Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1107517

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 34464
Name: Lariat Services, Inc.
Wellsite Geologist: Joe Hileman
Purchaser: DCP Midstream, LP (gas) NCRA (oil)

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 #:

12/18/2012	1/9/2013	2/8/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-033-21623-01-00
Spot Description:
S2 - S2 - SW - SW Sec. 5 Twp. 31 S. R. 19 ☐ East ☑ West
200 Feet from ☐ North / ☑ South Line of Section
660 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Comanche
Lease Name: Leroy 3119 Well #: 1-5H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 2114 Kelly Bushing: 2133
Total Vertical Depth: 9509 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 962 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: 15000 ppm Fluid volume: 4160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Guard Inc.
Lease Name: Unnamed License #: 99999
Quarter SW Sec. 23 Twp. 22 S. R. 13 ☐ East ☑ West
County: Major, OK Permit #: 342682

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: 04/15/2013
☑ **Confidential Release Date:** 04/15/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/16/2013

1107517

Operator Name: SandRidge Exploration and Production LLC Lease Name: Leroy 3119 Well #: 1-5H

Sec. 5 Twp. 31 S. R. 19 ☐ East ☑ West County: Comanche

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner Shale Marker	4182	
Lansing Ls/Shale Group	4375	
Oswego Ls Group	4876	
Cherokee Shale Marker	4939	
Mississippi Unconformity	5029	
Mississippi 'Solid'	5045	

CASING RECORD ☑ New ☐ 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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
Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 2/11/2013

Producing Method: ☐ Flowing ☐ Pumping ☑ Gas Lift ☐ Other *(Explain)* _____

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

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Leroy 3119 1-5H
Doc ID	1107517

All Electric Logs Run

Density
Induction
Mud Log
Final Boresight

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Leroy 3119 1-5H
Doc ID	1107517

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9152-9390	5552 bbls water, 36 bbls acid, 100M lbs sd, 5596 TLTR	
5	8626-8889	5546 bbls water, 36 bbls acid, 100M lbs sd, 11308 TLTR	
5	8196-8568	5539 bbls water, 36 bbls acid, 100M lbs sd, 17040 TLTR	
5	7814-8139	5533 bbls water, 36 bbls acid, 100M lbs sd, 22790 TLTR	
5	7406-7758	5527 bbls water, 36 bbls acid, 100M lbs sd, 29084 TLTR	
5	6968-7331	5520 bbls water, 36 bbls acid, 100M lbs sd, 34922 TLTR	
5	6552-6902	5513 bbls water, 36 bbls acid, 100M lbs sd, 40513 TLTR	
5	6150-6475	5507 bbls water, 35 bbls acid, 100M lbs sd, 46170 TLTR	
5	5786-6082	5502 bbls water, 36 bbls acid, 100M lbs sd, 51966 TLTR	
5	5312-5646	5494 bbls water, 36 bbls acid, 100M lbs sd, 57979 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Leroy 3119 1-5H
Doc ID	1107517

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	14	none
Surface	12.25	9.63	36	962	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	940	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5495	50/50 Poz Premium/ Premium	210	4% gel, .4% C12, .1% C37, .5% C41P, 2 lb/sk Phenoseal
Production Liner	6.12	4.5	11.6	9495	50/50 Premium Poz	470	4% gel, .4% C12, .1% C37, .5% C41P, 2 lb/sk Phenoseal

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

Kansas
Corporation Commission

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

January 10, 2013

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

Re: ACO1
API 15-033-21623-01-00
Leroy 3119 1-5H
SW/4 Sec.05-31S-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

PRO OILFIELD SERVICES, LLC

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 : 3725
Delivery Date : 1/3/2013
Office : 12/1/1901

Ordered By :
Lease/Well : LEROY 1-5H
Rig Name/Number : LARIAT 38
AFE Number :
Site Contact :
:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	LEROY 1-5H	$24,750.00	$0.00	$24,750.00	12/18/2012 12/18/2012	$24,750.00
120	DRILLED 30" CONDUCTOR HOLE	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
120	20" CONDUCTOR PIPE (.250 WALL)	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
75	16" CONDUCTOR PIPE (.375 WALL)	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	WELDING SERVICES FOR PIPE & LIDS	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
14	CEMENT 10 SACK GROUT	$0.00	$0.00	$0.00	12/18/2012 12/18/2012	
	Sub Total:	$24,750.00	$0.00			$24,750.00

