



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1077159  
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: \_\_\_\_\_

1077159

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> _____
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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	Sarah 1-34H
Doc ID	1077159

All Electric Logs Run

Dolomite Density
Induction
Density
WellSight Log Viewer

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sarah 1-34H
Doc ID	1077159

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9232-9640	5432 bbls water, 36 bbls acid, 100M lbs sd. 5468 TLTR	
5	8670-9116	5341 bbls water, 36 bbls acid, 100M lbs sd, 11017 TLTR	
5	8168-8540	5204 bbls water, 36 bbls acid, 100M lbs sd, 16369 TLTR	
5	7656-8076	5255 bbls water, 36 bbls acid, 99M lbs sd, 21762 TLTR	
5	6978-7424	5180 bbls water, 36 bbls acid, 100M lbs sd, 27050 TLTR	
5	6424-6869	5205 bbls water, 36 bbls acid, 100M lbs sd, 32339 TLTR	
5	5870-6316	5229 bbls water, 36 bbls acid, 100M lbs sd, 37638 TLTR	
5	5316-5761	5163 bbls water, 36 bbls acid, 101m lbs sd, 42855 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sarah 1-34H
Doc ID	1077159

### 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	24	20	75	92	Mid-Continent Conductor 8 sack grout	10	none
Surface	12.25	9.63	36	800	Halliburton Liget Standard/Standard	440	3% Calcium Chloride (2% Standard) .25 lbm Poly-E-Flake (.125 Standard)
Intermediate	8.75	7	26	5604	Poz Standard 50/50, Premium	265	.4% Halad(R)-9, 2lbm Kol-Seal, 2% Bentonite (50/50); 94 lbm CMT Premium, .04% Halad(R)-9

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Sarah 1-34H
Doc ID	1077159

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Liner	6.13	4.5	11.6	9804	50/50 Poz Standard w/ 2% extra gel	460	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

March 23, 2012

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

Re: ACO1  
API 15-033-21622-01-00  
Sarah 1-34H  
NW/4 Sec.34-33S-17W  
Comanche 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

P.O. Box 1570  
Woodward, OK 73802

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

## Invoice

Date	Invoice #
2/27/2012	1231

<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
Jason Harrison	Net 60	2/27/2012	Sarah 1-34H, Comanche Cnty, KS	Lariat 3

Item	Quantity	Description	
Conductor Hole	92	Drilled 92 ft. conductor hole -- hit water at 30 ft.	
20" Pipe	92	Furnished 92 ft. of 20 inch conductor pipe	
Mouse Hole	80	Drilled 80 ft. mouse hole	
16" Pipe	80	Furnished 80 ft. of 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	
Grout Pump	1	Furnished grout pump	
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	
			<b>Subtotal</b> \$22,744.00
			<b>Sales Tax (0.0%)</b> \$0.00
			<b>Total</b> \$22,744.00



The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2914088	Quote #:	Sales Order #: 9346507
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: McCullary, Tyler	
Well Name: Sarah	Well #: 1-34H	API/UWI #:	
Field:	City (SAP): COLDWATER	County/Parish: Comanche	State: Kansas
Legal Description: Section 6 Township 32S Range 19W			
Contractor: Lariat		Rig/Platform Name/Num: LARIAT 3	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: WADE, STEPHEN	MBU ID Emp #: 490458

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	14	267804	LUONG, JOHN M	14	497077	THOMPSON, RAYLAND Heath	15	476826
WADE, STEPHEN Bruce	15	490458						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10243558	60 mile	10924982	60 mile	11133700	60 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3/10/2012	8.5		3/11/2012	4				

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD) From	To	Date	Time	Time Zone
			BHST	790. ft				10 - Mar - 2012	09:30	CST
					Wk Ht Above Floor			10 - Mar - 2012	13:30	CST
					4. ft			11 - Mar - 2012	01:40	CST
								11 - Mar - 2012	02:33	CST
								11 - Mar - 2012	03:45	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
Surface Open Hole				12.25				.	800.		
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			
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 Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
Fluid #	Stage Type							

# HALLIBURTON

## Cementing Job Summary

1	Pre-flush		10.00	bbbl	.	.0	.0	.0	
2	halliburton light standard	EXTENDACEM (TM) SYSTEM (452981)	340.0	sacks	12.4	2.12	11.68		11.68
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.676 Gal	FRESH WATER							
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	100.0	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							
Calculated Values		Pressures		Volumes					
Displacement	58	Shut In: Instant		Lost Returns	0	Cement Slurry	149	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	65	Actual Displacement	58	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	44.04 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					



