

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1150957

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1150957

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 (Attach Additional Sheets)	<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
____ Perforate				
____ Protect Casing				
____ Plug Back TD				
____ 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 (Amount and Kind of Material Used)	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 (Explain) _____

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

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

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Jefferson 3306 1-27H
Doc ID	1150957

All Electric Logs Run

Porosity
Induction
Sidetrack1 Final
Boresight
Prizm Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Jefferson 3306 1-27H
Doc ID	1150957

Tops

Name	Top	Datum
Base Heebner	3173	
Tonkawa	3535	
Cottage Grove	3810	
Oswego Limestone	4133	
Cherokee Group	4242	
Verdigris Limestone	4274	
Mississippi Unconformity	4438	
Mississippi Limestone	4443	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Jefferson 3306 1-27H
Doc ID	1150957

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8530-8760	1500 gals 15% HCL, 4052 bbls Fresh Slickwater, Running TLTR= 4492 bbls	
5	8158-8380	1500 gals 15% HCL, 3877 bbls Fresh Slickwater, Running TLTR= 8568 bbls	
5	7760-8040	1500 gals 15% HCL, 3938 bbls Fresh Slickwater, Running TLTR= 12678 bbls	
5	7308-7634	1500 gals 15% HCL, 3940 bbls Fresh Slickwater, Running TLTR= 16776 bbls	
5	7042-7214	1500 gals 15% HCL, 4040 bbls Fresh Slickwater, Running TLTR= 20972 bbls	
5	6570-6905	1500 gals 15% HCL, 4075 bbls Fresh Slickwater, Running TLTR= 25185 bbls	
5	6233-6430	1500 gals 15% HCL, 2548 bbls Fresh Slickwater, Running TLTR= 27820 bbls	
5	6158-6166	1500 gals 15% HCL, 4057 bbls Fresh Slickwater, Running TLTR= 32001 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Jefferson 3306 1-27H
Doc ID	1150957

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5943-6080	1500 gals 15% HCL, 2518 bbls Fresh Slickwater, Running TLTR= 34625 bbls	
5	5524-5838	1500 gals 15% HCL, 3940 bbls Fresh Slickwater, Running TLTR= 38704 bbls	
5	5188-5443	1500 gals 15% HCL, 4209 bbls Fresh Slickwater, Running TLTR= 42949 bbls	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 09, 2013

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

Re: ACO1
API 15-077-21938-01-00
Jefferson 3306 1-27H
SE/4 Sec.27-33S-06W
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tiffany Golay

Mid-Continent Conductor, LLC

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

Invoice

Date	Invoice #
6/14/2013	1969

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

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Parker Waldrige	Net 45	6/14/2013	Jefferson 3306 1-27H, Harper Cnty, KS	Unit 9

Item	Quantity	Description				
Conductor Hole	90	Drilled 90 ft. conductor hole				
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe				
Mouse Hole	80	Drilled 80 ft. mouse hole				
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe				
Cellar Hole	1	Drilled 6' X 6' cellar hole				
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn				
Mud and Water	1	Furnished mud and water				
Transport Truck - Conductor	1	Transport mud and water to location				
Grout & Trucking	15	Furnished grout and trucking to location				
Grout Pump	1	Furnished grout pump				
Fence Panels	4	Furnished safety netting around conductor holes				
Welder & Materials	1	Furnished welder and materials				
Dirt Removal	1	Furnished labor and equipment for dirt removal				
Cover Plate	1	Furnished cover plates				
Permits	1	Permits				
AFE Number: <u>DC-12981</u>						
Well Name: <u>Jefferson 3306 1-27H</u>						
Code: <u>850-010</u>						
Amount: <u>18,140.00</u>						
Co. Man: <u>Dwayne Burt</u>						
Co. Man Sig.: <u>Dwayne Burt</u>						
Notes: _____						
		<table><tr><td>Subtotal</td><td>\$18,140.00</td></tr><tr><td>Sales Tax (0.0%)</td><td>\$0.00</td></tr></table>	Subtotal	\$18,140.00	Sales Tax (0.0%)	\$0.00
Subtotal	\$18,140.00					
Sales Tax (0.0%)	\$0.00					
		<table><tr><td>Total</td><td>\$18,140.00</td></tr></table>	Total	\$18,140.00		
Total	\$18,140.00					

