Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1133582

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 # 34600
Name: Horizon Energy Services, LLC
Wellsite Geologist: Tammy Alcorn
Purchaser: Atlas (gas) Plains (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 #:

3/15/2013	4/12/2013	5/12/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21914-01-00
Spot Description:
NW NE NE NE Sec. 11 Twp. 35 S. R. 8 ☐ East ☑ West
154 Feet from ☑ North / ☐ South Line of Section
649 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: Harper
Lease Name: LIT Trust 3508 Well #: 2-14H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1272 Kelly Bushing: 1292
Total Vertical Depth: 9081 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 785 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: 07/08/2013
☑ **Confidential Release Date:** 07/08/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 07/08/2013

1133582

Operator Name: SandRidge Exploration and Production LLC Lease Name: LIT Trust 3508 Well #: 2-14H

Sec. 11 Twp. 35 S. R. 8 ☐ East ☑ West County: Harper

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	3492	
Lansing	3826	
Cottage Grove	4124	
Oswego Limestone	4441	
Cherokee Group	4563	
Verdigris Limestone	4600	
Mississippi Lime	4755	

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
Conductor	24	20	75	90	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	785	Schlumberger Lead/Tail Slurry	400	61 lb/sk D903, 26 lb/sk D035, 6% D020,
Intermediate	8.75	7	26	5472	Schlumberger 50/50 Poz: H/ Cl	320	47 lb/sk D909, 37 lb/sk D035, 4% D020,

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. 05/14/2013

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	LIT Trust 3508 2-14H
Doc ID	1133582

All Electric Logs Run

Boresight
Porosity
Prizm
Resistivity

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	LIT Trust 3508 2-14H
Doc ID	1133582

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8708-8974	4097 bbls water, 36 bbls acid, 75M lbs sd, 4341 TLTR	
5	8232-8611	4090 bbls water, 36 bbls acid, 75M lbs sd, 8608 TLTR	
5	7922-8156	4085 bbls water, 36 bbls acid, 75M lbs sd, 12776 TLTR	
5	7505-7850	4078 bbls water, 36 bbls acid, 75M lbs sd, 13347 TLTR	
5	7093-7439	4072 bbls water, 36 bbls acid, 75M lbs sd, 17527 TLTR	
5	6647-7026	2560 bbls water, 36 bbls acid, 45M lbs sd, 20297 TLTR	
5	6199-6567	4060 bbls water, 36 bbls acid, 75M lbs sd, 24271 TLTR	
5	5766-6130	4051 bbls water, 36 bbls acid, 75M lbs sd, 28559 TLTR	
5	5386-5690	1500 gals 15% HCL Acid, 3407 bbls fresh slickwater, 32001 TLTR	

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/

April 16, 2013

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

Re: ACO1
API 15-077-21914-01-00
LIT Trust 3508 2-14H
NE/4 Sec.11-35S-08W
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

Invoice

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

Date	Invoice #
3/15/2013	1766

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
Ricky Beene	Net 45	3/15/2013	Lit Trust 3508 2-14H, Harper Cnty, KS	Horizon 15

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	10	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: DC12346
Well: LIT TRUST 3508 2-14H
Code: 850 010
AMT: 17340
Co Man:

Subtotal	$17,340.00
Sales Tax (0.0%)	$0.00
Total	$17,340.00

Schlumberger

Service Order for i-District Job 957820

Customer Name:	Person Taking Call:	Location:	Order Date:	Job Number:
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING O		El Reno, OK WS	26-Mar-13 15:45	957820
Service Order Number:	**Service Line:** Cementing El Reno	**Supervisor:**	**Legal Location:** SEC 11-35S-8W	
Well Name and Number: LIT TRUST -3508-, 2-14H	**Pad/Platform:**	**Field:**	**County:** HARPER	**State/Prov:** KS
Well Master Number: 0631453328	**API/UWI:** 15077219140100	**Rig Name:** HORIZON #15	**Well Age:**	**Sales Engineer:**
Job Type: Cementing El Reno – Surface	**Time Well Ready:**	**Deviation:**	**Hole Size:** 12.25 in	**Well MD:**
Well TVD: 800 ft	**BHP:**	**BHST:** 89 °F	**BHCT:** 80 °F	**Treat Down:** Casing
Packer Type:	**Packer Depth:**	**Max/Min Densities:** **Lead: 12.4 +/- .5 ppg** **Tail: 14.8 +/- .5 ppg**	**HHP on Location:**	**Max Allowed Pressure:** 5000 psi
Max Allowed Ann Pressure:		**Job Stage Description:** 9 5/8" SURFACE	**FTL Ticket/Quote Number :**	

