

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1151328

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

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

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

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



1151328

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

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

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

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

Drill Stem Tests Taken (Attach Additional Sheets)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<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 (Amount and Kind of Material Used)		Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	LIT Trust 3508 3-14H
Doc ID	1151328

All Electric Logs Run

Boresight
Density
Prizm
Mud Log
Induction

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	LIT Trust 3508 3-14H
Doc ID	1151328

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8805-9016	1500 gals 15% HCL, 4084 bbls Fresh Slickwater, Running TLTR= 4490 bbls	
5	8436-8666	1500 gals 15% HCL, 4080 bbls Fresh Slickwater, Running TLTR= 8753 bbls	
5	8040-8367	1500 gals 15% HCL, 4071 bbls Fresh Slickwater, Running TLTR= 12997 bbls	
5	7636-7920	1500 gals 15% HCL, 4046 bbls Fresh Slickwater, Running TLTR= 17180 bbls	
5	7402-7566	1500 gals 15% HCL, 4112 bbls Fresh Slickwater, Running TLTR= 21443 bbls	
5	6920-7290	1500 gals 15% HCL, 4040 bbls Fresh Slickwater, Running TLTR= 25596 bbls	
5	6596-6840	1500 gals 15% HCL, 4091 bbls Fresh Slickwater, Running TLTR= 29783 bbls	
5	6198-6501	1500 gals 15% HCL, 4040 bbls Fresh Slickwater, Running TLTR= 33924 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	LIT Trust 3508 3-14H
Doc ID	1151328

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5871-6134	1500 gals 15% HCL, 4035 bbls Fresh Slickwater, Running TLTR= 38100 bbls	
5	5566-5793	1500 gals 15% HCL, 4036 bbls Fresh Slickwater, Running TLTR= 42284 bbls	

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



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

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

Sam Brownback, Governor

July 11, 2013

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

Re: ACO1
API 15-077-21937-01-00
LIT Trust 3508 3-14H
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



Invoice

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

Date	Invoice #
6/12/2013	1964

Bill To SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102
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Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Ricky Beene	Net 45	6/12/2013	Lit Trust 3408 3-14H, Harper Cnty, KS	Horizon 15

Item	Quantity	Description
Conductor Hole	95	Drilled 95 ft. conductor hole
20" Pipe	95	Furnished 95 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	17	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: <u>DC 12972</u>
		Well: <u>LIT Trust 3508 3-14 H</u>
		Code: <u>850.010</u>
		AMT: <u>18810</u>
		Co Man: <u>Doug Ragless</u>
		</



Service Order for i-District Job 1004258

Customer Name: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Person Taking Call:		Location: EI Reno, OK WS		Order Date: 21-Jun-13 13:38		Job Number: 1004258	
Service Order Number:		Service Line: Cementing EI Reno		Supervisor:		Legal Location:			
Well Name and Number: LIT TRUST 3508-3, 14H		Pad/Platform:		Field:		County: Harper		State/Prov: KS	
Well Master Number: 0631474980		API/UWI: 15077219370100		Rig Name: HORIZON #15		Well Age: New		Sales Engineer: Meshall Thomas	
Job Type: Cementing EI Reno – Surface		Time Well Ready:		Deviation: 0 deg		Hole Size: 12.25 in		Well MD: 800 ft	
Well TVD: 800 ft		BHP: 550 psi		BHST: 89 °F		BHCT: 80 °F		Treat Down: Casing	
Packer Type:		Packer Depth:		Min/Max Densities: Lead: 13.9/14.9 ppg Tail: 14.3/15.3 ppg		HHP on Location:		Max Allowed Pressure: 3000 psi	
Max Allowed Ann Pressure:				Job Stage Description: 9 5/8" Surface			FTL Ticket/Quote Number : CDL7-00248		
Casing/Tubing						Service Instructions:			
String Type	Depth	Size	Weight	Grade	Thread	To provide services, equipment, personnel and materials to safely cement a 9 5/8" surface casing as per client request.			
Casing	800 ft	9.625 in	36 lb/ft	J-55	LTC				
						Pump 10 bbl fresh water, 270 sks lead slurry @12.4ppg, 170 sks tail slurry @14.8ppg, drop top plug and displace as per client approval.			
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), top and bottom rubber/wooden plugs (contingency), water hoses, air hoses, mud hoses (contingency), washup hoses (contingency), 1 pump, 2 ABTs, D047, D110, 300 ft topout 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 5.8 miles into location									