Print Name

Signature

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 2252	12/23/12

COUNTY	State	COMPANY	CUSTOMER REP
COMANCHE	KANSAS	SANDRIDGE ENERGY	FELIX ORTIZ

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
LEROY	3119 1-5H	Surface	Matt Wilson

EMP NAME							
Matt Wilson		Dustin Odum		D. TEWELL			
Jared Green		LOUIS ARNEY		G. WOMACK			
David Thomas		J. JONES					
Wallace Berry		M. QUINTANA					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 1000

	Called Out	On Location	Job Started	Job Completed
Date	12/23/2012	12/23/2012	12/23/2012	12/25/2012
Time	1:30 pm	6:00 pm	21:35	11:00

Tools and Accessories

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

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		36#	9 5/8"	Surface	967	1,500
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"	Surface	962	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density	9	Lb/Gal	
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal	
Spacer type	resh Wate	BBL.	10	8.33	
Spacer type		BBL.			
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					
Other					

Hours On Location

Date	Hours
12/23	6.0
12/24	24.0
12/25	11.0
Total	41.0

Operating Hours

Date	Hours
12/23	1.3
12/24	4.0
12/25	6.0
Total	11.3

Description of Job

Surface

Pressures

MAX 1,500 PSI AVG. 200

Average Rates in BPM

MAX 6 BPM AVG 4

Cement Left in Pipe

Feet 47 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	380	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	160	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	400	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary

Preflush		Type:		Preflush:	BBl	10.00	Type: Fresh Water
Breakdown		MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl		Calc.Disp Bbl 71
		Actual TOC	SURFACE	Calc. TOC:		SURFACE	Actual Disp. 71.00
Average		Bump Plug PSI:		Final Circ.	PSI:		Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	162.0	
				Total Volume	BBl	243.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 2285	01/02/13

COUNTY	State	COMPANY	CUSTOMER REP
Comanche	Kansas	Sandridge Exploration & Production	Roger Barber

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Leroy 3119	1-5H	Intermediate	LOUIS ARNEY

EMP NAME							
L. ARNEY		0					
M. QUINTANA							
G. WOMACK							
D. TEWELL							

Form. Name _____ Type: _____

Packer Type _____ Set At 4,150'

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5,495'

	Called Out	On Location	Job Started	Job Completed
Date	1/2/2013	1/2/2013	1/3/2013	1/3/2013
Time	10:00	18:30	7:30	9:30

Tools and Accessories

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

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		26#	7"	Surface		5,000
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"	Surface	5,495'	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 20		8.33
Spacer type	Caustic	BBL. 10		8.40
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

Other

Hours On Location

Date	Hours
1/2	6.0
1/3	9.0
Total	15.0

Operating Hours

Date	Hours
1/3	0.0
1/3	2.0
Total	2.0

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 500

Average Rates in BPM

MAX 8 BPM AVG 5

Cement Left in Pipe

Feet 90.25' Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	110	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	10	Type:	Caustic	Preflush:	BBl	30.00	Type: WEIGHTED SP.
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 207
		Actual TOC		Calc. TOC:		3788'	Actual Disp. 205.00
Average		Bump Plug PSI:	1,500	Final Circ.	PSI:	900	Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	49.0	
				Total Volume	BBl	284.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 2314	01/10/13

COUNTY	State	COMPANY	CUSTOMER REP
Comanche	Kansas	dridge Exploration & Produc	Roger Barber

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Leroy 3119	1-5H	Liner	Robert Burris

EMP NAME							
Robert Burris		0.00					
Emmit Brock							
Rocky Anthis							
Frank Reeves							

Form. Name _____ Type: _____

Packer Type _____ Set At 5,495
Bottom Hole Temp. 150 Pressure _____
Retainer Depth _____ Total Depth 9509

	Called Out	On Location	Job Started	Job Completed
Date	1/10/2013	1/10/2013	1/11/2013	1/11/2013
Time	15:00	18:00	24:58	03:15

Tools and Accessories

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

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		11.6	4 1/2	5136	9,509	
Liner Tool						
HWDP				3,849	5,136	
Drill Pipe			3 1/2"	Surface	3,849	
Drill Collars						
Open Hole			6 1/8"	Surface	9,509	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density	9.1	Lb/Gal	
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal	
Spacer type	Gel	BBL.	30		8.60
Spacer type		BBL.			
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					
Other					

