



1123960

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	--------------------------------------------	---------------------------------------------------------------------

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

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 1-6H
Doc ID	1123960

All Electric Logs Run

Mud Log
Boresight
Density
Induction

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 1-6H
Doc ID	1123960

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9625-9966	4265 bbls water, 36 bbls acid, 75M lbs sd, 4411.5 TLTR	
5	9232-9572	4335 bbls Slickwater, 36 bbls 15% HCl, 75039 lbs Ottawa sd, 8894 TLTR	
5	8862-9164	4416 bbls Slickwater, 36 bbls 15% HCl, 75048 lbs Ottawa sd, 13353 TLTR	
5	8448-8782	4441 bbls Slickwater, 36 bbls 15% HCl, 75186 lbs Ottawa sd, 17692 TLTR	
5	8070-8368	4422 bbls Slickwater, 36 bbls 15% HCl, 75140 lbs Ottawa sd, 22020 TLTR	
5	7669-7994	4322 bbls Slickwater, 36 bbls 15% HCl, 75020 lbs Ottawa sd, 26902 TLTR	
5	7258-7592	4507 bbls Slickwater, 36 bbls 15% HCl, 77079 lbs Ottawa sd, 31410 TLTR	
5	6868-7197	4248 bbls Slickwater, 36 bbls 15% HCl, 77335 lbs Ottawa sd, 35724 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 1-6H
Doc ID	1123960

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6326-6717	4497 bbls Slickwater, 36 bbls 15% HCl, 77010 lbs Ottawa sd, 40142 TLTR	
5	5950-6248	4524 bbls Slickwater, 36 bbls 15% HCl, 77359 lbs Ottawa sd, 44609 TLTR	
5	5462-5820	4353 bbls Slickwater, 36 bbls 15% HCl, 76085 lbs Ottawa sd, 48902 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 1-6H
Doc ID	1123960

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	120	Pro Oilfield Services 10 Sack Grout	12	none
Surface	17.5	13.38	68	1008	Halliburton Extendacem/ Swiftcem Systems	265	3% Calcium Chloride, .25 lbm Poly-E-Flake/ 2% Calcium Chloride, .125 Poly-E-Flake
Intermediate	8.75	7	26	5572	Halliburton Econocem and Halcem Systems	300	.4% Halad (R)-9, 2 lbm Kol-Seal, 2% Bentonite/ .4% Halad (R)-9, 2 lbm Kol-Seal
Production Liner	6.13	4.5	11.6	10070	Halliburton Econocem System	550	2 lbm Kol-Seal, .25% SA-1015, .2% CFR-3, W/O Defoamer

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

March 12, 2013

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

Re: ACO1
API 15-033-21690-01-00
Brothers 3119 1-6H
NW/4 Sec.07-31S-19W
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



P.O. BOX 3660
HOUMA, LA 70361-3660

Customer : SAN400

BILL TO : SANDRIDGE ENERGY
123 ROBERT S KERR AVENUE
OKLAHOMA CITY, OK 73102-6406
PHONE: (405) 753-5500 FAX: ()

Division : 0701
Delivery Ticket : 4188
Delivery Date : 2/8/2013
Office : 12/1/1901

Ordered By :
Lease/Well : BROTHERS 3119 1-6H
Rig Name/Number : LARIAT 41
AFE Number :
Site Contact :
:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	BROTHERS 3119 1-6H	\$21,250.00	\$0.00	\$21,250.00	2/8/2013 2/8/2013	\$21,250.00
120	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
120	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
75	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
12	CEMENT 10 SACK GROUT	\$0.00	\$0.00	\$0.00	2/8/2013 2/8/2013	
Sub Total:		\$21,250.00	\$0.00			\$21,250.00

Print Name

Signature

RECEIVED

FEB 25 2013

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

REGULATORY DEPT
SANDRIDGE ENERGY

Sold To #: 305021	Ship To #: 2981252	Quote #:	Sales Order #: 900227840
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Hill, Richard	
Well Name: Brothers 3119	Well #: 1-6H	API/UWI #: 15-033-21690	
Field:	City (SAP): COLDWATER	County/Parish: Comanche	State: Kansas
Legal Description: Section 7 Township 31S Range 19W			
Contractor: Lariat		Rig/Platform Name/Num: 41	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: TOWNSEND, JOE	MBU ID Emp #: 493000

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAVIS, TROY Robert	6	498798	TOWNSEND, JOE D	6	493000	WALLS, JAMES Richard	6	396166

Equipment

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

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2/19/13	6	1						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD) Top	Formation Depth (MD) Bottom	Date	Time	Time Zone
Form Type	BHST		Called Out	19 - Feb - 2013 08:30	CST
Job depth MD	300. ft	Job Depth TVD	On Location	19 - Feb - 2013 13:30	CST
Water Depth	Wk 1st Above Floor 4 ft		Job Started	19 - Feb - 2013 13:14	CST
Perforation Depth (MD) From	To		Job Completed	19 - Feb - 2013 13:40	CST
			Departed Loc	19 - Feb - 2013 20:15	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
17.8" Open Hole				17.8					300.		
13.375" Surface Casing	Unknown		13.375	11.415	86.		N-80		300.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 13 3/8, HWE, 11.79 MIN/12.72	1	EA		