The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2914088	Quote #:	Sales Order #: 9366818
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: McCullary, Tyler	
Well Name: Sarah	Well #: 1-34H	API/UWI #:	
Field:	City (SAP): COLDWATER	County/Parish: Comanche	State: Kansas
Legal Description: Section 6 Township 32S Range 19W			
Contractor: Lariat		Rig/Platform Name/Num: LARIAT 3	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: DURAN, EDUR	MBU ID Emp #: 445769

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DURAN, EDUR	18	445769	KIRKLAND, LARRY Don	18	286162	LOPEZ, CRISTIAN Adrian	18	488085

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10713204	60 mile	10724589	60 mile	10872308	60 mile	11256865	60 mile
11288858	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/17/2012	8	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 - Mar - 2012	03:30	CST
Form Type		BHST		On Location	17 - Mar - 2012	11:00	CST
Job depth MD	5603. ft	Job Depth TVD	5603. ft	Job Started	17 - Mar - 2012	00:00	CST
Water Depth		Wk Ht Above Floor	2. ft	Job Completed	17 - Mar - 2012	02:00	CST
Perforation Depth (MD)	From	To		Departed Loc	17 - Mar - 2012	00:00	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
Intermediate Open Hole				8.75				800.	5604.	800.	5600
Intermediate Casing 1	Unknown		7.	6.184	26.	LTC	P-110	.	5604.	.	5603.

### 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 <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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		10.00	bbl	8.33	.0	.0	.0	
2	POZ STANDARD 50/50	ECONOCEM (TM) SYSTEM (452992)	165.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.356 Gal	FRESH WATER							
3	PREMIUM	CMT - PREMIUM CEMENT (100003687)	100.0	sacks	15.6	1.18	5.22		5.22
	94 lbm	CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)							
	0.04 %	HALAD(R)-9, 50 LB (100001617)							
	5.222 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	211	Shut In: Instant		Lost Returns	0	Cement Slurry	46	Pad	
Top Of Cement	2961	5 Min		Cement Returns	1	Actual Displacement	211	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
Rates									
Circulating	7	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	88.06	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					



The Road to Excellence Starts with Safety

Sold To #: 305021		Ship To #: 2914088		Quote #:		Sales Order #: 9376743	
Customer: SANDRIDGE ENERGY INC EBUSINESS				Customer Rep: McCullary, Tyler			
Well Name: Sarah			Well #: 1-34H		API/UWI #:		
Field:		City (SAP): COLDWATER		County/Parish: Comanche		State: Kansas	
Legal Description: Section 6 Township 32S Range 19W							
Contractor: Lariat			Rig/Platform Name/Num: 3				
Job Purpose: Cement Production Liner							
Well Type: Development Well				Job Type: Cement Production Liner			
Sales Person: NGUYEN, VINH			Srcv Supervisor: GILREATH, JAMES		MBU ID Emp #: 493907		

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, TROY Robert	19.5	498798	GILREATH, JAMES P	19.5	493907	NEAL, MICHAEL Edward	19.5	483780

### 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

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
					22 - Mar - 2012	21:00	CST
Form Type			BHST	On Location	23 - Mar - 2012	03:00	CST
Job depth MD	9752. ft		Job Depth TVD	Job Started	23 - Mar - 2012	18:55	CST
Water Depth			Wk Ht Above Floor	Job Completed	23 - Mar - 2012	20:15	CST
Perforation Depth (MD)	From		To	Departed Loc	23 - Mar - 2012	22:30	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
Production Liner Open Hole				6.125				5604.	9804.	5310.	5310.
Intermediate Casing 1	Unknown		7.	6.184	26.	LTC	P-110	.	5604.	.	4936.
Production Liner	Unknown		4.5	4.	11.6	LTC	P-110	5200.	9804.	4396.	4396.

