



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1155912
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: _____



1155912

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: 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

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> _____ <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	Brothers 3119 2-6H
Doc ID	1155912

All Electric Logs Run

Boresight Depiction
Resistivity
Prizm
Mud Log
Porosity

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 2-6H
Doc ID	1155912

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9152-9429	36 bbls 15% HCL Acid, 6744 bbls Fresh Slickwater, Running TLTR 6138 bbls	
5	8806-9087	36 bbls 15% HCL Acid, 6560 bbls Fresh Slickwater, Running TLTR 12872 bbls	
5	8478-8714	36 bbls 15% HCL Acid, 6635 bbls Fresh Slickwater, Running TLTR 18864 bbls	
5	8120-8400	36 bbls 15% HCL Acid, 6476 bbls Fresh Slickwater, Running TLTR 24536 bbls	
5	7663-7971	36 bbls 15% HCL Acid, 6332 bbls Fresh Slickwater, Running TLTR 30166 bbls	
5	7295-7606	36 bbls 15% HCL Acid, 6456 bbls Fresh Slickwater, Running TLTR 36048 bbls	
5	6882-7242	36 bbls 15% HCL Acid, 6383 bbls Fresh Slickwater, Running TLTR 41426 bbls	
5	6520-6832	36 bbls 15% HCL Acid, 6456 bbls Fresh Slickwater, Running TLTR 46729 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Brothers 3119 2-6H
Doc ID	1155912

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6079-6407	36 bbls 15% HCL Acid, 6401 bbls Fresh Slickwater, Running TLTR 51632 bbls	
5	5840-5982	36 bbls 15% HCL Acid, 5060 bbls Fresh Slickwater, Running TLTR 55571 bbls	
5	5310-5483	36 bbls 15% HCL Acid, 4603 bbls Fresh Slickwater, Running TLTR 60210 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

August 21, 2013

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

Re: ACO1
API 15-033-21700-01-00
Brothers 3119 2-6H
SW/4 Sec.06-31S-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



7-30-13 INVOICE

DATE	INVOICE #
7/30/2013	4122

4122

BILL TO
NANDRIK ENERGY INC ATTN: PURCHASING MANAGER 271 ROBERT S. KEHR AVENUE DRUMMATEL, TX 75102

REMIT TO
EDGE SERVICES, INC P.O. BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
COMANCHE	7-30-2013	4122	LABREY 7E	BROTHERS 3119 2-6H	Due on Rec
Description					
DRILLED 125' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 2 X 6" DUSTHO'S CELLAR FURNISHED 125' OF 20" CONDUCTOR PIPE FURNISHED 1 LOADS MUD FURNISHED WELDER AND MATERIALS FURNISHED 14 YARDS OF GRADE ASHMENT FURNISHED 1 BOUT CAMP DRELL HOUSE HOLE FURNISHED 60' OF 44" CONDUCTOR PIPE FOR ABOVE HOLE TOTAL AMOUNT \$19,506.20					
				AFE Number: <u>DC 13142</u>	
				Well Name: <u>BROTHERS 3119 2-6H</u>	
				Code: <u>850.010</u>	
				Amount: <u>19,506.20</u>	
				Co. Man: <u>John Fortune</u>	
				Co. Man Sig: <u>[Signature]</u>	
				Notes:	
					Sales Tax (6.3%) \$1206.20
					TOTAL \$19,506.20

JOB SUMMARY			PROJECT NUMBER SOK 2941	TICKET DATE 08/06/13
COUNTY Comanche	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Felix Ortiz Jr	
LEASE NAME Brothers 3119	Well No. 2-6H	JOB TYPE Surface	EMPLOYEE NAME John Hall	

EMP NAME					
John Hall					
Rocky Anthis					
Joseph Klemm					
Roy Morris					

Form. Name _____ Type: _____
Packer Type _____ Set At 0
Bottom Hole Temp. 80 Pressure _____
Retainer Depth _____ Total Depth 1000

Date	Called Out 8/6/2013	On Location 8/6/2013	Job Started 8/6/2013	Job Completed 8/6/2013
Time	430	900	1100	100

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
Casing		36#	9 1/2"		Surface	1,047
Liner						1,500
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/2"		Surface	1,040
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	resh Water	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	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
8/6	4.0	8/6	2.0	Surface
Total	4.0	Total	2.0	

Perfpac Balls _____ Qty. _____
Other _____
Other _____
Other _____
Other _____
Other _____