Tools and Accessories

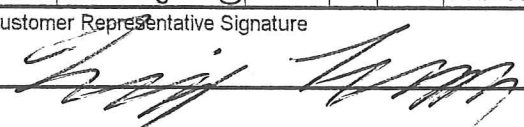
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	13.375	1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	13.375	1	
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Flid	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
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	150.0	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	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	115.0	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		43.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	43	Shut In: Instant		Lost Returns	NO	Cement Slurry	81	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	43	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job			5
Cement Left In Pipe	Amount	37 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					
									

RECEIVED

APR 1 2013

HALLIBURTON

REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2981252	Quote #:	Sales Order #: 900245895
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: , Luis	
Well Name: Brothers 3119	Well #: 1-6H	API/UWI #: 15-033-21690	
Field:	City (SAP): COLDWATER	County/Parish: Comanche	State: Kansas
Legal Description: Section 7 Township 31S Range 19W			
Contractor: Lariat		Rig/Platform Name/Num: 41	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srvc Supervisor: LEE, SEITH	MBU ID Emp #: 483600

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GARCIA, DAVID F	13.5	519312	LEE, SEITH Adam	13.5	483600	NASH, JONATHAN Clark	13.5	524600

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
3/2/2013	13.5	1.5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	01 - Mar - 2013	16:00	CST
Form Type	BHST		Job Started	02 - Mar - 2013	00:30	CST
Job depth MD	5578. ft	Job Depth TVD	Job Completed	02 - Mar - 2013	10:30	CST
Water Depth		Wk Ht Above Floor	20	Job Completed	02 - Mar - 2013	12:00
Perforation Depth (MD)	From	To	Departed Loc	02 - Mar - 2013	02:00	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
8.75" Open Hole				8.75				1000.	5578.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110		5578.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		1000.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 7, HWE, 5.66 MIN/6.54 MAX CS	1	EA		

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

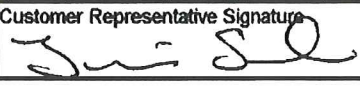
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

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
1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	3	
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	200.0	sacks	13.6	1.53	7.24	4.5	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	Tail Cement	HALCEM (TM) SYSTEM (452986)	100.0	sacks	15.6	1.19	5.08	3	5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		210.00	bbl	8.33	.0	.0	6	
Calculated Values		Pressures			Volumes				
Displacement	210	Shut In: Instant		Lost Returns	0	Cement Slurry	75	Pad	
Top Of Cement	3605	5 Min		Cement Returns	0	Actual Displacement	210	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	
Rates									
Circulating	7	Mixing	4	Displacement	6	Avg. Job	5.5		
Cement Left In Pipe	Amount	90 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 					

RECEIVED

APR 1 2013

HALLIBURTON

REGULATORY DEPT SANDRIDGE ENERGY *Cementing Job Summary*

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2981252	Quote #:	Sales Order #: 900281048
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Hill, Richard	
Well Name: Brothers 3119	Well #: 1-6H	API/UWI #: 15-033-21690	
Field:	City (SAP): COLDWATER	County/Parish: Comanche	State: Kansas
Legal Description: Section 7 Township 31S Range 19W			
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: NGUYEN, VINH		Srvc Supervisor: RALSTON, ANTHONY	MBU ID Emp #: 448065

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECERRA, JUAN Carlos	7	491933	JOURNAGAN, MICHAEL D	5	524224	RALSTON, ANTHONY Kenneth	7	448065
REYES GANDARA, JUAN Armando	5	440529						

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
3/11/2013	7	7						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Called Out	Date	Time	Time Zone
	10104. ft		BHST	On Location			
Job depth MD	10104. ft	Job Depth TVD	10104. ft	Job Started			
Water Depth		Wk Ht Above Floor	15. ft	Job Completed	15 - Feb - 2013	02:00	GMT
Perforation Depth (MD) From		To		Departed Loc			

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
6.125" Open Hole				6.125				5578.	10104.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	5174.	10104.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110		5578.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown			5174.		

