	-0.22	7.99	2102662.99	134972.78	0.01	
4016.00	0.000	4.340	4015.96	-0.42	-0.22	7.99	2102662.99	134972.78	0.00	
4061.00	1.610	358.210	4060.96	0.21	0.41	7.97	2102662.97	134973.41	3.58	
4093.00	4.630	359.360	4092.91	1.95	2.15	7.94	2102662.94	134975.15	9.44	
4124.00	7.810	0.090	4123.72	5.31	5.51	7.93	2102662.93	134978.51	10.26	
4155.00	10.070	359.080	4154.34	10.13	10.33	7.89	2102662.89	134983.33	7.31	
4187.00	12.990	357.830	4185.69	16.52	16.72	7.71	2102662.71	134989.72	9.16	
4219.00	16.100	356.520	4216.66	24.55	24.74	7.31	2102662.31	134997.74	9.77	
4250.00	18.250	356.270	4246.28	33.70	33.88	6.73	2102661.73	135006.88	6.94	
4282.00	20.140	356.270	4276.50	44.21	44.38	6.04	2102661.04	135017.38	5.91	
4313.00	21.620	355.140	4305.46	55.25	55.39	5.21	2102660.21	135028.40	4.95	
4345.00	22.870	354.960	4335.08	67.34	67.46	4.17	2102659.17	135040.47	3.91	
4376.00	24.680	355.270	4363.45	79.81	79.91	3.10	2102658.10	135052.92	5.85	
4408.00	26.880	355.140	4392.26	93.70	93.78	1.94	2102656.94	135066.79	6.88	
4439.00	29.710	354.900	4419.55	108.37	108.42	0.66	2102655.66	135081.42	9.14	
4471.00	32.420	356.250	4446.96	124.86	124.88	-0.60	2102654.40	135097.89	8.74	
4480.00†	33.205	356.991	4454.53	129.73	129.75	-0.89	2102654.11	135102.75	9.80	Crossed hardline 4480 MD (4455 TVD) X:2102654 Y:135103 330 FSL 657 FEL.
4503.00	35.230	358.750	4473.55	142.66	142.67	-1.37	2102653.63	135115.68	9.80	
4534.00	36.870	359.330	4498.61	160.90	160.91	-1.67	2102653.33	135133.92	5.40	
4566.00	38.430	359.960	4523.94	180.45	180.46	-1.79	2102653.21	135153.47	5.02	
4597.00	40.900	359.770	4547.81	200.23	200.24	-1.84	2102653.16	135173.25	7.98	
4629.00	43.410	358.940	4571.53	221.70	221.72	-2.08	2102652.92	135194.73	8.03	
4661.00	45.850	357.250	4594.30	244.17	244.18	-2.84	2102652.16	135217.19	8.48	
4693.00	47.860	356.620	4616.18	267.51	267.49	-4.09	2102650.91	135240.51	6.44	
4724.00	50.600	356.110	4636.42	290.97	290.92	-5.58	2102649.42	135263.94	8.93	
4757.00	53.260	355.820	4656.77	316.92	316.83	-7.41	2102647.59	135289.85	8.09	
4788.00	55.450	355.540	4674.83	342.08	341.95	-9.30	2102645.70	135314.97	7.10	
4819.00	57.960	356.500	4691.85	367.96	367.80	-11.10	2102643.90	135340.82	8.50	
4851.00	60.110	357.260	4708.31	395.39	395.20	-12.59	2102642.41	135368.22	7.02	
4884.00	62.220	357.960	4724.23	424.29	424.08	-13.79	2102641.20	135397.10	6.66	
4915.00	65.560	358.730	4737.87	452.12	451.90	-14.60	2102640.40	135424.92	11.00	
4947.00	68.340	359.180	4750.40	481.56	481.34	-15.13	2102639.87	135454.36	8.78	
4978.00	70.730	358.900	4761.24	510.60	510.37	-15.62	2102639.38	135483.40	7.76	





## Actual Wellpath Report

Sandridge Starks 3408 3-35H\_Svy (07-Jun-2013).  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 3-35H SL 200 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 3-35H Actual
Facility	Starks 3408 3-35H Sec. 35-34S-8W		