JOB SUMMARY				PROJECT NUMBER SOK 2807		TICKET DATE 06/23/13	
COUNTY Harper		State Kansas		COMPANY Bridge Exploration & Produc		CUSTOMER REP Dewayne Burt	
LEASE NAME Jefferson 3306		Well No. 1-27H		JOB TYPE Surface		EMPLOYEE NAME Daniel Wells	
EMP NAME							
Daniel Wells		0					
Berry Wallace							
David Settlemier							
Scott Woods							
Form. Name _____ Type: _____							
Packer Type _____ Set At 0		Bottom Hole Temp. 80 Pressure _____		Retainer Depth _____ Total Depth 700'			
Tools and Accessories							
Type and Size		Qty		Make			
Auto Fill Tube		0		IR			
Insert Float Val		0		IR			
Centralizers		0		IR			
Top Plug		1		IR			
HEAD		1		IR			
Limit clamp		0		IR			
Weld-A		0		IR			
Texas Pattern Guide Shoe		0		IR			
Cement Basket		0		IR			
Materials							
Mud Type		WBM Density 9		Lb/Gal			
Disp. Fluid		Fresh Water Density 8.33		Lb/Gal			
Spacer type		Fresh Water BBL. 10		8.33			
Spacer type		BBL. _____					
Acid Type		Gal. _____					
Acid Type		Gal. _____					
Surfactant		Gal. _____					
NE Agent		Gal. _____					
Fluid Loss		Gal/Lb _____					
Gelling Agent		Gal/Lb _____					
Fric. Red.		Gal/Lb _____					
MISC.		Gal/Lb _____					
Perfpac Balls _____		Qty. _____					
Other _____							
Other _____							
Other _____							
Other _____							
Other _____							
Well Data							
Date		Called Out 6/22/2013		On Location 6/22/2013		Job Started 6/23/2013	
Time		0600		0830		0000	
Job Completed 6/22/2013		0100					
Casing		New/Used		Weight 36#		Size Grade 9 5/8"	
Liner		From Surface		To 686.33'		Max. Allow 1,500	
Liner		0					
Tubing		12 1/2"		Surface		681'	
Drill Pipe		Shots/Ft.					
Open Hole		Perforations					
Perforations		Perforations					
Perforations		Perforations					
Hours On Location		Operating Hours		Description of Job			
Date		Date		Surface			
Hours		Hours					
6/22		6/22					
5.0		1.0					
Total		Total					
5.0		1.0					
Pressures							
MAX		1,500 PSI		AVG		150	
MAX		6 BPM		Average Rates in BPM			

JOB SUMMARY			PROJECT NUMBER SOK 2829	TICKET DATE 06/29/13
COUNTY Harper	State Oklahoma	COMPANY Sandridge Exploration & Production	CUSTOMER REP Dwayne Burt	
LEASE NAME Jefferson 3306	Well No. 1-27H	JOB TYPE Intermediate	EMPLOYEE NAME Rickey Stephens	

EMP NAME					
Ricky Stephens	Nate Cotta				
Wesley Truex					
Vontray					
Dustin odom					

Form. Name _____ Type: _____

Packer Type _____ Set At **3,691**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5152**

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	Barite	BBL.	15
Spacer type	BBL.		10.00
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Gelling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Date	Called Out	On Location	Job Started	Job Completed
	6/29/2013	6/29/2013	6/29/2013	6/29/2013
Time	05:00	07:30	10:45	13:30

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		26#	7"		Surface	5,146
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 1/2"		Surface	5,177
Perforations						Shots/Ft.
Perforations						
Perforations						

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
6/29	4.0	6/29	2.0	Intermediate
Total	4.0	Total	2.0	

Pressures

MAX **5,000 PSI** AVG _____

Average Rates in BPM

MAX **8 BPM** AVG _____

Cement Left in Pipe

Feet **86** Reason **SHOE JOINT**

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	220	50/50 POZ PREMIUM	4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P	6.77	1.44	13.60
2	100	Premium	0.4% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary							
Preflush	0	Type:	Caustic	Preflush:	BBI	15.00	Type:
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A	10ppg Barite Spacer
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Pad:Bbl -Gal
		Actual TOC	3.175	Calc. TOC:		3.175	Calc. Disp Bbl
Average		Bump Plug PSI:	1,500	Final Circ.	PSI:	900	Actual Disp.
is: P 1500	5 Min. 1,500	10 Min. 1,500	30 Min. 1,500	Cement Slurry:	BBI	17.4	Disp:Bbl
				Total Volume	BBI	286.40	194.00

