Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1189644

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: Wanda Ledbetter
Phone: (405) 429-5500
CONTRACTOR: License # 34464
Name: Lariat Services, Inc. dba Chaparral Supply, Hondo Heavy Haul
Wellsite Geologist: Hanna Thornberg
Purchaser: BS&W

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 #:

10/21/2013	11/17/2013	1/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21970-01-00
Spot Description:
NE - NE - NW - NE Sec. 14 Twp. 35 S. R. 8 ☐ East ☑ West
200 Feet from ☑ North / ☐ South Line of Section
1340 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 #: 6-14H
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1265 Kelly Bushing: 1283
Total Vertical Depth: 7754 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 769 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: 10000 ppm Fluid volume: 3470 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: DFD Disposal
Lease Name: unknown License #: 60374
Quarter NE Sec. 30 Twp. 27 S. R. 6 ☐ East ☑ West
County: Grant County, OK Permit #: 999999

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: 02/18/2014
☑ **Confidential Release Date:** 02/18/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 02/18/2014

[redacted] 1189644

Operator Name: SandRidge Exploration and Production LLC Lease Name: Lit Trust 3508 Well #: 6-14H

Sec. 14 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:

CML Impulse Shuttle Array Induction
Compact Photo Density Compensated Neutron

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

Name	Top	Datum
Base Heebner	3517	-2237
Lansing	3849	-2568
Cottage Grove	4184	+2873
Oswego	4684	-3214
Cherokee	4894	-3336
Verdigris	4936	-3357
Miss Lime	5573	-3515

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	30	20	75	90	Grade A	11	see report
Surface	12.25	9.625	36	769	Class A	405	see report
Intermediate	8.75	7	26	5810	Class A	340	see report

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: 4.5 Set At: 7754 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 1/4/2014

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	320	1000		

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: 5612-7700

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 6-14H
Doc ID	1189644

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5612-5615	Kiel Slickwater Frac	5612-5675
5	5672-5675	Kiel Slickwater Frac	5747-5950
5	5828-5831		
5	5905-5908		
5	5947-5950		
5	5989-5992	Kiel Slickwater Frac	5989-6120
5	6061-6064		
5	6117-6120		
5	6229-6232	Kiel Slickwater Frac	6229-6356
5	6293-6296		
5	6353-6356		
5	6447-6450	Kiel Slickwater Frac	6447-6608
5	6532-6535		
5	6605-6608		
5	6693-6696	Kiel Slickwater Frac	6693-6835
5	6772-6775		
5	6832-6835		
5	6922-6925	Kiel Slickwater Frac	6922-7080
5	7019-7022		
5	7077-7080		
5	7145-7148	Kiel Slickwater Frac	7145-7304
5	7209-7212		
5	7301-7304		
5	7377-7380	Kiel Slickwater Frac	7377-7508

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lit Trust 3508 6-14H
Doc ID	1189644

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7429-7432		
5	7505-7508		
5	7573-7576	Kiel Slickwater Frac	7573-7700
5	7640-7643		
5	7697-7700		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lit Trust 3508 6-14H
Doc ID	1189644

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Grade A	11	see report
Surface	12.25	9.625	36	769	Class A	405	see report
Intermediate	8.75	7	26	5810	Class A	340	see report

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/27/2013
Job End Date:	12/31/2013
State:	Kansas
County:	Harper
API Number:	15-077-21970-00-00
Operator Name:	SandRidge Energy
Well Name and Number:	Lit Trust 3508 6-14H
Longitude:	-98.15057751
Latitude:	37.00662901
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,869
Total Base Water Volume (gal):	2,345,280
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	94.74034	None
Sand (Proppant)	Company 2	Proppant					
			Silica Substrate	NA	100.00000	4.38168	None
Hydrochloric Acid (15%)	Company 2	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.11116	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00456	None
			Methyl Alcohol	67-56-1	80.00000	0.00089	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00017	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Acrylamide modified copolymer	NA	60.00000	0.00667	None
			Alphatic hydrocarbon	64742-47-8	30.00000	0.00334	None
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00102	None
			Ammonium cloride	12125-02-9	5.00000	0.00056	None
			Oxyalkylated Alcohol	NA	5.00000	0.00056	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00010	None
AIC	Archer	Liquid Acid Iron Control					

