



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1141438
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: _____



1141438

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Pepper 3419 3-4H
Doc ID	1141438

All Electric Logs Run

Mud Log
Prizm Log Analysis
Porosity
Resistivity
Final BS Depiction

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Pepper 3419 3-4H
Doc ID	1141438

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	10012-10313	1500 gal 15% HCL, 4222 bbls fresh slickwater, 4262 TLTR	
5	9622-9963	1500 gal 15% HCL, 4198 bbls fresh slickwater, 9440 TLTR	
5	9302-9564	1500 gal 15% HCL, 4214 bbls fresh slickwater, 13813 TLTR	
5	8924-9232	1500 gal 15% HCL, 4230 bbls fresh slickwater, 18190 TLTR	
5	8450-8740	1500 gal 15% HCL, 4251 bbls fresh slickwater, 22541 TLTR	
5	8014-8386	1500 gal 15% HCL, 4199 bbls fresh slickwater, 26865 TLTR	
5	7586-7928	1500 gal 15% HCL, 4208 bbls fresh slickwater, 31179 TLTR	
5	7226-7516	1500 gal 15% HCL, 4170 bbls fresh slickwater, 35445 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Pepper 3419 3-4H
Doc ID	1141438

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6824-7126	1500 gal 15% HCL, 4177 bbls fresh slickwater, 35488 TLTR	
5	6324-6702	1500 gal 15% HCL, 4173 bbls fresh slickwater, 43949 TLTR	
5	5852-6206	1500 gal 15% HCL, 4169 bbls fresh slickwater, 48175 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Pepper 3419 3-4H
Doc ID	1141438

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	Basin Services 10 Sack Grout	11	none
Surface	12.25	9.63	36	930	Halliburton Extendacem and Swiftcem Systems	390	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	6130	Halliburton Econocem and Halcem Systems	270	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	10452	Halliburton Econocem System	515	5 lbm Kol-Seal, .25% SA-1015, .2% CFR-3

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 23, 2013

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

Re: ACO1
API 15-033-21710-01-00
Pepper 3419 3-4H
SW/4 Sec.33-33S-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



BASIN SERVICES, LLC
 P O BOX 4268
 ABILENE, TX 79608-4268
 Phone # (325)690-0053
 Fax # (325)698-0055

INVOICE

INVOICE NO.: 161
 INVOICE DATE: 06/17/2013

SANDRIDGE ENERGY
 123 ROBERT S KERR AVE
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK
 LEASE: Pepper
 WELL#: 3419 3-4H
 RIG #: Lariat 41
 Co/St: COMANCHE, KS

Tkt # WY-9-1 04/20/2013

DESCRIPTION	FOOTAGE	QUANTITY	RATE	AMOUNT
4/20/2013 DRILLED 30" CONDUCTOR HOLE				
4/20/2013 20" CONDUCTOR PIPE (.250 WALL)				
4/20/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING				
4/20/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN				
4/20/2013 DRILLED 20" MOUSE HOLE (PER FOOT)				
4/20/2013 16" CONDUCTOR PIPE (.250 WALL)				
4/20/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE				
4/20/2013 WELDING SERVICES FOR PIPE & LIDS				
4/20/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE				
4/20/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)				
4/20/2013 11 YARDS 10 SACK GROUT				11,000.00
4/20/2013 TAXABLE ITEMS				10,250.00
4/20/2013 BID + TAXABLE ITEMS				
			Sub Total:	21,250.00
			Tax COMANCHE COUNTY (6.3 %):	693.00
			PLEASE PAY THIS AMOUNT:	<u>\$ 21,943.00</u>

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MAY 18 2013

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: UNKNOWN	Quote #:	Sales Order #: 900407150
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ..., Louise	
Well Name: Pepper 3419	Well #: 3-4H	API/UWI #: 15-033-21710	
Field:	City (SAP): UNKNOWN	County/Parish: Comanche	State: Kansas
Legal Description: Section 33 Township 33S 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: FRENCH, JEREMY		Srvc Supervisor: WILTSHIRE, MERSHEK	MBU ID Emp #: 195811