Pressures		
MAX	1,500 PSI	AVG
Average Rates in BPM		
MAX	6 BPM	AVG
Cement Left in Pipe		
Feet	46	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	440	EX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/2pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	170	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary						
Preflush	10	Type: Fresh water	Preflush: BBI	10.00	Type: Fresh Water	
Breakdown		MAXIMUM 1,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	Excess /Return BBI	77	Calc.Disp Bbl	77
		Actual TOC	Calc. TOC:	SURFACE	Actual Disp.	77.30
Average		Bump Plug PSI: Didn't	Final Circ. PSI:	400	Disp:Bbl	79.00
ISIP	5 Min.	10 Min	Cement Slurry: BBI	184.0		
		15 Min	Total Volume BBI	271.30		

CUSTOMER REPRESENTATIVE _____ SIGNATURE *Felix Ortiz Jr*

A/E Number: _____
Well Name: _____
Code: _____
Amount: _____
Co. Man: _____
Co. Man Sig.: _____
Notes: _____

JOB SUMMARY			PROJECT NUMBER SOK 2951	TICKET DATE 08/12/13
COUNTY Comanche	State Oklahoma	COMPANY Sandridge Exploration & Production	CUSTOMER REP Felix R=Ortix Jr	
LEASE NAME Brothers 3119	Well No. 2-6H	JOB TYPE Intermediate	EMPLOYEE NAME Johnny Breeze	

EMP NAME Johnny Breeze	Eric Parsons				
Bryan Douglas					
Flo Helkena					
Roy Morris					

Form. Name _____ Type: _____
 Packer Type _____ Set At **4,380**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **5831**

	Called Out	On Location	Job Started	Job Completed
Date	8/11/2013	8/12/2013	8/12/2013	8/12/2013
Time	1:30am			

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
Casing	26#	7"		Surface	5,831
Liner					
Liner					
Tubing		0			
Drill Pipe					
Open Hole		8 3/4"		Surface	5,843
Perforations					Shots/Ft.
Perforations					
Perforations					

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	Wghtd. BBL.	15	10.00
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 _____

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
8/12	6.0	8/12	2.0	Intermediate
Total	6.0	Total	2.0	

Pressures	
MAX	5,000 PSI
AVG.	400
Average Rates in BPM	
MAX	8 BPM
AVG	4
Cement Left in Pipe	
Feet	92
Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	155	60/50 POZ PREMIUM	4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P - 2#	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 Breakdown	Type: _____	MAXIMUM _____	Lost Returns-N _____	Preflush: BBI _____	15.00
	Actual TOC _____	Bump Plug PSI: _____	5 Min _____	Load & Bkdn: Gal - BBI _____	N/A
	10 Min _____	15 Min _____		Excess /Return BBI _____	N/A
				Calc. TOC: _____	4.213
				Final Circ. PSI: _____	1.000
				Cement Slurry: BBI _____	60.8
				Total Volume BBI _____	295.77
				Type: 10ppg Barite Spacer	
				Pad:Bbl -Gal _____	N/A
				Calc. Disp Bbl _____	220
				Actual Disp. _____	220.00
				Disp:Bbl _____	

CUSTOMER REPRESENTATIVE _____ *Felix Ortix Jr* SIGNATURE _____

Sandridge Energy

Brothers 3119 2-6H (Final)