			Acetic Acid	64-19-7	50.00000	0.00200	None
			Citric Acid	77-92-9	30.00000	0.00120	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		0.04443	
			WATER	7732-18-5		0.02736	
			Aliphatic Hydrocarbon	64742-47-8		0.02221	
			Anionic Polymer	N/A		0.02221	
			TRADE SECRET	N/A		0.01824	
			Water	7732-18-5		0.01001	
			METHANOL	67-56-1		0.00456	
			ISOPROPANOL	67-63-0		0.00456	
			Polyol Ester	N/A		0.00370	
			Oxyalkylated Alcohol	68002-97-1		0.00370	
			Water	7732-18-5		0.00334	
			Acrylic Polymer	28205-96-1		0.00167	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00167	
			Water	7732-18-5		0.00140	
			Polyglycol Ester	N/A		0.00074	
			Polyol Ester	N/A		0.00056	
			Alkanolamide	N/A		0.00056	
			Alcohol Ethoxylate Surfactants	N/A		0.00017	
			Ammonium salt	7783-18-8		0.00011	
			Oxyalkylated fatty Acid Derivetive	N/A		0.00011	
			Alkanolamine	111-42-2		0.00011	
			Surfactant	N/A		0.00011	
			n-olefins	N/A		0.00009	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007	
			Propargyl Alcohol	107-19-7		0.00007	
			Buffer	N/A			
			Surfactant	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)

EDGE SERVICES
580-254-3216
Woodward, OK

INVOICE

DATE	INVOICE #
10/22/2013	4288

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

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

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	10/21/2013	3324	LARIAT 20	LIT TRUST 3508 614H	Due on rec...

Description
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED 1 LOAD(S) MUD FURNISHED WELDER AND MATERIALS FURNISHED 11 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 14" CONDUCTOR PIPE FOR MOUSE HOLE FURNISH 8' X 8' 1/2" PLATE FOR WELL COVER FURNISH 4 - 10' X 10' PANELS FOR SAFETY BARRIER TOTAL BID $ 19,000.00

AFE Number: DC13288
Well Name: LIT Trust 6-14H 3508
Code: 830-090
Amount: 19170.85
Co. Man: John Fortune
Co. Man Sig.:
Notes:

Sales Tax (6.15%)	$170.85
TOTAL	$19,170.85

ALLIED OIL & GAS SERVICES, LLC 059996

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge, Ks

DATE 11-11-2013	SEC. 14	TWP. 35s	RANGE 8w	CALLED OUT 1:30 pm	ON LOCATION 10:00 pm	JOB START 5:45 pm	JOB FINISH 7:00 pm
LEASE Li's Trust 3508	WELL # 6-14H		LOCATION Attica, Ks South to Hwy #2			COUNTY Harper	STATE Ks
OLD OR (NEW) (Circle one)			east to Watson Rd, 10s, 1e, ½n, e/into				

CONTRACTOR Larks #20
TYPE OF JOB Intermediate
HOLE SIZE 8 3/4 T.D. 5850'
CASING SIZE 7" 26lb DEPTH 5840'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 3,000 psi MINIMUM
MEAS. LINE SHOE JOINT 87'
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 220 bbls of Fresh water

OWNER SandRidge Energy

EQUIPMENT

PUMP TRUCK CEMENTER Darin F.
#558-555 HELPER Scott P.
BULK TRUCK
381-252 DRIVER James B.
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 240sx 50:50 poz + 2% Gel + .4% FL160 + .1% C-51, 100sx Class A + .8% FL160 + .2% CD-31, 6.9gal/sk BSF

COMMON Class A 100sx		@ 17.90	1,790.00
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
Super Flush	30 bbls	@ 58.70	1,761.00
Allied Solso Poz	240	@ 14.40	3,456.00
Fluid loss	157 lbs	@ 18.90	2,967.30
C-51	21 lbs	@ 17.55	368.55
CD-31	19 lbs	@ 10.30	195.70
Addition Hours	3	@ 440.00	1320.00
		@	
		@	
HANDLING	351.84 cuft	@ 2.48	872.56
MILEAGE	603.16 Ton Mile	2.60	1,568.22
		TOTAL	14,299.33

REMARKS:

P: Pipe on bottom & break Circulation, Pressure test to 3,000 psi, Pump 30 bbls BSF, Mix 240sx test Cement, Mix 100sx tail Cement Shut down, Release plug, Start displacement 1st pressure at 160 bbls, slow rate to 3bpm at 210 bbls, bump plug at 220 bbls 1000-1500 psi, floats held