Tools and Accessories

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

Miscellaneous Materials

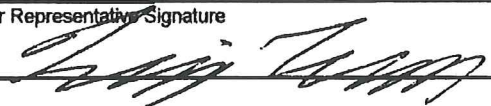
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

--

HALLIBURTON

Cementing Job Summary

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
1	Rig Supplied Gel Spacer		30.00	bbl	8.5	.0	.0	4	
2	Primary Cement E923	ECONOCEM (TM) SYSTEM (452992)	550.0	sacks	13.6	1.48	6.9	5.5	6.9
	2 lbm	KOL-SEAL, BULK (100064233)							
	0.25 %	SA-1015, 50 LB SACK (102077046)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	6.901 Gal	FRESH WATER							
3	Displacement		132.00	bbl	8.33	.0	.0	6	
Calculated Values		Pressures			Volumes				
Displacement	124	Shut In: Instant		Lost Returns		Cement Slurry	145	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	124	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	300
Rates									
Circulating		Mixing	5.5	Displacement	5.5	Avg. Job	5.5		
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature 					

Sandridge Energy, INC.(mid-con.)

Comanche County (KS27S)

Sec 07-T31S-R19W

Brothers 1-6H/ Job #04109-431-22/ Lariat 41

Wellbore #1

Design: Wellbore #1

Standard Survey Report

25 March, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project: Comanche County (KS27S)	TVD Reference: WELL @ 2178.0usft (Original Well Elev)
Site: Sec 07-T31S-R19W	MD Reference: WELL @ 2178.0usft (Original Well Elev)
Well: Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Comanche County (KS27S), KS South		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Kansas South 1502		

Site Sec 07-T31S-R19W					
Site Position:		Northing:	256,387.00 usft	Latitude:	37° 22' 1.418 N
From: Map		Easting:	1,728,232.00 usft	Longitude:	99° 26' 6.478 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.57 °

Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41					
Well Position	+N/-S	0.0 usft	Northing:	256,011.00 usft	Latitude: 37° 21' 57.807 N
	+E/-W	0.0 usft	Easting:	1,729,303.00 usft	Longitude: 99° 25' 53.166 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 2,160.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/15/13	5.39	65.28	51,825

Design Wellbore #1					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0		0.71

Survey Program Date 03/25/13					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,219.0	10,070.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,219.0	1.10	285.50	1,218.9	3.1	-11.3	3.0	0.09	0.09	0.00	
First Archer MWD Survey										
1,676.0	1.20	240.80	1,675.8	2.0	-19.7	1.7	0.19	0.02	-9.78	
2,137.0	1.70	243.40	2,136.7	-3.5	-30.0	-3.8	0.11	0.11	0.56	
2,597.0	1.10	263.50	2,596.6	-7.0	-40.5	-7.5	0.17	-0.13	4.37	
3,054.0	1.00	51.00	3,053.5	-5.0	-41.8	-5.5	0.44	-0.02	32.28	
3,511.0	0.70	80.10	3,510.5	-2.0	-35.9	-2.4	0.11	-0.07	6.37	
3,967.0	1.70	39.70	3,966.4	3.7	-28.8	3.3	0.27	0.22	-8.86	
4,150.0	1.30	50.50	4,149.3	7.1	-25.5	6.8	0.27	-0.22	5.90	