Brothers 3119 2-6H SL 250 FSL 2130 FWL

Comanche County, Kansas (Sandridge Energy) NAD27 / Grid

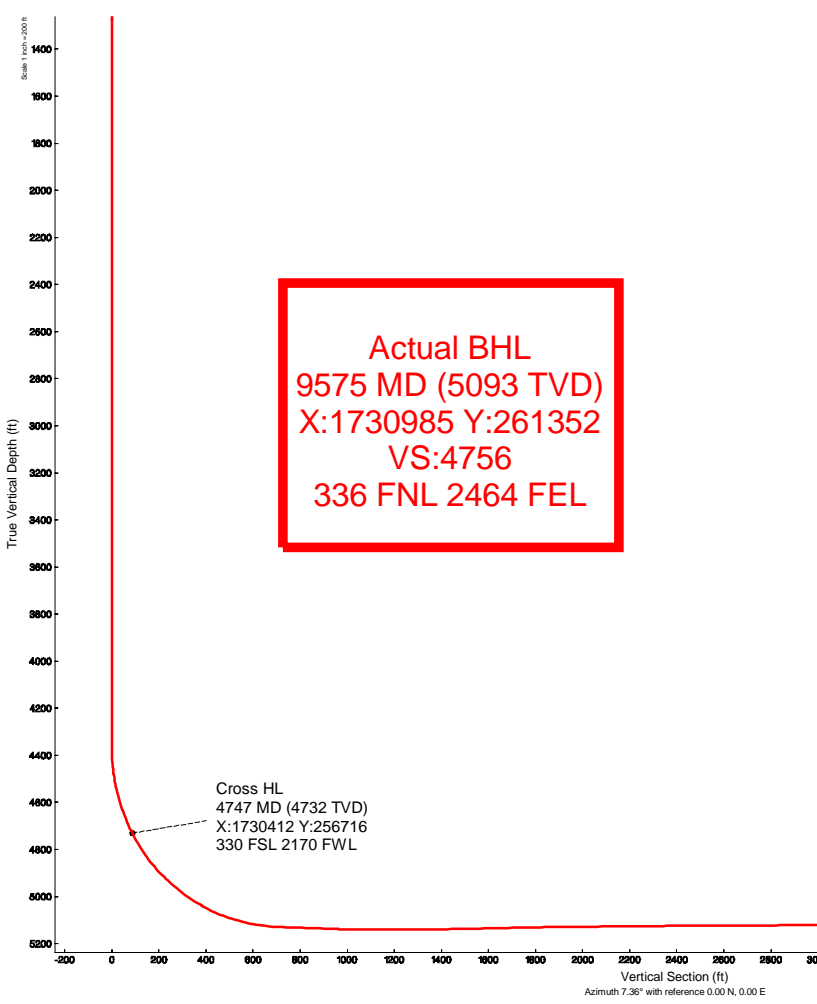
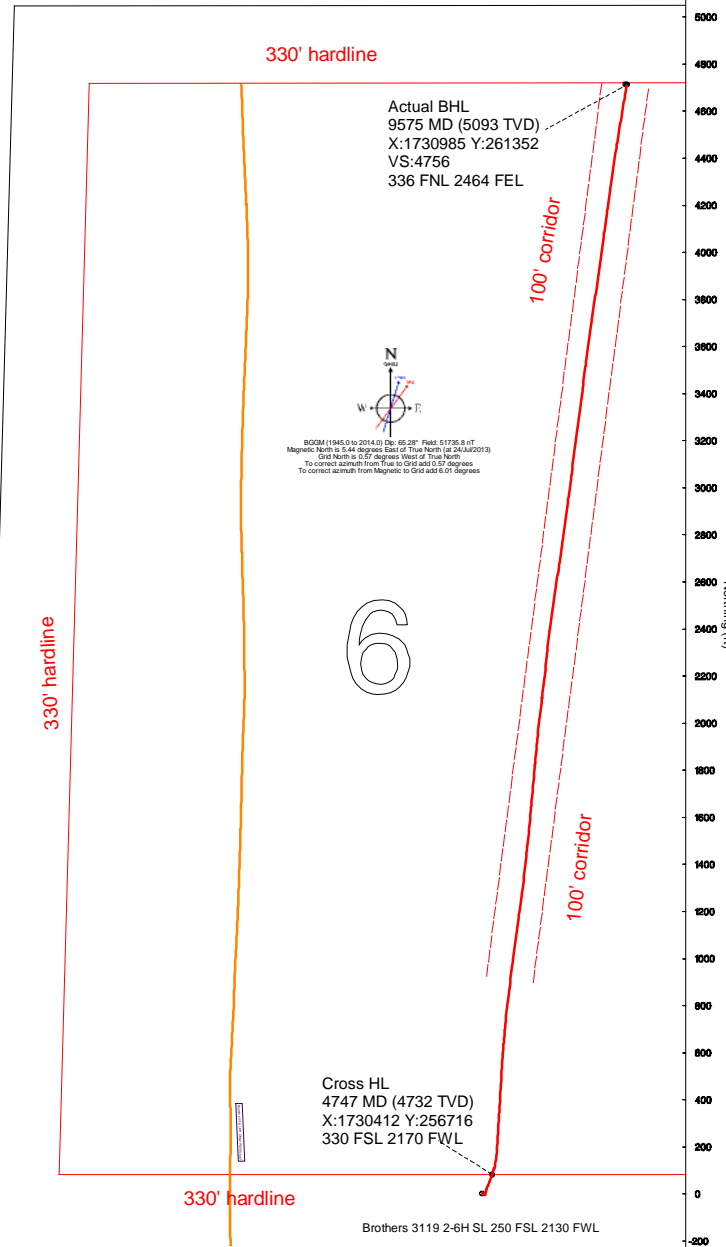
Foot reference w/depth is Plan 1		Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet	
True vertical depths are referenced to Larlat 38 (RKB)		North Reference: Grid north	
Measured depths are referenced to Larlat 38 (RKB)		Scale: True distance	
Larlat 38 (RKB) to Mean Sea Level: 2168 feet		Deaths are in feet	
Mean Sea Level to Mud line (At Slot: Brothers 3119 2-6H SL 250 FSL 2130 FWL): -2148 feet		Created by: adambc on 28/JUL/2013	
Coordinates are in feet referenced to Slot			
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude
Brothers 3119 2-6H Sec. 6-31S-19W	1730370.000	256636.000	37°22'04.091"N
Slot	Local N (ft)	Local E (ft)	Longitude
Brothers 3119 2-6H SL 250 FSL 2130 FWL	0.00	0.00	99°25'40.027"W
Larlat 38 (RKB) to Mud line (At Slot: Brothers 3119 2-6H SL 250 FSL 2130 FWL)		20ft	
Mean Sea Level to Mud line (At Slot: Brothers 3119 2-6H SL 250 FSL 2130 FWL)		-2148ft	
Larlat 38 (RKB) to Mean Sea Level		2168ft	