SERVICE

DEPTH OF JOB 5850'
PUMP TRUCK CHARGE 3,099.25
EXTRA FOOTAGE @
MILEAGE 40 @ 7.70 308.00
MANIFOLD Head rental @ 275.00
Light Vehicle 40 @ 4.40 176.00
@
TOTAL 3,858.25

AFE Number: DC13288
Well Name: LIT Trust 3508 6-14H
CHARGE TO: 870 370
Amount: 12,779.92
STREET Co. Man: Bill Tomlinson
CITY Co. Man Sig.: STATE
Notes:

PLUG & FLOAT EQUIPMENT

7"
1-Rubber Plug @ 99.45
@
@
@
@
TOTAL 99.45

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME x Bill Tomlinson

SIGNATURE x Bill Tomlinson

Thank you!!!

SALES TAX (If Any)
TOTAL CHARGES 18,257.03
DISCOUNT 30% IF PAID IN 30 DAYS

$12,779.92

ALLIED OIL & GAS SERVICES, LLC 059597

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge, KS.

DATE 11-4-2013	SEC 14	TWP. 35 S	RANGE 8W	CALLED OUT 10:30 AM	ON LOCATION 11:30 AM	JOB START 5:35 PM	JOB FINISH 6:36 PM
LEASE Lit Trust	WELL # 3508 6-14 H	LOCATION Attica, KS. South to Hwy #2 East to Waldron Rd. 10 S. to 100th East 1/8 N, E/S				COUNTY Harper	STATE Kansas
OLD OR NEW (Circle one)							

CONTRACTOR Lariat Rig #20
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 770'
CASING SIZE 9 5/8 x 36# DEPTH 769'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 900 MINIMUM —
MEAS. LINE SHOE JOINT 43.95
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 56 1/2 Bbls Freshwater

OWNER Sandridge Energy

CEMENT

AMOUNT ORDERED
255 sx 65:35:6 Gel +2% cc + 1/4# Flocele
150 sx Class A + 2% cc + 1/4# Flocele

EQUIPMENT

PUMP TRUCK #548-545 CEMENTER Carl Balding
HELPER Jason Thiessen / Ron Gilley
BULK TRUCK # 421-290 DRIVER Carl Lackley
BULK TRUCK # DRIVER

COMMON A	150 sx	@ 17.90	2685.00
POZMIX		@	
GEL		@	
CHLORIDE	10 sx	@ 64.00	640.00
ASC		@	
ALW	255 sx	@ 16.50	4207.50
Floseal	102	@ 2.97	302.94
HANDLING	448.31	@ 2.48	1111.80
MILEAGE	768.86 / 2.60		1999.04
		TOTAL	10,946.28

REMARKS:

Have Safety Meeting + Rig up, Run 769' 9 5/8 Casing. Have Safety Meeting + pressure test to 2000 psi, Mix 255 sx lead cement + 150 sx tail cement, Release plug. Displace with 56 1/2 Bbls Freshwater, Bump Plug, Release pressure + Float Held. Circulate 100 sx cement to surface.

SERVICE

DEPTH OF JOB	769.97		
PUMP TRUCK CHARGE	2058.50		
EXTRA FOOTAGE		@	
MILEAGE	40	@ 7.70	308.00
MANIFOLD		@	275.00
	40	@ 4.40	176.00
		@	
		TOTAL	2817.50

AFE Number LVDC13282
Well Name: Lit Trust 3508 6-14H
Code: 8270.360
Amount: 13,948.64
Co. Man: Bill Tomlinson
Co. Man Sig.: Bill Tomlinson
Notes:

CHARGE TO: Sandridge Energy
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1 - Rubber plug		@	184.86
		@	
		@	
		@	
		@	
		TOTAL	184.86

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Bill Tomlinson
SIGNATURE Bill Tomlinson

SALES TAX (If Any)
TOTAL CHARGES 13,948.64
DISCOUNT IF PAID IN 30 DAYS
NET 9764.05

Sandridge

Location Kansas | Installation Harper County
Field Sec 14 - 35S - 8W | Well LIT Trust 3508 6-14H

Installation Data

Name	Latitude	Longitude	Northing	Easting
Harper County	N36 59 52.81	W98 9 50.87	120823.00	2098096.00
Coordinate System	Kansas State Planes, Southern Zone			

Slot Data

Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
LIT Trust 3508 6-14H	3155.81 N	3945.76 E	N37 0 23.87	W98 9 2.08	123979.00	2102042.00