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	11.5	267804	ESTRADA, JOSE Corral	11.5	541275	WILTSHIRE, MERSHEK TonJe	11.5	195811

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	Date	Time	Time Zone
Formation Depth (MD) Top Bottom	Called Out	01 - May - 2013	16:00 CST
Form Type BHST	On Location	02 - May - 2013	00:00 CST
Job depth MD 950. ft Job Depth TVD	Job Started	02 - May - 2013	09:02 CST
Water Depth Wk Ht Above Floor	Job Completed	02 - May - 2013	10:02 GMT
Perforation Depth (MD) From To	Departed Loc	02 - May - 2013	11:30 CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12.25" Open Hole				12.25					950.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55		950.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	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

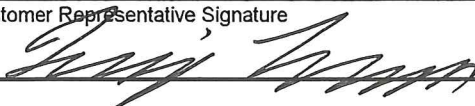
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

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	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	255.0	sacks	12.4	2.11	11.61		11.61
	3 %	CALCIUM CHLORIDE, PELLETT, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.609 Gal	FRESH WATER							
3	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	135.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLETT, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		69.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	42 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature 					

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MAY 16 2013

HALLIBURTON

Cementing Job Summary

REGULATORY DEPT

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2995412	Quote #:	Sales Order #: 900418403
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: ..., Louise	
Well Name: Pepper 3419	Well #: 3-4H	API/UWI #: 15-033-21710	
Field:	City (SAP): PROTECTION	County/Parish: Comanche	State: Kansas
Legal Description: Section 33 Township 33S 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: FRENCH, JEREMY		Srvc Supervisor: RODRIGUEZ, EDGAR MBU ID Emp #: 442125	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
RAMIREZ, JORGE M.	13	498481	RODRIGUEZ, EDGAR Alejandro	13	442125	YANEZ, BENJAMIN	13	538038

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
5/13/2013	13	3.5						
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time Zone
Form Type	Job depth MD	6144. ft	Job Depth TVD	6144. ft	Called Out	10 - May - 2013 03:00 CST
Water Depth	Wk Ht Above Floor	5. ft	Job Started	03 - May - 2013 13:09	CST	
Perforation Depth (MD)	From	To	Job Completed	10 - May - 2013 14:38	CST	
			Departed Loc	10 - May - 2013 16:10	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				900.	6132.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	6132.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	950.		

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	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

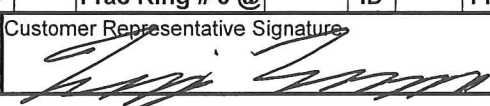
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

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 Water		30.00	bbl	8.33	.0	.0	.0	
2	Lead Cement	ECONOCEM (TM) SYSTEM (452992)	170.0	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	Tail Cement	HALCEM (TM) SYSTEM (452986)	100.0	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		231.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	231	Shut In: Instant		Lost Returns		Cement Slurry	67	Pad	
Top Of Cement	3777	5 Min		Cement Returns		Actual Displacement	231	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	328
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	93.91 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

MAY 28 2013

HALLIBURTON**Cementing Job Summary**

REGULATORY DEPT

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2995412	Quote #:	Sales Order #: 900454606
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Mueller, Justin	
Well Name: Pepper 3419	Well #: 3-4H	API/UWI #: 15-033-21710	
Field:	City (SAP): PROTECTION	County/Parish: Comanche	State: Kansas
Legal Description: Section 33 Township 33S Range 19W			
Contractor: Lariat		Rig/Platform Name/Num: 41	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: FRENCH, JEREMY		Srvc Supervisor: RODRIGUEZ, EDGAR MBU ID Emp #: 442125	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
MENDOZA, VICTOR	7	442596	RAMIREZ, JORGE M.	7	498481	RODRIGUEZ, EDGAR Alejandro	7	442125
YANEZ, BENJAMIN	7	538038						

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
5/22/2013	7	3.5						
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	22 - May - 2013	04:00	CST
Form Type	BHST		Job Started	22 - May - 2013	08:26	CST
Job depth MD	10452. ft	Job Depth TVD	Job Completed	22 - May - 2013	10:11	CST
Water Depth		Wk Ht Above Floor	Departed Loc	22 - May - 2013	11:50	CST
Perforation Depth (MD)	From	To				

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				6132.	10462.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	N-80	5440.	10462.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	6132.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	5440.		