### 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 <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 lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Caustic Water Spacer		10.00	bbl	8.5	.0	.0	.0	
2	50/50 POZ STANDARD ( w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	460.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.356 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	119	Shut In: Instant		Lost Returns		Cement Slurry	126	Pad	
Top Of Cement	4480	5 Min		Cement Returns	0	Actual Displacement	119	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	92.55 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

Sarah 1-34H - Final

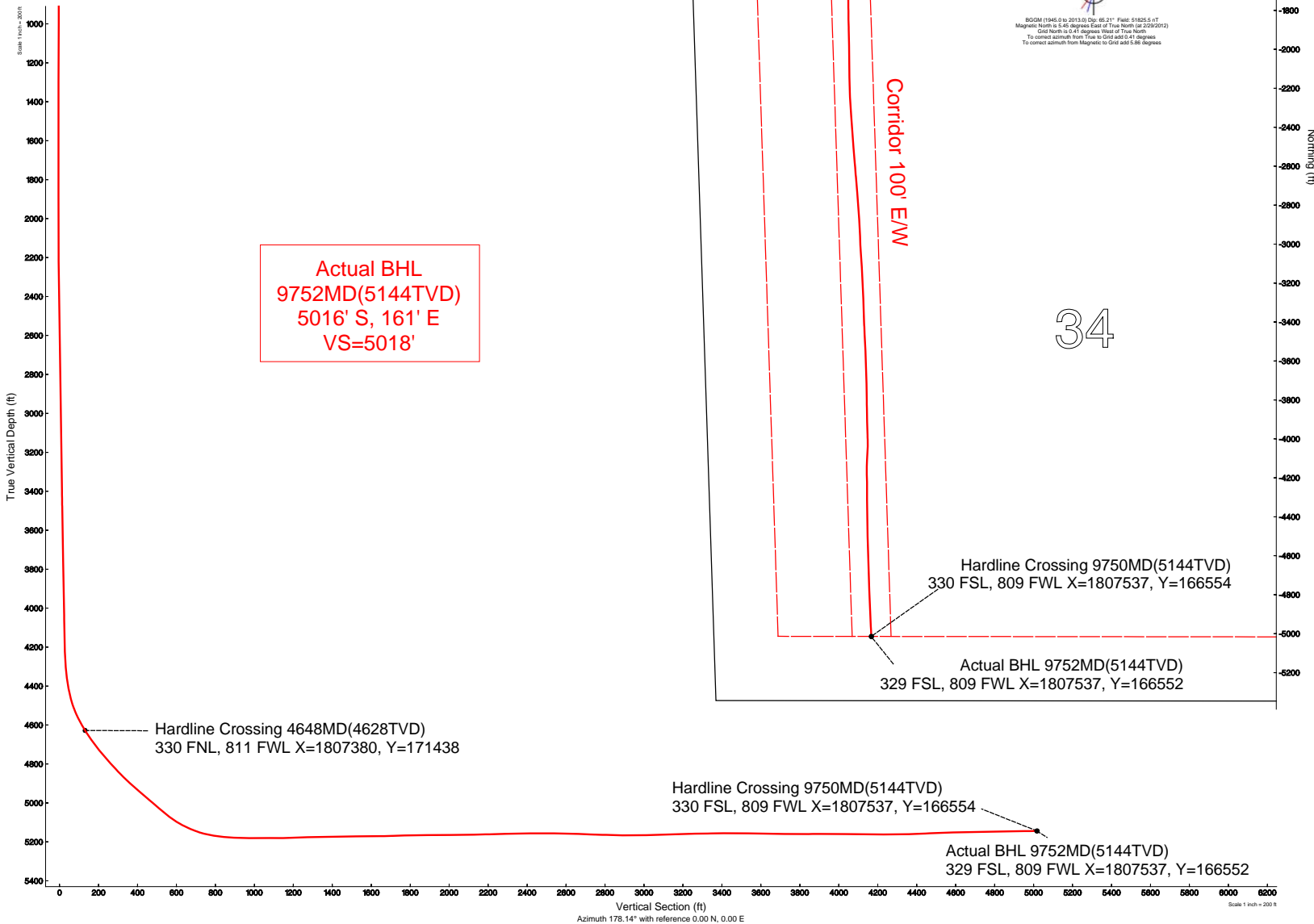
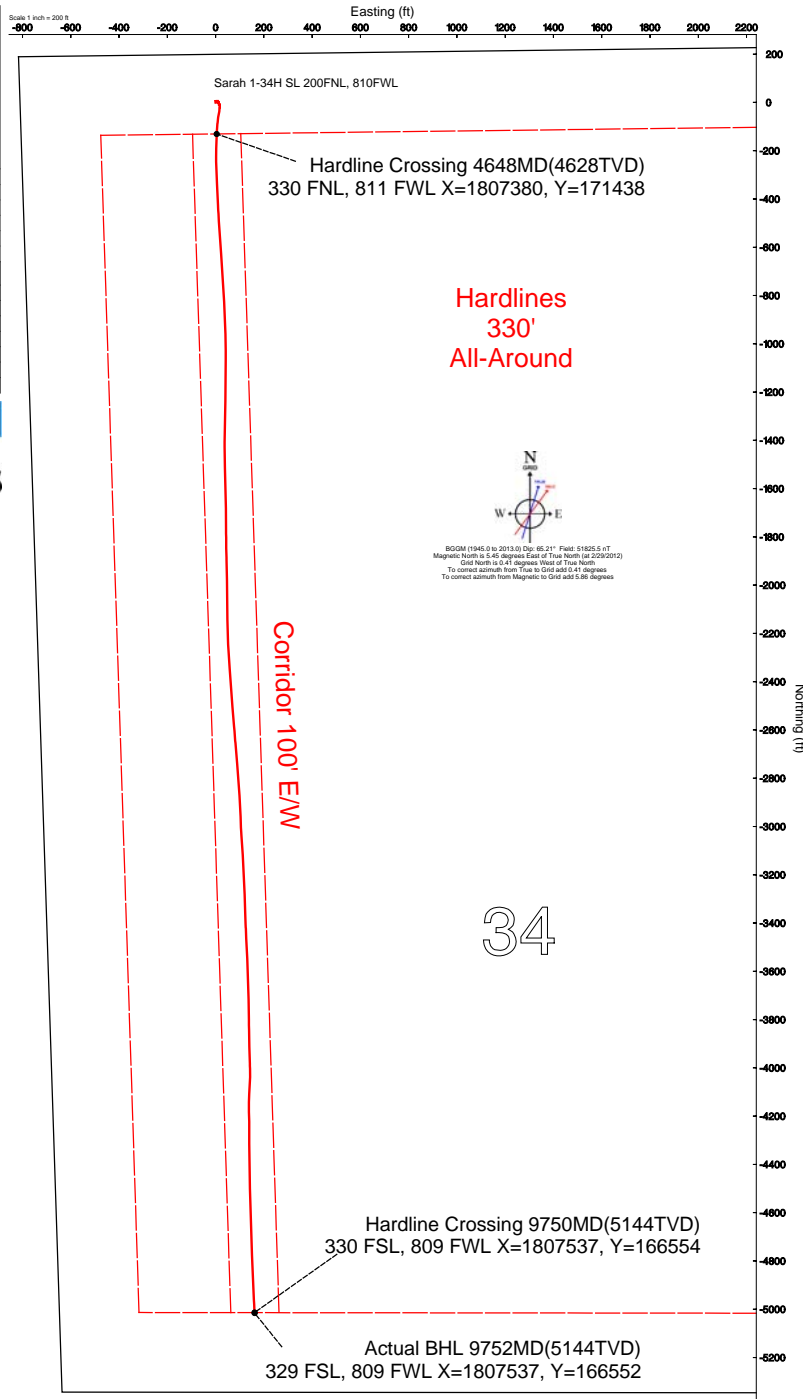
Sarah 1-34H SL 200FNL, 810FWL