Scale 1 inch = 200 ft

Easting (ft)

-2200 -2000 -1800 -1600 -1400 -1200 -1000 -800 -600 -400 -200 0 200 400 600 800





Actual Wellpath Report

Sandridge Brothers 3119 2-6H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Brothers 3119 2-6H SL 250 FSL 2130 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Brothers 3119 2-6H Actual
Facility	Brothers 3119 2-6H Sec.6-31S-19W		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect™ 3.0.0
Convergence at slot	0.57° West	User	Adammic
Scale	0.999982	Report Generated	19/Aug/2013 at 8:06:24 AM
Wellbore last revised	07-24-2013	Database/Source file	intokcapp01

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1730370.00	256636.00	37°22'04.091"N	99°25'40.027"W
Facility Reference Pt			1730370.00	256636.00	37°22'04.091"N	99°25'40.027"W
Field Reference Pt			1773194.47	191302.75	37°11'22.030"N	99°16'42.810"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Lariat 38 (RKB) to Facility Vertical Datum	20.00ft
Horizontal Reference Pt	Slot	Lariat 38 (RKB) to Mean Sea Level	2168.00ft
Vertical Reference Pt	Lariat 38 (RKB)	Lariat 38 (RKB) to Mud Line at Slot (Brothers 3119 2-6H SL 250 FSL 2130 FWL)	20.00ft
MD Reference Pt	Lariat 38 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	7.36°



Actual Wellpath Report

Sandridge Brothers 3119 2-6H_Final Surveys.
Page n of nn



REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Brothers 3119 2-6H SL 250 FSL 2130 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Brothers 3119 2-6H Actual
Facility	Brothers 3119 2-6H Sec.6-31S-19W		

