



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1142456
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
-----------------------------------	-----------------	---

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: _____



1142456

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 4-35H
Doc ID	1142456

All Electric Logs Run

Prizm Log
Mud Log
Induction
Nuclear
Boresight

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 4-35H
Doc ID	1142456

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8736-8971	1500 gals 15% HCL, 4189 bbls of Fresh Slickwater, Running TLTR= 4778 bbls	
5	8368-8666	1500 gals 15% HCL, 4137 bbls of Fresh Slickwater, Running TLTR= 9093 bbls	
5	7950-8274	1500 gals 15% HCL, 4176 bbls of Fresh Slickwater, Running TLTR= 13436 bbls	
5	7580-7896	1500 gals 15% HCL, 4200 bbls of Fresh Slickwater, Running TLTR= 17780 bbls	
5	7184-7470	1500 gals 15% HCL, 4213 bbls of Fresh Slickwater, Running TLTR= 22182 bbls	
5	6824-7115	1500 gals 15% HCL, 4113 bbls of Fresh Slickwater, Running TLTR= 26449 bbls	
5	6419-6712	1500 gals 15% HCL, 4963 bbls of Fresh Slickwater, Running TLTR= 31510 bbls	
5	5956-6334	1500 gals 15% HCL, 4210 bbls of Fresh Slickwater, Running TLTR= 35814 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Starks 3408 4-35H
Doc ID	1142456

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5617-5890	1500 gals 15% HCL, 4122 bbls of Fresh Slickwater, Running TLTR= 40009 bbls	
5	5296-5565	1500 gals 15% HCL, 4258 bbls of Fresh Slickwater, Running TLTR= 44288 bbls	
5	5032-5240	1500 gals 15% HCL, 4556 bbls of Fresh Slickwater, Running TLTR= 48880 bbls	

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 28, 2013

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

Re: ACO1
API 15-077-21929-01-00
Starks 3408 4-35H
SW/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

Mid-Continent Conductor, LLC

Invoice

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

Date	Invoice #
5/8/2013	1885

Bill To
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	5/8/2013	Starks 3408 4-35H, 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	Furnished transport truck and water to displace cement down center of conductor
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 12677

Well Name: Starks 4-35H

Code: 850-010

Amount: \$19,340.00

Co. Man: Lewis Maddox

Co. Man Sig: [Signature]

Notes: _____

Subtotal	\$19,340.00
Sales Tax (0.0%)	\$0.00
Total	\$19,340.00

RECEIVED

MAY 16 2013

HALLIBURTON

REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2997786	Quote #:	Sales Order #: 900431920
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: STARKS 3408	Well #: 4-35H	API/UWI #:	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Contractor: Latshaw Drig.	Rig/Platform Name/Num: Latshaw 38		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GUSTKE, GREGORY	Srvc Supervisor: UNDERWOOD, BILLY	MBU ID Emp #: 159068	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FINDLEY, GARED A	5	520137	UNDERWOOD, BILLY Dale	9	159068	VAN DER HORST, DANIEL Scott	7	515877

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10010832C	70 mile	10240239	70 mile	10825967	70 mile	11288856	70 mile
11706678	70 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5-12-13	1	0	5-13-13	6	1			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	12 - May - 2013	06:30	CST
Form Type			BHST	On Location	12 - May - 2013	21:00	CST
Job depth MD	800. ft		Job Depth TVD	800. ft	Job Started	13 - May - 2013	04:00
Water Depth			Wk Ht Above Floor		Job Completed	13 - May - 2013	04:55
Perforation Depth (MD)	From		To		Departed Loc	13 - May - 2013	05:50

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			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
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 ³ /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 lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

HALLIBURTON

Cementing Job Summary

Stage/Plug #: 1									
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	HLC STANDARD	EXTENDACEM (TM) SYSTEM (452981)	175.0	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		58.00	bbl	8.33	.0	.0	.0	
Calculated Values			Pressures			Volumes			
Displacement	58	Shut In: Instant		Lost Returns		Cement Slurry	66/42	Pad	
Top Of Cement		5 Min		Cement Returns	50	Actual Displacement	58	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	176
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
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>Levi Maddox</i>					