Comanche County, Kansas (Sandridge Energy) NAD27 / Grid

Plot reference wellpath is Plan 1	
True vertical depths are referenced to Lariat 3 (RKB)	Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
Measured depths are referenced to Lariat 3 (RKB)	North Reference: Grid north
Lariat 3 (RKB) to Mean Sea Level: 1849 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Sarah 1-34H SL 200FNL, 810FWL): -1831 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: dehamard on 3/1/2012

### Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Sarah 1-34H Sec.34-33S-17W	1807376.000	171569.000	37°08'09.534"N	99°09'38.690"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Sarah 1-34H SL 200FNL, 810FWL	0.00	0.00	1807376.000	171569.000
Lariat 3 (RKB) to Mud line (At Slot: Sarah 1-34H SL 200FNL, 810FWL)			18ft	
Mean Sea Level to Mud line (At Slot: Sarah 1-34H SL 200FNL, 810FWL)			-1831ft	
Lariat 3 (RKB) to Mean Sea Level			1849ft	



# Actual Wellpath Report

Sandridge Sarah 1-34H\_Final Surveys.

Page 1 of 4

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Sarah 1-34H SL 200FNL, 810FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Sarah 1-34H AWB
Facility	Sarah 1-34H Sec.34-33S-17W		

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	0.41° West	User	Dehamard
Scale	1.00003	Report Generated	3/26/2012 at 3:59:32 PM
Wellbore last revised	02-29-2012	Database/Source file	Oklahoma City

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	1807376.00	171569.00	37°08'09.534"N	99°09'38.690"W
Facility Reference Pt			1807376.00	171569.00	37°08'09.534"N	99°09'38.690"W
Field Reference Pt			1773194.47	191302.75	37°11'22.030"N	99°16'42.810"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Lariat 3 (RKB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Lariat 3 (RKB) to Mean Sea Level	1849.00ft
Vertical Reference Pt	Lariat 3 (RKB)	Lariat 3 (RKB) to Mud Line at Slot (Sarah 1-34H SL 200FNL, 810FWL)	18.00ft
MD Reference Pt	Lariat 3 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	178.14°



# Actual Wellpath Report

Sandridge Sarah 1-34H\_Final Surveys.

Page 2 of 4

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Sarah 1-34H SL 200FNL, 810FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Sarah 1-34H AWB
Facility	Sarah 1-34H Sec.34-33S-17W		

## WELLPATH DATA (108 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	0.000	0.00	0.00	0.00	0.00	1807376.00	171569.00	0.00	
18.00	0.000	0.000	18.00	0.00	0.00	0.00	1807376.00	171569.00	0.00	
279.00	0.680	0.000	278.99	-1.55	1.55	0.00	1807376.00	171570.55	0.26	
502.00	0.200	0.000	501.99	-3.26	3.26	0.00	1807376.00	171572.26	0.22	
907.00	0.390	51.250	906.98	-4.79	4.83	1.07	1807377.07	171573.83	0.08	
1189.00	0.230	46.210	1188.98	-5.75	5.82	2.23	1807378.23	171574.82	0.06	
1470.00	0.350	81.590	1469.97	-6.22	6.34	3.49	1807379.49	171575.34	0.07	
1755.00	0.470	96.170	1754.97	-6.16	6.34	5.51	1807381.51	171575.34	0.06	