Elevation Data

Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]
0.00	0.00	0.00

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00
KOP	3723.00	0.00	0.00	3723.00	0.00	0.00	0.00	-0.00
End of Build	4207.85	38.79	270.03	4171.66	0.09	-157.94	8.00	31.26
End of Hold	4265.56	38.79	270.03	4216.64	0.11	-194.09	0.00	38.42
Target LIT Trust 3508	5361.59	87.00	180.00	4788.75	-686.50	-624.96	8.00	796.89
Target LIT Trust 3508	5661.59	87.00	180.00	4804.45	-986.09	-624.96	0.00	1090.52
Target LIT Trust 3508	5674.15	88.00	180.00	4805.00	-998.70	-624.96	8.00	1102.88
T.D. & Target LIT Trust	7762.54	88.00	180.00	4877.80	-3085.83	-624.96	0.00	3148.48

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
5361.59	87.00	180.00	4788.75	-686.50	-624.96	LIT Trust 3508 6-14H - 87°	2101417.00 East : 123292.46 North
5661.59	87.00	180.00	4804.45	-986.09	-624.96	LIT Trust 3508 6-14H - End 87°	2101417.00 East : 122992.85 North
5674.15	88.00	180.00	4805.00	-998.70	-624.96	LIT Trust 3508 6-14H - LP	2101417.00 East : 122980.24 North
7762.54	88.00	180.00	4877.80	-3085.83	-624.96	LIT Trust 3508 6-14H - BHL	2101417.00 East : 120892.99 North

SandRidge ENERGY

DrillRight TECHNOLOGY, INC.

9630 Pole Rd.
Oklahoma City, OK 73160
Tel: (405) 604-2969

Created by admin
Date plotted 18-Nov-2013

Plot reference is LIT Trust 3508 6-14H (Plan).
Ref wellpath is LIT Trust 3508 6-14H (PWP#1).
Coordinates are in feet reference LIT Trust 3508 6-14H.
True Vertical Depths are reference LIT Trust 3508 6-14H.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.

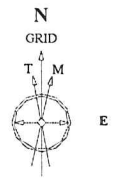
Target Line: 11-6-13
Target: 4767 KBTVD @ 0 VS
88° @ 191.45 Azimuth Plane

KOP: MD 3723
Start 8°/100 BR

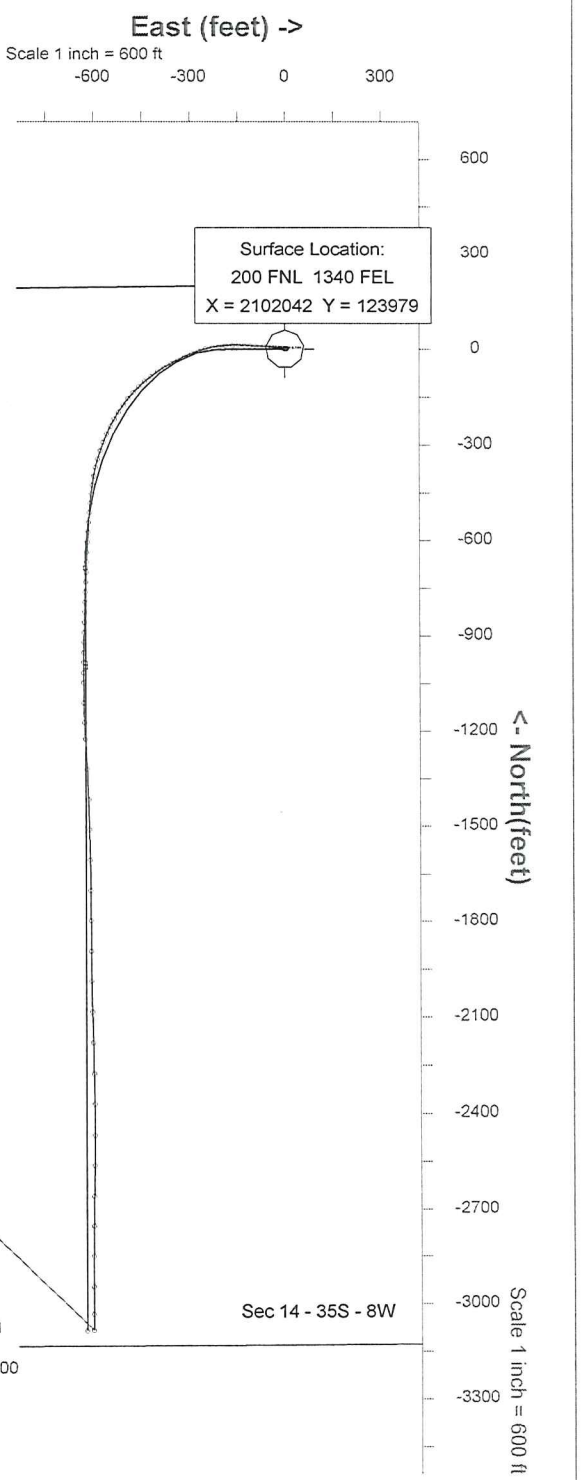
Gyro Surveys End Point 3600.00 md, 0.57 inc, 110.02 dir