RECEIVED

MAY 21 2013

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

REGULATORY DEPT
SANDRIDGE ENERGY

Sold To #: 305021	Ship To #: 2997786	Quote #:	Sales Order #: 900439500
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Melland, Carl	
Well Name: Starks 3408	Well #: 4-35H	API/UWI #:	
Field:	City (SAP): WALDRON	County/Parish: Harper	State: Kansas
Legal Description: Section 16 Township 33S Range 6W			
Contractor: LATSHAW		Rig/Platform Name/Num: 38	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: PENN, BRIAN	MBU ID Emp #: 512150

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, EDWARD Jay	9	510301	MARTIN, GREGORY Franklin	3	394376	PENN, BRIAN A	9	512150

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
5/17/13	9	3						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Called Out	Date	Time	Time Zone
			On Location	17 - May - 2013	07:40	CST
Form Type		BHST	Job Started	17 - May - 2013	14:17	CST
Job depth MD	5544. m	Job Depth TVD	Job Completed	17 - May - 2013	15:20	CST
Water Depth		Wk Ht Above Floor	Departed Loc	17 - May - 2013	16:30	CST
Perforation Depth (MD) From		To				

Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
8.75" Open Hole				8.75				800.	5547.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110		5547.		
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	7	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	7	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									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne

1	Rig Supplied Gel Water		30.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD (w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	100.0	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)	200.0	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		196.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	196	Shut In: Instant		Lost Returns	0	Cement Slurry	68	Pad	
Top Of Cement	3495	5 Min		Cement Returns	0	Actual Displacement	195	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	93 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>Leus Maddox</i>					

Sandridge Energy

Starks 3408 4-35H SL 250, 2030 FWL (Final)