2037.00	0.280	88.350	2036.96	-5.99	6.24	7.35	1807383.35	171575.24	0.07	
2321.00	0.820	146.290	2320.95	-4.27	4.57	9.17	1807385.17	171573.57	0.25	
2609.00	1.070	162.350	2608.91	0.07	0.29	11.13	1807387.13	171569.29	0.13	
2896.00	0.900	153.560	2895.87	4.70	-4.28	12.95	1807388.95	171564.72	0.08	
3183.00	0.800	152.920	3182.84	8.56	-8.08	14.86	1807390.86	171560.91	0.03	
3469.00	0.990	162.140	3468.80	12.74	-12.21	16.53	1807392.53	171556.79	0.08	
3757.00	1.050	181.430	3756.76	17.77	-17.22	17.23	1807393.23	171551.78	0.12	
4042.00	1.090	192.530	4041.71	23.00	-22.48	16.57	1807392.57	171546.52	0.07	
4190.00	1.170	195.340	4189.68	25.81	-25.31	15.87	1807391.87	171543.69	0.07	
4235.00	1.550	178.570	4234.66	26.86	-26.36	15.76	1807391.76	171542.64	1.21	
4266.00	2.920	174.010	4265.64	28.06	-27.56	15.85	1807391.85	171541.43	4.45	
4298.00	4.800	180.020	4297.57	30.22	-29.71	15.94	1807391.94	171539.29	6.00	
4330.00	6.450	186.280	4329.41	33.33	-32.84	15.74	1807391.74	171536.16	5.49	
4362.00	8.220	192.100	4361.15	37.33	-36.86	15.07	1807391.07	171532.14	5.99	
4394.00	8.990	193.090	4392.79	41.97	-41.54	14.02	1807390.02	171527.46	2.45	
4426.00	11.660	189.800	4424.27	47.55	-47.16	12.90	1807388.90	171521.84	8.54	
4458.00	14.220	188.600	4455.45	54.59	-54.23	11.76	1807387.77	171514.77	8.04	
4490.00	17.520	187.830	4486.23	63.20	-62.89	10.52	1807386.52	171506.11	10.33	
4521.00	20.860	187.240	4515.50	73.25	-72.99	9.19	1807385.19	171496.00	10.79	
4553.00	24.230	186.290	4545.05	85.38	-85.18	7.75	1807383.75	171483.82	10.59	
4585.00	27.460	185.120	4573.85	99.21	-99.05	6.37	1807382.37	171469.94	10.22	
4617.00	30.010	183.580	4601.91	114.50	-114.39	5.21	1807381.21	171454.60	8.30	
4648.00	32.112	182.512	4628.46	130.44	-130.36	4.37	1807380.37	171438.63	7.01	Hardline Crossing 4648MD(4628TVD) 330 FNL, 811 FWL
4649.00	32.180	182.480	4629.31	130.97	-130.90	4.35	1807380.35	171438.10	7.01	
4681.00	34.430	182.060	4656.05	148.49	-148.45	3.65	1807379.65	171420.54	7.07	
4713.00	35.790	181.990	4682.23	166.85	-166.84	3.00	1807379.00	171402.15	4.25	
4744.00	37.120	181.210	4707.16	185.24	-185.26	2.49	1807378.49	171383.74	4.54	
4776.00	38.740	181.130	4732.40	204.88	-204.92	2.09	1807378.09	171364.07	5.06	
4808.00	40.650	180.330	4757.02	225.30	-225.36	1.83	1807377.83	171343.64	6.18	
4840.00	41.820	179.270	4781.08	246.38	-246.45	1.91	1807377.91	171322.54	4.26	
4872.00	42.450	178.130	4804.81	267.85	-267.91	2.39	1807378.40	171301.08	3.10	
4904.00	42.780	177.390	4828.36	289.51	-289.56	3.24	1807379.24	171279.43	1.87	
4935.00	44.150	176.550	4850.86	310.83	-310.85	4.37	1807380.37	171258.14	4.80	
4968.00	45.680	177.160	4874.23	334.13	-334.12	5.65	1807381.65	171234.87	4.82	
4999.00	47.550	177.500	4895.53	356.65	-356.62	6.70	1807382.70	171212.37	6.08	
5039.00	48.910	177.770	4922.17	386.48	-386.43	7.93	1807383.93	171182.56	3.44	
5095.00	49.410	177.000	4958.79	428.84	-428.75	9.86	1807385.86	171140.24	1.37	