Hours On Location

Date	Hours
1/10	9.2
Total	9.2

Operating Hours

Date	Hours
1/11	1.5
Total	1.5

Description of Job

Liner

Pressures

MAX	3,500 PSI	AVG.	1175

Average Rates in BPM

MAX	6 BPM	AVG	4

Cement Left in Pipe

Feet	92	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	470	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0	0	0.00	0.00	0.00
3	0	0	0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush: BBl	30.00
Breakdown		MAXIMUM	3,500 PSI	Load & Bkdn: Gal - BBl	N/A
		Lost Returns-N	NO/FULL	Excess /Return BBl	N/A
		Actual TOC	4,634	Calc. TOC:	4,634
Average		Bump Plug PSI:	2,250	Final Circ. PSI:	1,150
ISIP	5 Min.	10 Min	15 Min	Cement Slurry: BBl	120.5
				Total Volume BBl	265.54

Type: 8.59#SPACER
Pad:Bbl -Gal N/A
Calc.Disp Bbl 115
Actual Disp. 115.00
Disp:Bbl

CUSTOMER REPRESENTATIVE _____
SIGNATURE

SandRidge ENERGY

Actual Wellpath Report

BAKER HUGHES

Sandridge Leroy 3119 1-5H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Leroy 3119 1-5H SL 200FSL,660FWL**
Area	**Kansas**	Well	**Subject**
Field	**Comanche County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Leroy 3119 1-5H SL 200FSL,660FWL Actual**
Facility	**Leroy 3119 1-5H Sec5-31S-19W**		

