



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1100437  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1100437

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lillian 3206 2-31H
Doc ID	1100437

All Electric Logs Run

CML Messenger Shuttle Array Induction Electric Log
CML Messenger Shuttle Compact Photo Density Dual Spaced Neutron Log
Boresight
Mudlog

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lillian 3206 2-31H
Doc ID	1100437

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8350-8774	1868 bbls of water, 385 bbls acid, 22M lbs sand, 2250 TLTR	
5	7764-8228	1852 bbls of water, 385 bbls acid, 22M lbs sand, 4486 TLTR	
5	7233-7660	1899 bbls of water, 385 bbls acid, 23M lbs sand, 6769 TLTR	
5	6740-7101	462 bbls of water, 96 bbls acid, 0M lbs sand, 7328 TLTR	
5	6286-6651	423 bbls of water, 96 bbls acid, 0M lbs sand, 7846 TLTR	
5	5815-6201	418 bbls of water, 96 bbls acid, 0M lbs sand, 8359 TLTR	
5	5305-5714	389 bbls of water, 96 bbls acid, 0M lbs sand, 8843 TLTR	
5	4796-5204	352 bbls of water, 96 bbls acid, 0M lbs sand, 9334 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Lillian 3206 2-31H
Doc ID	1100437

### 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	20	20	75	100	Mid-Continent Conductor Grout	10	none
Surface	12.25	9.63	36	703	O-Tex Lite Premium Plus/ Premium Plus (Class C)	380	(6% Gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	4985	50/50 Poz Premium/ Premium	300	4% Gel, .4% C-12, .1% C-37, .5% C-41P, 2 lb/sk Phenoseal
Production Liner	6.12	4.5	11.6	8926	50/50 Premium Poz	475	(4% gel) .4% C12, .1% C37, .5% C-41P, 2 lb/sk Phenoseal

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

November 09, 2012

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

Re: ACO1  
API 15-077-21883-01-00  
Lillian 3206 2-31H  
SW/4 Sec.31-32S-06W  
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 #
10/10/2012	1519

<b>Bill To</b>
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	10/10/2012	Lillian 2-31H, Harper Cnty., KS	Lariat 39

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 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Mud, Water, & Trucking	1	Transport mud and water to location.
Grout & Trucking	10	Furnished 10 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump.
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor & Equip. for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC12464  
 Well Name: Lillian 3206 2-31 H  
 Code: 850-010  
 Amount: 17,800<sup>00</sup>  
 Co. Man: David Montoya  
 Co. Man Sig.: [Signature]  
 Notes: 10-30-12

<b>Subtotal</b>	\$17,800.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$17,800.00</b>

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2055</b>	TICKET DATE <b>10/31/12</b>
COUNTY <b>HARPER</b>	State <b>KANSAS</b>	COMPANY <b>SANDRIDGE ENERGY</b>	CUSTOMER REP <b>DAVID MONTOYA</b>	
LEASE NAME <b>LILLIAN</b>	Well No. <b>1206 2-31</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Robert Burris</b>	

EMP NAME	Robert Burris	Frank Reeves			
Jessie McClain					
Rocky Anthis					
Wesley Truex					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At 0  
 Bottom Hole Temp. 80 Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 700

Date	Called Out <b>10/31/2012</b>	On Location <b>10/31/2012</b>	Job Started <b>10/31/2012</b>	Job Completed <b>10/31/2012</b>
Time	<b>08:30</b>	<b>11:15</b>	<b>19:04</b>	<b>19:58</b>

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

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		36#	9	5/8"	Surface	706
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12	1/4"	Surface	703
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Water	BBL.	10 8.33
Spacer type	BBL.		
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	ln	
NE Agent	Gal.	ln	
Fluid Loss	Gal/Lb	ln	
Gelling Agent	Gal/Lb	ln	
Fric. Red.	Gal/Lb	ln	
MISC.	Gal/Lb	ln	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/31	9.0	10/31	1.0	Surface
Total	9.0	Total	1.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Pressures		
MAX	1,500 PSI	AVG. 375
Average Rates in BPM		
MAX	6 BPM	AVG 4
Cement Left in Pipe		
Feet	47	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	260	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	120	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	0	0		0.00	0.00	0.00

Summary					
Preflush Breakdown	_____	Type: _____	Preflush: BBI _____	_____	Type: Fresh Water
	MAXIMUM	1,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Lost Returns-N	NO/FULL	Excess /Return BBI		Calc. Disp Bbl 51
	Actual TOC	SURFACE	Calc. TOC:		Actual Disp. 61.00
Average	Bump Plug PSI:	1,100	Final Circ. PSI:	450	Disp:Bbl _____
ISIP _____	5 Min. _____	10 Min. _____	15 Min. _____	Cement Slurry: BBI	_____
			Total Volume	BBI	174.00