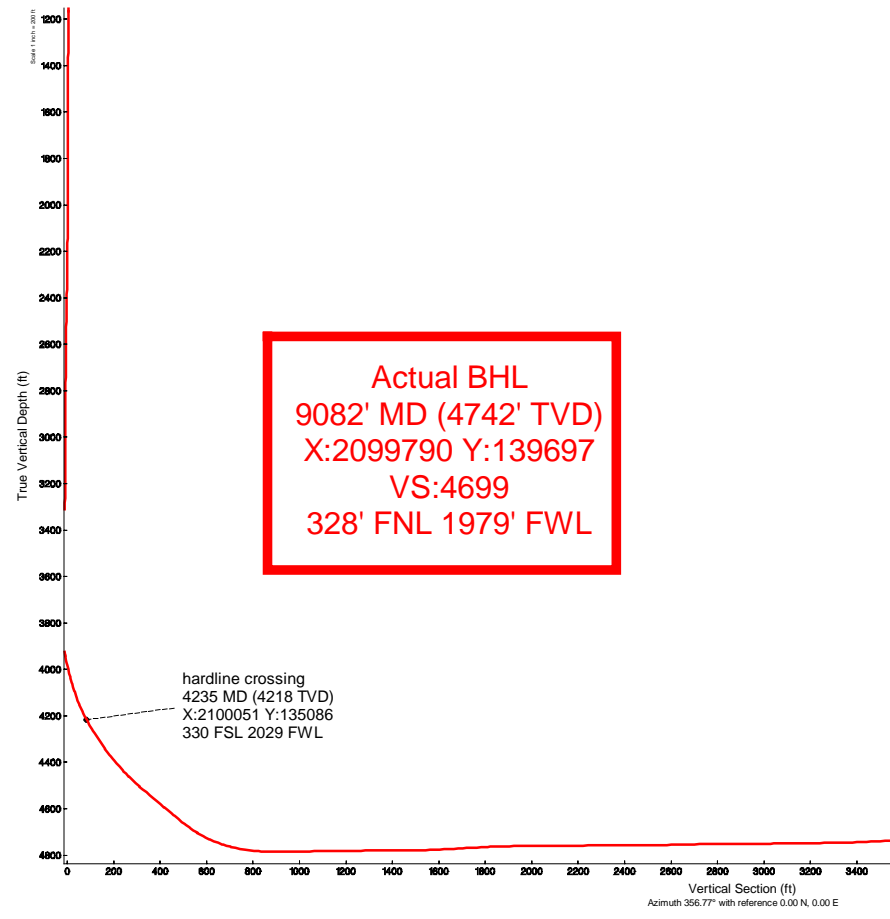
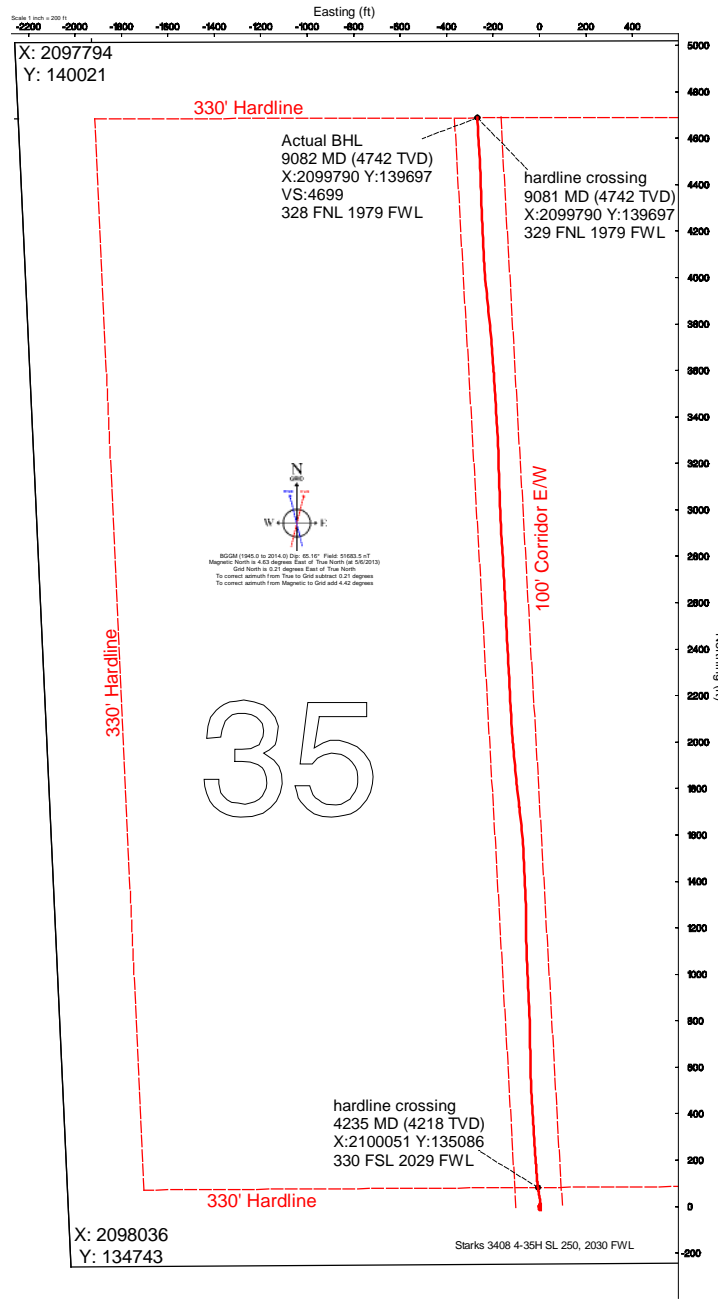
Starks 3408 4-35H SL 250, 2030 FWL

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: 1297 feet		Depths are in feet	
Mean Sea Level to Mud line (At Slot: Starks 3408 4-35H SL 250, 2030 FWL): -1274 feet		Created by: broomari on 5/9/2013	
Coordinates are in feet referenced to Slot			

Location Information

Facility Name				Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Starks 3408 4-35H Sec. 35-34S-8W				2100056.000	135006.000	37°02'12.962"N	98°09'26.066"W
Slot	Local N (ft)	Local E (ft)		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Starks 3408 4-35H SL 250, 2030 FWL	0.00	0.00		2100056.000	135006.000	37°02'12.962"N	98°09'26.066"W
Latshaw 38 (KB) to Mud line (At Slot: Starks 3408 4-35H SL 250, 2030 FWL)						23ft	
Mean Sea Level to Mud line (At Slot: Starks 3408 4-35H SL 250, 2030 FWL)						-1274ft	
Latshaw 38 (KB) to Mean Sea Level						1297ft	