Landing Point:
MD 5674 TVD 4805
S 999 W 625
88° @ 180 Azi
VS = 1111'

Projected BHL:
52 FSL 1959 FEL
X = 2101438 Y = 120895
S 3084 W 604
MD 7754 TVD 4869
VS = 3142'



16-Feb-2012
IGRF Model [1900.0-2015.0] Dip: 66.60 deg Field: 52771.8 nT
Magnetic North is 4.38 deg East of True North
GRID North is 0.21 deg East of True North
To correct azimuth from True to GRID subtract 0.21 deg
To correct azimuth from Magnetic to GRID add 4.18 deg



Standard Wellpath Report
Sandridge
Sec 14 - 35S - 8W, Kansas
Harper County
Wellbore: LIT Trust 3508 6-14H (Actual)

Wellbore

Name	Created	Last Revised
LIT Trust 3508 6-14H (Actual)	22-Oct-2013	18-Nov-2013

Well

Name	Government ID	Last Revised
LIT Trust 3508 6-14H		22-Oct-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
LIT Trust 3508 6-14H	123979.0000	2102042.0000	N37 0 23.8650	W98 9 2.0833	3155.81N	3945.76E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2098096.0000	120823.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 14 - 35S - 8W	2098096.0000	120823.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

Surveys to MD 3600' provided by Gyro.