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2077</b>	TICKET DATE <b>11/04/12</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Harold Roller</b>	
LEASE NAME <b>Lillian</b>	Well No. <b>1206 2-31</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>NATHAN COTTA</b>	

EMP NAME									
<b>NATHAN COTTA</b>									
<b>ARTHUR S.</b>									
<b>MIKE C.</b>									
<b>JAMES K.</b>									

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **3,642**

Bottom Hole Temp. **155** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **5010**

Date	Called Out	On Location	Job Started	Job Completed
	<b>11.5.12</b>	<b>11.6.12</b>	<b>11.6.12</b>	<b>11.6.12</b>
Time	<b>500</b>	<b>830</b>	<b>1217</b>	<b>1323</b>

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

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,010	Shots/Ft.
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	<b>9</b> Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b> Lb/Gal
Spacer type	Fresh Water	BBL.	<b>20</b> 8.33
Spacer type	Caustic	BBL.	<b>10</b> 8.40
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>11.5.12</b>		<b>11.5.12</b>		Intermediate
Total	<b>0.0</b>	Total	<b>0.0</b>	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Pressures		
MAX	3500	AVG 300
Average Rates in BPM		
MAX	8 BPM	AVG 5
Cement Left in Pipe		
Feet	91	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	200	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary							
Preflush	<b>10</b>	Type:	Caustic	Preflush:	BBI	<b>20.00</b>	Type: WEIGHTED SP.
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	<b>N/A</b>	Pad:Bbl - Gal <b>N/A</b>
		Lost Returns-N	NO/FULL	Excess /Return	BBI	<b>N/A</b>	Calc. Disp Bbl <b>187</b>
		Actual TOC	3.264	Calc. TOC:		3.264	Actual Disp. <b>187.00</b>
Average		Bump Plug PSI:	1,500	Final Circ.	PSI:	1,000	Disp:Bbl <b>187.00</b>
5 Min		10 Min		Cement Slurry:	BBI	<b>72.0</b>	
		15 Min		Total Volume	BBI	<b>279.00</b>	

CUSTOMER REPRESENTATIVE *Harold Roller* SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2094</b>	TICKET DATE <b>11/09/12</b>
COUNTY <b>HARPER</b>	State <b>KANSAS</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>DAVID MONTOYA</b>	
LEASE NAME <b>LILLIAN</b>	Well No. <b>I206 2-311</b>	JOB TYPE <b>Liner</b>	EMPLOYEE NAME <b>Matt Wilson</b>	

EMP NAME					
Matt Wilson		0.00			
Emmit Brock					
David Thomas					
Dustin Odum					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**

Bottom Hole Temp. **150** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **8926**

Date	Called Out	On Location	Job Started	Job Completed
	<b>11/9/2012</b>	<b>11/9/2012</b>	<b>11/9/2012</b>	<b>11/9/2012</b>
Time	<b>9:00 am</b>	<b>1:00 pm</b>	<b>7:04 pm</b>	<b>9:00 pm</b>

Tools and Accessories

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

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4	1/2	5474	8,926	
Liner Tool							
HWDP					3,288	5,474	
Drill Pipe			4		0	3,288	
Drill Collars							
Open Hole			6	1/8"	Surface	8,926	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9.1	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	resh Wate BBL.		20	8.33
Spacer type	Caustic BBL.		10	8.40
Acid Type	Gal.		%	
Acid Type	Gal.		%	
Surfactant	Gal.		In	
NE Agent	Gal.		In	
Fluid Loss	Gal/Lb		In	
Gelling Agent	Gal/Lb		In	
Fric. Red.	Gal/Lb		In	
MISC.	Gal/Lb		In	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11/9	8.0	11/9	6.0	Liner
Total	8.0	Total	6.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Pressures

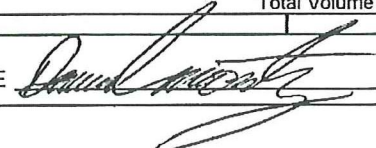
MAX	3,500 PSI	AVG.	400
Average Rates in BPM			
MAX	6 BPM	AVG	4
Cement Left in Pipe			
Feet	88	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	475	60/60 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal			
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary

Preflush	10-	Type: Caustic	Preflush: BBI	20.00	Type: 8.59#/SPACER
Breakdown		MAXIMUM 3,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N NO/FULL	Excess /Return BBI	N/A	Calc. Disp Bbl 107
		Actual TOC 4,697'	Calc. TOC:	4,697'	Actual Disp. 107.00
Average		Bump Plug PSI:	Final Circ. PSI:	800	Disp:Bbl
ISIP	5 Min.	10 Min.	15 Min.	122.0	
			Total Volume	BBI 249.00	