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

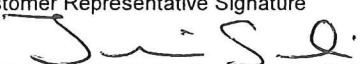
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

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 Water		30.00	bbl	8.5	.0	.0	.0	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	515.0	sacks	13.6	1.51	6.89		6.89
	5 lbm	KOL-SEAL, 50 LB BAG (100064232)							
	0.25 %	SA-1015, 50 LB SACK (102077046)							
	0.2 %	CFR-3, W/O DEFOAMER, 50 LB SK (100003653)							
	6.886 Gal	FRESH WATER							
3	Displacement		129.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement	129	Shut In: Instant		Lost Returns		Cement Slurry	138	Pad	
Top Of Cement	5427	5 Min		Cement Returns		Actual Displacement	129	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	297
Rates									
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	93.43 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 33-T33S-R19W

Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41

Wellbore #1

Design: Wellbore #1

Standard Survey Report

21 May, 2013

Archer Survey Report

Company: Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference: Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41
Project: Comanche County (KS27S)	TVD Reference: WELL @ 2016.0usft (Original Well Elev)
Site: Sec 33-T33S-R19W	MD Reference: WELL @ 2016.0usft (Original Well Elev)
Well: Pepper 3419 3-4H/ Job # 04210-431-22/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 33-T33S-R19W					
Site Position:		Northing:	166,359.00 usft	Latitude:	37° 7' 12.322 N
From: Map		Easting:	1,738,360.00 usft	Longitude:	99° 23' 50.295 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.55 °

Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41					
Well Position	+N/-S	0.0 usft	Northing:	166,555.00 usft	Latitude: 37° 7' 14.375 N
	+E/-W	0.0 usft	Easting:	1,739,578.00 usft	Longitude: 99° 23' 35.281 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 1,996.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/04/17	5.34	65.07	51,674