WELLPATH DATA (102 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
0.00	0.000	215.060	0.00	0.00	0.00	0.00	1733960.00	256583.00	0.00	
19.60	0.000	215.060	19.60	0.00	0.00	0.00	1733960.00	256583.00	0.00	
249.00	0.900	215.060	248.99	-1.51	-1.47	-1.03	1733958.97	256581.53	0.39	
497.00	0.800	215.060	496.96	-4.58	-4.49	-3.15	1733956.85	256578.51	0.04	
742.00	0.600	215.060	741.94	-7.09	-6.94	-4.87	1733955.13	256576.06	0.08	
1005.00	0.260	215.060	1004.94	-8.74	-8.55	-6.00	1733954.00	256574.45	0.13	
1250.00	0.320	163.260	1249.93	-9.85	-9.66	-6.12	1733953.88	256573.34	0.11	
1722.00	0.770	258.090	1721.92	-11.85	-11.58	-8.85	1733951.15	256571.42	0.18	
2198.00	0.340	247.050	2197.89	-13.20	-12.79	-13.28	1733946.72	256570.21	0.09	
2673.00	1.010	256.300	2672.86	-14.91	-14.33	-18.64	1733941.36	256568.67	0.14	
3147.00	1.100	270.580	3146.78	-16.13	-15.27	-27.25	1733932.75	256567.73	0.06	
3622.00	1.060	242.960	3621.70	-18.35	-17.23	-35.72	1733924.28	256565.78	0.11	
4097.00	1.070	249.070	4096.62	-22.18	-20.81	-43.78	1733916.22	256562.19	0.02	
4128.00	0.950	257.040	4127.61	-22.36	-20.97	-44.30	1733915.70	256562.03	0.60	
4159.00	1.590	235.540	4158.60	-22.68	-21.27	-44.91	1733915.10	256561.73	2.54	
4191.00	1.540	260.470	4190.59	-23.02	-21.59	-45.70	1733914.31	256561.41	2.12	
4223.00	2.860	346.150	4222.57	-22.34	-20.89	-46.31	1733913.69	256562.11	9.83	
4254.00	4.950	22.910	4253.51	-20.35	-18.90	-45.97	1733914.03	256564.10	10.20	
4286.00	6.740	41.480	4285.34	-17.61	-16.23	-44.19	1733915.81	256566.78	8.07	
4318.00	7.050	38.500	4317.11	-14.59	-13.28	-41.73	1733918.27	256569.72	1.48	
4349.00	9.690	30.710	4347.78	-10.78	-9.55	-39.21	1733920.79	256573.45	9.25	
4381.00	12.570	26.220	4379.17	-5.25	-4.11	-36.30	1733923.71	256578.89	9.39	
4413.00	15.500	23.540	4410.21	1.89	2.94	-33.05	1733926.95	256585.94	9.38	
4444.00	16.990	20.620	4439.98	10.03	10.97	-29.80	1733930.20	256593.97	5.48	
4476.00	18.630	16.850	4470.44	19.39	20.24	-26.67	1733933.33	256603.24	6.26	
4508.00	21.430	12.980	4500.51	30.06	30.83	-23.88	1733936.13	256613.83	9.68	
4539.00	24.000	11.160	4529.10	41.84	42.54	-21.38	1733938.62	256625.54	8.59	
4571.00	26.040	9.680	4558.10	55.22	55.85	-18.94	1733941.06	256638.85	6.67	
4603.00	28.490	7.430	4586.54	69.78	70.34	-16.77	1733943.23	256653.34	8.30	
4635.00	30.460	4.460	4614.40	85.48	86.00	-15.16	1733944.84	256669.00	7.66	
4666.00	33.240	2.900	4640.73	101.83	102.32	-14.11	1733945.89	256685.32	9.35	
4698.00	35.800	2.630	4667.09	119.96	120.44	-13.24	1733946.76	256703.43	8.01	
4714.00	36.471	2.284	4680.01	129.39	129.86	-12.84	1733947.16	256712.86	4.38	**Hardline Cross 4714MD(4680TVD) 330FSL,643FWL**
4729.00	37.100	1.970	4692.03	138.37	138.84	-12.50	1733947.50	256721.83	4.38	
4761.00	39.000	1.570	4717.22	158.10	158.55	-11.90	1733948.10	256741.55	5.99	
4793.00	41.540	1.180	4741.64	178.78	179.23	-11.40	1733948.60	256762.22	7.98	
4824.00	44.160	1.200	4764.36	199.86	200.30	-10.96	1733949.04	256783.30	8.45	
4856.00	45.830	1.120	4786.99	222.48	222.92	-10.51	1733949.49	256805.92	5.22	
4888.00	47.640	1.390	4808.92	245.78	246.22	-9.99	1733950.01	256829.21	5.69	
4919.00	49.590	0.970	4829.42	269.04	269.47	-9.52	1733950.48	256852.47	6.37	
4951.00	50.520	0.940	4849.96	293.57	294.00	-9.11	1733950.89	256877.00	2.91	
4983.00	50.730	1.080	4870.26	318.30	318.73	-8.67	1733951.33	256901.73	0.74	
5014.00	51.280	0.570	4889.77	342.39	342.82	-8.33	1733951.67	256925.82	2.19	
5046.00	51.430	359.720	4909.75	367.37	367.82	-8.26	1733951.74	256950.81	2.13	
5078.00	51.810	359.590	4929.62	392.44	392.90	-8.41	1733951.59	256975.89	1.23	

SandRidge ENERGY

Actual Wellpath Report

BAKER HUGHES

Sandridge Leroy 3119 1-5H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Leroy 3119 1-5H SL 200FSL,660FWL**
Area	**Kansas**	Well	**Subject**
Field	**Comanche County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Leroy 3119 1-5H SL 200FSL,660FWL Actual**
Facility	**Leroy 3119 1-5H Sec5-31S-19W**		