CUSTOMER REPRESENTATIVE  SIGNATURE



Lillian 3206 2-31H

SandRidge

Lariat 39

Harper Co, Kansas

Minimum Curvature Calculation

MWD Matt Stanaland / Kyle Harri

DIRECTIONAL DRILLERS: Doug Bennett / Brandon Cr

Magnetic Declination: 4.54

Job #: DR1210165

Vertical Section Azimuth 357.31

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/ 100	BUR	WR
Tie	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
1	933	2.50	278.70	932.70	3.08	-20.12	4.02	0.27	0.27	8.71
2	1395	1.60	256.30	1394.41	3.07	-36.34	4.78	0.26	-0.19	-4.85
3	1870	0.90	290.10	1869.30	2.79	-46.29	4.96	0.21	-0.15	7.12
4	2345	0.40	270.20	2344.27	4.07	-51.45	6.48	0.11	-0.11	-4.19
5	2820	0.50	315.90	2819.26	5.57	-54.55	8.12	0.08	0.02	9.62
6	3295	0.30	335.00	3294.24	8.18	-56.52	10.83	0.05	-0.04	4.02
7	3580	0.30	154.40	3579.24	8.19	-56.51	10.83	0.21	0.00	-62.95
8	3611	0.30	112.00	3610.24	8.08	-56.40	10.72	0.70	0.00	-136.77
9	3642	1.20	26.80	3641.24	8.34	-56.18	10.97	3.91	2.90	-274.84
10	3674	3.80	20.10	3673.21	9.64	-55.67	12.24	8.16	8.13	-20.94
11	3706	6.50	15.70	3705.07	12.38	-54.81	14.94	8.52	8.44	-13.75
12	3737	9.10	12.70	3735.79	16.46	-53.80	18.97	8.49	8.39	-9.68
13	3769	11.20	12.60	3767.28	21.96	-52.56	24.40	6.56	6.56	-0.31
14	3801	13.00	12.10	3798.57	28.51	-51.13	30.88	5.63	5.63	-1.56
15	3832	14.70	22.10	3828.67	35.57	-48.92	37.83	9.45	5.48	32.26
16	3864	16.40	9.00	3859.51	43.80	-46.68	45.94	12.16	5.31	-40.94
17	3896	18.00	7.60	3890.08	53.16	-45.32	55.23	5.16	5.00	-4.38
18	3927	19.80	6.80	3919.41	63.12	-44.07	65.12	5.87	5.81	-2.58
19	3959	22.30	6.70	3949.27	74.53	-42.72	76.46	7.81	7.81	-0.31
20	3991	24.50	6.80	3978.63	87.15	-41.22	88.99	6.88	6.88	0.31
21	4022	27.40	6.80	4006.51	100.62	-39.62	102.37	9.35	9.35	0.00
22	4054	30.00	7.90	4034.57	115.86	-37.65	117.50	8.29	8.13	3.44
23	4086	31.80	9.30	4062.03	132.11	-35.18	133.61	6.06	5.63	4.38
24	4117	34.20	9.00	4088.03	148.78	-32.50	150.14	7.76	7.74	-0.97
25	4149	36.30	6.40	4114.16	167.07	-30.04	168.30	8.06	6.56	-8.13
26	4181	38.40	5.30	4139.60	186.39	-28.06	187.50	6.89	6.56	-3.44
27	4212	40.20	4.60	4163.58	205.95	-26.37	206.96	5.98	5.81	-2.26
28	4244	41.80	2.60	4187.73	226.90	-25.06	227.82	6.47	5.00	-6.25
29	4276	43.70	2.00	4211.23	248.60	-24.19	249.46	6.07	5.94	-1.88
30	4307	45.30	1.70	4233.34	270.32	-23.49	271.12	5.21	5.16	-0.97
31	4371	49.90	1.00	4276.49	317.55	-22.39	318.25	7.23	7.19	-1.09
32	4434	50.10	0.10	4316.98	365.81	-21.92	366.43	1.14	0.32	-1.43
33	4466	49.50	359.30	4337.64	390.25	-22.05	390.85	2.68	-1.88	2.50
34	4497	49.20	359.30	4357.83	413.77	-22.34	414.36	0.97	-0.97	0.00
35	4529	48.40	359.40	4378.91	437.84	-22.61	438.42	2.51	-2.50	0.31
36	4561	48.70	359.20	4400.09	461.83	-22.90	462.39	1.05	0.94	-0.62
37	4592	51.20	359.00	4420.04	485.55	-23.28	486.11	8.08	8.06	-0.65
38	4624	54.30	358.80	4439.41	511.01	-23.77	511.57	9.70	9.69	-0.62