Actual Wellpath Report

Sandridge Starks 3408 4-35H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 4-35H SL 250, 2030 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 4-35H SL 250, 2030 FWL Actual
Facility	Starks 3408 4-35H 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	Adammic
Scale	1.00005	Report Generated	11/Jun/2013 at 2:51:53 PM
Wellbore last revised	05-06-2013	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	2100056.00	135006.00	37°02'12.962"N	98°09'26.066"W
Facility Reference Pt			2100056.00	135006.00	37°02'12.962"N	98°09'26.066"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	1297.00ft
Vertical Reference Pt	Latshaw 38 (KB)	Latshaw 38 (KB) to Mud Line at Slot (Starks 3408 4-35H SL 250, 2030 FWL)	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	356.77°



Actual Wellpath Report

Sandridge Starks 3408 4-35H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 4-35H SL 250, 2030 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 4-35H SL 250, 2030 FWL Actual
Facility	Starks 3408 4-35H Sec. 35-34S-8W		

WELLPATH DATA (96 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	333.160	0.00	0.00	0.00	0.00	2100056.00	135006.00	0.00	
23.00	0.000	333.160	23.00	0.00	0.00	0.00	2100056.00	135006.00	0.00	
237.00	0.570	333.160	237.00	0.98	0.95	-0.48	2100055.52	135006.95	0.27	
519.00	0.630	333.160	518.98	3.68	3.58	-1.81	2100054.19	135009.58	0.02	
789.00	0.090	333.160	788.97	5.24	5.10	-2.58	2100053.42	135011.10	0.20	
857.00	0.670	333.160	856.97	5.65	5.50	-2.78	2100053.22	135011.50	0.85	
1015.00	1.170	132.060	1014.96	5.35	5.24	-2.00	2100054.00	135011.24	1.15	
1475.00	0.680	222.380	1474.92	0.10	0.08	-0.36	2100055.64	135006.08	0.29	
1951.00	0.310	48.400	1950.91	-1.07	-1.15	-1.30	2100054.70	135004.85	0.21	
2426.00	1.220	176.630	2425.88	-5.33	-5.34	-0.04	2100055.96	135000.65	0.30	
2900.00	0.030	310.400	2899.85	-10.29	-10.30	0.16	2100056.16	134995.70	0.26	
3374.00	1.200	138.400	3373.81	-14.10	-13.93	3.36	2100059.36	134992.07	0.26	
3818.00	0.290	138.820	3817.77	-18.63	-18.26	7.19	2100063.19	134987.74	0.20	
3848.00	0.470	35.110	3847.77	-18.60	-18.21	7.31	2100063.31	134987.79	2.03	
3880.00	3.030	0.610	3879.75	-17.65	-17.26	7.40	2100063.40	134988.74	8.30	
3911.00	6.420	358.530	3910.64	-15.10	-14.71	7.36	2100063.36	134991.29	10.95	
3943.00	9.380	358.150	3942.33	-10.70	-10.31	7.23	2100063.23	134995.69	9.25	
3974.00	11.730	357.210	3972.81	-5.02	-4.64	7.00	2100063.00	135001.36	7.60	
4006.00	13.610	356.320	4004.03	1.99	2.37	6.60	2100062.60	135008.37	5.91	
4037.00	15.650	353.520	4034.02	9.82	10.16	5.89	2100061.89	135016.17	6.96	
4069.00	16.670	352.000	4064.76	18.70	19.00	4.76	2100060.76	135025.00	3.45	
4101.00	18.100	351.430	4095.29	28.22	28.46	3.38	2100059.38	135034.46	4.50	
4132.00	19.820	351.140	4124.61	38.25	38.41	1.86	2100057.86	135044.42	5.56	
4164.00	22.140	350.950	4154.49	49.65	49.73	0.07	2100056.07	135055.73	7.25	
4195.00	25.480	350.970	4182.84	62.10	62.09	-1.89	2100054.11	135068.09	10.77	
4227.00	28.150	351.520	4211.40	76.46	76.36	-4.09	2100051.91	135082.36	8.38	
4235.00†	28.793	351.944	4218.43	80.26	80.13	-4.64	2100051.36	135086.13	8.43	hardline crossing 4235 MD (4218 TVD) X:2100051 Y:135086 330 FSL 2029 FWL
4259.00	30.730	353.120	4239.27	92.14	91.94	-6.18	2100049.82	135097.95	8.43	
4290.00	32.210	354.160	4265.71	108.30	108.02	-7.97	2100048.03	135114.03	5.09	
4322.00	33.080	354.880	4292.65	125.55	125.21	-9.62	2100046.38	135131.21	2.98	
4353.00	34.320	355.970	4318.44	142.75	142.35	-10.99	2100045.01	135148.36	4.45	
4385.00	36.050	356.320	4344.59	161.18	160.75	-12.22	2100043.77	135166.76	5.44	
4416.00	37.580	356.160	4369.41	179.76	179.28	-13.44	2100042.56	135185.29	4.95	
4447.00	39.700	355.690	4393.62	199.11	198.59	-14.82	2100041.18	135204.60	6.90	
4479.00	41.580	355.590	4417.91	219.95	219.37	-16.41	2100039.59	135225.38	5.88	
4510.00	43.330	355.920	4440.78	240.87	240.24	-17.95	2100038.05	135246.25	5.69	
4542.00	45.370	356.110	4463.66	263.24	262.55	-19.51	2100036.49	135268.57	6.39	
4574.00	46.960	356.560	4485.82	286.32	285.59	-20.98	2100035.02	135291.60	5.07	
4606.00	48.210	356.380	4507.40	309.94	309.17	-22.44	2100033.56	135315.18	3.93	
4651.00	50.180	357.060	4536.81	344.00	343.17	-24.38	2100031.62	135349.19	4.52	
4701.00	50.210	356.550	4568.82	382.41	381.52	-26.52	2100029.48	135387.54	0.79	
4746.00	50.230	356.390	4597.61	416.99	416.04	-28.65	2100027.35	135422.06	0.28	
4796.00	50.540	356.610	4629.49	455.51	454.49	-31.00	2100025.00	135460.51	0.71	
4860.00	51.930	357.260	4669.56	505.41	504.31	-33.67	2100022.33	135510.34	2.31	
4891.00	54.710	357.750	4688.08	530.27	529.15	-34.75	2100021.25	135535.18	9.06	