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	171.73	

Survey Program Date 2013/05/21					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
500.0	930.0	Single Shot MWD Surveys (Wellbore #1)	MWD	MWD - Standard	
964.0	10,452.0	Archer MWD Survey (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	
500.0	2.02	42.20	499.9	6.5	5.9	-5.6	0.40	0.40	0.00	
First Single Shot MWD Survey										
595.0	2.00	42.20	594.8	9.0	8.2	-7.7	0.02	-0.02	0.00	
750.0	1.90	42.20	749.7	12.9	11.7	-11.1	0.06	-0.06	0.00	
930.0	0.87	42.20	929.7	16.1	14.6	-13.9	0.57	-0.57	0.00	
Last Single Shot MWD Survey										
964.0	0.40	42.20	963.7	16.4	14.9	-14.1	1.38	-1.38	0.00	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2016.0usft (Original Well Elev)
Site:	Sec 33-T33S-R19W	MD Reference:	WELL @ 2016.0usft (Original Well Elev)
Well:	Pepper 3419 3-4H/ Job # 04210-431-22/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)
First Archer MWD Survey									
1,229.0	0.30	21.60	1,228.7	17.7	15.8	-15.3	0.06	-0.04	-7.77
1,260.0	0.40	50.90	1,259.7	17.9	15.9	-15.4	0.65	0.32	94.52
1,290.0	1.00	91.80	1,289.7	17.9	16.2	-15.4	2.48	2.00	136.33
1,321.0	1.20	104.80	1,320.7	17.8	16.8	-15.2	1.03	0.65	41.94
1,351.0	1.30	94.40	1,350.7	17.7	17.4	-15.0	0.82	0.33	-34.67
1,381.0	2.30	104.70	1,380.7	17.6	18.4	-14.7	3.49	3.33	34.33
1,412.0	2.80	107.70	1,411.6	17.2	19.7	-14.2	1.67	1.61	9.68
1,442.0	2.90	104.50	1,441.6	16.8	21.1	-13.5	0.63	0.33	-10.67
1,472.0	3.80	106.60	1,471.5	16.3	22.8	-12.8	3.03	3.00	7.00
1,503.0	4.10	108.10	1,502.5	15.6	24.8	-11.9	1.02	0.97	4.84
1,533.0	4.40	108.50	1,532.4	15.0	27.0	-10.9	1.00	1.00	1.33
1,564.0	5.10	113.40	1,563.3	14.0	29.3	-9.7	2.61	2.26	15.81
1,594.0	5.70	116.10	1,593.1	12.8	31.9	-8.1	2.17	2.00	9.00
1,625.0	5.70	114.60	1,624.0	11.5	34.7	-6.4	0.48	0.00	-4.84
1,655.0	5.60	115.30	1,653.8	10.3	37.4	-4.8	0.40	-0.33	2.33
1,686.0	5.30	122.70	1,684.7	8.9	39.9	-3.0	2.46	-0.97	23.87
1,716.0	5.10	127.00	1,714.6	7.3	42.2	-1.2	1.46	-0.67	14.33
1,746.0	4.90	128.10	1,744.5	5.7	44.2	0.7	0.74	-0.67	3.67
1,777.0	4.90	126.50	1,775.4	4.1	46.3	2.6	0.44	0.00	-5.16
1,868.0	4.70	125.30	1,866.0	-0.4	52.5	7.9	0.25	-0.22	-1.32
1,960.0	4.90	124.50	1,957.7	-4.8	58.8	13.2	0.23	0.22	-0.87
2,051.0	5.50	125.30	2,048.3	-9.5	65.6	18.8	0.66	0.66	0.88
2,142.0	5.80	126.70	2,138.9	-14.8	72.8	25.1	0.36	0.33	1.54
2,234.0	5.90	127.30	2,230.4	-20.4	80.3	31.7	0.13	0.11	0.65
2,326.0	6.40	129.30	2,321.9	-26.5	88.1	38.9	0.59	0.54	2.17
2,417.0	5.60	132.50	2,412.4	-32.7	95.3	46.1	0.95	-0.88	3.52
2,508.0	4.30	127.20	2,503.0	-37.8	101.2	52.0	1.51	-1.43	-5.82
2,599.0	3.50	128.20	2,593.8	-41.6	106.1	56.4	0.88	-0.88	1.10
2,690.0	3.40	128.50	2,684.7	-45.0	110.4	60.4	0.11	-0.11	0.33
2,781.0	3.50	128.10	2,775.5	-48.4	114.7	64.4	0.11	0.11	-0.44
2,873.0	2.20	138.20	2,867.4	-51.4	118.1	67.9	1.51	-1.41	10.98
2,964.0	0.80	203.70	2,958.4	-53.3	119.0	69.9	2.20	-1.54	71.98
3,238.0	0.70	227.80	3,232.3	-56.2	117.0	72.4	0.12	-0.04	8.80
3,695.0	0.60	237.20	3,689.3	-59.3	112.9	75.0	0.03	-0.02	2.06
4,152.0	0.90	221.00	4,146.3	-63.3	108.6	78.3	0.08	0.07	-3.54
4,424.0	0.90	178.90	4,418.2	-67.1	107.2	81.8	0.24	0.00	-15.48
4,489.0	1.40	138.10	4,483.2	-68.2	107.8	83.0	1.43	0.77	-62.77
4,519.0	3.20	119.20	4,513.2	-68.9	108.7	83.8	6.43	6.00	-63.00
4,550.0	5.10	119.00	4,544.1	-70.0	110.7	85.2	6.13	6.13	-0.65
4,580.0	6.90	111.70	4,574.0	-71.3	113.5	86.9	6.51	6.00	-24.33
4,611.0	8.70	112.30	4,604.7	-72.9	117.4	89.0	5.81	5.81	1.94