Casing/Tubing

String Type	Depth	Size	Weight	Grade	Thread
Casing	800 ft	9.625 in	36 lb/ft	J-55	

Service Instructions:
Provide equipment, materials, services and personnel to safely cement 9 5/8" surface casing per customer specifications.

Pump 200 sks Lead @ 12.40 ppg, 200 sks Tail @ 14.80 ppg, drop top plug and displace as per customer request.

Client Contact

Name	Voice	Fax	Email	Title	Company	Notes
Israel	281-617-4654					

Notes:
TOC: Surface -- volumes based on 12.25" OH + 150% XS

Equipment: 9 5/8" HM and QC (8RD and BTC), rubber and wooden top and bottom plugs, 1 pump, 1 ABT, washup hoses, air hoses, mud hoses, water hoses, 300' of top out iron

GET FIELD TICKET STAMPED IF APPLICABLE.

Directions:

From Medford Okla go west on hwy 11 16.5 miles turn north on hwy 132 to state line go north on hwy 179 1.7 miles turn west on SW-90-rd 5.6 miles into location

Materials			
Name	**Description**	**Quantity**	**Density**
Lead Slurry	200 sks Lead Slurry @ 12.4 ppg	71.61 bbl	12.40 lb/gal
Tail Slurry	200 sks Tail Slurry @ 14.8 ppg	47.38 bbl	14.80 lb/gal

Fluid Systems:

Lead Slurry

200 sks Lead Slurry @ 12.4 ppg

Sacks Of:	Cement		*Total Blend/Cem:*	17,402.61	lb
Sack Weight:	87.00	lb	*Sacks Blend/Cem:*	200.00	sks
Yield:	2.01	ft3/sk	*Final Fluid Density:*	12.40	lb/gal
Mix Water:	11.12	gal/sk	*Total Mix Water:*	8.42 m3	

Code	Conc	Design	Total by design	Load out with excess
D903	61.000 lb/sk	WTSK	12,201.83 lb	12,201.83 lb
D035	26.000 lb/sk	WTSK	5,200.78 lb	5,200.78 lb
D020	6.000 %	BWOB	1,044.16 lb	1,044.16 lb
S001	2.000 %	BWOB	348.05 lb	348.05 lb
D130	0.130 lb/sk	WTSK	26.00 lb	26.00 lb

Tail Slurry

200 sks Tail Slurry @ 14.8 ppg

Sacks Of:	Cement		*Total Blend/Cem:*	18,800.15	lb
Sack Weight:	94.00	lb	*Sacks Blend/Cem:*	200.00	sks
Yield:	1.33	ft3/sk	*Final Fluid Density:*	14.80	lb/gal
Mix Water:	6.35	gal/sk	*Total Mix Water:*	4.81 m3	

Code	Conc	Design	Total by design	Load out with excess
D903	94.000 lb/sk	WTSK	18800.15 lb	18800.15 lb
D130	0.130 lb/sk	WTSK	26.00 lb	26.00 lb