Actual Wellpath Report

Sandridge Starks 3408 4-35H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 4-35H SL 250, 2030 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 4-35H SL 250, 2030 FWL Actual
Facility	Starks 3408 4-35H Sec. 35-34S-8W		

WELLPATH DATA (96 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
4922.00	58.240	358.060	4705.20	556.10	554.97	-35.69	2100020.31	135561.00	11.42	
4955.00	62.240	358.640	4721.57	584.73	583.60	-36.51	2100019.48	135589.63	12.22	
4986.00	65.430	358.770	4735.24	612.54	611.41	-37.14	2100018.86	135617.45	10.30	
5049.00	72.450	359.030	4757.87	671.25	670.16	-38.27	2100017.73	135676.19	11.15	
5080.00	75.940	359.210	4766.31	701.05	699.98	-38.72	2100017.27	135706.01	11.27	
5144.00	81.280	358.780	4778.94	763.72	762.69	-39.83	2100016.17	135768.72	8.37	
5214.00	86.610	357.980	4786.33	833.27	832.24	-41.80	2100014.20	135838.28	7.70	
5273.00	90.490	356.530	4787.82	892.24	891.14	-44.62	2100011.38	135897.19	7.02	
5365.00	90.990	357.660	4786.63	984.23	983.01	-49.28	2100006.71	135989.06	1.34	
5456.00	90.250	357.580	4785.65	1075.21	1073.93	-53.06	2100002.94	136079.98	0.82	
5549.00	90.620	358.910	4784.94	1168.18	1166.88	-55.91	2100000.09	136172.94	1.48	
5641.00	91.320	359.850	4783.38	1260.07	1258.86	-56.91	2099999.09	136264.93	1.27	
5733.00	90.340	357.150	4782.05	1352.01	1350.81	-59.31	2099996.68	136356.88	3.12	
5825.00	89.780	357.790	4781.95	1444.00	1442.72	-63.37	2099992.62	136448.79	0.92	
5917.00	92.030	356.510	4780.50	1535.98	1534.59	-67.95	2099988.05	136540.67	2.81	
6008.00	92.900	354.150	4776.58	1626.86	1625.19	-75.35	2099980.65	136631.28	2.76	
6100.00	93.050	353.700	4771.81	1718.62	1716.55	-85.07	2099970.92	136722.64	0.51	
6192.00	93.120	353.600	4766.86	1810.35	1807.86	-95.23	2099960.76	136813.95	0.13	
6284.00	90.740	355.110	4763.76	1902.21	1899.35	-104.28	2099951.72	136905.45	3.06	
6377.00	90.370	354.880	4762.86	1995.16	1991.99	-112.39	2099943.61	136998.09	0.47	
6469.00	89.600	356.770	4762.88	2087.14	2083.74	-119.09	2099936.91	137089.85	2.22	
6562.00	91.390	357.150	4762.08	2180.13	2176.60	-124.02	2099931.98	137182.71	1.97	
6654.00	90.900	356.770	4760.24	2272.11	2268.45	-128.90	2099927.10	137274.57	0.67	
6749.00	90.340	357.160	4759.21	2367.11	2363.32	-133.93	2099922.07	137369.44	0.72	
6843.00	89.660	356.870	4759.21	2461.11	2457.19	-138.82	2099917.17	137463.31	0.79	
6938.00	91.040	357.510	4758.63	2556.10	2552.07	-143.48	2099912.52	137558.20	1.60	
7033.00	91.230	356.630	4756.75	2651.08	2646.92	-148.33	2099907.66	137653.06	0.95	
7127.00	91.020	357.130	4754.91	2745.06	2740.77	-153.45	2099902.54	137746.91	0.58	
7222.00	90.490	356.400	4753.65	2840.05	2835.61	-158.81	2099897.18	137841.75	0.95	
7316.00	89.720	356.670	4753.48	2934.05	2929.43	-164.49	2099891.50	137935.58	0.87	
7411.00	91.260	358.100	4752.67	3029.03	3024.33	-168.82	2099887.17	138030.48	2.21	
7505.00	90.800	357.840	4750.98	3123.00	3118.25	-172.15	2099883.84	138124.41	0.56	
7600.00	90.280	359.060	4750.08	3217.95	3213.21	-174.72	2099881.27	138219.37	1.40	
7694.00	91.020	356.860	4749.02	3311.92	3307.14	-178.07	2099877.92	138313.31	2.47	
7788.00	92.160	356.150	4746.41	3405.88	3400.92	-183.80	2099872.20	138407.10	1.43	
7883.00	93.270	357.020	4741.91	3500.77	3495.65	-189.45	2099866.54	138501.83	1.48	
7978.00	90.830	355.570	4738.51	3595.69	3590.38	-195.58	2099860.41	138596.56	2.99	
8073.00	90.180	355.930	4737.67	3690.67	3685.11	-202.62	2099853.37	138691.30	0.78	
8167.00	88.800	354.370	4738.51	3784.63	3778.77	-210.57	2099845.42	138784.96	2.22	
8262.00	88.280	354.260	4740.93	3879.51	3873.27	-219.98	2099836.01	138879.47	0.56	
8357.00	88.550	354.570	4743.56	3974.39	3967.78	-229.22	2099826.77	138973.98	0.43	
8452.00	88.280	356.520	4746.19	4069.33	4062.45	-236.60	2099819.39	139068.66	2.07	
8546.00	90.860	357.360	4746.89	4163.32	4156.31	-241.61	2099814.38	139162.52	2.89	
8641.00	90.090	357.720	4746.11	4258.31	4251.22	-245.69	2099810.30	139257.43	0.89	
8736.00	90.770	357.790	4745.39	4353.29	4346.14	-249.41	2099806.58	139352.36	0.72	