# Actual Wellpath Report

Sandridge Sarah 1-34H\_Final Surveys.

Page 3 of 4

REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Sarah 1-34H SL 200FNL, 810FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Sarah 1-34H AWB
Facility	Sarah 1-34H Sec.34-33S-17W		

## WELLPATH DATA (108 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
5158.00	49.730	176.730	4999.65	476.79	-476.63	12.48	1807388.48	171092.35	0.60	
5190.00	49.300	176.350	5020.42	501.12	-500.93	13.95	1807389.95	171068.06	1.62	
5222.00	49.370	176.050	5041.28	525.38	-525.15	15.56	1807391.56	171043.84	0.74	
5254.00	51.330	175.110	5061.69	549.99	-549.71	17.46	1807393.46	171019.27	6.53	
5286.00	54.830	176.350	5080.91	575.54	-575.22	19.36	1807395.36	170993.77	11.37	
5318.00	58.350	176.400	5098.53	602.24	-601.87	21.05	1807397.05	170967.11	11.00	
5350.00	62.010	176.340	5114.44	629.98	-629.58	22.81	1807398.81	170939.41	11.44	
5381.00	64.960	176.210	5128.28	657.71	-657.25	24.61	1807400.61	170911.73	9.52	
5413.00	68.500	176.620	5140.92	687.08	-686.59	26.45	1807402.45	170882.39	11.12	
5445.00	72.240	176.440	5151.67	717.21	-716.67	28.27	1807404.27	170852.31	11.70	
5477.00	76.280	176.000	5160.35	747.98	-747.39	30.30	1807406.30	170821.59	12.69	
5509.00	80.060	175.740	5166.91	779.27	-778.63	32.56	1807408.56	170790.35	11.84	
5541.00	82.880	177.330	5171.65	810.90	-810.21	34.47	1807410.47	170758.77	10.09	
5555.00	83.610	176.520	5173.30	824.80	-824.09	35.21	1807411.21	170744.88	7.76	
5627.00	87.440	177.760	5178.92	896.56	-895.77	38.79	1807414.79	170673.21	5.59	
5658.00	87.380	178.770	5180.32	927.53	-926.72	39.73	1807415.73	170642.25	3.26	
5690.00	89.510	180.040	5181.19	959.50	-958.71	40.06	1807416.06	170610.27	7.75	
5721.00	90.660	178.080	5181.14	990.50	-989.70	40.57	1807416.57	170579.27	7.33	
5784.00	89.260	179.810	5181.18	1053.49	-1052.69	41.73	1807417.73	170516.28	3.53	
5877.00	91.020	180.660	5180.96	1146.42	-1145.68	41.35	1807417.35	170423.29	2.10	
5971.00	91.860	180.820	5178.59	1240.29	-1239.64	40.14	1807416.14	170329.32	0.91	
6065.00	92.630	181.560	5174.91	1334.09	-1333.55	38.18	1807414.19	170235.42	1.14	
6159.00	90.000	179.660	5172.75	1427.96	-1427.51	37.19	1807413.19	170141.46	3.45	
6253.00	89.910	178.470	5172.83	1521.95	-1521.49	38.72	1807414.72	170047.47	1.27	
6347.00	91.100	178.600	5172.00	1615.94	-1615.46	41.12	1807417.12	169953.50	1.27	
6441.00	91.530	179.530	5169.84	1709.90	-1709.42	42.66	1807418.66	169859.54	1.09	
6534.00	91.570	179.420	5167.33	1802.84	-1802.38	43.51	1807419.51	169766.57	0.13	
6628.00	90.590	178.840	5165.56	1896.81	-1896.35	44.93	1807420.94	169672.60	1.21	
6722.00	90.000	178.830	5165.07	1990.80	-1990.33	46.85	1807422.85	169578.62	0.63	
6816.00	90.770	179.550	5164.44	2084.78	-2084.32	48.17	1807424.18	169484.63	1.12	
6910.00	91.790	179.010	5162.34	2178.74	-2178.28	49.36	1807425.36	169390.66	1.23	
7004.00	91.170	176.160	5159.91	2272.69	-2272.16	53.32	1807429.32	169296.78	3.10	
7099.00	91.540	176.160	5157.67	2367.61	-2366.92	59.68	1807435.68	169202.02	0.39	
7195.00	89.820	175.700	5156.53	2463.53	-2462.67	66.49	1807442.49	169106.27	1.85	
7292.00	89.350	175.250	5157.23	2560.42	-2559.36	74.14	1807450.14	169009.57	0.67	
7387.00	87.380	175.380	5159.94	2655.26	-2654.00	81.90	1807457.90	168914.93	2.08	
7482.00	88.460	175.110	5163.39	2750.08	-2748.61	89.77	1807465.77	168820.32	1.17	
7578.00	89.170	175.870	5165.37	2845.95	-2844.29	97.31	1807473.32	168724.63	1.08	
7674.00	89.180	178.280	5166.75	2941.92	-2940.15	102.21	1807478.21	168628.77	2.51	
7770.00	91.940	176.260	5165.82	3037.89	-3036.02	106.78	1807482.79	168532.90	3.56	
7865.00	92.280	176.420	5162.32	3132.78	-3130.76	112.84	1807488.85	168438.15	0.40	
7961.00	91.330	177.580	5159.30	3228.71	-3226.58	117.86	1807493.87	168342.33	1.56	
8057.00	90.740	178.240	5157.56	3324.69	-3322.50	121.36	1807497.37	168246.41	0.92	
8153.00	90.430	177.610	5156.58	3420.68	-3418.43	124.84	1807500.84	168150.48	0.73	
8249.00	89.660	177.210	5156.51	3516.67	-3514.33	129.18	1807505.18	168054.57	0.90	

# Actual Wellpath Report

Sandridge Sarah 1-34H\_Final Surveys.