FINAL SURVEYS:
MD 7754 is a projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot (LIT Trust 3508 6-14H 0.00ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 191.450 degrees
Bottom hole distance is 3142.48 Feet on azimuth 191.08 degrees from Wellhead
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Standard Wellpath Report
Sandridge
Sec 14 - 35S - 8W, Kansas
Harper County
Wellbore: LIT Trust 3508 6-14H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	2102042.00	123979.00
100.00	0.44	57.400	100.00	0.21N	0.32E	0.44	-0.27	2102042.32	123979.21
200.00	0.28	58.680	200.00	0.54N	0.86E	0.16	-0.70	2102042.86	123979.54
300.00	0.45	61.400	299.99	0.86N	1.41E	0.17	-1.12	2102043.41	123979.86
400.00	0.24	76.650	399.99	1.09N	1.96E	0.23	-1.46	2102043.96	123980.09
500.00	0.08	89.970	499.99	1.14N	2.23E	0.16	-1.56	2102044.23	123980.14
600.00	0.11	111.020	599.99	1.11N	2.39E	0.05	-1.56	2102044.39	123980.11
700.00	0.29	126.770	699.99	0.92N	2.68E	0.19	-1.43	2102044.68	123979.92
800.00	0.09	123.110	799.99	0.73N	2.95E	0.20	-1.30	2102044.95	123979.73
900.00	0.06	122.700	899.99	0.65N	3.06E	0.03	-1.25	2102045.06	123979.65
1000.00	0.21	108.730	999.99	0.57N	3.28E	0.15	-1.21	2102045.28	123979.57
1100.00	0.21	107.840	1099.99	0.45N	3.63E	==>	-1.16	2102045.63	123979.45
1200.00	0.19	93.350	1199.99	0.39N	3.97E	0.05	-1.17	2102045.97	123979.39
1300.00	0.18	59.820	1299.99	0.46N	4.27E	0.11	-1.29	2102046.27	123979.46
1400.00	0.38	47.990	1399.99	0.76N	4.65E	0.21	-1.66	2102046.65	123979.76
1500.00	0.19	41.350	1499.99	1.10N	5.01E	0.19	-2.08	2102047.01	123980.10
1600.00	0.22	36.510	1599.99	1.38N	5.23E	0.03	-2.39	2102047.23	123980.38
1700.00	0.18	23.100	1699.99	1.68N	5.41E	0.06	-2.72	2102047.41	123980.68
1800.00	0.15	17.310	1799.98	1.95N	5.51E	0.03	-3.00	2102047.51	123980.95
1900.00	0.09	21.790	1899.98	2.15N	5.57E	0.06	-3.21	2102047.58	123981.15
2000.00	0.11	26.290	1999.98	2.31N	5.65E	0.02	-3.38	2102047.65	123981.31
2100.00	0.06	147.180	2099.98	2.35N	5.72E	0.15	-3.44	2102047.72	123981.35
2200.00	0.14	201.580	2199.98	2.19N	5.70E	0.12	-3.28	2102047.70	123981.19
2300.00	0.24	210.880	2299.98	1.90N	5.55E	0.10	-2.96	2102047.55	123980.90
2400.00	0.15	229.380	2399.98	1.63N	5.34E	0.11	-2.66	2102047.34	123980.63
2500.00	0.28	262.370	2499.98	1.52N	5.00E	0.17	-2.48	2102047.00	123980.52
2600.00	0.25	287.340	2599.98	1.55N	4.55E	0.12	-2.42	2102046.55	123980.55
2700.00	0.30	284.830	2699.98	1.68N	4.09E	0.05	-2.46	2102046.09	123980.68
2800.00	0.34	293.650	2799.98	1.87N	3.56E	0.06	-2.54	2102045.56	123980.87
2900.00	0.30	312.520	2899.98	2.16N	3.10E	0.11	-2.73	2102045.10	123981.16
3000.00	0.14	322.570	2999.98	2.44N	2.83E	0.16	-2.95	2102044.83	123981.44
3100.00	0.03	308.770	3099.98	2.55N	2.74E	0.11	-3.04	2102044.74	123981.55
3200.00	0.09	222.500	3199.98	2.51N	2.66E	0.09	-2.99	2102044.66	123981.51