Archer Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2178.0usft (Original Well Elev)
Site:	Sec 07-T31S-R19W	MD Reference:	WELL @ 2178.0usft (Original Well Elev)
Well:	Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,181.0	1.20	52.60	4,180.3	7.5	-25.0	7.2	0.35	-0.32	6.77
4,211.0	2.60	23.50	4,210.3	8.3	-24.5	8.0	5.53	4.67	-97.00
4,242.0	5.20	23.90	4,241.2	10.3	-23.6	10.0	8.39	8.39	1.29
4,272.0	7.40	26.10	4,271.0	13.2	-22.2	13.0	7.38	7.33	7.33
4,303.0	9.30	25.70	4,301.7	17.3	-20.2	17.0	6.13	6.13	-1.29
4,333.0	10.70	29.50	4,331.2	21.9	-17.8	21.7	5.16	4.67	12.67
4,363.0	12.10	29.90	4,360.7	27.0	-14.9	26.9	4.67	4.67	1.33
4,394.0	13.60	27.80	4,390.9	33.1	-11.6	32.9	5.07	4.84	-6.77
4,424.0	14.50	24.30	4,420.0	39.6	-8.4	39.5	4.12	3.00	-11.67
4,454.0	15.30	19.80	4,449.0	46.8	-5.5	46.7	4.69	2.67	-15.00
4,485.0	17.20	13.00	4,478.7	55.1	-3.1	55.0	8.66	6.13	-21.94
4,515.0	20.00	9.10	4,507.2	64.5	-1.3	64.5	10.21	9.33	-13.00
4,546.0	23.20	6.80	4,536.0	75.8	0.3	75.8	10.68	10.32	-7.42
4,576.0	25.40	4.60	4,563.3	88.1	1.5	88.1	7.93	7.33	-7.33
4,606.0	27.70	1.30	4,590.2	101.4	2.2	101.5	9.11	7.67	-11.00
4,637.0	30.00	359.40	4,617.3	116.4	2.3	116.4	7.99	7.42	-6.13
4,667.0	32.10	358.80	4,643.0	131.9	2.0	131.9	7.08	7.00	-2.00
4,698.0	34.20	358.30	4,669.0	148.8	1.6	148.8	6.83	6.77	-1.61
4,728.0	36.40	358.60	4,693.5	166.1	1.1	166.1	7.36	7.33	1.00
4,758.0	38.60	359.00	4,717.3	184.4	0.8	184.4	7.38	7.33	1.33
4,789.0	39.90	359.30	4,741.3	204.0	0.5	204.0	4.24	4.19	0.97
4,819.0	41.10	359.20	4,764.1	223.5	0.2	223.5	4.01	4.00	-0.33
4,850.0	42.40	359.10	4,787.2	244.1	-0.1	244.1	4.20	4.19	-0.32
4,880.0	44.00	358.80	4,809.1	264.7	-0.5	264.6	5.38	5.33	-1.00
4,911.0	45.90	358.80	4,831.0	286.6	-0.9	286.5	6.13	6.13	0.00
4,941.0	48.00	358.80	4,851.5	308.5	-1.4	308.4	7.00	7.00	0.00
4,971.0	49.00	358.80	4,871.4	330.9	-1.9	330.9	3.33	3.33	0.00
5,002.0	49.10	358.20	4,891.7	354.3	-2.5	354.3	1.50	0.32	-1.94
5,032.0	48.80	358.10	4,911.4	377.0	-3.2	376.9	1.03	-1.00	-0.33
5,063.0	48.90	358.30	4,931.8	400.3	-3.9	400.2	0.58	0.32	0.65
5,093.0	48.80	358.70	4,951.5	422.9	-4.5	422.8	1.06	-0.33	1.33
5,124.0	49.10	358.50	4,971.9	446.2	-5.1	446.1	1.08	0.97	-0.65
5,154.0	49.40	359.00	4,991.5	469.0	-5.6	468.9	1.61	1.00	1.67
5,185.0	51.00	359.50	5,011.3	492.8	-5.9	492.7	5.31	5.16	1.61
5,215.0	53.00	359.60	5,029.8	516.4	-6.1	516.3	6.67	6.67	0.33
5,245.0	55.60	359.70	5,047.3	540.8	-6.2	540.7	8.67	8.67	0.33
5,276.0	59.30	359.80	5,064.0	566.9	-6.4	566.8	11.94	11.94	0.32
5,307.0	63.00	359.20	5,078.9	594.1	-6.6	593.9	12.06	11.94	-1.94
5,337.0	66.10	359.50	5,091.8	621.1	-6.9	621.0	10.37	10.33	1.00
5,368.0	68.80	359.90	5,103.7	649.8	-7.1	649.6	8.79	8.71	1.29
5,398.0	71.30	0.40	5,113.9	678.0	-7.0	677.8	8.48	8.33	1.67
5,428.0	73.30	1.10	5,123.0	706.5	-6.6	706.4	7.03	6.67	2.33