WELLPATH DATA (102 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
5109.00	52.050	0.030	4948.74	416.83	417.31	-8.49	1733951.51	257000.30	1.36	
5141.00	52.930	0.130	4968.22	442.20	442.69	-8.46	1733951.54	257025.68	2.76	
5173.00	55.510	0.820	4986.93	468.15	468.65	-8.24	1733951.76	257051.64	8.25	
5204.00	57.210	0.070	5004.10	493.95	494.45	-8.04	1733951.96	257077.44	5.84	
5236.00	59.030	359.530	5021.00	521.11	521.62	-8.14	1733951.86	257104.61	5.87	
5268.00	61.460	0.020	5036.88	548.87	549.40	-8.25	1733951.75	257132.39	7.71	
5299.00	64.100	1.340	5051.06	576.43	576.97	-7.92	1733952.09	257159.95	9.32	
5331.00	67.590	2.530	5064.15	605.62	606.14	-6.93	1733953.07	257189.13	11.42	
5363.00	72.280	3.960	5075.13	635.66	636.14	-5.22	1733954.78	257219.13	15.25	
5394.00	76.790	5.390	5083.39	665.49	665.91	-2.78	1733957.22	257248.90	15.21	
5426.00	80.620	5.290	5089.66	696.80	697.15	0.14	1733960.14	257280.13	11.97	
5450.00	84.700	5.770	5092.73	720.55	720.84	2.43	1733962.43	257303.82	17.12	
5519.00	88.240	6.610	5096.97	789.21	789.29	9.86	1733969.86	257372.28	5.27	
5581.00	88.800	6.150	5098.58	850.99	850.89	16.75	1733976.75	257433.87	1.17	
5642.00	89.780	5.610	5099.33	911.83	911.56	22.99	1733982.99	257494.54	1.83	
5734.00	90.590	3.980	5099.03	1003.70	1003.23	30.68	1733990.68	257586.21	1.98	
5826.00	90.520	4.170	5098.14	1095.63	1095.00	37.22	1733997.22	257677.97	0.22	
5918.00	90.490	2.350	5097.33	1187.59	1186.84	42.45	1734002.45	257769.82	1.98	
6010.00	90.490	3.000	5096.55	1279.58	1278.74	46.75	1734006.75	257861.71	0.71	
6102.00	90.220	1.720	5095.98	1371.57	1370.66	50.54	1734010.53	257953.63	1.42	
6194.00	90.890	2.480	5095.08	1463.56	1462.59	53.91	1734013.91	258045.56	1.10	
6286.00	90.520	1.590	5093.95	1555.55	1554.52	57.17	1734017.17	258137.49	1.05	
6378.00	90.550	2.020	5093.09	1647.55	1646.47	60.07	1734020.07	258229.44	0.47	
6469.00	90.990	2.370	5091.87	1738.54	1737.40	63.56	1734023.55	258320.36	0.62	
6561.00	90.950	0.950	5090.31	1830.52	1829.34	66.22	1734026.22	258412.31	1.54	
6656.00	90.490	0.740	5089.12	1925.50	1924.32	67.62	1734027.62	258507.29	0.53	
6751.00	90.830	0.620	5088.03	2020.48	2019.31	68.75	1734028.75	258602.27	0.38	
6846.00	89.780	1.770	5087.52	2115.47	2114.29	70.73	1734030.73	258697.24	1.64	
6941.00	89.290	0.970	5088.29	2210.46	2209.25	73.00	1734033.00	258792.21	0.99	
7036.00	89.720	0.730	5089.11	2305.44	2304.24	74.41	1734034.41	258887.19	0.52	
7131.00	90.340	2.620	5089.06	2400.44	2399.20	77.19	1734037.19	258982.15	2.09	
7226.00	89.720	2.740	5089.01	2495.42	2494.09	81.63	1734041.63	259077.04	0.66	
7321.00	90.030	1.840	5089.22	2590.42	2589.01	85.42	1734045.42	259171.96	1.00	
7416.00	90.550	1.700	5088.74	2685.42	2683.97	88.36	1734048.36	259266.91	0.57	
7511.00	91.260	0.720	5087.24	2780.40	2778.93	90.36	1734050.36	259361.88	1.27	
7606.00	91.450	359.990	5084.99	2875.34	2873.90	90.95	1734050.95	259456.84	0.79	
7701.00	90.550	1.130	5083.33	2970.30	2968.88	91.88	1734051.88	259551.82	1.53	
7796.00	91.020	2.400	5082.03	3065.29	3063.82	94.81	1734054.81	259646.76	1.43	
7891.00	92.250	2.650	5079.32	3160.24	3158.69	98.99	1734058.99	259741.63	1.32	
7986.00	91.660	2.580	5076.08	3255.18	3253.54	103.32	1734063.32	259836.47	0.63	
8081.00	90.650	1.910	5074.17	3350.15	3348.44	107.04	1734067.04	259931.38	1.28	
8176.00	89.290	1.820	5074.21	3445.15	3443.39	110.13	1734070.13	260026.32	1.43	
8271.00	89.850	1.900	5074.93	3540.15	3538.34	113.22	1734073.22	260121.27	0.60	
8366.00	88.740	1.620	5076.10	3635.14	3633.28	116.14	1734076.13	260216.21	1.21	
8461.00	89.200	1.410	5077.80	3730.12	3728.24	118.65	1734078.64	260311.16	0.53	