WELLPATH DATA (122 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]	Comments
0.00†	0.000	109.420	0.00	0.00	0.00	0.00	1730370.00	256636.00	0.00	
20.00	0.000	109.420	20.00	0.00	0.00	0.00	1730370.00	256636.00	0.00	
251.00	1.260	109.420	250.98	-0.53	-0.84	2.40	1730372.40	256635.16	0.55	
524.00	0.700	109.420	523.94	-1.51	-2.40	6.80	1730376.80	256633.60	0.21	
738.00	0.760	109.420	737.92	-2.08	-3.30	9.37	1730379.37	256632.70	0.03	
982.00	0.420	109.420	981.91	-2.60	-4.14	11.74	1730381.74	256631.86	0.14	
1088.00	0.190	109.420	1087.91	-2.72	-4.33	12.27	1730382.27	256631.67	0.22	
1179.00	0.060	342.490	1178.91	-2.71	-4.33	12.40	1730382.40	256631.67	0.25	
1271.00	0.060	302.690	1270.91	-2.64	-4.26	12.34	1730382.34	256631.74	0.04	
1455.00	0.120	194.670	1454.91	-2.79	-4.39	12.22	1730382.21	256631.61	0.08	
1546.00	0.070	321.090	1545.91	-2.85	-4.44	12.16	1730382.16	256631.56	0.19	
1638.00	0.130	329.140	1637.91	-2.73	-4.31	12.07	1730382.07	256631.69	0.07	
1825.00	0.060	29.690	1824.91	-2.47	-4.04	12.01	1730382.01	256631.96	0.06	
1919.00	0.060	125.550	1918.91	-2.45	-4.03	12.07	1730382.07	256631.97	0.09	
2014.00	0.040	339.750	2013.91	-2.44	-4.03	12.10	1730382.10	256631.97	0.10	
2109.00	0.070	87.530	2108.91	-2.40	-3.99	12.15	1730382.15	256632.01	0.10	
2204.00	0.030	91.430	2203.91	-2.39	-3.99	12.23	1730382.23	256632.01	0.04	
2299.00	0.110	19.830	2298.91	-2.30	-3.91	12.29	1730382.29	256632.10	0.11	
2394.00	0.060	66.030	2393.91	-2.18	-3.80	12.36	1730382.36	256632.20	0.09	
2489.00	0.030	233.020	2488.91	-2.18	-3.79	12.39	1730382.39	256632.21	0.09	
2584.00	0.040	221.680	2583.91	-2.22	-3.83	12.35	1730382.35	256632.17	0.01	
2679.00	0.030	3.150	2678.91	-2.22	-3.83	12.32	1730382.32	256632.17	0.07	
2774.00	0.060	87.720	2773.91	-2.19	-3.81	12.38	1730382.38	256632.19	0.07	
2869.00	0.070	332.210	2868.91	-2.13	-3.75	12.40	1730382.40	256632.25	0.12	
2964.00	0.030	262.710	2963.91	-2.09	-3.71	12.35	1730382.35	256632.29	0.07	
3059.00	0.030	206.620	3058.91	-2.12	-3.73	12.31	1730382.31	256632.27	0.03	
3154.00	0.060	169.240	3153.91	-2.19	-3.80	12.31	1730382.31	256632.20	0.04	
3249.00	0.030	80.510	3248.91	-2.23	-3.85	12.34	1730382.34	256632.15	0.07	
3344.00	0.030	260.680	3343.91	-2.23	-3.85	12.34	1730382.34	256632.15	0.06	
3439.00	0.060	259.730	3438.91	-2.26	-3.86	12.27	1730382.27	256632.14	0.03	
3534.00	0.060	138.360	3533.91	-2.30	-3.91	12.25	1730382.25	256632.09	0.11	
3629.00	0.030	133.530	3628.91	-2.35	-3.96	12.30	1730382.30	256632.04	0.03	
3723.00	0.030	222.830	3722.91	-2.39	-3.99	12.31	1730382.31	256632.01	0.04	
3818.00	0.040	54.240	3817.91	-2.38	-3.99	12.32	1730382.32	256632.01	0.07	
3913.00	0.030	356.580	3912.91	-2.34	-3.95	12.34	1730382.34	256632.05	0.04	
4008.00	0.060	26.920	4007.91	-2.27	-3.88	12.36	1730382.36	256632.12	0.04	

4293.00	0.040	156.500	4292.91	-2.21	-3.84	12.47	1730382.47	256632.16	0.03
4388.00	0.740	22.000	4387.90	-1.64	-3.30	12.71	1730382.71	256632.70	0.81
4420.00	2.780	20.230	4419.89	-0.69	-2.38	13.06	1730383.06	256633.62	6.38
4451.00	5.240	15.630	4450.81	1.45	-0.31	13.70	1730383.70	256635.69	8.00
4483.00	8.150	13.110	4482.59	5.15	3.31	14.61	1730384.61	256639.31	9.14
4515.00	10.840	15.900	4514.15	10.38	8.41	15.95	1730385.95	256644.41	8.53
4546.00	13.180	16.830	4544.47	16.75	14.60	17.77	1730387.77	256650.60	7.57
4578.00	15.490	18.800	4575.47	24.54	22.14	20.20	1730390.20	256658.13	7.38
4610.00	17.730	20.350	4606.13	33.48	30.75	23.27	1730393.27	256666.75	7.14



Actual Wellpath Report

Sandridge Brothers 3119 2-6H_Final Surveys.

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Brothers 3119 2-6H SL 250 FSL 2130 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Brothers 3119 2-6H Actual
Facility	Brothers 3119 2-6H Sec.6-31S-19W		