Schlumberger

Service Order for i-District Job 958238

Customer Name:	Person Taking Call:	Location:	Order Date:	Job Number:
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING O		El Reno, OK WS	27-Mar-13 10:15	958238
Service Order Number:	**Service Line:** Cementing El Reno	**Supervisor:**	**Legal Location:**	
Well Name and Number: LIT TRUST -3508-, 2-14H	**Pad/Platform:**	**Field:**	**County:** HARPER	**State/Prov:** KS
Well Master Number: 0631453328	**API/UWI:** 15077219140100	**Rig Name:** HORIZON #15	**Well Age:**	**Sales Engineer:**
Job Type: Cementing El Reno – Intermediate	**Time Well Ready:**	**Deviation:** 90 deg	**Hole Size:** 8.75 in	**Well MD:** 5482 ft
Well TVD: 4779 ft	**BHP:**	**BHST:**	**BHCT:**	**Treat Down:** Casing
Packer Type:	**Packer Depth:**	**Min/Max Densities:** Lead: 13.1/14.1 ppg Tail: 15.1/16.1 ppg	**HHP on Location:**	**Max Allowed Pressure:** 5000 psi
Max Allowed Ann Pressure:		**Job Stage Description:**	**FTL Ticket/Quote Number :** CDL7-00152	

Casing/Tubing

String Type	Depth	Size	Weight	Grade	Thread
Casing	5472 ft	7 in	26 lb/ft	P-110	LTC

Service Instructions:

To provide services, equipment, materials and personnel to safely cement a 7" intermediate casing as per client request.

Pump 30 bbls gel water, 220 sks lead slurry @13.6ppg, 100 sks tail slurry @15.6ppg, drop top plug and displace as per client approval.

Client Contact

Name	Voice	Fax	Email	Title	Company	Notes
Israel	281-617-4654					

Notes:

TOC: 3478 ft -- volumes based on 8.75" OH + 40% XS

Equipment: 7" HM & QC (8RD/BTC), top and bottom plugs, water hoses, air hoses (contingency), wash up/mud hoses (contingency), 1 pump, 2 ABTs, D047, B306

GET FIELD TICKET STAMPED if applicable.

Directions:

From Medford Okla go west on hwy 11 16.5 miles turn north on hwy 132 to state line go north on hwy 179 1.7 miles turn west on SW-90-rd 5.6 miles into location

Materials

Name	Description	Quantity	Density
Gelled Water	30 bbls gel water	30.00 bbl	8.33 lb/gal
Lead Slurry	220 sks 50:50 Poz:H + adds	319.00 ft3	13.60 lb/gal
Tail Slurry	100 sks Class H + adds	119.00 ft3	15.60 lb/gal

Fluid Systems:

Gelled Water				
30 bbls gel water				
Volume:	30.00 bbl		*Final Fluid Density:*	8.33 lb/gal
Code	**Conc**	**Design**	**Total**	**Load out with excess**
B306	0.200 gal/bbl	BVOWashVO	6.00 gal	6.00 gal

Lead Slurry				
220 sks 50:50 Poz:H + adds				
Sacks Of:	Blend		*Total Blend/Cem:*	18,480.00 lb
Sack Weight:	84.00 lb		*Sacks Blend/Cem:*	220.00 sks
Yield:	1.45 ft3/sk		*Final Fluid Density:*	13.60 lb/gal
Mix Water:	6.88 gal/sk		*Base Fluid Den:*	
Code	**Conc**	**Design**	**Total**	**Load out with excess**
D909	47.000 lb/sk	WTSK	10,340.00 lb	10,340.00 lb
D035	37.000 lb/sk	WTSK	8,140.00 lb	8,140.00 lb
D020	4.000 %	BWOB	739.20 lb	739.20 lb
D112	0.600 %	BWOB	110.88 lb	110.88 lb
D065	0.100 %	BWOB	18.48 lb	18.48 lb
D046	0.200 %	BWOB	36.96 lb	36.96 lb
D042	2.000 lb/sk	WTSK	440.00 lb	440.00 lb
D079	0.200 %	BWOB	36.96 lb	36.96 lb

Tail Slurry				
100 sks Class H + adds				
Sacks Of:	Cement		*Total Blend/Cem:*	9,400.00 lb
Sack Weight:	94.00 lb		*Sacks Blend/Cem:*	100.00 sks
Yield:	1.19 ft3/sk		*Final Fluid Density:*	15.60 lb/gal
Mix Water:	5.31 gal/sk		*Base Fluid Den:*	
Code	**Conc**	**Design**	**Total**	**Load out with excess**
D909	94.000 lb/sk	WTSK	9,400.00 lb	9,400.00 lb
D013	0.110 %	BWOC	10.34 lb	10.34 lb
D046	0.200 %	BWOC	18.80 lb	18.80 lb

Sandridge Energy, INC.(mid-con.)