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2016.0usft (Original Well Elev)
Site:	Sec 33-T33S-R19W	MD Reference:	WELL @ 2016.0usft (Original Well Elev)
Well:	Pepper 3419 3-4H/ Job # 04210-431-22/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)	
4,641.0	10.00	111.40	4,634.3	-74.7	122.0	91.4	4.36	4.33	-3.00	
4,671.0	11.50	114.80	4,663.7	-76.9	127.1	94.4	5.43	5.00	11.33	
4,702.0	13.20	116.40	4,694.0	-79.7	133.1	98.1	5.59	5.48	5.16	
4,732.0	15.00	117.30	4,723.1	-83.0	139.6	102.3	6.04	6.00	3.00	
4,763.0	16.80	117.70	4,752.9	-87.0	147.1	107.2	5.82	5.81	1.29	
4,793.0	18.40	117.80	4,781.5	-91.2	155.2	112.6	5.33	5.33	0.33	
4,824.0	20.40	115.80	4,810.8	-95.8	164.3	118.5	6.80	6.45	-6.45	
4,854.0	22.20	115.80	4,838.7	-100.6	174.2	124.6	6.00	6.00	0.00	
4,884.0	24.40	114.40	4,866.3	-105.6	184.9	131.1	7.56	7.33	-4.67	
4,915.0	26.10	113.90	4,894.3	-111.0	197.0	138.2	5.53	5.48	-1.61	
4,945.0	28.00	114.20	4,921.0	-116.6	209.4	145.5	6.35	6.33	1.00	
4,976.0	29.80	115.80	4,948.2	-122.9	223.0	153.7	6.32	5.81	5.16	
5,006.0	31.00	115.90	4,974.0	-129.5	236.7	162.2	4.00	4.00	0.33	
5,037.0	33.10	116.40	5,000.3	-136.8	251.4	171.5	6.83	6.77	1.61	
5,067.0	35.10	115.90	5,025.1	-144.2	266.5	181.0	6.73	6.67	-1.67	
5,098.0	37.40	116.50	5,050.1	-152.3	283.0	191.4	7.51	7.42	1.94	
5,128.0	39.00	116.90	5,073.7	-160.6	299.5	202.0	5.40	5.33	1.33	
5,159.0	41.70	117.40	5,097.3	-169.8	317.4	213.7	8.77	8.71	1.61	
5,189.0	44.90	117.40	5,119.2	-179.2	335.7	225.7	10.67	10.67	0.00	
5,220.0	47.90	118.10	5,140.5	-189.7	355.5	238.9	9.81	9.68	2.26	
5,250.0	49.90	118.70	5,160.3	-200.4	375.4	252.4	6.83	6.67	2.00	
5,281.0	50.20	118.70	5,180.2	-211.9	396.3	266.7	0.97	0.97	0.00	
5,311.0	50.40	119.20	5,199.3	-223.0	416.5	280.6	1.45	0.67	1.67	
5,342.0	51.00	119.00	5,219.0	-234.7	437.4	295.2	2.00	1.94	-0.65	
5,372.0	51.20	119.60	5,237.8	-246.1	457.8	309.4	1.69	0.67	2.00	
5,403.0	51.70	119.50	5,257.1	-258.1	478.9	324.3	1.63	1.61	-0.32	
5,433.0	52.90	120.70	5,275.5	-270.0	499.4	339.0	5.10	4.00	4.00	
5,463.0	56.30	121.30	5,292.8	-282.6	520.4	354.5	11.45	11.33	2.00	
5,494.0	59.60	122.70	5,309.3	-296.5	542.6	371.5	11.31	10.65	4.52	
5,524.0	62.80	125.10	5,323.8	-311.2	564.4	389.1	12.76	10.67	8.00	
5,555.0	65.50	128.50	5,337.3	-327.9	586.8	408.9	13.16	8.71	10.97	
5,585.0	67.10	132.10	5,349.3	-345.7	607.7	429.5	12.21	5.33	12.00	
5,616.0	68.70	134.80	5,361.0	-365.4	628.6	452.0	9.58	5.16	8.71	
5,646.0	69.70	137.30	5,371.6	-385.6	648.0	474.8	8.47	3.33	8.33	
5,677.0	70.00	140.10	5,382.3	-407.5	667.2	499.2	8.53	0.97	9.03	
5,707.0	69.20	143.10	5,392.8	-429.5	684.7	523.5	9.74	-2.67	10.00	
5,737.0	69.40	146.60	5,403.4	-452.4	700.8	548.6	10.93	0.67	11.67	
5,768.0	69.80	149.50	5,414.2	-477.1	716.2	575.2	8.86	1.29	9.35	
5,799.0	70.00	152.60	5,424.9	-502.6	730.3	602.4	9.41	0.65	10.00	
5,829.0	69.90	156.00	5,435.1	-527.9	742.5	629.3	10.65	-0.33	11.33	
5,860.0	70.30	159.30	5,445.7	-554.9	753.6	657.5	10.09	1.29	10.65	
5,890.0	70.60	162.30	5,455.7	-581.6	762.9	685.3	9.48	1.00	10.00	
5,920.0	72.10	165.80	5,465.3	-608.9	770.7	713.5	12.13	5.00	11.67	