Archer Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2178.0usft (Original Well Elev)
Site:	Sec 07-T31S-R19W	MD Reference:	WELL @ 2178.0usft (Original Well Elev)
Well:	Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,459.0	75.80	1.60	5,131.3	736.4	-5.9	736.3	8.21	8.06	1.61	
5,489.0	78.20	1.30	5,138.0	765.6	-5.2	765.5	8.06	8.00	-1.00	
5,520.0	80.70	1.40	5,143.7	796.1	-4.4	796.0	8.07	8.06	0.32	
5,550.0	84.30	0.70	5,147.6	825.8	-3.9	825.7	12.22	12.00	-2.33	
5,565.0	86.00	0.30	5,148.9	840.8	-3.8	840.7	11.64	11.33	-2.67	
5,616.0	90.70	359.50	5,150.4	891.7	-3.9	891.6	9.35	9.22	-1.57	
5,647.0	90.90	359.70	5,149.9	922.7	-4.1	922.6	0.91	0.65	0.65	
5,679.0	91.10	359.40	5,149.4	954.7	-4.3	954.6	1.13	0.63	-0.94	
5,711.0	91.80	359.10	5,148.6	986.7	-4.7	986.6	2.38	2.19	-0.94	
5,742.0	91.90	359.30	5,147.6	1,017.7	-5.2	1,017.5	0.72	0.32	0.65	
5,774.0	90.20	358.90	5,147.0	1,049.7	-5.7	1,049.5	5.46	-5.31	-1.25	
5,805.0	89.30	0.10	5,147.1	1,080.7	-5.9	1,080.5	4.84	-2.90	3.87	
5,837.0	89.80	0.80	5,147.4	1,112.7	-5.7	1,112.5	2.69	1.56	2.19	
5,868.0	89.80	2.40	5,147.5	1,143.7	-4.8	1,143.5	5.16	0.00	5.16	
5,900.0	90.60	3.00	5,147.4	1,175.6	-3.3	1,175.5	3.12	2.50	1.88	
5,931.0	90.90	2.90	5,147.0	1,206.6	-1.7	1,206.5	1.02	0.97	-0.32	
5,963.0	91.20	2.80	5,146.4	1,238.5	-0.1	1,238.4	0.99	0.94	-0.31	
5,994.0	91.90	3.00	5,145.5	1,269.5	1.4	1,269.4	2.35	2.26	0.65	
6,025.0	92.40	3.20	5,144.4	1,300.4	3.1	1,300.4	1.74	1.61	0.65	
6,057.0	91.10	3.10	5,143.4	1,332.4	4.9	1,332.3	4.07	-4.06	-0.31	
6,088.0	91.20	3.30	5,142.8	1,363.3	6.6	1,363.3	0.72	0.32	0.65	
6,120.0	88.80	2.60	5,142.8	1,395.3	8.2	1,395.2	7.81	-7.50	-2.19	
6,152.0	88.20	2.40	5,143.6	1,427.2	9.6	1,427.2	1.98	-1.88	-0.63	
6,183.0	88.40	1.50	5,144.5	1,458.2	10.7	1,458.2	2.97	0.65	-2.90	
6,214.0	89.00	1.70	5,145.2	1,489.2	11.6	1,489.2	2.04	1.94	0.65	
6,246.0	89.40	1.70	5,145.7	1,521.1	12.5	1,521.2	1.25	1.25	0.00	
6,277.0	88.60	2.20	5,146.2	1,552.1	13.6	1,552.2	3.04	-2.58	1.61	
6,309.0	88.80	2.70	5,146.9	1,584.1	14.9	1,584.1	1.68	0.63	1.56	
6,340.0	89.70	3.60	5,147.4	1,615.0	16.6	1,615.1	4.11	2.90	2.90	
6,372.0	90.10	3.90	5,147.4	1,647.0	18.7	1,647.1	1.56	1.25	0.94	
6,403.0	88.90	3.00	5,147.7	1,677.9	20.6	1,678.0	4.84	-3.87	-2.90	
6,435.0	88.80	2.80	5,148.3	1,709.9	22.2	1,710.0	0.70	-0.31	-0.63	
6,466.0	88.80	2.20	5,149.0	1,740.8	23.6	1,741.0	1.94	0.00	-1.94	
6,498.0	88.50	2.30	5,149.7	1,772.8	24.8	1,773.0	0.99	-0.94	0.31	
6,529.0	89.10	2.90	5,150.4	1,803.7	26.2	1,803.9	2.74	1.94	1.94	
6,561.0	89.90	2.40	5,150.7	1,835.7	27.7	1,835.9	2.95	2.50	-1.56	
6,592.0	90.10	1.90	5,150.7	1,866.7	28.9	1,866.9	1.74	0.65	-1.61	
6,624.0	90.40	2.30	5,150.5	1,898.7	30.0	1,898.9	1.56	0.94	1.25	
6,655.0	89.90	1.70	5,150.4	1,929.7	31.1	1,929.9	2.52	-1.61	-1.94	
6,687.0	90.20	2.00	5,150.4	1,961.6	32.2	1,961.9	1.33	0.94	0.94	
6,718.0	89.90	2.10	5,150.4	1,992.6	33.3	1,992.9	1.02	-0.97	0.32	
6,813.0	90.40	1.70	5,150.1	2,087.6	36.4	2,087.9	0.67	0.53	-0.42	
6,907.0	91.30	1.40	5,148.7	2,181.5	39.0	2,181.8	1.01	0.96	-0.32	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2178.0usft (Original Well Elev)
Site:	Sec 07-T31S-R19W	MD Reference:	WELL @ 2178.0usft (Original Well Elev)
Well:	Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,002.0	92.30	1.40	5,145.8	2,276.4	41.3	2,276.8	1.05	1.05	0.00
7,096.0	90.20	1.20	5,143.7	2,370.4	43.4	2,370.7	2.24	-2.23	-0.21
7,191.0	91.00	1.90	5,142.7	2,465.3	46.0	2,465.7	1.12	0.84	0.74
7,285.0	89.10	1.80	5,142.6	2,559.3	49.0	2,559.7	2.02	-2.02	-0.11
7,348.0	86.20	2.50	5,145.2	2,622.2	51.4	2,622.6	4.74	-4.60	1.11
7,380.0	86.90	1.90	5,147.1	2,654.1	52.6	2,654.6	2.88	2.19	-1.88
7,412.0	88.40	2.00	5,148.4	2,686.1	53.7	2,686.5	4.70	4.69	0.31
7,444.0	89.30	2.10	5,149.1	2,718.0	54.8	2,718.5	2.83	2.81	0.31
7,475.0	91.50	0.90	5,148.9	2,749.0	55.6	2,749.5	8.08	7.10	-3.87
7,507.0	92.10	359.80	5,147.9	2,781.0	55.8	2,781.5	3.91	1.88	-3.44
7,539.0	92.10	359.20	5,146.7	2,813.0	55.6	2,813.5	1.87	0.00	-1.88
7,570.0	92.20	359.40	5,145.5	2,844.0	55.2	2,844.4	0.72	0.32	0.65
7,602.0	93.20	359.40	5,144.0	2,875.9	54.8	2,876.4	3.13	3.13	0.00
7,634.0	93.80	359.10	5,142.1	2,907.9	54.4	2,908.3	2.10	1.88	-0.94
7,666.0	94.60	358.90	5,139.7	2,939.8	53.9	2,940.2	2.58	2.50	-0.63
7,697.0	94.40	358.80	5,137.3	2,970.7	53.2	2,971.1	0.72	-0.65	-0.32
7,729.0	93.00	359.60	5,135.2	3,002.6	52.8	3,003.0	5.04	-4.38	2.50
7,761.0	93.00	360.00	5,133.6	3,034.5	52.7	3,035.0	1.25	0.00	1.25
7,793.0	91.90	358.90	5,132.2	3,066.5	52.4	3,066.9	4.86	-3.44	-3.44
7,824.0	91.80	358.70	5,131.2	3,097.5	51.7	3,097.9	0.72	-0.32	-0.65
7,856.0	91.80	358.00	5,130.2	3,129.5	50.8	3,129.9	2.19	0.00	-2.19
7,888.0	92.70	358.40	5,128.9	3,161.4	49.8	3,161.8	3.08	2.81	1.25
7,919.0	92.70	358.20	5,127.5	3,192.4	48.9	3,192.7	0.64	0.00	-0.65
7,951.0	93.30	358.10	5,125.8	3,224.3	47.9	3,224.7	1.90	1.88	-0.31
7,983.0	90.90	358.00	5,124.6	3,256.3	46.8	3,256.6	7.51	-7.50	-0.31
8,014.0	89.10	358.80	5,124.6	3,287.3	45.9	3,287.6	6.35	-5.81	2.58
8,046.0	89.50	358.70	5,125.0	3,319.2	45.2	3,319.6	1.29	1.25	-0.31
8,078.0	89.90	358.00	5,125.2	3,351.2	44.3	3,351.5	2.52	1.25	-2.19
8,110.0	90.30	357.60	5,125.1	3,383.2	43.1	3,383.5	1.77	1.25	-1.25
8,141.0	91.50	358.80	5,124.6	3,414.2	42.1	3,414.4	5.47	3.87	3.87
8,173.0	92.10	359.00	5,123.6	3,446.2	41.5	3,446.4	1.98	1.88	0.63
8,205.0	92.20	359.10	5,122.4	3,478.1	40.9	3,478.4	0.44	0.31	0.31
8,236.0	91.70	358.80	5,121.4	3,509.1	40.4	3,509.3	1.88	-1.61	-0.97
8,268.0	91.80	0.70	5,120.4	3,541.1	40.2	3,541.3	5.94	0.31	5.94
8,300.0	92.30	0.50	5,119.2	3,573.1	40.6	3,573.3	1.68	1.56	-0.63
8,332.0	92.80	0.70	5,117.8	3,605.0	40.9	3,605.3	1.68	1.56	0.63
8,363.0	91.50	0.70	5,116.7	3,636.0	41.3	3,636.3	4.19	-4.19	0.00
8,394.0	91.20	0.40	5,115.9	3,667.0	41.6	3,667.2	1.37	-0.97	-0.97
8,426.0	89.80	1.40	5,115.7	3,699.0	42.1	3,699.2	5.38	-4.38	3.13
8,457.0	89.70	1.40	5,115.8	3,730.0	42.8	3,730.2	0.32	-0.32	0.00
8,489.0	89.90	1.40	5,115.9	3,762.0	43.6	3,762.2	0.63	0.63	0.00
8,520.0	89.30	1.90	5,116.1	3,793.0	44.5	3,793.2	2.52	-1.94	1.61