Harper Co. (KS27S)
Sec 11-T35S-R08W
LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15

Wellbore #1

Design: Wellbore #1

Standard Survey Report

15 April, 2013

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Site:	Sec 11-T35S-R08W	**MD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Well:	LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project Harper Co. (KS27S)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site Sec 11-T35S-R08W

Site Position:		**Northing:**	124,136.00 usft	**Latitude:**	37° 0' 25.561 N
From:	Map	**Easting:**	2,098,087.00 usft	**Longitude:**	98° 9' 50.831 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.21 °

Well LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15

Well Position	**+N/-S**	0.0 usft	**Northing:**	129,327.00 usft	**Latitude:**	37° 1' 16.716 N
	+E/-W	0.0 usft	**Easting:**	2,102,704.00 usft	**Longitude:**	98° 8' 53.674 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	1,271.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2013/03/20	4.57	65.14	51,716

Design Wellbore #1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.82

Survey Program **Date** 2013/04/15

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
250.0	733.0	Single Shot Surveys (Wellbore #1)	MWD	MWD - Standard
860.0	9,081.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
250.0	0.70	99.80	250.0	-0.3	1.5	0.3	0.28	0.28	0.00
First Single Shot MWD Survey									
489.0	0.80	99.80	489.0	-0.8	4.6	0.8	0.04	0.04	0.00
733.0	0.80	99.80	732.9	-1.4	7.9	1.4	0.00	0.00	0.00
Last Single Shot MWD Survey									
860.0	2.20	99.80	859.9	-1.9	11.2	2.0	1.10	1.10	0.00
First Archer MWD Survey									