Actual Wellpath Report

Sandridge Leroy 3119 1-5H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Leroy 3119 1-5H SL 200FSL,660FWL**
Area	**Kansas**	Well	**Subject**
Field	**Comanche County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Leroy 3119 1-5H SL 200FSL,660FWL Actual**
Facility	**Leroy 3119 1-5H Sec5-31S-19W**		

WELLPATH DATA (102 stations)

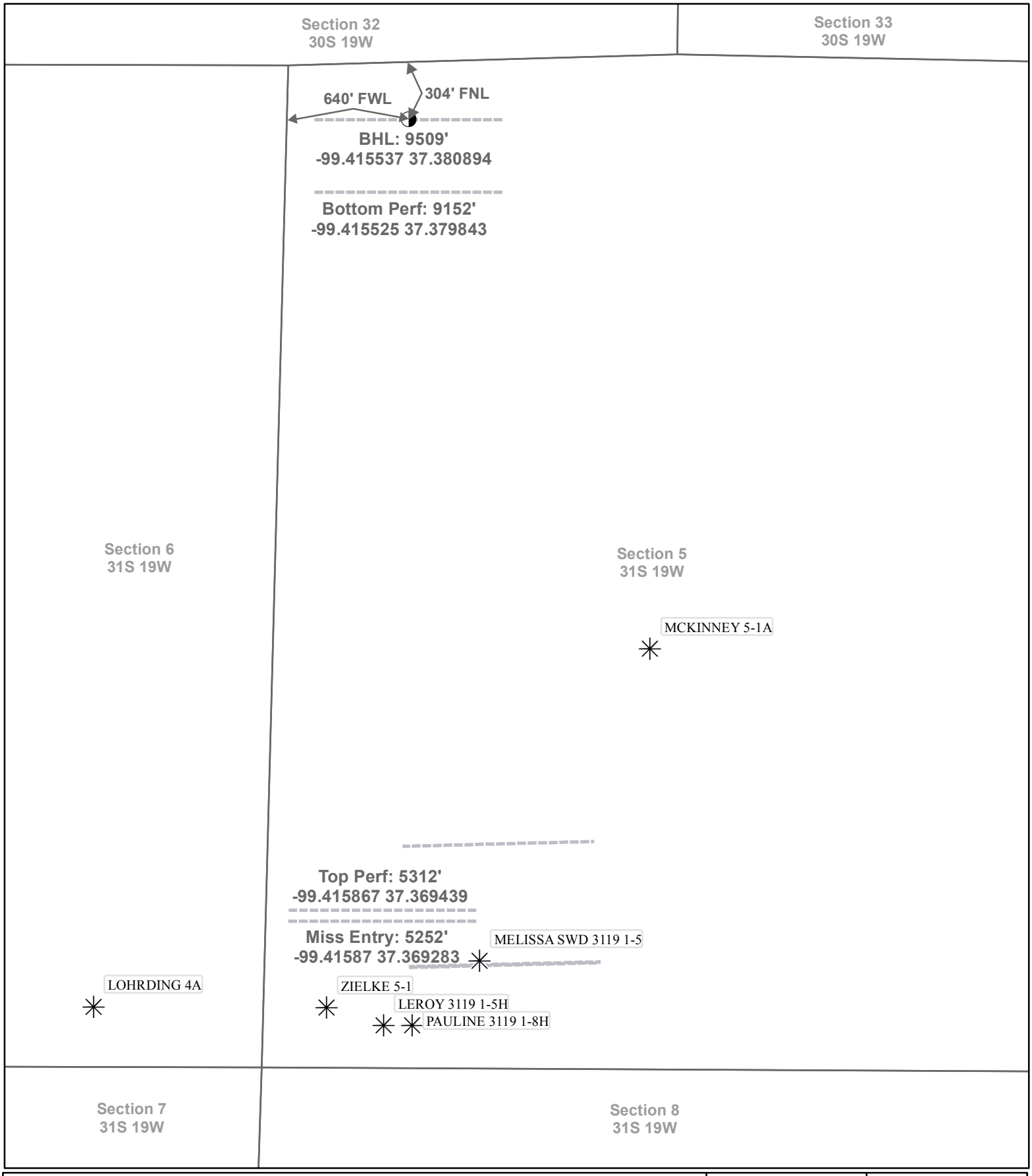
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Log Comment
8556.00	89.840	1.980	5078.60	3825.12	3823.19	121.46	1734081.45	260406.11	0.90	
8651.00	90.250	1.240	5078.53	3920.12	3918.15	124.13	1734084.12	260501.07	0.89	
8746.00	90.180	1.600	5078.17	4015.11	4013.12	126.48	1734086.48	260596.04	0.39	
8841.00	90.860	1.670	5077.31	4110.11	4108.08	129.19	1734089.19	260690.99	0.72	
8936.00	90.590	0.320	5076.10	4205.09	4203.05	130.84	1734090.84	260785.97	1.45	
9031.00	90.990	359.410	5074.80	4300.02	4298.04	130.62	1734090.61	260880.96	1.05	
9126.00	91.050	359.570	5073.10	4394.93	4393.02	129.77	1734089.77	260975.94	0.18	
9221.00	91.140	0.040	5071.29	4489.86	4488.01	129.45	1734089.44	261070.92	0.50	
9316.00	90.430	0.040	5069.99	4584.80	4583.00	129.51	1734089.51	261165.90	0.75	
9411.00	90.680	0.090	5069.07	4679.75	4677.99	129.62	1734089.62	261260.90	0.27	
9450.00	90.990	0.210	5068.50	4718.73	4716.99	129.72	1734089.72	261299.89	0.85	
9509.00	90.990	0.210	5067.48	4777.70	4775.98	129.94	1734089.94	261358.88	0.00	**BHL 9509MD(5067TVD) 330FNL,639FWL**