CUSTOMER REPRESENTATIVE *Dwayne Burt* SIGNATURE



Standard Wellpath Report
Sandridge
Sec 27 - 33S - 6W, Kansas
Harper County
Wellbore: Jefferson 3306 1-27H (Actual ST)

Wellbore

Name	Created	Last Revised
Jefferson 3306 1-27H (Actual ST)	5-Jul-2013	8-Jul-2013

Well

Name	Government ID	Last Revised
Jefferson 3306 1-27H		19-Jun-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Jefferson 3306 1-27H	172374.0000	2159785.0000	N37 8 19.5976	W97 57 6.7662	180.00N	1245.97W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2161031.0000	172194.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 27 - 33S - 6W	2161031.0000	172194.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

FINAL Surveys:
MD 8865 is a projection to bit @ TD



Standard Wellpath Report
Sandridge
Sec 27 - 33S - 6W, Kansas
Harper County
Wellbore: Jefferson 3306 1-27H (Actual ST)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	2159785.00	172374.00
719.00	0.50	306.600	718.99	1.87N	2.52W	0.07	1.93	2159782.48	172375.87
968.00	0.70	229.800	967.98	1.54N	4.55W	0.31	1.64	2159780.45	172375.54
1244.00	0.70	287.700	1243.96	0.96N	7.45W	0.25	1.13	2159777.55	172374.96
1712.00	0.40	293.300	1711.94	2.48N	11.67W	0.07	2.75	2159773.33	172376.48
2188.00	0.40	350.900	2187.93	4.77N	13.46W	0.08	5.09	2159771.54	172378.77
2663.00	0.20	295.500	2662.93	6.77N	14.47W	0.07	7.10	2159770.53	172380.77
3136.00	0.20	6.700	3135.92	7.94N	15.12W	0.05	8.29	2159769.88	172381.94
3611.00	1.30	133.000	3610.89	5.09N	11.08W	0.30	5.35	2159773.92	172379.09
3643.00	1.40	132.600	3642.88	4.58N	10.53W	0.31	4.82	2159774.47	172378.58
3675.00	1.10	114.400	3674.87	4.19N	9.96W	1.54	4.42	2159775.04	172378.19
3706.00	1.40	46.200	3705.86	4.33N	9.42W	4.59	4.55	2159775.58	172378.33
3738.00	3.50	16.500	3737.83	5.53N	8.86W	7.46	5.74	2159776.14	172379.53
3769.00	5.90	4.900	3768.73	8.03N	8.45W	8.29	8.22	2159776.55	172382.03
3801.00	8.00	3.300	3800.49	11.89N	8.18W	6.59	12.08	2159776.82	172385.89
3832.00	9.50	4.900	3831.13	16.59N	7.84W	4.90	16.77	2159777.16	172390.60
3864.00	11.20	357.300	3862.61	22.33N	7.76W	6.80	22.51	2159777.24	172396.33
3895.00	13.70	355.000	3892.88	29.00N	8.22W	8.22	29.18	2159776.78	172403.00
3927.00	16.40	353.500	3923.78	37.26N	9.06W	8.52	37.46	2159775.94	172411.26
3959.00	19.00	353.300	3954.26	46.92N	10.18W	8.13	47.15	2159774.82	172420.93
3990.00	20.40	354.300	3983.44	57.31N	11.31W	4.65	57.56	2159773.69	172431.31
4022.00	22.50	353.400	4013.23	68.95N	12.57W	6.64	69.22	2159772.43	172442.95
4053.00	24.90	353.100	4041.61	81.32N	14.03W	7.75	81.62	2159770.97	172455.32
4086.00	26.50	353.000	4071.34	95.52N	15.76W	4.85	95.87	2159769.23	172469.53
4118.00	28.70	354.000	4099.70	110.25N	17.44W	7.03	110.63	2159767.56	172484.26
4150.00	30.80	354.400	4127.48	126.05N	19.04W	6.59	126.46	2159765.96	172500.05
4182.00	33.50	354.300	4154.57	142.99N	20.72W	8.44	143.44	2159764.28	172517.00
4213.00	36.30	353.700	4179.99	160.63N	22.57W	9.10	161.11	2159762.42	172534.64
4245.00	38.30	353.400	4205.45	179.90N	24.75W	6.28	180.43	2159760.25	172553.90
4277.00	40.50	353.600	4230.17	200.08N	27.05W	6.89	200.66	2159757.95	172574.08