WELLPATH DATA (100 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
5010.00	73.380	358.330	4771.09	541.04	540.80	-16.36	2102638.64	135513.83	8.45	
5041.00	75.660	357.910	4779.37	570.92	570.66	-17.34	2102637.66	135543.69	7.47	
5074.00	77.400	358.310	4787.05	603.01	602.73	-18.39	2102636.61	135575.77	5.40	
5105.00	79.250	358.270	4793.33	633.36	633.08	-19.30	2102635.70	135606.11	5.97	
5137.00	80.880	358.660	4798.85	664.88	664.59	-20.14	2102634.86	135637.62	5.23	
5168.00	82.680	358.530	4803.28	695.56	695.26	-20.90	2102634.10	135668.29	5.82	
5199.00	83.770	358.450	4806.94	726.35	726.03	-21.71	2102633.29	135699.07	3.53	
5262.00	86.990	358.740	4812.01	789.13	788.80	-23.25	2102631.75	135761.84	5.13	
5307.00	86.980	359.450	4814.38	834.07	833.73	-23.96	2102631.04	135806.77	1.58	
5358.00	86.980	359.880	4817.06	884.99	884.66	-24.25	2102630.74	135857.70	0.84	
5403.00	87.040	0.420	4819.41	929.91	929.60	-24.14	2102630.86	135902.64	1.21	
5452.00	86.920	0.630	4821.99	978.81	978.53	-23.69	2102631.31	135951.58	0.49	
5497.00	86.950	0.370	4824.40	1023.72	1023.46	-23.30	2102631.70	135996.51	0.58	
5546.00	87.140	359.970	4826.93	1072.64	1072.39	-23.15	2102631.85	136045.45	0.90	
5566.00	88.210	0.000	4827.74	1092.62	1092.38	-23.16	2102631.84	136065.43	5.35	
5639.00	91.110	0.460	4828.17	1165.58	1165.37	-22.86	2102632.14	136138.43	4.02	
5731.00	91.020	359.660	4826.46	1257.53	1257.35	-22.77	2102632.23	136230.42	0.87	
5823.00	90.690	359.930	4825.09	1349.50	1349.34	-23.10	2102631.90	136322.41	0.46	
5915.00	91.880	358.780	4823.02	1441.46	1441.31	-24.13	2102630.87	136414.38	1.80	
6006.00	91.780	359.360	4820.12	1532.41	1532.25	-25.61	2102629.39	136505.33	0.65	
6097.00	92.910	357.790	4816.39	1623.33	1623.14	-27.87	2102627.13	136596.22	2.12	
6189.00	92.930	358.150	4811.71	1715.21	1714.96	-31.12	2102623.88	136688.05	0.39	
6281.00	91.610	356.240	4808.06	1807.10	1806.77	-35.62	2102619.38	136779.87	2.52	
6373.00	91.390	356.310	4805.66	1899.00	1898.55	-41.60	2102613.40	136871.65	0.25	
6466.00	91.740	355.680	4803.12	1991.87	1991.29	-48.09	2102606.91	136964.39	0.77	
6559.00	93.310	355.880	4799.02	2084.66	2083.94	-54.93	2102600.07	137057.05	1.70	
6650.00	92.160	356.120	4794.68	2175.47	2174.61	-61.27	2102593.73	137147.73	1.29	
6745.00	90.490	357.630	4792.48	2270.39	2269.44	-66.44	2102588.55	137242.56	2.37	
6839.00	90.980	356.330	4791.27	2364.35	2363.30	-71.39	2102583.60	137336.42	1.48	
6934.00	88.760	356.620	4791.49	2459.28	2458.12	-77.24	2102577.76	137431.24	2.36	
7028.00	88.920	356.400	4793.39	2553.20	2551.92	-82.96	2102572.04	137525.05	0.29	
7123.00	90.280	357.250	4794.06	2648.15	2646.77	-88.22	2102566.78	137619.91	1.69	
7217.00	90.890	357.330	4793.10	2742.12	2740.66	-92.66	2102562.33	137713.80	0.65	
7313.00	90.640	358.570	4791.81	2838.10	2836.59	-96.10	2102558.90	137809.73	1.32	
7407.00	90.000	357.940	4791.29	2932.10	2930.54	-98.96	2102556.04	137903.69	0.96	
7502.00	92.470	358.940	4789.24	3027.07	3025.48	-101.54	2102553.45	137998.63	2.80	
7598.00	92.600	357.900	4784.99	3122.97	3121.34	-104.19	2102550.81	138094.50	1.09	
7693.00	92.840	357.830	4780.49	3217.86	3216.17	-107.72	2102547.27	138189.34	0.26	
7788.00	90.830	358.580	4777.44	3312.80	3311.07	-110.70	2102544.30	138284.24	2.26	
7882.00	91.300	358.800	4775.70	3406.78	3405.03	-112.85	2102542.15	138378.20	0.55	
7977.00	91.670	0.850	4773.24	3501.72	3499.99	-113.14	2102541.86	138473.17	2.19	
8071.00	91.670	0.280	4770.50	3595.63	3593.95	-112.21	2102542.78	138567.13	0.61	
8165.00	93.580	1.790	4766.19	3689.44	3687.83	-110.51	2102544.48	138661.01	2.59	
8260.00	92.850	1.220	4760.86	3784.16	3782.64	-108.02	2102546.97	138755.84	0.97	
8354.00	90.220	359.920	4758.35	3878.06	3876.59	-107.09	2102547.91	138849.79	3.12	