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2178.0usft (Original Well Elev)
Site:	Sec 07-T31S-R19W	MD Reference:	WELL @ 2178.0usft (Original Well Elev)
Well:	Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,552.0	88.80	1.70	5,116.6	3,824.9	45.5	3,825.2	1.68	-1.56	-0.63
8,583.0	88.90	1.40	5,117.3	3,855.9	46.4	3,856.2	1.02	0.32	-0.97
8,615.0	89.00	1.70	5,117.9	3,887.9	47.2	3,888.2	0.99	0.31	0.94
8,646.0	89.30	1.70	5,118.3	3,918.9	48.1	3,919.2	0.97	0.97	0.00
8,678.0	89.80	2.00	5,118.6	3,950.9	49.2	3,951.2	1.82	1.56	0.94
8,709.0	90.00	2.20	5,118.6	3,981.9	50.3	3,982.2	0.91	0.65	0.65
8,741.0	90.30	2.10	5,118.5	4,013.8	51.5	4,014.2	0.99	0.94	-0.31
8,772.0	90.90	2.40	5,118.2	4,044.8	52.7	4,045.2	2.16	1.94	0.97
8,804.0	90.90	2.40	5,117.7	4,076.8	54.1	4,077.1	0.00	0.00	0.00
8,835.0	90.20	2.80	5,117.4	4,107.7	55.5	4,108.1	2.60	-2.26	1.29
8,867.0	90.30	2.60	5,117.3	4,139.7	57.0	4,140.1	0.70	0.31	-0.63
8,898.0	89.90	2.70	5,117.2	4,170.7	58.4	4,171.1	1.33	-1.29	0.32
8,930.0	89.40	2.30	5,117.4	4,202.6	59.8	4,203.1	2.00	-1.56	-1.25
8,961.0	89.50	2.00	5,117.7	4,233.6	61.0	4,234.1	1.02	0.32	-0.97
8,993.0	89.50	2.40	5,118.0	4,265.6	62.2	4,266.0	1.25	0.00	1.25
9,024.0	89.70	2.40	5,118.2	4,296.6	63.5	4,297.0	0.65	0.65	0.00
9,056.0	89.40	2.50	5,118.5	4,328.5	64.9	4,329.0	0.99	-0.94	0.31
9,087.0	89.30	2.40	5,118.8	4,359.5	66.2	4,360.0	0.46	-0.32	-0.32
9,119.0	89.60	2.10	5,119.1	4,391.5	67.4	4,392.0	1.33	0.94	-0.94
9,150.0	89.30	1.90	5,119.4	4,422.5	68.5	4,423.0	1.16	-0.97	-0.65
9,182.0	87.10	1.10	5,120.4	4,454.4	69.4	4,454.9	7.31	-6.88	-2.50
9,213.0	86.50	1.00	5,122.2	4,485.4	69.9	4,485.9	1.96	-1.94	-0.32
9,245.0	86.80	0.80	5,124.0	4,517.3	70.4	4,517.8	1.13	0.94	-0.63
9,276.0	86.80	0.40	5,125.8	4,548.3	70.8	4,548.8	1.29	0.00	-1.29
9,307.0	87.60	359.50	5,127.3	4,579.2	70.7	4,579.8	3.88	2.58	-2.90
9,339.0	88.40	359.00	5,128.4	4,611.2	70.3	4,611.7	2.95	2.50	-1.56
9,370.0	90.70	358.80	5,128.6	4,642.2	69.7	4,642.7	7.45	7.42	-0.65
9,402.0	91.80	358.10	5,127.9	4,674.2	68.9	4,674.7	4.07	3.44	-2.19
9,433.0	92.00	358.20	5,126.9	4,705.1	67.9	4,705.6	0.72	0.65	0.32
9,465.0	92.40	358.30	5,125.7	4,737.1	66.9	4,737.6	1.29	1.25	0.31
9,496.0	92.00	357.90	5,124.5	4,768.1	65.9	4,768.5	1.82	-1.29	-1.29
9,528.0	92.20	357.70	5,123.3	4,800.0	64.6	4,800.5	0.88	0.63	-0.63
9,559.0	92.60	357.70	5,122.0	4,831.0	63.4	4,831.4	1.29	1.29	0.00
9,591.0	91.30	357.20	5,120.9	4,862.9	62.0	4,863.3	4.35	-4.06	-1.56
9,622.0	91.00	356.90	5,120.3	4,893.9	60.4	4,894.2	1.37	-0.97	-0.97
9,654.0	89.70	357.00	5,120.1	4,925.8	58.7	4,926.2	4.07	-4.06	0.31
9,685.0	89.80	357.50	5,120.2	4,956.8	57.2	4,957.1	1.64	0.32	1.61
9,717.0	90.20	357.30	5,120.2	4,988.8	55.7	4,989.1	1.40	1.25	-0.63
9,748.0	90.50	358.00	5,120.0	5,019.7	54.4	5,020.0	2.46	0.97	2.26
9,780.0	90.50	357.40	5,119.8	5,051.7	53.2	5,052.0	1.87	0.00	-1.88
9,811.0	90.90	357.30	5,119.4	5,082.7	51.7	5,082.9	1.33	1.29	-0.32
9,843.0	91.30	357.50	5,118.8	5,114.6	50.3	5,114.9	1.40	1.25	0.63
9,874.0	91.80	357.30	5,117.9	5,145.6	48.9	5,145.8	1.74	1.61	-0.65