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2016.0usft (Original Well Elev)
Site:	Sec 33-T33S-R19W	MD Reference:	WELL @ 2016.0usft (Original Well Elev)
Well:	Pepper 3419 3-4H/ Job # 04210-431-22/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)
5,951.0	72.80	168.50	5,474.7	-637.7	777.3	742.9	8.61	2.26	8.71
5,982.0	73.30	171.60	5,483.7	-666.9	782.4	772.6	9.70	1.61	10.00
6,012.0	74.10	174.70	5,492.1	-695.5	785.8	801.3	10.27	2.67	10.33
6,043.0	75.10	177.90	5,500.4	-725.3	787.8	831.1	10.46	3.23	10.32
6,073.0	76.70	180.60	5,507.7	-754.4	788.1	860.0	10.23	5.33	9.00
6,104.0	78.70	182.90	5,514.3	-784.7	787.2	889.8	9.70	6.45	7.42
6,124.9	79.97	183.18	5,518.2	-805.2	786.1	909.9	6.21	6.07	1.32
Interp @ 5528.7 (Pepper 3419 3-4H/ Job # 04210-431)									
6,188.0	83.80	184.00	5,527.1	-867.5	782.2	971.1	6.21	6.07	1.30
6,218.0	85.80	183.40	5,529.8	-897.4	780.3	1,000.3	6.96	6.67	-2.00
6,249.0	88.30	183.00	5,531.4	-928.3	778.6	1,030.6	8.17	8.06	-1.29
6,279.0	88.80	182.30	5,532.1	-958.2	777.2	1,060.1	2.87	1.67	-2.33
6,309.0	89.50	181.90	5,532.6	-988.2	776.1	1,089.6	2.69	2.33	-1.33
6,340.0	89.80	182.00	5,532.8	-1,019.2	775.0	1,120.1	1.02	0.97	0.32
6,371.0	90.30	182.00	5,532.8	-1,050.2	773.9	1,150.6	1.61	1.61	0.00
6,462.0	89.90	180.90	5,532.6	-1,141.1	771.6	1,240.3	1.29	-0.44	-1.21
6,554.0	90.90	179.40	5,532.0	-1,233.1	771.4	1,331.3	1.96	1.09	-1.63
6,645.0	92.50	178.20	5,529.3	-1,324.1	773.3	1,421.5	2.20	1.76	-1.32
6,736.0	92.50	179.10	5,525.3	-1,414.9	775.4	1,511.8	0.99	0.00	0.99
6,827.0	92.70	179.20	5,521.2	-1,505.8	776.8	1,601.9	0.25	0.22	0.11
6,918.0	92.00	181.40	5,517.4	-1,596.8	776.3	1,691.8	2.54	-0.77	2.42
7,010.0	91.20	183.20	5,514.9	-1,688.6	772.6	1,782.2	2.14	-0.87	1.96
7,101.0	90.20	183.10	5,513.7	-1,779.5	767.6	1,871.4	1.10	-1.10	-0.11
7,192.0	90.50	183.10	5,513.2	-1,870.4	762.7	1,960.6	0.33	0.33	0.00
7,282.0	88.10	181.90	5,514.3	-1,960.3	758.8	2,049.0	2.98	-2.67	-1.33
7,372.0	89.00	181.00	5,516.6	-2,050.2	756.5	2,137.7	1.41	1.00	-1.00
7,463.0	88.70	181.10	5,518.4	-2,141.2	754.8	2,227.5	0.35	-0.33	0.11
7,557.0	89.50	181.10	5,519.9	-2,235.1	753.0	2,320.2	0.85	0.85	0.00
7,652.0	91.10	180.70	5,519.4	-2,330.1	751.5	2,414.0	1.74	1.68	-0.42
7,746.0	90.90	180.10	5,517.7	-2,424.1	750.9	2,506.9	0.67	-0.21	-0.64
7,841.0	89.70	179.20	5,517.2	-2,519.1	751.5	2,601.0	1.58	-1.26	-0.95
7,935.0	90.70	179.30	5,516.9	-2,613.1	752.7	2,694.2	1.07	1.06	0.11
8,030.0	90.20	179.50	5,516.2	-2,708.1	753.7	2,788.3	0.57	-0.53	0.21
8,124.0	91.30	179.40	5,514.9	-2,802.1	754.6	2,881.5	1.18	1.17	-0.11
8,219.0	92.50	179.80	5,511.8	-2,897.0	755.2	2,975.5	1.33	1.26	0.42
8,313.0	89.30	180.80	5,510.3	-2,991.0	754.7	3,068.5	3.57	-3.40	1.06
8,408.0	90.80	180.20	5,510.2	-3,086.0	753.9	3,162.3	1.70	1.58	-0.63
8,502.0	89.40	181.80	5,510.1	-3,180.0	752.3	3,255.1	2.26	-1.49	1.70
8,597.0	90.30	181.20	5,510.3	-3,274.9	749.8	3,348.7	1.14	0.95	-0.63
8,691.0	89.80	181.10	5,510.2	-3,368.9	747.9	3,441.5	0.54	-0.53	-0.11
8,786.0	90.40	181.80	5,510.1	-3,463.9	745.5	3,535.1	0.97	0.63	0.74
8,880.0	90.50	180.90	5,509.3	-3,557.8	743.3	3,627.8	0.96	0.11	-0.96