3300.00	0.31	103.510	3299.98	2.39N	2.87E	0.36	-2.91	2102044.87	123981.39
3400.00	0.46	105.670	3399.97	2.22N	3.52E	0.15	-2.87	2102045.52	123981.22
3500.00	0.70	95.860	3499.97	2.04N	4.52E	0.26	-2.90	2102046.52	123981.04
3600.00	0.57	110.020	3599.96	1.81N	5.59E	0.20	-2.89	2102047.59	123980.81
3652.00	0.40	73.300	3651.96	1.78N	6.01E	0.66	-2.93	2102048.01	123980.78
3684.00	0.80	278.300	3683.96	1.84N	5.89E	3.67	-2.97	2102047.90	123980.84
3715.00	2.60	274.700	3714.94	1.93N	4.98E	5.81	-2.88	2102046.98	123980.93
3747.00	4.50	275.900	3746.88	2.12N	3.01E	5.94	-2.67	2102045.01	123981.12
3779.00	6.70	277.200	3778.73	2.48N	0.09W	6.89	-2.41	2102041.91	123981.48
3810.00	8.30	279.600	3809.46	3.08N	4.09W	5.26	-2.21	2102037.91	123982.08
3842.00	10.10	278.700	3841.05	3.89N	9.15W	5.64	-2.00	2102032.85	123982.89
3874.00	12.40	277.100	3872.43	4.74N	15.33W	7.25	-1.60	2102026.67	123983.74
3906.00	14.80	276.500	3903.53	5.63N	22.80W	7.51	-0.99	2102019.20	123984.63
3937.00	18.00	274.900	3933.27	6.48N	31.51W	10.42	-0.10	2102010.49	123985.48
3969.00	20.20	273.700	3963.50	7.26N	41.95W	6.98	1.21	2102000.05	123986.26
4001.00	21.60	274.100	3993.40	8.04N	53.34W	4.40	2.71	2101988.66	123987.04
4033.00	23.60	273.200	4022.94	8.82N	65.61W	6.34	4.38	2101976.39	123987.82
4064.00	26.10	273.100	4051.07	9.53N	78.62W	8.07	6.26	2101963.38	123988.54
4096.00	28.80	273.300	4079.46	10.36N	93.34W	8.44	8.38	2101948.65	123989.36
4128.00	31.50	273.100	4107.13	11.26N	109.39W	8.44	10.68	2101932.60	123990.26
4160.00	34.40	273.100	4133.98	12.20N	126.77W	9.06	13.21	2101915.22	123991.20
4191.00	37.30	272.100	4159.10	13.01N	144.90W	9.54	16.01	2101897.09	123992.02
4223.00	39.80	269.400	4184.13	13.26N	164.84W	9.42	19.72	2101877.15	123992.26
4255.00	41.40	266.400	4208.43	12.49N	185.64W	7.89	24.61	2101856.35	123991.49
4287.00	42.30	262.400	4232.27	10.40N	206.88W	8.80	30.87	2101835.11	123989.40
4318.00	43.00	259.000	4255.07	7.00N	227.60W	7.77	38.31	2101814.39	123986.00
4350.00	44.20	255.100	4278.25	2.05N	249.10W	9.20	47.43	2101792.89	123981.05
4382.00	46.00	251.000	4300.84	4.56S	270.76W	10.68	58.22	2101771.22	123974.44
4413.00	47.50	247.700	4322.08	12.53S	291.88W	9.14	70.22	2101750.10	123966.47
4445.00	48.30	245.000	4343.54	22.06S	313.63W	6.74	83.87	2101728.35	123956.94
4477.00	49.40	242.500	4364.60	32.72S	335.23W	6.81	98.61	2101706.75	123946.28
4509.00	51.00	240.400	4385.08	44.47S	356.82W	7.10	114.41	2101685.16	123934.53
4541.00	51.50	238.500	4405.11	57.16S	378.31W	4.89	131.11	2101663.66	123921.84
4572.00	51.80	236.300	4424.35	70.25S	398.79W	5.65	148.01	2101643.19	123908.74
4604.00	51.60	233.100	4444.19	84.76S	419.28W	7.87	166.30	2101622.69	123894.23
4636.00	51.40	229.300	4464.11	100.45S	438.79W	9.31	185.55	2101603.18	123878.55
4667.00	51.70	225.700	4483.39	116.85S	456.69W	9.15	205.17	2101585.29	123862.15