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Brothers 1-6H/ Job #04109-431-22/ Lariat 41
Project: Comanche County (KS27S)	TVD Reference: WELL @ 2178.0usft (Original Well Elev)
Site: Sec 07-T31S-R19W	MD Reference: WELL @ 2178.0usft (Original Well Elev)
Well: Brothers 1-6H/ Job #04109-431-22/ Lariat 41	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,906.0	91.40	358.50	5,117.0	5,177.6	47.7	5,177.7	3.95	-1.25	3.75
9,937.0	90.90	358.20	5,116.4	5,208.5	46.8	5,208.7	1.88	-1.61	-0.97
9,969.0	90.10	357.50	5,116.1	5,240.5	45.6	5,240.7	3.32	-2.50	-2.19
10,000.0	89.90	357.60	5,116.1	5,271.5	44.3	5,271.6	0.72	-0.65	0.32
10,022.0	90.10	357.60	5,116.1	5,293.5	43.4	5,293.6	0.91	0.91	0.00
Last Archer MWD Survey									
10,070.0	90.10	357.60	5,116.1	5,341.4	41.4	5,341.5	0.00	0.00	0.00
Projection to TD - PBHL Brothers 1-6H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,219.0	1,218.9	3.1	-11.3	First Archer MWD Survey
10,022.0	5,116.1	5,293.5	43.4	Last Archer MWD Survey
10,070.0	5,116.1	5,341.4	41.4	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/9/2013
Job End Date:	4/12/2013
State:	Kansas
County:	Comanche
API Number:	15-033-21690-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Brothers 3119 1-6H
Longitude:	-99.43140000
Latitude:	37.36600000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	1,991,814
Total Base Non Water Volume:	