Page 4 of 4

REFERENCE WELLPATH IDENTIFICATION				
Operator	Sandridge Energy		Slot	Sarah 1-34H SL 200FNL, 810FWL
Area	Kansas		Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid		Wellbore	Sarah 1-34H AWB
Facility	Sarah 1-34H Sec.34-33S-17W			

WELLPATH DATA (108 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
8344.00	88.360	177.710	5158.15	3611.65	-3609.22	133.39	1807509.39	167959.68	1.47	
8440.00	89.600	179.150	5159.86	3707.63	-3705.17	136.02	1807512.02	167863.73	1.98	
8536.00	89.970	178.870	5160.22	3803.62	-3801.15	137.68	1807513.68	167767.75	0.48	
8631.00	90.310	178.840	5159.98	3898.61	-3896.13	139.57	1807515.58	167672.76	0.36	
8727.00	89.010	178.220	5160.55	3994.60	-3992.10	142.04	1807518.04	167576.80	1.50	
8823.00	90.190	183.840	5161.22	4090.44	-4088.04	140.31	1807516.32	167480.85	5.98	
8918.00	88.860	178.730	5162.01	4185.26	-4182.98	138.18	1807514.19	167385.91	5.56	
9014.00	90.560	179.380	5162.50	4281.24	-4278.96	139.76	1807515.77	167289.93	1.90	
9110.00	92.000	179.850	5160.35	4377.18	-4374.93	140.41	1807516.41	167193.95	1.58	
9206.00	93.020	179.810	5156.15	4473.05	-4470.84	140.69	1807516.70	167098.05	1.06	
9301.00	91.160	176.940	5152.68	4567.97	-4565.72	143.39	1807519.39	167003.16	3.60	
9397.00	91.230	178.400	5150.68	4663.94	-4661.62	147.29	1807523.29	166907.26	1.52	
9493.00	91.230	177.960	5148.62	4759.92	-4757.55	150.34	1807526.34	166811.33	0.46	
9589.00	91.010	178.030	5146.75	4855.90	-4853.47	153.70	1807529.70	166715.40	0.24	
9685.00	90.650	176.920	5145.35	4951.88	-4949.37	157.92	1807533.93	166619.50	1.22	
9707.00	90.680	176.960	5145.10	4973.88	-4971.33	159.10	1807535.10	166597.54	0.23	
9750.00	90.680	176.960	5144.59	5016.87	-5014.27	161.38	1807537.38	166554.60	0.00	Hardline Crossing 9750MD(5144TVD) 330 FSL, 809 FWL
9752.00	90.680	176.960	5144.57	5018.87	-5016.27	161.49	1807537.49	166552.60	0.00	Actual BHL 9752MD(5144TVD) 329 FSL, 809 FWL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sarah 1-34H PBHL		5145.97	-5014.91	162.72	1807538.73	166553.96	37°07'19.962"N	99°09'36.242"W	point

WELLPATH COMPOSITION - Ref Wellbore: Sarah 1-34H AWB Ref Wellpath: AWP - Final					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
18.00	9707.00	NaviTrak (Standard)	Inteq MWD	Sarah 1-34H AWB	
9707.00	9752.00	Blind Drilling (std)	Projection to bit	Sarah 1-34H AWB	

Section 28  
33S 17W

Section 27  
33S 17W

SARAH 1-34H



Miss Entry: 5286'  
-99.160666 37.1344022



Top Perf: 5318'  
-99.160660 37.134329

Section 33  
33S 17W

Section 34  
33S 17W

Bottom Perf: 9301'  
-99.160144 37.123445



905' FWL

BHL: 9752'

-99.160071 37.122208

318' FSL

Section 4  
34S 17W

Section 3  
34S 17W



Actual Bottom-Hole Location of Sara 1-34H  
Comanche County, Kansas  
T&R: 33S 17W  
Section: 34, 905' FWL & 318' FSL  
Long/Lat: -99.160071 37.122208  
1 in = 667 ft

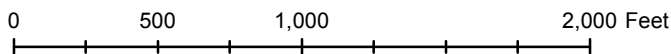


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 6/18/2012

Drawing Name/Number:

Addendum\_Sarah\_1-34H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

Logo

Back to Well Completion

# Sarah 1-34H (1077159)

**Actions**

View PDF
Delete
Edit
Certify & Submit
Request Confidentiality

**Attachments**

Two Year Confidentiality OPERATOR	View PDF Delete
Cement Reports OPERATOR	View PDF Delete
Directional Survey OPERATOR	View PDF Delete
As Drilled Plat OPERATOR	View PDF Delete

Add Attachment

**Remarks**

Remarks to KCC
----------------

Add Remark

**Remarks**

Tiffany Golay 06/21/012 03:27 pm	Fluid Mgmt: 5000 additional bbls hauled to LoJo Disposal Sec 10-26N-15W in Woods Co, OK. License No: 563714
Tiffany Golay 05/17/012 10:12 am	Conductor weight= 106.5 lbs/ft and 10 yards of grout were used