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Site:	Sec 11-T35S-R08W	**MD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Well:	LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,136.0	1.60	94.40	1,135.8	-3.1	20.3	3.2	0.23	-0.22	-1.96
1,411.0	1.40	98.80	1,410.7	-3.9	27.4	4.0	0.08	-0.07	1.60
1,885.0	0.40	127.70	1,884.6	-5.8	34.5	5.9	0.23	-0.21	6.10
2,359.0	0.30	89.10	2,358.6	-6.8	37.0	6.9	0.05	-0.02	-8.14
2,832.0	0.30	48.60	2,831.6	-6.0	39.2	6.1	0.04	0.00	-8.56
3,304.0	0.00	346.10	3,303.6	-5.2	40.1	5.3	0.06	-0.06	0.00
3,778.0	0.70	149.90	3,777.6	-7.7	41.6	7.8	0.15	0.15	0.00
3,969.0	0.40	146.70	3,968.6	-9.3	42.5	9.4	0.16	-0.16	-1.68
4,000.0	0.50	150.00	3,999.6	-9.5	42.6	9.6	0.33	0.32	10.65
4,032.0	1.80	170.50	4,031.5	-10.1	42.8	10.2	4.20	4.06	64.06
4,064.0	3.70	172.40	4,063.5	-11.6	43.0	11.7	5.94	5.94	5.94
4,095.0	5.20	174.50	4,094.4	-14.0	43.3	14.1	4.87	4.84	6.77
4,127.0	6.70	169.70	4,126.2	-17.3	43.7	17.4	4.93	4.69	-15.00
4,158.0	8.40	167.50	4,157.0	-21.3	44.6	21.4	5.56	5.48	-7.10
4,190.0	10.60	167.60	4,188.5	-26.4	45.7	26.6	6.88	6.88	0.31
4,222.0	12.70	169.60	4,219.9	-32.7	47.0	32.9	6.68	6.56	6.25
4,253.0	15.10	170.40	4,250.0	-40.1	48.3	40.2	7.77	7.74	2.58
4,284.0	17.50	171.60	4,279.7	-48.7	49.6	48.8	7.82	7.74	3.87
4,317.0	19.70	173.40	4,311.0	-59.1	51.0	59.3	6.89	6.67	5.45
4,348.0	21.70	174.50	4,340.0	-70.0	52.1	70.2	6.57	6.45	3.55
4,380.0	24.00	176.40	4,369.5	-82.4	53.1	82.6	7.55	7.19	5.94
4,411.0	26.10	177.90	4,397.6	-95.5	53.7	95.7	7.08	6.77	4.84
4,443.0	27.90	178.70	4,426.1	-110.0	54.2	110.2	5.74	5.63	2.50
4,474.0	30.20	179.20	4,453.2	-125.1	54.4	125.2	7.46	7.42	1.61
4,506.0	32.90	179.30	4,480.4	-141.8	54.7	142.0	8.44	8.44	0.31
4,537.0	35.50	179.60	4,506.1	-159.2	54.8	159.4	8.40	8.39	0.97
4,569.0	38.40	179.80	4,531.6	-178.5	54.9	178.6	9.07	9.06	0.63
4,601.0	41.30	180.40	4,556.2	-199.0	54.9	199.1	9.14	9.06	1.88
4,633.0	44.20	180.00	4,579.7	-220.7	54.8	220.9	9.10	9.06	-1.25
4,665.0	47.20	180.00	4,602.0	-243.6	54.8	243.8	9.38	9.38	0.00
4,696.0	50.10	179.40	4,622.5	-266.9	54.9	267.0	9.47	9.35	-1.94
4,728.0	52.90	180.10	4,642.4	-291.9	55.0	292.1	8.92	8.75	2.19
4,759.0	56.10	180.70	4,660.4	-317.1	54.9	317.3	10.44	10.32	1.94
4,791.0	59.10	180.90	4,677.6	-344.1	54.5	344.3	9.39	9.38	0.63
4,822.0	62.40	181.10	4,692.7	-371.2	54.0	371.3	10.66	10.65	0.65
4,854.0	65.40	181.60	4,706.8	-399.9	53.3	400.1	9.48	9.38	1.56
4,886.0	68.00	181.40	4,719.5	-429.3	52.6	429.4	8.15	8.13	-0.63
4,917.0	70.50	181.50	4,730.4	-458.3	51.8	458.4	8.07	8.06	0.32
4,949.0	73.60	181.00	4,740.3	-488.7	51.2	488.8	9.80	9.69	-1.56
4,981.0	75.80	182.00	4,748.8	-519.5	50.4	519.7	7.51	6.88	3.13
5,012.0	78.00	182.00	4,755.8	-549.7	49.3	549.9	7.10	7.10	0.00
5,044.0	80.30	181.80	4,761.8	-581.1	48.3	581.3	7.21	7.19	-0.63
5,075.0	83.10	181.80	4,766.3	-611.8	47.3	611.9	9.03	9.03	0.00