## Actual Wellpath Report

Sandridge Starks 3408 3-35H\_Svy (07-Jun-2013).  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 3-35H SL 200 FSL, 660 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 3-35H Actual
Facility	Starks 3408 3-35H Sec. 35-34S-8W		

WELLPATH DATA (100 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
8447.00	90.280	359.600	4757.94	3971.04	3969.59	-107.48	2102547.52	138942.80	0.35	
8543.00	90.580	359.750	4757.22	4067.02	4065.59	-108.02	2102546.97	139038.80	0.35	
8637.00	90.310	359.040	4756.49	4161.00	4159.58	-109.02	2102545.98	139132.79	0.81	
8732.00	90.150	358.720	4756.11	4256.00	4254.56	-110.87	2102544.12	139227.78	0.38	
8827.00	90.590	358.630	4755.49	4351.00	4349.53	-113.07	2102541.92	139322.75	0.47	
8922.00	92.310	359.690	4753.09	4445.96	4444.49	-114.46	2102540.53	139417.71	2.13	
9016.00	92.980	0.340	4748.75	4539.83	4538.39	-114.44	2102540.56	139511.62	0.99	
9111.00	93.170	359.950	4743.66	4634.66	4633.25	-114.20	2102540.80	139606.49	0.46	
9164.00	92.590	359.230	4740.99	4687.58	4686.18	-114.58	2102540.42	139659.42	1.74	
9207.00	92.590	359.230	4739.05	4730.53	4729.13	-115.15	2102539.84	139702.37	0.00	Actual BHL 9207 MD (4739 TVD) X:2102540 Y:139702 VS:4731 331 FNL 657 FEL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PBHL 330' FNL, 660 FEL		4739.37	4729.76	-117.99	2102537.00	139703.00	37°02'59.310"N	98°08'55.251"W	point

WELLPATH COMPOSITION - Ref Wellbore: Starks 3408 3-35H Actual Ref Wellpath: AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
23.00	765.00	EMS (Standard)	Single Shots	Starks 3408 3-35H Actual
765.00	9164.00	NaviTrak (Standard)	INTEQ MWD	Starks 3408 3-35H Actual
9164.00	9207.00	Blind Drilling (std)	Projection to bit	Starks 3408 3-35H Actual

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/21/2013
Job End Date:	5/23/2013
State:	Kansas
County:	Harper
API Number:	15-077-21925-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Starks 3408 3-35H
Longitude:	-98.14830000
Latitude:	37.03680000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,738
Total Base Water Volume (gal):	1,763,884
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
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent					
			Ethanol	64-17-5	0.00018		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent					
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.00149		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent					

			2-Propenoic acid, ammonium salt	10604-69-0	0.00725		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00674		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00209		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00133		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00788		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Glutaraldehyde	111-30-8	0.00833		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00444		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00314		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00139		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00819		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00592		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00888		
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)*	NA			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.71700		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.31070		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01123		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00444		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.02768		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00104		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02116		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00519		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00024		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02959		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02959		