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Vertical Section is from 0.00N 0.00E on azimuth 191.450 degrees
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Sandridge
Sec 14 - 35S - 8W, Kansas
Harper County
Wellbore: LIT Trust 3508 6-14H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
4699.00	51.60	222.300	4503.25	134.89S	474.12W	8.34	226.32	2101567.86	123844.10
4731.00	52.20	218.600	4523.00	154.05S	490.45W	9.29	248.34	2101551.53	123824.94
4763.00	52.90	215.500	4542.46	174.32S	505.75W	8.00	271.24	2101536.22	123804.67
4795.00	54.00	212.500	4561.52	195.63S	520.11W	8.28	294.98	2101521.85	123783.35
4827.00	55.80	209.700	4579.92	218.05S	533.63W	9.10	319.64	2101508.34	123760.94
4858.00	57.40	207.100	4596.99	240.82S	545.93W	8.70	344.39	2101496.04	123738.17
4890.00	58.60	204.400	4613.95	265.26S	557.72W	8.08	370.68	2101484.25	123713.73
4922.00	59.60	201.100	4630.38	290.57S	568.33W	9.38	397.60	2101473.64	123688.41
4954.00	60.70	198.400	4646.31	316.69S	577.70W	8.08	425.06	2101464.26	123662.29
4985.00	61.30	195.100	4661.34	342.65S	585.51W	9.51	452.06	2101456.45	123636.33
5017.00	61.90	192.400	4676.57	369.99S	592.20W	7.65	480.18	2101449.77	123608.99
5049.00	63.10	190.000	4691.34	397.83S	597.71W	7.64	508.56	2101444.26	123581.15
5080.00	65.20	188.400	4704.86	425.37S	602.17W	8.21	536.43	2101439.80	123553.61
5112.00	66.90	186.700	4717.85	454.36S	606.00W	7.20	565.61	2101435.96	123524.62
5144.00	68.90	185.500	4729.89	483.84S	609.15W	7.15	595.12	2101432.81	123495.14
5176.00	71.90	185.000	4740.62	513.85S	611.91W	9.49	625.09	2101430.05	123465.12
5208.00	74.30	184.600	4749.92	544.36S	614.47W	7.59	655.50	2101427.49	123434.61
5239.00	76.70	184.200	4757.69	574.28S	616.77W	7.84	685.28	2101425.19	123404.68
5271.00	79.00	183.300	4764.42	605.50S	618.82W	7.70	716.28	2101423.15	123373.47
5303.00	80.60	182.500	4770.09	636.95S	620.41W	5.57	747.42	2101421.55	123342.01
5335.00	82.70	182.200	4774.73	668.58S	621.71W	6.63	778.68	2101420.26	123310.38
5366.00	83.00	181.800	4778.59	699.32S	622.78W	1.60	809.03	2101419.18	123279.64
5398.00	83.90	182.200	4782.24	731.09S	623.89W	3.07	840.39	2101418.07	123247.86
5430.00	85.40	182.700	4785.23	762.92S	625.25W	4.94	871.85	2101416.71	123216.03
5461.00	85.60	182.100	4787.66	793.80S	626.55W	2.03	902.37	2101415.42	123185.15
5493.00	85.80	182.000	4790.06	825.69S	627.69W	0.70	933.85	2101414.27	123153.26
5525.00	86.10	181.700	4792.32	857.59S	628.72W	1.32	965.33	2101413.24	123121.36
5557.00	86.50	181.000	4794.38	889.52S	629.47W	2.52	996.77	2101412.49	123089.43
5588.00	87.30	180.900	4796.06	920.47S	629.98W	2.60	1027.20	2101411.98	123058.48
5620.00	87.90	180.900	4797.40	952.44S	630.49W	1.88	1058.63	2101411.48	123026.51
5652.00	88.60	180.500	4798.38	984.42S	630.88W	2.52	1090.06	2101411.09	122994.52
5684.00	88.80	180.000	4799.10	1016.41S	631.02W	1.68	1121.44	2101410.95	122962.53
5715.00	88.90	179.600	4799.73	1047.40S	630.91W	1.33	1151.79	2101411.05	122931.54
5779.00	88.60	179.000	4801.12	1111.38S	630.13W	1.05	1214.35	2101411.84	122867.55
5894.00	86.40	177.000	4806.14	1226.19S	626.12W	2.58	1326.07	2101415.84	122752.74
5989.00	86.10	176.500	4812.35	1320.83S	620.75W	0.61	1417.77	2101421.22	122658.09
6085.00	86.70	178.000	4818.38	1416.53S	616.15W	1.68	1510.65	2101425.81	122562.39
6180.00	87.40	178.600	4823.27	1511.36S	613.33W	0.97	1603.03	2101428.63	122467.55
6276.00	86.90	179.700	4828.04	1607.23S	611.91W	1.26	1696.71	2101430.05	122371.67
6372.00	87.10	178.700	4833.07	1703.09S	610.57W	1.06	1790.40	2101431.39	122275.81
6467.00	87.40	180.000	4837.62	1797.97S	609.50W	1.40	1883.18	2101432.47	122180.92
6563.00	88.50	179.800	4841.06	1893.91S	609.33W	1.16	1977.17	2101432.63	122084.98
6658.00	88.60	179.000	4843.46	1988.87S	608.34W	0.85	2070.05	2101433.63	121990.01
6754.00	87.90	178.100	4846.39	2084.79S	605.91W	1.19	2163.58	2101436.06	121894.08
6850.00	87.40	178.200	4850.33	2180.66S	602.81W	0.53	2256.93	2101439.15	121798.21
6945.00	88.00	178.400	4854.14	2275.54S	600.00W	0.67	2349.36	2101441.97	121703.32
7041.00	90.30	180.100	4855.57	2371.52S	598.74W	2.98	2443.17	2101443.23	121607.34
7137.00	91.50	180.000	4854.06	2467.50S	598.82W	1.25	2537.27	2101443.14	121511.35
7232.00	91.30	180.800	4851.74	2562.47S	599.49W	0.87	2630.48	2101442.48	121416.38
7328.00	89.90	180.900	4850.73	2658.45S	600.91W	1.46	2724.83	2101441.05	121320.39
7424.00	89.50	180.500	4851.24	2754.44S	602.08W	0.59	2819.15	2101439.88	121224.39
7520.00	88.00	180.600	4853.33	2850.41S	603.00W	1.57	2913.39	2101438.96	121128.42
7616.00	85.90	180.300	4858.44	2946.27S	603.76W	2.21	3007.49	2101438.21	121032.56
7704.00	85.40	180.100	4865.11	3034.01S	604.06W	0.61	3093.55	2101437.90	120944.81
7754.00	85.40	180.100	4869.12	3083.85S	604.15W	==>	3142.41	2101437.81	120894.96

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Sec 14 - 35S - 8W, Kansas
Harper County
Wellbore: LIT Trust 3508 6-14H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
3600.00	3599.96	1.81N	5.59E	Gyro Surveys End Point

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