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Site:	Sec 11-T35S-R08W	**MD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Well:	LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,107.0	85.60	181.10	4,769.4	-643.6	46.5	643.8	8.11	7.81	-2.19
5,138.0	86.90	181.20	4,771.5	-674.5	45.9	674.7	4.21	4.19	0.32
5,170.0	87.60	181.20	4,773.0	-706.5	45.2	706.6	2.19	2.19	0.00
5,202.0	88.10	180.80	4,774.2	-738.5	44.7	738.6	2.00	1.56	-1.25
5,233.0	88.80	181.00	4,775.0	-769.5	44.2	769.6	2.35	2.26	0.65
5,264.0	89.10	180.80	4,775.6	-800.4	43.7	800.6	1.16	0.97	-0.65
5,296.0	89.60	180.60	4,776.0	-832.4	43.3	832.6	1.68	1.56	-0.63
5,327.0	89.50	180.90	4,776.2	-863.4	42.9	863.6	1.02	-0.32	0.97
5,359.0	88.40	180.80	4,776.8	-895.4	42.4	895.6	3.45	-3.44	-0.31
5,390.0	87.30	180.70	4,778.0	-926.4	42.0	926.5	3.56	-3.55	-0.32
5,423.0	87.60	180.70	4,779.4	-959.4	41.6	959.5	0.91	0.91	0.00
5,482.0	88.30	179.10	4,781.5	-1,018.3	41.7	1,018.5	2.96	1.19	-2.71
5,577.0	87.90	179.70	4,784.7	-1,113.3	42.7	1,113.4	0.76	-0.42	0.63
5,672.0	88.60	180.00	4,787.6	-1,208.2	42.9	1,208.4	0.80	0.74	0.32
5,767.0	87.60	178.90	4,790.7	-1,303.2	43.9	1,303.3	1.56	-1.05	-1.16
5,862.0	88.50	178.70	4,794.0	-1,398.1	45.8	1,398.2	0.97	0.95	-0.21
5,956.0	90.90	180.00	4,794.5	-1,492.1	46.9	1,492.2	2.90	2.55	1.38
6,051.0	90.30	180.70	4,793.5	-1,587.1	46.3	1,587.2	0.97	-0.63	0.74
6,145.0	88.70	179.90	4,794.3	-1,681.1	45.8	1,681.2	1.90	-1.70	-0.85
6,240.0	88.30	181.80	4,796.8	-1,776.0	44.4	1,776.1	2.04	-0.42	2.00
6,336.0	86.20	181.10	4,801.4	-1,871.9	42.0	1,872.0	2.31	-2.19	-0.73
6,430.0	86.30	181.00	4,807.5	-1,965.6	40.3	1,965.8	0.15	0.11	-0.11
6,524.0	87.60	181.20	4,812.5	-2,059.5	38.5	2,059.6	1.40	1.38	0.21
6,618.0	88.90	181.90	4,815.4	-2,153.4	35.9	2,153.5	1.57	1.38	0.74
6,712.0	91.10	183.00	4,815.4	-2,247.3	31.9	2,247.4	2.62	2.34	1.17
6,807.0	90.50	182.30	4,814.1	-2,342.2	27.5	2,342.3	0.97	-0.63	-0.74
6,902.0	91.60	182.60	4,812.3	-2,437.1	23.5	2,437.2	1.20	1.16	0.32
6,998.0	90.70	183.30	4,810.4	-2,533.0	18.5	2,533.0	1.19	-0.94	0.73
7,093.0	89.70	183.00	4,810.1	-2,627.8	13.3	2,627.8	1.10	-1.05	-0.32
7,188.0	89.00	182.40	4,811.1	-2,722.7	8.8	2,722.7	0.97	-0.74	-0.63
7,282.0	88.70	181.40	4,813.0	-2,816.6	5.7	2,816.6	1.11	-0.32	-1.06
7,400.0	89.30	182.00	4,815.1	-2,934.6	2.2	2,934.5	0.72	0.51	0.51
7,496.0	90.50	180.70	4,815.3	-3,030.5	0.0	3,030.5	1.84	1.25	-1.35
7,591.0	89.00	182.20	4,815.7	-3,125.5	-2.4	3,125.5	2.23	-1.58	1.58
7,686.0	89.50	182.60	4,816.9	-3,220.4	-6.4	3,220.4	0.67	0.53	0.42
7,781.0	90.10	183.00	4,817.2	-3,315.3	-11.1	3,315.2	0.76	0.63	0.42
7,876.0	88.40	182.20	4,818.5	-3,410.2	-15.4	3,410.1	1.98	-1.79	-0.84
7,971.0	89.20	182.20	4,820.5	-3,505.1	-19.0	3,505.0	0.84	0.84	0.00
8,066.0	89.70	183.40	4,821.4	-3,600.0	-23.7	3,599.9	1.37	0.53	1.26
8,161.0	88.80	182.60	4,822.6	-3,694.8	-28.6	3,694.7	1.27	-0.95	-0.84
8,256.0	90.90	180.70	4,822.9	-3,789.8	-31.4	3,789.7	2.98	2.21	-2.00
8,351.0	88.30	178.90	4,823.5	-3,884.8	-31.0	3,884.6	3.33	-2.74	-1.89