Actual Wellpath Report

Sandridge Starks 3408 4-35H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Starks 3408 4-35H SL 250, 2030 FWL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Starks 3408 4-35H SL 250, 2030 FWL Actual
Facility	Starks 3408 4-35H Sec. 35-34S-8W		

WELLPATH DATA (96 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
8831.00	92.160	357.840	4742.96	4448.24	4441.04	-253.03	2099802.96	139447.26	1.46	
8925.00	89.540	356.640	4741.57	4542.22	4534.91	-257.56	2099798.43	139541.14	3.07	
9020.00	89.850	356.980	4742.07	4637.21	4629.76	-262.84	2099793.14	139636.00	0.48	
9033.00	90.090	356.640	4742.08	4650.21	4642.74	-263.57	2099792.42	139648.98	3.20	
9081.00†	90.090	356.640	4742.01	4698.21	4690.66	-266.38	2099789.61	139696.90	0.00	hardline crossing 9081 MD (4742 TVD) X:2099790 Y:139697 329 FNL 1979 FWL
9082.00	90.090	356.640	4742.00	4699.21	4691.66	-266.44	2099789.55	139697.90	0.00	Actual BHL 9082 MD (4742 TVD) X:2099790 Y:139697 VS:4699 328 FNL 1979 FWL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PBHL 330' FNL, 1980 FWL		4734.40	4690.76	-264.99	2099791.00	139697.00	37°02'59.351"N	98°09'29.122"W	point

WELLPATH COMPOSITION - Ref Wellbore: Starks 3408 4-35H SL 250, 2030 FWL Actual Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
23.00	3374.00	EMS (Standard)	RIG Surveys	Starks 3408 4-35H SL 250, 2030 FWL Actual
3374.00	9033.00	NaviTrak (Standard)	Inteq MWD	Starks 3408 4-35H SL 250, 2030 FWL Actual
9033.00	9082.00	Blind Drilling (std)	Projection to bit	Starks 3408 4-35H SL 250, 2030 FWL Actual

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/20/2013
Job End Date:	6/22/2013
State:	Kansas
County:	Harper
API Number:	15-077-21929-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Starks 3408 4-35H
Longitude:	-98.15720000
Latitude:	37.03690000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,742
Total Base Water Volume (gal):	1,990,706
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, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant, Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00332		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant, Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.20783		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant, Acid, Iron Control Agent, Propping Agent					

			Polyethylene glycol monohexyl ether	31726-34-8	0.12196		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00390		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00390		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00866		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00221		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00675		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.78753		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00535		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Trisodium ortho phosphate	7601-54-9	0.03053		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02612		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00520		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Guar gum	9000-30-0	0.01044		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01179		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00869		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00779		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			2-propenamid	79-06-1	0.00117		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00024		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00147		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00636		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00713		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02598		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.28376		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Bis(hydrogenated tallow alkyl) dimethylammonium bentonite	68953-58-2	0.00044		

HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.18894		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.12989		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00390		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02598		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00107		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-13, ethoxylated	66455-14-9	0.00011		

* 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)

Section 27
34S 8W

Section 26
34S 8W

1979' FWL

329' FNL

BHL: 9082'
-98.158439 37.049846

Bottom Perf: 8736'
-98.158385 37.048897

Harper County

Section 35
34S 8W

Section 34
34S 8W

Top Perf: 5032'
-98.157708 37.0388

Miss Entry: 5000'
-98.157708 37.0388

STARKS 1-35H

STARKS 3408 4-35H

STARKS 3408 2-35H

STARKS 3408 3-35H

Section 3
35S 8W

Section 2
35S 8W



Actual Bottom-Hole Location of Starks 3408 4-35H
Harper County, Kansas

T&R: 34S 8W
Section: 35, 1979' FWL & 329' FNL
-98.158439 37.049846

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Aaron Birk

Draft Date: 8/29/2013

Drawing Name/Number:

Addendum_Starks 3408 4-35H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany
Golay
08/13/013
07:14 am

Well was completed using an open hole packer system; no liner was cemented

Tiffany
Golay
08/30/013
08:59 am

Additional Fluid Mgmt Info: 3920 bbls soil farmed by Texoma Tank Service LLC, 34-28N-8W, Grant, OK, 13-23214