Archer Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	Local Co-ordinate Reference:	Well Pepper 3419 3-4H/ Job # 04210-431-22/Lariat 41
Project:	Comanche County (KS27S)	TVD Reference:	WELL @ 2016.0usft (Original Well Elev)
Site:	Sec 33-T33S-R19W	MD Reference:	WELL @ 2016.0usft (Original Well Elev)
Well:	Pepper 3419 3-4H/ Job # 04210-431-22/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)	
8,975.0	92.00	180.50	5,507.2	-3,652.8	742.1	3,721.6	1.63	1.58	-0.42	
9,069.0	91.60	180.40	5,504.3	-3,746.8	741.4	3,814.4	0.44	-0.43	-0.11	
9,164.0	90.60	180.00	5,502.5	-3,841.7	741.1	3,908.4	1.13	-1.05	-0.42	
9,258.0	89.30	179.50	5,502.5	-3,935.7	741.5	4,001.5	1.48	-1.38	-0.53	
9,353.0	89.20	179.40	5,503.8	-4,030.7	742.4	4,095.6	0.15	-0.11	-0.11	
9,447.0	90.00	179.40	5,504.4	-4,124.7	743.4	4,188.8	0.85	0.85	0.00	
9,542.0	89.50	179.20	5,504.9	-4,219.7	744.5	4,282.9	0.57	-0.53	-0.21	
9,636.0	90.80	179.20	5,504.6	-4,313.7	745.8	4,376.1	1.38	1.38	0.00	
9,731.0	90.70	179.70	5,503.4	-4,408.7	746.7	4,470.3	0.54	-0.11	0.53	
9,825.0	90.00	179.70	5,502.8	-4,502.7	747.2	4,563.3	0.74	-0.74	0.00	
9,920.0	89.80	180.00	5,503.0	-4,597.7	747.5	4,657.4	0.38	-0.21	0.32	
10,014.0	89.70	180.60	5,503.4	-4,691.7	747.0	4,750.3	0.65	-0.11	0.64	
10,108.0	89.40	179.90	5,504.1	-4,785.7	746.6	4,843.3	0.81	-0.32	-0.74	
10,203.0	90.20	179.60	5,504.4	-4,880.7	747.0	4,937.4	0.90	0.84	-0.32	
10,298.0	91.20	178.90	5,503.3	-4,975.7	748.2	5,031.5	1.28	1.05	-0.74	
10,392.0	92.40	178.90	5,500.3	-5,069.6	750.0	5,124.8	1.28	1.28	0.00	
10,404.0	92.70	179.00	5,499.8	-5,081.6	750.3	5,136.6	2.63	2.50	0.83	
Last Archer MWD Survey										
10,452.0	92.70	179.00	5,497.5	-5,129.5	751.1	5,184.2	0.00	0.00	0.00	
Projection to TD - PBHL Pepper 3-4H										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
500.0	499.9	6.5	5.9	First Single Shot MWD Survey	
930.0	929.7	16.1	14.6	Last Single Shot MWD Survey	
964.0	963.7	16.4	14.9	First Archer MWD Survey	
10,404.0	5,499.8	-5,081.6	750.3	Last Archer MWD Survey	
10,452.0	5,497.5	-5,129.5	751.1	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/29/2013
Job End Date:	7/1/2013
State:	Kansas
County:	Comanche
API Number:	15-033-21710-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Pepper 3419 3-4H
Longitude:	-99.39310000
Latitude:	37.12060000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,497
Total Base Water Volume (gal):	1,955,270
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					
			Polyethylene glycol monoethyl ether	31726-34-8	0.11482		
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	0.00419		
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	0.29768		
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	0.01913		
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	2.68986		
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	0.00023		
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	0.00144		
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	0.00017		
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	0.00846		
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	0.00503		