Materials			
Name	Description	Quantity	Density
Lead Slurry	270 sks 35:65 Poz:C + adds	542.70 ft3	12.40 lb/gal
Tail Slurry	170 sks Class C + a dds	226.10 ft3	14.80 lb/gal

Fluid Systems:

Lead Slurry				
270 sks 35:65 Poz:C + adds				
<i>Sacks Of:</i>	Blend		<i>Total Blend/Cem:</i>	23,490.00 lb
<i>Sack Weight:</i>	87.00 lb		<i>Sacks Blend/Cem:</i>	270.00 sks
<i>Yield:</i>	2.01 ft ³ /sk		<i>Final Fluid Density:</i>	12.40 lb/gal
<i>Mix Water:</i>	11.12 gal/sk		<i>Base Fluid Den:</i>	
Code	Conc	Design	Total	Load out with excess
D903	61.100 lb/sk	WTSK	16,497.00 lb	16,497.00 lb
D035	25.900 lb/sk	WTSK	6,993.00 lb	6,993.00 lb
S001	2.000 %	BWOB	469.80 lb	469.80 lb
D020	6.000 %	BWOB	1,409.40 lb	1,409.40 lb
D130	0.125 lb/sk	WTSK	33.75 lb	33.75 lb

Tail Slurry				
170 sks Class C + adds				
<i>Sacks Of:</i>	Cement		<i>Total Blend/Cem:</i>	15,980.00 lb
<i>Sack Weight:</i>	94.00 lb		<i>Sacks Blend/Cem:</i>	170.00 sks
<i>Yield:</i>	1.33 ft ³ /sk		<i>Final Fluid Density:</i>	14.80 lb/gal
<i>Mix Water:</i>	6.35 gal/sk		<i>Base Fluid Den:</i>	
Code	Conc	Design	Total	Load out with excess
D903	94.000 lb/sk	WTSK	15,980.00 lb	15,980.00 lb
D130	0.125 lb/sk	WTSK	21.25 lb	21.25 lb



Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
CDL7-00259

Invoice Mailing Address: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI) 123 ROBERT S. KERR AVENUE OKLAHOMA CITY OK 73102-6406 USA		Left District Arrive Location Start Job Complete Job Leave Location Arrived District Service Description	Date: 06-Jul-2013 Date: 06-Jul-2013 Date: 06-Jul-2013 Date: 07-Jul-2013 Date: 07-Jul-2013 Date: 07-Jul-2013 Cementing Primary, Primary Intermediate	Time: 1:00 PM Time: 5:00 PM Time: 10:43 PM Time: 12:05 AM Time: 1:00 AM Time: 5:00 AM
Customer PO AFE DC12972	Contract Cust Ref Customer or Authorized Representative SandRidge Repersanitive	Well Name & Number LIT Trust 3508 3-14H County / Parish / Block / Borough Harper	Field Mississippi Lime State / Province Kansas	
API / UWI 15077219370100	Pricebook B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_	Schlumberger Location El Reno, OK	Legal Location Rig Horizon 15	
Service Instructions: Provide equipment, materials, services and personnel to safely cement 7" surface casing per client specifications. Client requested SLB on location @ 17:00 hrs of 7-6-2013. Field sample tag#-012545 Pump 30 bbl gel water, 230 sks lead slurry @13.6ppg, 100 sks tail slurry @15.6 ppg, drop top plug and displace per customer approval.				