WELLPATH DATA (122 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]	Comments
4641.00	19.890	21.240	4635.47	43.20	40.09	26.83	1730396.83	256676.09	7.03	
4673.00	22.380	21.780	4665.32	54.38	50.82	31.06	1730401.06	256686.82	7.80	
4704.00	24.710	21.500	4693.74	66.38	62.33	35.63	1730405.62	256698.33	7.52	
4736.00	26.730	20.730	4722.56	79.87	75.29	40.62	1730410.62	256711.29	6.40	
4747.00†	27.405	20.153	4732.36	84.75	79.98	42.37	1730412.37	256715.98	6.59	Cross HL 4747 MD (4732 TVD) X:1730412 Y:256716 330 FSL 2170 FWL
4768.00	28.700	19.120	4750.89	94.40	89.28	45.69	1730415.69	256725.28	6.59	
4799.00	30.760	16.780	4777.81	109.51	103.91	50.42	1730420.42	256739.90	7.63	
4831.00	32.980	12.570	4804.99	126.26	120.25	54.68	1730424.67	256756.24	9.81	
4863.00	35.570	8.440	4831.43	144.24	137.96	57.94	1730427.94	256773.96	10.87	
4894.00	38.130	5.850	4856.24	162.83	156.40	60.24	1730430.24	256792.40	9.66	
4926.00	41.120	4.230	4880.88	183.22	176.73	62.02	1730432.02	256812.73	9.89	
4958.00	43.490	3.910	4904.55	204.72	198.21	63.55	1730433.55	256834.21	7.44	
4989.00	46.270	3.480	4926.51	226.54	220.04	64.96	1730434.95	256856.03	9.02	
5021.00	48.760	3.240	4948.12	250.08	243.59	66.34	1730436.34	256879.59	7.80	
5053.00	51.230	3.560	4968.69	274.53	268.06	67.79	1730437.79	256904.06	7.76	
5084.00	52.890	3.330	4987.75	298.92	292.46	69.26	1730439.26	256928.46	5.39	
5116.00	55.180	3.910	5006.54	324.77	318.31	70.90	1730440.90	256954.30	7.31	
5148.00	57.970	3.760	5024.17	351.42	344.96	72.68	1730442.68	256980.95	8.73	
5179.00	60.540	3.690	5040.02	378.01	371.54	74.41	1730444.41	257007.53	8.29	
5211.00	62.560	2.790	5055.26	406.07	399.63	76.00	1730446.00	257035.62	6.78	
5243.00	65.340	3.260	5069.31	434.73	428.33	77.52	1730447.52	257064.33	8.79	
5274.00	68.500	3.350	5081.46	463.18	456.80	79.16	1730449.16	257092.79	10.20	
5306.00	71.190	3.640	5092.49	493.15	486.78	81.00	1730450.99	257122.77	8.45	
5337.00	73.630	3.910	5101.86	522.64	516.27	82.94	1730452.94	257152.26	7.91	
5369.00	76.370	3.850	5110.14	553.49	547.10	85.03	1730455.03	257183.09	8.56	
5401.00	78.680	3.650	5117.05	584.67	578.28	87.08	1730457.08	257214.27	7.24	
5433.00	81.040	4.250	5122.68	616.11	609.70	89.25	1730459.25	257245.69	7.60	
5464.00	82.970	4.500	5126.99	646.77	640.31	91.59	1730461.59	257276.30	6.28	
5496.00	85.410	5.050	5130.23	678.57	672.03	94.24	1730464.24	257308.02	7.81	
5527.00	87.940	5.160	5132.03	709.49	702.86	96.99	1730466.99	257338.84	8.17	
5559.00	88.000	5.560	5133.16	741.45	734.70	99.98	1730469.98	257370.68	1.26	
5622.00	88.000	7.010	5135.36	804.40	797.28	106.87	1730476.87	257433.26	2.30	
5686.00	87.910	6.890	5137.65	868.36	860.77	114.61	1730484.61	257496.75	0.23	
5781.00	88.000	6.900	5141.04	963.29	955.02	126.01	1730496.01	257591.00	0.10	
5812.00	87.910	6.560	5142.14	994.27	985.79	129.64	1730499.64	257621.77	1.13	
5861.00	90.590	7.620	5142.78	1043.26	1034.40	135.69	1730505.68	257670.38	5.88	

5922.00	90.150	7.880	5142.39	1104.26	1094.84	143.91	1730513.91	257730.82	0.84
6014.00	90.400	7.990	5141.95	1196.25	1185.96	156.61	1730526.61	257821.94	0.30
6106.00	89.410	7.810	5142.10	1288.25	1277.09	169.26	1730539.25	257913.06	1.09
6198.00	90.800	6.170	5141.93	1380.24	1368.40	180.45	1730550.45	258004.37	2.34
6290.00	91.110	6.310	5140.40	1472.21	1459.84	190.45	1730560.45	258095.81	0.37
6381.00	91.450	5.310	5138.37	1563.15	1550.35	199.66	1730569.66	258186.32	1.16
6473.00	91.020	5.220	5136.38	1655.07	1641.94	208.10	1730578.10	258277.90	0.48
6564.00	91.230	5.250	5134.60	1745.99	1732.54	216.40	1730586.40	258368.51	0.23
6656.00	90.990	5.090	5132.82	1837.90	1824.15	224.69	1730594.69	258460.11	0.31