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	0.00559		
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	0.00216		
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	0.00126		
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	0.22353		
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	0.02794		
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	0.02794		
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	0.00838		
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	0.03249		

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	0.00408		
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	0.00925		
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	0.00004		
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	0.00324		
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	0.00685		
HCL 15, Slickwater, WF105	Schlumberger	Corrosion Inhibitor, Gelling Agent, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01152		
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	0.00726		
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	0.00101		

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	0.00419		
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	0.00696		
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	0.00419		
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					
			Ammonium chloride	12125-02-9	0.13971		
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	96.25531		

* 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 32
33S 19W

Section 33
33S 19W

RACHEL 3319 2-33H RACHEL 3319 1-33H
PEPPER 3419 4-4H PEPPER 3419 3-4H

PEPPER 3419 2-4H

Miss Entry: 5650'

-99.391293 37.119644

Top Perf: 5852'

-99.390925 37.119181

THYME 3419 2-5H

THYME 3419 1-5H

PEPPER 3419 1-4H

SALT SWD 2-4

Comanche County

Section 5
34S 19W

Section 4
34S 19W

Bottom Perf: 10012'
-99.390836 37.10782

BHL: 10452'
-99.390784 37.106618

2010' FWL

320' FSL

Section 8
34S 19W

Section 9
34S 19W



Actual Bottom-Hole Location of Pepper 3419 3-4H
Comanche County, Kansas
T&R: 34S 19W
Section: 4, 2010' FWL & 320' FSL
-99.390784 37.106618

1 in = 899 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 650 1,300 2,600 Feet

Draftsman:

Aaron Birk

Draft Date: 8/7/2013

Drawing Name/Number:

Addendum_Pepper 3419 3-4H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 05/23/013 11:17 am	TD: 10,452 TVD: 5,497
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Tiffany Golay 07/24/013 03:51 pm	Conductor weight= 94 lbs/ft
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Tiffany Golay 08/08/013 06:53 am	Additional Fluid Mgmt Info: 1800 bbls hauled to Weinett Disposal LLC, NW/4 section 1079 Block 43, Lipscomb, TX; 1080 bbls hauled to Guard, Inc, 23-22N-13W, Major, OK
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