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
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					
			Water (Including Mix Water Supplied by Client)*			95.03520	
			Crystalline silica	14808-60-7	96.21285	4.77678	
			Hydrogen chloride	7647-01-0	2.69176	0.13364	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.34827	0.01729	
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.29023	0.01441	
			Ammonium chloride	12125-02-9	0.16688	0.00829	
			Polyethylene glycol monoethyl ether	31726-34-8	0.10830	0.00538	
			Ethoxylated oleic acid	9004-96-0	0.02902	0.00144	
			Trisodium ortho phosphate	7601-54-9	0.02618	0.00130	
			Sorbitan monooleate	1338-43-8	0.02539	0.00126	
			Sodium erythorbate	6381-77-7	0.01900	0.00094	
			Sorbitol Tetraoleate	61723-83-9	0.01814	0.00090	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01509	0.00075	

		Alcohols, C10-C16, ethoxylated	68002-97-1	0.01495	0.00074
		Alcohols, C12-C14, ethoxylated	68439-50-9	0.01495	0.00074
		Glutaraldehyde	111-30-8	0.01440	0.00071
		Methanol	67-56-1	0.01158	0.00058
		Fatty acids, tall-oil	61790-12-3	0.00840	0.00042
		C14 alpha olefin ethoxylate	84133-50-6	0.00798	0.00040
		Ethane-1,2-diol	107-21-1	0.00745	0.00037
		2-Propenoic acid, ammonium salt	10604-69-0	0.00726	0.00036
		Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00691	0.00034
		Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00475	0.00024
		Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00322	0.00016
		Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.00257	0.00013
		Prop-2-yn-1-ol	107-19-7	0.00215	0.00011
		Alkenes, C>10 a-	64743-02-8	0.00143	0.00007
		Propan-2-ol	67-63-0	0.00095	0.00005
		Ethanol	64-17-5	0.00031	0.00002
		Potassium hydroxide	1310-58-3	0.00022	0.00001

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

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

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 31
30S 19W

Kiowa County

Section 32
30S 19W

992' FWL

300' FNL

HUNT 6-1

BHL: 10070'

-99.431871 37.380751

Bottom Perf: 9625'

-99.431772 37.379265

HUNT 6-2

Section 1
31S 20W

Section 6
31S 19W

Comanche County

LOHRDING UNIT 4

Top Perf: 5462'
-99.431875 37.368103
Miss Entry: 5424'
-99.431877 37.368021

MURPHY 3119 3-7H

BROTHERS 3119 3-6H

Section 12
31S 20W

Section 7
31S 19W

MURPHY 3119 2-7H

BROTHERS 3119 1-6H

MURPHY 1-7H



Actual Bottom-Hole Location of Brothers 3119 1-6H
Comanche County, Kansas
T&R: 31S 19W
Section: 6, 992' FWL & 300' FNL
-99.431871 37.380751

1 in = 703 ft

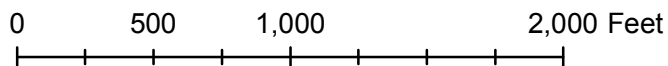


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 6/3/2013

Drawing Name/Number:

Addendum_Brothers_1-6H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 05/21/013 09:28 am	Additional Fluid Mgmt Info: 240 bbls hauled to Weinett Disposal LLC, NW/4 Section 1079 Block 43, Lipscomb, TX, 10-0992
-------------------------------------------	------------------------------------------------------------------------------------------------------------------------

Tiffany Golay 05/15/013 10:48 am	Conductor weight= 94 lbs/ft
-------------------------------------------	-----------------------------

Tiffany Golay 03/12/013 08:20 am	TD= 10,070'
-------------------------------------------	-------------