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
B306	PSG Polymer Slurry B306	6	GA	105.00	47.00%	333.90
D013	Retarder	30	LB	2.79	47.00%	44.36
D020	Bentonite Extender	773	LB	0.50	47.00%	204.84
D035-CF	LITEPOZ 3 Extender	120	CF	9.20	47.00%	585.12
D042	KOLITE Lost Circulation Additive	460	LB	0.99	47.00%	241.36
D065	TIC Dispersant	20	LB	7.86	47.00%	83.32
D079	Chemical Extender	135	LB	3.05	47.00%	218.23
D112	FLAC Fluid Loss Additive	115	LB	15.20	47.00%	926.44
D909	Cement, Class H	215	CF	24.13	47.00%	2,749.61
D047	Antifoam Agent	2	GA	72.00	47.00%	76.32
Products Subtotal:					10,308.50	
Discount:					4,845.00	
Products Total:					5,463.50	
Services						
48019000	Bulk Unit, Per Hr on location	8	HR	115.00	47.00%	487.60
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
48020000	Pump, Cement Add Hr	4	HR	609.90	35.00%	1,585.74
49100000	Cement Blending Charge	359	CF	2.43	47.00%	462.36
49102000	Transportation, Cement Ton-mile	763	MI	2.16	47.00%	873.48
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	313.23
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	183.91
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	499.05
102871060	Pump, Casing Cement 5501-6000 ft	1	EA	3,745.00	47.00%	1,984.85
102946000	Fuel Surcharge (non-discounted)	2	EA	450.00		900.00
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	1,123.50
107264001	Regulatory Conformance Charge	2	EA	364.87		729.74
58498000	Plug, Top Rubber Alum Core 7 in	1	JOB	400.00	47.00%	212.00
Services Subtotal:					15,588.79	
Discount:					5,938.44	
Services Total:					9,650.35	

Total (Before Discount):	25,897.29		
Discount:	10,783.44		
Special Discount:	0.00	Estimated Total (USD):	15,113.85



Service Contract Receipt
SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
CDL7-00259

Invoice Mailing Address: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI) 123 ROBERT S. KERR AVENUE OKLAHOMA CITY OK 73102-6406 USA		Left District	Date: 06-Jul-2013	Time: 1:00 PM
		Arrive Location	Date: 06-Jul-2013	Time: 5:00 PM
		Start Job	Date: 06-Jul-2013	Time: 10:43 PM
		Complete Job	Date: 07-Jul-2013	Time: 12:05 AM
		Leave Location	Date: 07-Jul-2013	Time: 1:00 AM
		Arrived District	Date: 07-Jul-2013	Time: 5:00 AM
				Service Description Cementing Primary, Primary Intermediate
Customer PO	Contract	Well Name & Number	Field	
		LIT Trust 3508 3-14H	Mississippi Lime	
AFE	Cust Ref	County / Parish / Block / Borough	State / Province	
DC12972		Harper	Kansas	
Customer or Authorized Representative		Schlumberger Location	Legal Location	
SandRidge Repersanitive		El Reno, OK		
API / UWI	Pricebook	Rig		
15077219370100	B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_	Horizon 15		
Service Instructions: Provide equipment, materials, services and personnel to safely cement 7" surface casing per client specifications. Client requested SLB on location @ 17:00 hrs of 7-6-2013. Field sample tag#-012545 Pump 30 bbl gel water, 230 sks lead slurry @13.6ppg, 100 sks tail slurry @15.6 ppg, drop top plug and displace per customer approval.				

Estimated Total (USD): 15,113.85

THE ESTIMATED CHARGES AND DATA SHOWN ABOVE ARE SUBJECT TO CORRECTION BY SCHLUMBERGER.

THE SERVICES, EQUIPMENT, MATERIALS AND/OR PRODUCTS PROVIDED BY THIS SERVICE CONTRACT RECEIPT HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE.

Signature of Customer or Authorized Representative:

Signature of Schlumberger Representative:

SandRidge Repersanitive

Date

Anthony Cucchi

Date

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256	5041	3316	1980
BHL	9190	90.30	182.00	4869.47	-4700.60	14.42	4700.61	0.00	4957	340	3303	1992
Miss Entry	5081	81.24	180.45	4772.51	-596.15	41.59	596.37	8.60	852	4444	3354	1942
Top Perf	5566	88.40	183.46	4791.56	-1079.88	19.91	1079.97	0.89	1336	3961	3329	1967
Bottom Perf	9014	89.87	181.57	4869.82	-4524.70	20.13	4524.74	0.41	4781	516	3309	1985