Actual Wellpath Report

Sandridge Brothers 3119 2-6H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Brothers 3119 2-6H SL 250 FSL 2130 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Brothers 3119 2-6H Actual
Facility	Brothers 3119 2-6H Sec.6-31S-19W		

WELLPATH DATA (122 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
6751.00	90.710	5.280	5131.41	1932.83	1918.75	233.28	1730603.27	258554.71	0.36	
6846.00	90.460	6.820	5130.44	2027.79	2013.21	243.29	1730613.28	258649.17	1.64	
6941.00	90.190	7.150	5129.90	2122.79	2107.51	254.84	1730624.83	258743.46	0.45	
7036.00	90.520	6.210	5129.31	2217.78	2201.86	265.89	1730635.89	258837.81	1.05	
7131.00	90.930	5.770	5128.11	2312.74	2296.33	275.80	1730645.80	258932.29	0.63	
7226.00	91.200	7.850	5126.34	2407.72	2390.64	287.07	1730657.06	259026.59	2.21	
7321.00	90.250	8.260	5125.14	2502.70	2484.69	300.38	1730670.37	259120.64	1.09	
7416.00	89.880	8.090	5125.03	2597.69	2578.73	313.88	1730683.88	259214.68	0.43	
7511.00	89.660	8.060	5125.41	2692.68	2672.79	327.23	1730697.22	259308.73	0.23	
7606.00	90.740	7.960	5125.08	2787.68	2766.86	340.47	1730710.46	259402.80	1.14	
7701.00	90.400	7.850	5124.14	2882.67	2860.95	353.53	1730723.52	259496.89	0.38	
7796.00	89.600	7.720	5124.14	2977.66	2955.07	366.40	1730736.39	259591.01	0.85	
7891.00	91.050	7.530	5123.60	3072.66	3049.23	379.00	1730749.00	259685.17	1.54	
7936.00	91.110	7.510	5122.75	3117.65	3093.83	384.89	1730754.89	259729.77	0.14	
8081.00	90.590	7.390	5120.60	3262.63	3237.59	403.69	1730773.68	259873.53	0.37	
8176.00	91.270	7.250	5119.06	3357.62	3331.81	415.79	1730785.79	259967.74	0.73	
8271.00	91.140	7.410	5117.06	3452.60	3426.01	427.91	1730797.90	260061.94	0.22	
8366.00	91.700	7.500	5114.70	3547.57	3520.18	440.23	1730810.23	260156.11	0.60	
8461.00	91.540	7.890	5112.02	3642.53	3614.28	452.95	1730822.94	260250.21	0.44	
8556.00	92.280	8.100	5108.85	3737.47	3708.31	466.16	1730836.15	260344.23	0.81	
8651.00	91.600	8.080	5105.64	3832.41	3802.31	479.52	1730849.51	260438.23	0.72	
8746.00	91.420	8.420	5103.13	3927.36	3896.29	493.14	1730863.13	260532.21	0.40	
8841.00	91.390	7.470	5100.80	4022.33	3990.35	506.27	1730876.26	260626.27	1.00	
8936.00	91.080	7.700	5098.75	4117.31	4084.50	518.81	1730888.80	260720.41	0.41	
9031.00	90.530	7.600	5097.42	4212.29	4178.64	531.45	1730901.44	260814.56	0.59	
9126.00	90.460	8.360	5096.60	4307.28	4272.72	544.64	1730914.63	260908.63	0.80	
9221.00	90.400	8.720	5095.89	4402.26	4366.66	558.75	1730928.74	261002.57	0.38	
9316.00	90.770	9.000	5094.92	4497.22	4460.52	573.38	1730943.37	261096.43	0.49	
9411.00	90.650	9.360	5093.74	4592.17	4554.30	588.53	1730958.52	261190.21	0.40	
9506.00	90.000	9.350	5093.20	4687.11	4648.03	603.98	1730973.96	261283.94	0.68	
9531.00	89.940	9.480	5093.21	4712.09	4672.70	608.07	1730978.05	261308.60	0.57	
9575.00	89.940	9.480	5093.26	4756.06	4716.10	615.31	1730985.30	261352.00	0.00	Actual BHL 9575 MD (5093 TVD) X:1730985 Y:261352 VS:4756 336 FNL 2464 FEL