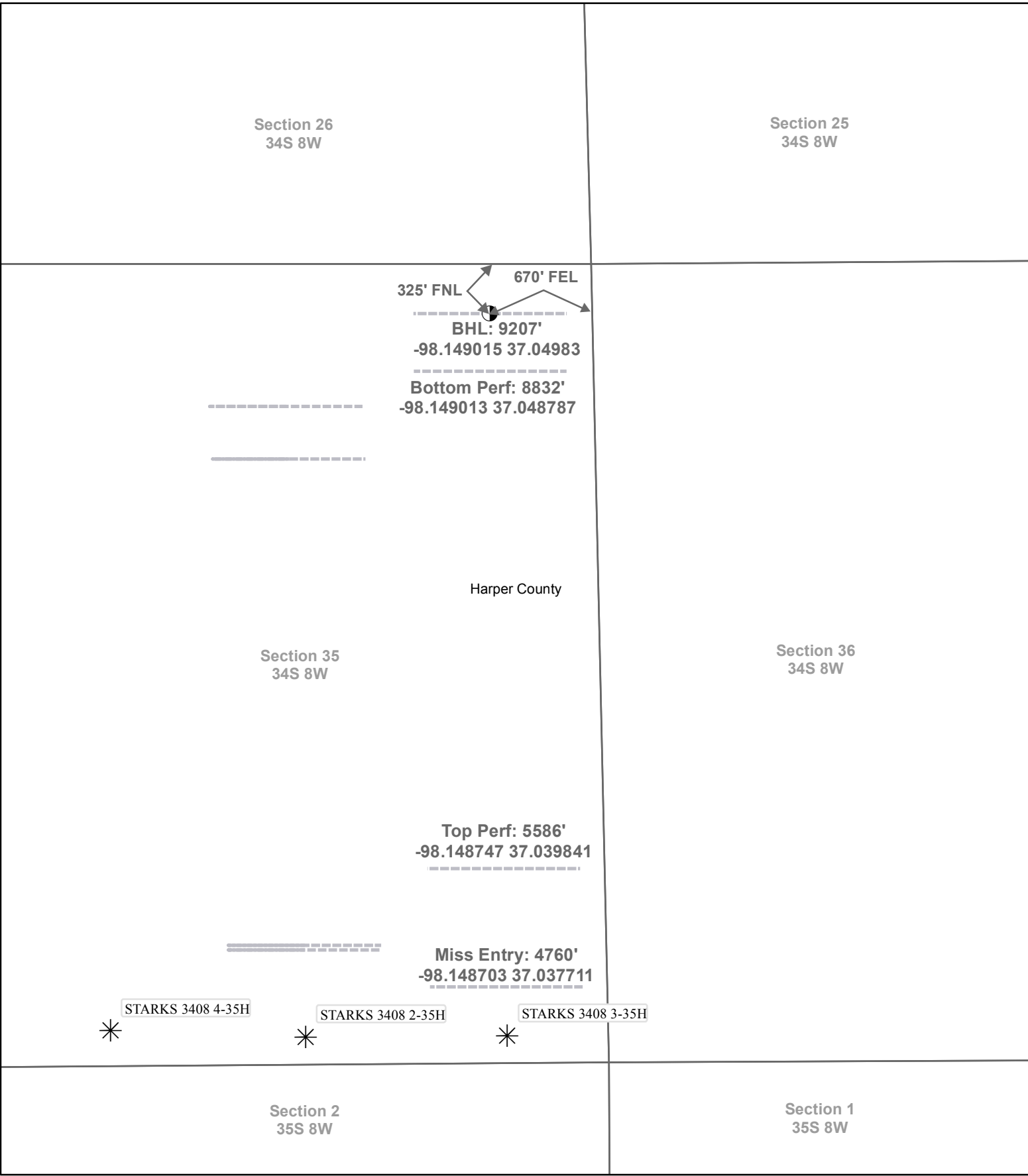
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.23672		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00444		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00769		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.11832		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14795		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.19282		

\* 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)





**SANDRIDGE**  
THE POWER OF US™

**Actual Bottom-Hole Location of Starks 3408 3-35H**  
Harper County, Kansas  
T&R: 34S 8W  
Section: 35, 670' FEL & 325' FNL  
-98.149015 37.04983

1 in = 833 ft

0      600      1,200      2,400 Feet

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

Draftsman: Aaron Birk	Draft Date: 8/7/2013
Drawing Name/Number: Addendum_Starks 3408 3-35H .mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

## Remarks

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Tiffany  
Golay  
07/24/013  
09:52 am

Conductor weight= 90 lbs/ft

Tiffany  
Golay  
07/24/013  
09:50 am

Well was completed using an open hole packer system. No liner was cemented

Tiffany  
Golay  
08/08/013  
06:36 am

Additional Fluid Mgmt Info: 4,880 bbls soil farmed by Texoma Tank Service LLC, 15-29N-9W, Alfalfa, OK, 13-22973