Survey Points		X	Y		X	Y		m
NW Corner XY Coord	2098056	129440					North Line slope	0.0086858
SW Corner XY Coord	2098087	124136		Surface XY	2101373	129213	East Line slope	-0.00548
NE Corner XY Coord	2103352	129486					South Line slope	0.0109558
SE Corner XY Coord	2103381	124194					West Line slope	-0.0058446

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	256	5041	3316	1980
	250	0.30	41.90	250.00	0	0	-0.48	0.12	255	5041	3316	1980
	500	0.50	41.90	499.99	2	2	-1.78	0.08	254	5043	3317	1979
	700	1.30	41.90	699.97	4	4	-4.10	0.40	252	5045	3319	1977
	855	1.60	41.90	854.92	7	6	-7.01	0.19	249	5048	3322	1974
	947	1.10	33.90	946.89	9	8	-8.69	0.58	247	5050	3323	1973
	1404	1.10	69.80	1403.81	14	14	-13.81	0.15	242	5055	3330	1966
	1878	0.70	91.50	1877.75	15	21	-15.27	0.11	241	5056	3337	1959
	2352	0.60	96.30	2351.72	15	27	-14.89	0.02	241	5056	3343	1954
	2826	0.30	96.10	2825.71	15	30	-14.46	0.06	241	5055	3346	1950
	3300	0.20	95.40	3299.70	14	33	-14.24	0.02	242	5055	3348	1948
	3770	0.40	77.50	3769.70	15	35	-14.51	0.05	241	5055	3351	1945
	3991	0.50	100.80	3990.69	15	37	-14.48	0.09	241	5055	3352	1944
	4023	0.40	82.90	4022.69	15	37	-14.47	0.54	241	5055	3353	1944
	4054	1.60	175.00	4053.69	14	37	-14.05	5.37	242	5055	3353	1943
	4086	4.10	177.90	4085.64	13	37	-12.46	7.82	243	5053	3353	1943
	4117	6.40	179.80	4116.51	10	37	-9.63	7.44	246	5050	3353	1943
	4149	6.50	173.00	4148.31	6	37	-6.04	2.41	250	5047	3353	1943
	4180	7.90	166.40	4179.06	2	38	-2.23	5.24	254	5043	3354	1942
	4212	10.70	166.00	4210.64	-3	39	2.80	8.75	259	5038	3355	1941
	4243	13.70	165.20	4240.94	-9	41	9.15	9.69	265	5032	3357	1940
	4274	17.50	165.00	4270.79	-17	43	17.22	12.26	273	5024	3359	1937
	4306	20.70	167.30	4301.02	-27	46	27.40	10.27	283	5013	3361	1935
	4337	23.20	170.40	4329.78	-39	48	38.78	8.89	295	5002	3363	1933
	4369	25.60	173.50	4358.92	-52	50	51.87	8.50	308	4989	3365	1931
	4401	28.10	176.50	4387.47	-66	51	66.28	8.88	322	4974	3366	1930
	4433	30.00	178.40	4415.44	-82	52	81.80	6.60	338	4959	3367	1929
	4465	31.60	180.40	4442.93	-98	52	98.18	5.94	354	4943	3367	1929
	4496	34.10	181.30	4468.97	-115	51	114.99	8.22	371	4926	3367	1930
	4529	36.10	181.50	4495.96	-134	51	133.96	6.07	390	4907	3366	1930
	4560	38.90	180.60	4520.56	-153	51	152.82	9.20	409	4888	3365	1931