Actual Wellpath Report

Sandridge Brothers 3119 2-6H_Final Surveys.
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Brothers 3119 2-6H SL 250 FSL 2130 FWL
Area	Kansas	Well	Subject
Field	Comanche County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Brothers 3119 2-6H Actual
Facility	Brothers 3119 2-6H Sec.6-31S-19W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PBHL 330 FNL 2810 FWL		5096.89	4717.10	609.01	1730979.00	261353.00	37°22'50.787"N	99°25'33.063"W	point

WELLPATH COMPOSITION - Ref Wellbore: Brothers 3119 2-6H Actual Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
20.00	982.00	Drift Indicator (Standard)	Inclination Only Surveys	Brothers 3119 2-6H Actual
982.00	9531.00	NaviTrak (Standard)	Inteq MWD	Brothers 3119 2-6H Actual
9531.00	9575.00	Blind Drilling (std)	Projection to bit	Brothers 3119 2-6H Actual

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/25/2013
Job End Date:	9/27/2013
State:	Kansas
County:	Comanche
API Number:	15-033-21700-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Brothers 3119 2-6H
Longitude:	-99.42778417
Latitude:	37.36780247
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,094
Total Base Water Volume (gal):	2,595,852
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
Water	Company 1	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.46614	None
Sand (Proppant)	Company 2	Proppant					
			Silica Substrate	NA	100.00000	4.18946	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.26469	
			Water	7732-18-5	99.90000	0.26469	
Hydrochloric Acid (15%)	Company 2	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.09798	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00515	None
			Methyl Alcohol	67-56-1	80.00000	0.00080	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00015	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Acrylamide modified copolymer	NA	60.00000	0.00931	None
			Aliphatic hydrocarbon	64742-47-8	30.00000	0.00465	None
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00386	None
			Oxyalkylated Alcohol	NA	5.00000	0.00078	None

			Ammonium chloride	12125-02-9	5.00000	0.00078	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00039	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00178	None
			Citric Acid	77-92-9	30.00000	0.00107	None
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.							
		Other Chemicals					
			Water	7732-18-5		0.05184	
			WATER	7732-18-5		0.03088	
			Aliphatic Hydrocarbon	64742-47-8		0.02592	
			Anionic Polymer	N/A		0.02592	
			TRADE SECRET	N/A		0.02058	
			Water	7732-18-5		0.01396	
			METHANOL	67-56-1		0.00515	
			ISOPROPANOL	67-63-0		0.00515	
			Water	7732-18-5		0.00465	
			Polyol Ester	N/A		0.00432	
			Oxyalkylated Alcohol	68002-97-1		0.00432	
			Acrylic Polymer	28205-96-1		0.00233	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00233	
			Water	7732-18-5		0.00125	
			Polyglycol Ester	N/A		0.00086	
			Alkanolamide	N/A		0.00078	
			Polyol Ester	N/A		0.00078	
			Oxyalkylated fatty Acid Derivative	N/A		0.00016	
			Surfactant	N/A		0.00016	
			Alkanolamine	111-42-2		0.00016	
			Ammonium salt	7783-18-8		0.00016	
			Alcohol Ethoxylate Surfactants	N/A		0.00015	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00009	
			n-olefins	N/A		0.00008	
			Propargyl Alcohol	107-19-7		0.00006	
			Surfactant	N/A			
			Buffer	N/A			

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

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

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Section 31
30S 19W

Kiowa County

Section 32
30S 19W

2633' FWL

298' FNL

* HUNT 6-1

BHL: 9575'
-99.426223 37.380794

HUNT 6-2

Bottom Perf: 9152'
-99.426451 37.379574

Section 1
31S 20W

Section 6
31S 19W

Comanche County

LOHRDING UNIT 4

*

Top Perf: 5310'
-99.427917 37.369164

Miss Entry: 5284'
-99.427922 37.369082

BROTHERS 3119 2-6H

*

LOHRDING 4A

*

Section 12
31S 20W

Section 7
31S 19W

MURPHY 3119 2-7H

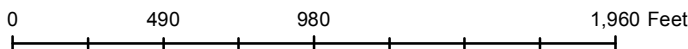
MURPHY 1-7H

*



Actual Bottom-Hole Location of Brothers 3119 2-6H
Comanche County, Kansas
T&R: 31S 19W
Section: 6, 2633' FWL & 298' FNL
-99.426223 37.380794

1 in = 624 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 11/19/2013

Drawing Name/Number:

Addendum_Brothers 3119 2-6H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502