4308.00	43.20	353.600	4253.26	220.63N	29.36W	8.71	221.26	2159755.64	172594.64
4339.00	46.30	353.700	4275.28	242.32N	31.77W	10.00	242.99	2159753.23	172616.33
4371.00	48.90	354.100	4296.85	265.81N	34.28W	8.18	266.54	2159750.72	172639.82
4402.00	50.80	353.800	4316.84	289.38N	36.78W	6.17	290.15	2159748.22	172663.38
4434.00	52.80	353.900	4336.63	314.38N	39.47W	6.25	315.21	2159745.53	172688.39
4466.00	55.80	354.400	4355.30	340.23N	42.12W	9.46	341.11	2159742.88	172714.23
4498.00	59.90	354.500	4372.32	367.19N	44.74W	12.82	368.13	2159740.26	172741.20
4530.00	63.00	353.900	4387.62	395.15N	47.58W	9.83	396.15	2159737.42	172769.16
4562.00	65.70	354.000	4401.47	423.83N	50.62W	8.44	424.89	2159734.38	172797.84
4593.00	69.00	353.900	4413.40	452.28N	53.63W	10.65	453.40	2159731.36	172826.29
4625.00	72.20	353.700	4424.03	482.28N	56.89W	10.02	483.47	2159728.10	172856.29
4657.00	74.60	353.600	4433.17	512.75N	60.29W	7.51	514.02	2159724.71	172886.77
4688.00	76.90	354.100	4440.80	542.63N	63.50W	7.58	543.96	2159721.49	172916.64
4720.00	79.70	354.500	4447.29	573.80N	66.62W	8.84	575.20	2159718.38	172947.82
4752.00	81.80	354.400	4452.44	605.24N	69.67W	6.57	606.70	2159715.33	172979.25
4784.00	83.80	354.100	4456.45	636.82N	72.85W	6.32	638.35	2159712.15	173010.84
4815.00	86.30	354.000	4459.12	667.54N	76.05W	8.07	669.13	2159708.95	173041.56
4847.00	88.50	354.400	4460.57	699.34N	79.28W	6.99	701.00	2159705.72	173073.36
4878.00	88.90	354.100	4461.28	730.18N	82.39W	1.61	731.90	2159702.61	173104.20
4910.00	89.20	354.100	4461.81	762.00N	85.68W	0.94	763.79	2159699.32	173136.02
4942.00	89.40	354.000	4462.20	793.83N	88.99W	0.70	795.69	2159696.00	173167.85
4974.00	89.40	354.000	4462.53	825.65N	92.34W	==>	827.58	2159692.66	173199.67
5005.00	90.00	353.700	4462.69	856.47N	95.66W	2.16	858.47	2159689.34	173230.49
5037.00	90.70	353.400	4462.50	888.27N	99.25W	2.38	890.34	2159685.74	173262.29
5069.00	90.40	355.200	4462.19	920.11N	102.43W	5.70	922.24	2159682.57	173294.13
5100.00	89.20	357.800	4462.30	951.05N	104.32W	9.24	953.22	2159680.67	173325.07
5130.00	88.20	0.500	4462.98	981.03N	104.77W	9.60	983.21	2159680.23	173355.06
5180.00	88.20	1.300	4464.55	1031.00N	103.98W	1.60	1033.14	2159681.01	173405.03
5272.00	89.10	1.500	4466.72	1122.95N	101.74W	1.00	1125.01	2159683.26	173496.98
5364.00	90.00	0.800	4467.44	1214.92N	99.89W	1.24	1216.92	2159685.11	173588.95
5455.00	89.80	0.400	4467.60	1305.92N	98.94W	0.49	1307.87	2159686.06	173679.95
5547.00	90.40	0.200	4467.44	1397.92N	98.46W	0.69	1399.83	2159686.54	173771.95
5638.00	89.70	359.600	4467.36	1488.92N	98.61W	1.01	1490.81	2159686.38	173862.95
5731.00	90.60	359.300	4467.12	1581.91N	99.51W	1.02	1583.80	2159685.49	173955.95
5822.00	91.10	0.300	4465.77	1672.90N	99.82W	1.23	1674.77	2159685.17	174046.94
5915.00	91.10	359.600	4463.98	1765.88N	99.91W	0.75	1767.73	2159685.09	174139.93
6008.00	90.80	358.800	4462.44	1858.86N	101.20W	0.92	1860.71	2159683.79	174232.90
6103.00	90.40	358.800	4461.44	1953.83N	103.19W	0.42	1955.70	2159681.80	174327.88
6196.00	90.00	358.000	4461.12	2046.79N	105.79W	0.96	2048.70	2159679.21	174420.85
6226.00	86.90	357.800	4461.93	2076.76N	106.89W	10.35	2078.68	2159678.11	174450.81