	4592	42.20	180.60	4544.87	-173	50	173.62	10.31	430	4867	3365	1931
	4623	45.60	180.40	4567.20	-195	50	195.11	10.98	451	4846	3365	1931
Top of Tangent @ 5192'	4655	48.30	180.80	4589.04	-218	50	218.49	8.49	474	4822	3364	1932
	4687	51.20	180.80	4609.72	-243	50	242.91	9.06	499	4798	3364	1932
	4718	53.10	180.70	4628.74	-267	49	267.38	6.13	523	4773	3363	1933
	4750	55.40	181.10	4647.43	-293	49	293.34	7.26	549	4747	3363	1933
	4781	57.60	181.20	4664.54	-319	48	319.18	7.10	575	4722	3362	1934
Btm of Tangent @ 5380'	4813	59.50	181.60	4681.24	-346	48	346.47	6.03	602	4694	3361	1935
	4844	60.90	181.90	4696.64	-373	47	373.35	4.59	629	4667	3360	1936
	4875	63.30	182.10	4711.15	-400	46	400.72	7.76	657	4640	3359	1937
	4907	66.10	181.60	4724.82	-429	45	429.63	8.86	686	4611	3358	1938
	4938	69.00	181.50	4736.66	-458	44	458.26	9.36	714	4582	3357	1939
	4970	72.20	181.40	4747.29	-488	44	488.43	10.00	744	4552	3356	1940
	5002	75.20	181.60	4756.27	-519	43	519.12	9.39	775	4522	3355	1941
	5033	77.10	180.80	4763.69	-549	42	549.21	6.62	805	4492	3355	1941
	5065	79.90	180.60	4770.07	-580	42	580.56	8.77	837	4460	3354	1942
	5096	82.50	180.30	4774.81	-611	41	611.19	8.44	867	4430	3354	1942
	5128	84.00	180.30	4778.57	-643	41	642.96	4.69	899	4398	3353	1943
	5159	85.20	181.80	4781.49	-674	41	673.81	6.18	930	4367	3352	1943
	5191	87.00	182.70	4783.66	-705	39	705.71	6.29	962	4335	3351	1945
	5222	88.30	183.30	4784.94	-736	38	736.63	4.62	993	4304	3349	1947
	5254	89.00	183.20	4785.69	-768	36	768.56	2.21	1024	4272	3347	1949
	5286	89.50	183.40	4786.11	-800	34	800.49	1.68	1056	4240	3345	1951
	5318	89.90	183.20	4786.28	-832	32	832.43	1.40	1088	4208	3343	1953
	5350	89.60	182.70	4786.42	-864	31	864.37	1.82	1120	4176	3341	1955
	5382	88.70	182.30	4786.89	-896	29	896.33	3.08	1152	4144	3340	1956
	5413	88.50	182.50	4787.65	-927	28	927.29	0.91	1183	4114	3338	1958
	5445	88.40	183.10	4788.49	-958	27	958.23	1.96	1214	4083	3337	1959
	5476	89.10	182.80	4789.18	-990	25	990.17	2.38	1246	4051	3335	1961
	5498	88.40	183.00	4789.66	-1012	24	1012.13	3.31	1268	4029	3334	1962
	5572	88.40	183.50	4791.73	-1086	20	1085.96	0.68	1342	3955	3329	1967
	5667	89.00	183.50	4793.89	-1181	14	1180.72	0.63	1437	3860	3323	1973
	5761	86.80	182.70	4797.33	-1274	9	1274.49	2.49	1530	3766	3317	1979
	5856	86.90	182.20	4802.55	-1369	5	1369.23	0.54	1625	3672	3312	1983