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Site:	Sec 11-T35S-R08W	**MD Reference:**	WELL @ 1291.0usft (Original Well Elev)
Well:	LIT Trust 3508 2-14H/ Job #04162-431-22/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,445.0	88.60	178.70	4,826.1	-3,978.7	-29.1	3,978.6	0.38	0.32	-0.21
8,540.0	87.80	178.50	4,829.1	-4,073.6	-26.7	4,073.5	0.87	-0.84	-0.21
8,634.0	89.80	176.50	4,831.0	-4,167.5	-22.6	4,167.4	3.01	2.13	-2.13
8,730.0	89.30	175.50	4,831.8	-4,263.3	-15.9	4,263.2	1.16	-0.52	-1.04
8,825.0	91.80	176.10	4,830.9	-4,358.0	-9.0	4,357.9	2.71	2.63	0.63
8,919.0	92.90	176.00	4,827.0	-4,451.7	-2.5	4,451.7	1.18	1.17	-0.11
9,015.0	92.00	177.10	4,822.9	-4,547.4	3.2	4,547.4	1.48	-0.94	1.15
Last Archer MWD Survey									
9,081.0	92.00	177.10	4,820.6	-4,613.3	6.6	4,613.3	0.00	0.00	0.00
Projection to TD - PBHL LIT Trust 2-14H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
250.0	250.0	-0.3	1.5	First Single Shot MWD Survey
733.0	732.9	-1.4	7.9	Last Single Shot MWD Survey
860.0	859.9	-1.9	11.2	First Archer MWD Survey
9,015.0	4,822.9	-4,547.4	3.2	Last Archer MWD Survey
9,081.0	4,820.6	-4,613.3	6.6	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/6/2013
Job End Date:	5/7/2013
State:	Kansas
County:	Harper
API Number:	15-077-21914-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	LIT Trust 3508 2-14H
Longitude:	-98.14820000
Latitude:	37.02130000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	1,429,482
Total Base Non Water Volume:	