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Bottom hole distance is 4715.64 Feet on azimuth 358.50 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 8-Jul-2013



Standard Wellpath Report
 Sandridge
 Sec 27 - 33S - 6W, Kansas
 Harper County
 Wellbore: Jefferson 3306 1-27H (Actual ST)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
6256.00	85.00	358.900	4464.05	2106.67N	107.75W	7.31	2108.61	2159677.25	174480.72
6287.00	85.40	358.900	4466.64	2137.55N	108.34W	1.29	2139.50	2159676.65	174511.61
6318.00	85.00	359.700	4469.24	2168.44N	108.72W	2.88	2170.39	2159676.28	174542.50
6348.00	85.20	0.400	4471.80	2198.33N	108.70W	2.42	2200.27	2159676.30	174572.39
6378.00	85.40	0.600	4474.26	2228.23N	108.43W	0.94	2230.15	2159676.56	174602.29
6409.00	85.60	0.600	4476.69	2259.13N	108.11W	0.65	2261.04	2159676.89	174633.19
6470.00	86.20	0.500	4481.05	2319.98N	107.53W	1.00	2321.85	2159677.47	174694.03
6531.00	87.10	0.600	4484.62	2380.87N	106.94W	1.48	2382.71	2159678.05	174754.93
6562.00	87.00	0.700	4486.21	2411.82N	106.59W	0.46	2413.65	2159678.41	174785.89
6625.00	88.90	0.900	4488.47	2474.77N	105.71W	3.03	2476.57	2159679.29	174848.84
6658.00	88.50	1.200	4489.21	2507.76N	105.11W	1.52	2509.53	2159679.89	174881.83
6721.00	90.10	1.200	4489.98	2570.74N	103.79W	2.54	2572.46	2159681.21	174944.81
6753.00	90.50	0.800	4489.82	2602.73N	103.23W	1.77	2604.43	2159681.77	174976.80
6848.00	91.10	0.200	4488.49	2697.72N	102.40W	0.89	2699.37	2159682.60	175071.79
6942.00	89.80	0.700	4487.75	2791.71N	101.66W	1.48	2793.32	2159683.33	175165.78
7037.00	89.40	0.100	4488.41	2886.71N	101.00W	0.76	2888.28	2159684.00	175260.78
7132.00	89.60	0.200	4489.24	2981.70N	100.75W	0.24	2983.24	2159684.25	175355.78
7227.00	89.90	0.200	4489.66	3076.70N	100.42W	0.32	3078.21	2159684.58	175450.78
7322.00	90.50	359.500	4489.33	3171.70N	100.67W	0.97	3173.18	2159684.33	175545.78
7417.00	90.40	359.200	4488.58	3266.69N	101.75W	0.33	3268.17	2159683.25	175640.77
7511.00	90.60	358.500	4487.76	3360.67N	103.63W	0.77	3362.17	2159681.37	175734.75
7607.00	91.00	357.900	4486.42	3456.61N	106.65W	0.75	3458.16	2159678.35	175830.70
7702.00	90.40	358.900	4485.26	3551.56N	109.30W	1.23	3553.15	2159675.70	175925.66
7798.00	91.00	0.200	4484.09	3647.55N	110.05W	1.49	3649.13	2159674.94	176021.65
7893.00	91.30	0.500	4482.18	3742.53N	109.47W	0.45	3744.07	2159675.52	176116.63
7987.00	92.20	0.500	4479.31	3836.48N	108.65W	0.96	3837.97	2159676.34	176210.58
8082.00	92.00	359.900	4475.83	3931.42N	108.32W	0.67	3932.87	2159676.68	176305.52
8177.00	92.00	0.100	4472.51	4026.36N	108.32W	0.21	4027.79	2159676.68	176400.46
8272.00	91.40	359.400	4469.69	4121.32N	108.74W	0.97	4122.73	2159676.26	176495.42
8366.00	91.60	358.600	4467.23	4215.27N	110.38W	0.88	4216.70	2159674.62	176589.38
8462.00	89.80	359.300	4466.06	4311.24N	112.13W	2.01	4312.68	2159672.86	176685.35
8493.00	90.10	359.500	4466.09	4342.24N	112.46W	1.16	4343.68	2159672.54	176716.35
8557.00	89.70	358.400	4466.20	4406.23N	113.63W	1.83	4407.68	2159671.36	176780.34
8652.00	91.00	358.800	4465.62	4501.19N	115.95W	1.43	4502.67	2159669.04	176875.31
8747.00	91.20	358.100	4463.80	4596.14N	118.52W	0.77	4597.66	2159666.47	176970.26
8819.00	90.20	357.200	4462.92	4668.07N	121.47W	1.87	4669.64	2159663.52	177042.19
8865.00	90.20	357.200	4462.76	4714.02N	123.72W	==>	4715.62	2159661.28	177088.14