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Leroy 3119 1-5H PBHL		5074.87	4776.00	151.00	1734111.00	261358.90	37°22'51.151"N	99°24'54.262"W	point

WELLPATH COMPOSITION - Ref Wellbore: Leroy 3119 1-5H SL 200FSL,660FWL Actual Ref Wellpath: AWP-Final

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.60	9450.00	OnTrak (Standard)	Inteq OnTrak	Leroy 3119 1-5H SL 200FSL,660FWL Actual
9450.00	9509.00	Blind Drilling (std)	Projection to bit	Leroy 3119 1-5H SL 200FSL,660FWL Actual



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Leroy 3119 1-5H
Comanche County, Kansas
T&R: 31S 19W
Section: 5, 640' FWL & 304' FNL
Long/Lat:-99.415537 37.380894

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 4/9/2013
Drawing Name/Number: Addendum_Leroy_1-5H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	**2/5/2013**
State:	**Kansas**
County:	**Comanche**
API Number:	**15-033-21623**
Operator Name:	**SandRidge Expl. And Prod., LLC**
Well Name and Number:	**Leroy 3119 1-5H**
Longitude:	**-99.4154**
Latitude:	**37.3677**
Long/Lat Projection:	**NAD27**
Production Type:	**Oil**
True Vertical Depth (TVD):	**5,097**
Total Water Volume (gal)*:	**2,384,928**

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
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)*	-		95.26654%	
			Crystalline silica	14808-60-7	96.61063%	4.57303%	
			Hydrochloric acid	7647-01-0	2.17627%	0.10301%	
			Methanol	67-56-1	0.35475%	0.01679%	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.33583%	0.01590%	
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.25722%	0.01218%	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.25722%	0.01218%	
			Ammonium chloride	12125-02-9	0.15592%	0.00738%	
			Glutaraldehyde	111-30-8	0.08071%	0.00382%	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.03718%	0.00176%	
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.03718%	0.00176%	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.03718%	0.00176%	
			Ethane-1,2-diol	107-21-1	0.03387%	0.00160%	
			Trisodium ortho phosphate	7601-54-9	0.03387%	0.00160%	
			Sodium erythorbate	6381-77-7	0.01668%	0.00079%	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01441%	0.00068%	
			Aliphatic acids	Proprietary	0.00824%	0.00039%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00824%	0.00039%	
			Prop-2-yn-1-ol	107-19-7	0.00275%	0.00013%	
			Ethanol	64-17-5	0.00173%	0.00008%	

* 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%

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Remarks

Tiffany Golay 04/15/013 08:23 am	TVD 5,097'
Tiffany Golay 04/05/013 07:33 am	Additional Fluid Mgmt Info: 2180 bbls hauled to Weinett Disposal LLC, NW/4 Section 1079 Block 43, Lipscomb, TX
Tiffany Golay 03/27/013 08:10 am	Conductor weight= 94 lbs/ft