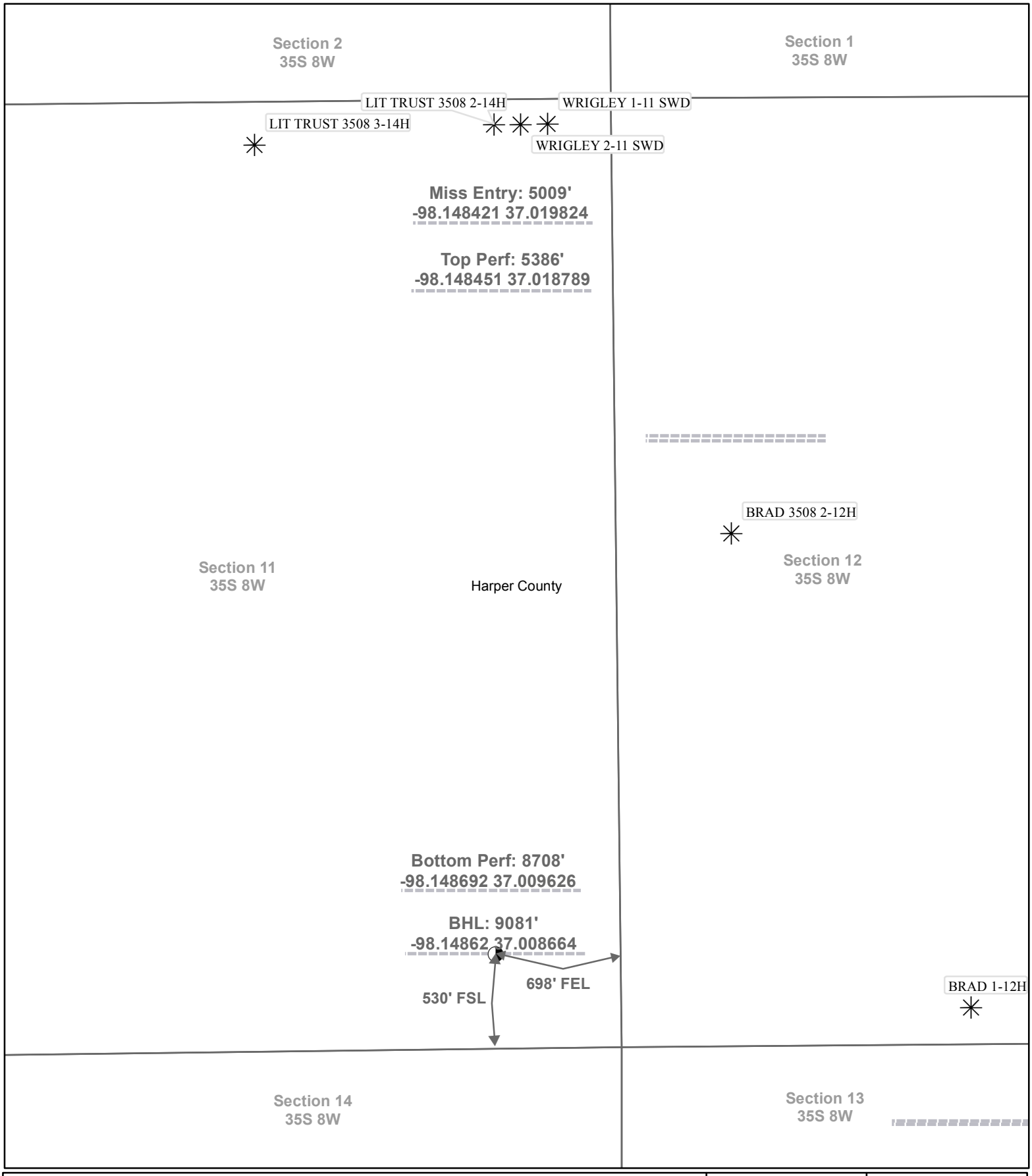
Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
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, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00209		
			Water (Including Mix Water Supplied by Client)*	NA			
			Fatty acids, tall-oil	61790-12-3	0.00817		
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01499		
			Sorbitan monooleate	1338-43-8	0.02522		
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.28826		
			Polyethylene glycol monohexyl ether	31726-34-8	0.11267		
			Distillates (petroleum), hydrotreated light	64742-47-8	0.34592		
			Ethanol	64-17-5	0.00020		
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00313		

			Ethoxylated oleic acid	9004-96-0	0.02883		
			Ethane-1,2-diol	107-21-1	0.00829		
			Methanol	67-56-1	0.01122		
			Ammonium chloride	12125-02-9	0.16575		
			2-Propenoic acid, ammonium salt	10604-69-0	0.00721		
			C14 alpha olefin ethoxylate	84133-50-6	0.00793		
			Glutaraldehyde	111-30-8	0.00933		
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00672		
			Hydrogen chloride	7647-01-0	2.81526		
			Trisodium ortho phosphate	7601-54-9	0.02914		
			Alkenes, C>10 a-	64743-02-8	0.00139		
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.01485		
			Crystalline silica	14808-60-7	96.08228		
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.01485		
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00494		
			Sorbitol Tetraoleate	61723-83-9	0.01802		
			Propan-2-ol	67-63-0	0.00099		
			Sodium erythorbate	6381-77-7	0.02464		
			Potassium hydroxide	1310-58-3	0.00023		
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.00167		

* 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)



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Kerstetter 3120 3-25H
Harper County, Kansas
T&R: 35S 8W
Section: 12, 698' FEL & 530' FSL
-98.14862 37.008664

1 in = 703 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 7/3/2013
Drawing Name/Number: Addendum_LIT Trust 3508 2-14H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Remarks

Tiffany Golay 06/20/013 10:52 am	Conductor weight: 106.35 lbs/ft
Tiffany Golay 06/20/013 10:47 am	Well was completed using an open hole packer system