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 Vertical Section is from 0.00N 0.00E on azimuth 358.670 degrees
 Bottom hole distance is 4715.64 Feet on azimuth 358.50 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 8-Jul-2013



Standard Wellpath Report
Sandridge
Sec 27 - 33S - 6W, Kansas
Harper County
Wellbore: Jefferson 3306 1-27H (Actual ST)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
8865.00	4462.76	4714.02N	123.72W	Projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Jefferson 3306 1-27H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 358.670 degrees
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Date Printed: 8-Jul-2013

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/24/2013
Job End Date:	7/27/2013
State:	Kansas
County:	Harper
API Number:	15-077-21938-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Jefferson 3306 1-27H
Longitude:	-97.95180000
Latitude:	37.13870000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,463
Total Base Water Volume (gal):	1,744,277
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.29985		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00428		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00571		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00700		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00103		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01087		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00857		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02064		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1- phenylethanone	68527-49-1	0.00657		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00742		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00129		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00306		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.03367		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00428		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00958		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	95.98930		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02856		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.94121		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02856		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00798		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.11751		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.22846		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethanol, 2,2',2''-nitrilotris-, 1,1',1''-tris(dihydrogen phosphate), sodium salt	68171-29-9	0.07660		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00515		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14279		

HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00136		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00024		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00428		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00204		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			

* 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 22
33S 6W

Section 23
33S 6W

317' FNL

1309' FEL

BHL: 8865'
-97.952544 37.151745

Bottom Perf: 8530'
-97.952516 37.1509

BIRCHENOUGH 2

Harper County

Section 27
33S 6W

Section 26
33S 6W

BIRCHENOUGH 4

BIRCHENOUGH 1

MEINEKE 4-26

Top Perf: 5188'
-97.952551 37.14163

LUDEMAN 1 LUDEMAN 2

BIRCHENOUGH 3

BIRCHENOUGH 5

MEINEKE SWD 3

Miss Entry: '4679
-97.952422 37.140288

JEFFERSON 3306 1-27H



Actual Bottom-Hole Location of Jefferson 3306 1-27H

Harper County, Kansas

T&R: 35S 10W

Section: 27, 1309' FEL & 317' FNL

-97.952544 37.151745

1 in = 667 ft

● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet



Draftsman:

Aaron Birk

Draft Date: 9/20/2013

Drawing Name/Number:

Addendum_Jefferson 3306 1-27H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 09/16/013 12:58 pm	well is shut in- waiting on SWD
Tiffany Golay 09/17/013 07:13 am	Conductor weight= 94 lb/ft
Tiffany Golay 09/17/013 07:11 am	Well completed using an open hole packer system; no liner cemented