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)				
								FNL	FSL	FWL	FEL
5952	87.30	182.70	4807.41	-1465	1	1465.00	0.67	1721	3576	3308	1988
6046	87.30	183.80	4811.84	-1559	-5	1558.71	1.17	1815	3482	3302	1994
6141	87.90	182.00	4815.81	-1654	-10	1653.47	2.00	1909	3388	3296	1999
6237	88.30	180.80	4819.00	-1749	-12	1749.37	1.32	2005	3292	3294	2002
6332	89.60	182.10	4820.74	-1844	-14	1844.31	1.94	2100	3197	3291	2005
6427	90.20	180.80	4820.90	-1939	-17	1939.26	1.51	2195	3102	3288	2008
6522	89.20	179.80	4821.40	-2034	-17	2034.25	1.49	2290	3007	3287	2009
6617	89.80	178.10	4822.23	-2129	-15	2129.24	1.90	2385	2912	3288	2008
6711	89.50	177.70	4822.80	-2223	-12	2223.19	0.53	2479	2818	3291	2005
6806	88.70	178.30	4824.30	-2318	-9	2318.13	1.05	2574	2723	3293	2002
6900	90.30	177.20	4825.12	-2412	-5	2412.07	2.07	2668	2629	3297	1999
6995	90.10	177.80	4824.79	-2507	-1	2507.00	0.67	2763	2534	3300	1995
7090	89.30	178.00	4825.28	-2602	3	2601.95	0.87	2858	2439	3303	1992
7186	87.70	177.70	4827.80	-2698	6	2697.87	1.70	2954	2343	3306	1989
7280	87.80	177.70	4831.49	-2792	10	2791.74	0.11	3048	2249	3309	1986
7375	88.00	177.60	4834.97	-2887	14	2886.62	0.24	3143	2154	3313	1982
7470	86.40	178.50	4839.61	-2981	17	2981.46	1.93	3237	2059	3315	1980
7564	88.10	179.00	4844.12	-3075	19	3075.34	1.88	3331	1966	3317	1978
7658	88.60	179.10	4846.82	-3169	21	3169.29	0.54	3425	1872	3318	1977
7753	89.70	178.90	4848.23	-3264	22	3264.27	1.18	3520	1777	3319	1976
7848	90.60	179.20	4847.98	-3359	24	3359.27	1.00	3615	1682	3320	1975
7942	89.80	179.00	4847.66	-3453	25	3453.26	0.88	3709	1588	3321	1974
8036	89.60	179.20	4848.15	-3547	27	3547.25	0.30	3803	1494	3322	1973
8131	89.10	179.40	4849.23	-3642	28	3642.24	0.57	3898	1399	3322	1972
8225	89.10	179.70	4850.70	-3736	29	3736.23	0.32	3992	1305	3323	1972
8319	89.00	179.20	4852.26	-3830	30	3830.22	0.54	4086	1211	3323	1972
8413	87.60	179.80	4855.05	-3924	30	3924.17	1.62	4180	1117	3323	1972
8508	88.80	180.00	4858.03	-4019	31	4019.12	1.28	4275	1022	3323	1972
8603	88.30	180.50	4860.44	-4114	30	4114.09	0.74	4370	927	3322	1973
8697	87.10	181.40	4864.21	-4208	29	4207.99	1.60	4464	833	3320	1975
8792	88.70	181.70	4867.69	-4303	26	4302.87	1.71	4559	738	3317	1978
8887	89.50	181.50	4869.18	-4398	23	4397.80	0.87	4654	643	3313	1981
8982	89.80	181.40	4869.76	-4493	21	4492.76	0.33	4749	548	3310	1984
9077	90.00	181.90	4869.93	-4588	18	4587.70	0.57	4844	453	3307	1987
9129	90.30	182.00	4869.79	-4640	17	4639.66	0.61	4896	401	3305	1989
9190	90.30	182.00	4869.47	-4701	14	4700.61	0.00	4957	340	3303	1992
								256	5041	3316	1980
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								256	5041	3316	1980

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/27/2013
Job End Date:	7/29/2013
State:	Kansas
County:	Harper
API Number:	15-077-21937-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	LIT Trust 3508 3-14H
Longitude:	-98.15280000
Latitude:	37.02100000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,869
Total Base Water Volume (gal):	1,730,482
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00446		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.23812		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Distillates (petroleum), hydrotreated light	64742-47-8	0.31253		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-propenamid	79-06-1	0.00134		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.12894		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00446		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14882		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00729		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00209		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00924		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Alkenes, C>10 a-	64743-02-8	0.00139		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Fatty acids, tall-oil	61790-12-3	0.00818		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02115		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monohexyl ether	31726-34-8	0.11592		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00774		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.03247		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00595		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00023		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00313		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.01114		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00446		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00893		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02976		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00673		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00102		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.77360		

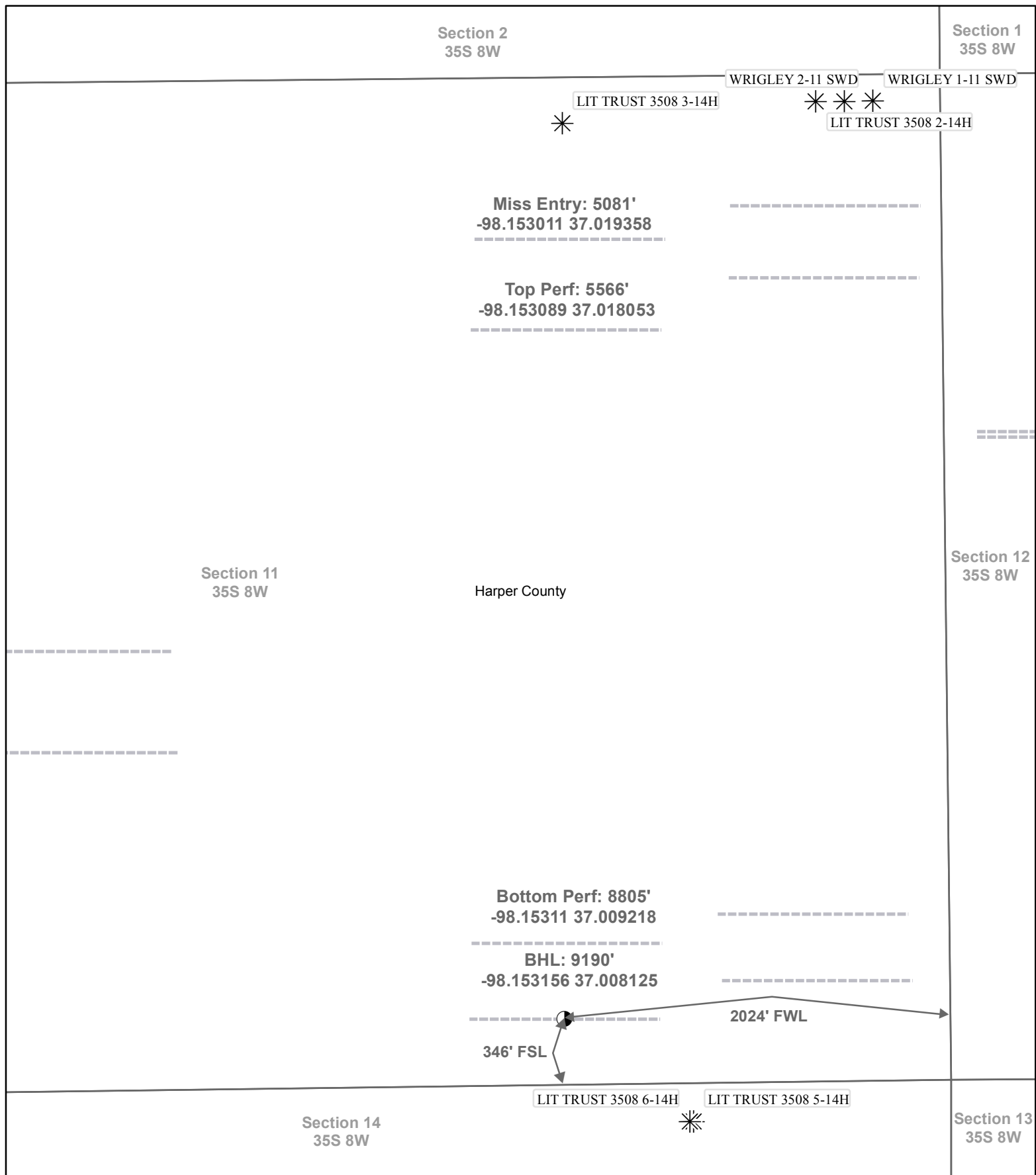
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00508		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02976		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethanol, 2,2',2''-nitrilotris-, 1,1',1''-tris(dihydrogen phosphate), sodium salt	68171-29-9	0.07386		

* 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)



Actual Bottom-Hole Location of LIT Trust 3508 3-14H
Harper County, Kansas
T&R: 35S 8W
Section: 11, 2024' FWL & 346' FSL
-98.386318 37.034951

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Aaron Birk

Draft Date: 9/20/2013

Drawing Name/Number:

Addendum_LIT Trust 3508 3-14H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany Golay 09/16/013 10:12 am	conductor weight= 133 lb/ft
Tiffany Golay 09/16/013 09:49 am	Well was completed using an open hole packer system; no liner was cemented
Tiffany Golay 09/26/013 08:22 am	Additional Fluid Mgmt Info: 3980 bbls soil farmed by Texoma tank Service LLC, SE/4 14-29N-9W, Alfalfa, OK