Lillian 3206 2-31H

SandRidge

Lariat 39

Harper Co, Kansas

Minimum Curvature Calculation

MWD Matt Stanaland / Kyle Harri

DIRECTIONAL DRILLERS: Doug Bennett / Brandon Cr

Magnetic Declination: 4.54

Job #: DR1210165

Vertical Section Azimuth 357.31

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/ 100	BUR	WR
39	4656	56.80	358.70	4457.51	537.39	-24.34	537.94	7.82	7.81	-0.31
40	4687	59.50	359.20	4473.86	563.72	-24.82	564.26	8.82	8.71	1.61
41	4719	62.70	359.20	4489.33	591.73	-25.22	592.26	10.00	10.00	0.00
42	4750	65.90	359.30	4502.77	619.66	-25.58	620.17	10.33	10.32	0.32
43	4782	70.00	358.90	4514.78	649.30	-26.05	649.81	12.86	12.81	-1.25
44	4814	73.70	357.80	4524.74	679.69	-26.93	680.21	12.01	11.56	-3.44
45	4845	77.20	356.40	4532.53	709.66	-28.45	710.21	12.11	11.29	-4.52
46	4877	81.60	355.90	4538.42	741.03	-30.56	741.65	13.84	13.75	-1.56
47	4909	85.80	355.90	4541.93	772.75	-32.83	773.44	13.13	13.13	0.00
48	4935	89.20	356.20	4543.06	798.66	-34.62	799.40	13.13	13.08	1.15
49	4960	90.50	356.10	4543.13	823.60	-36.30	824.40	5.22	5.20	-0.40
50	5028	91.40	356.80	4542.00	891.46	-40.51	892.38	1.68	1.32	1.03
51	5058	91.20	356.80	4541.32	921.41	-42.19	922.37	0.67	-0.67	0.00
52	5150	92.40	357.50	4538.43	1013.24	-46.76	1014.32	1.51	1.30	0.76
53	5242	91.90	357.10	4534.98	1105.08	-51.09	1106.26	0.70	-0.54	-0.43
54	5334	91.70	356.80	4532.09	1196.90	-55.98	1198.21	0.39	-0.22	-0.33
55	5426	91.50	356.90	4529.52	1288.73	-61.03	1290.17	0.24	-0.22	0.11
56	5518	91.20	356.20	4527.35	1380.53	-66.57	1382.14	0.83	-0.33	-0.76
57	5610	90.60	355.70	4525.91	1472.29	-73.07	1474.10	0.85	-0.65	-0.54
58	5702	91.40	357.10	4524.30	1564.09	-78.84	1566.07	1.75	0.87	1.52
59	5797	90.60	359.00	4522.64	1659.02	-82.07	1661.04	2.17	-0.84	2.00
60	5891	90.60	0.20	4521.66	1753.01	-82.73	1754.96	1.28	0.00	-1.28
61	5986	90.20	0.70	4521.00	1848.00	-81.98	1849.82	0.67	-0.42	0.53
62	6081	90.60	1.50	4520.33	1942.98	-80.16	1944.60	0.94	0.42	0.84
63	6176	92.60	359.70	4517.68	2037.93	-79.16	2039.40	2.83	2.11	1.89
64	6271	92.10	355.40	4513.78	2132.74	-83.22	2134.30	4.55	-0.53	-4.53
65	6366	91.10	353.40	4511.13	2227.25	-92.49	2229.13	2.35	-1.05	-2.11
66	6461	90.10	354.70	4510.13	2321.73	-102.34	2323.97	1.73	-1.05	1.37
67	6556	89.20	354.50	4510.71	2416.30	-111.28	2418.86	0.97	-0.95	-0.21
68	6651	89.20	354.10	4512.04	2510.82	-120.71	2513.72	0.42	0.00	-0.42
69	6746	90.50	354.60	4512.29	2605.36	-130.06	2608.59	1.47	1.37	0.53
70	6841	91.30	357.40	4510.80	2700.11	-136.69	2703.55	3.06	0.84	2.95
71	6936	91.30	356.80	4508.64	2794.96	-141.49	2798.52	0.63	0.00	-0.63
72	7031	91.00	357.00	4506.74	2889.80	-146.63	2893.50	0.38	-0.32	0.21
73	7126	90.70	356.70	4505.33	2984.65	-151.85	2988.48	0.45	-0.32	-0.32
74	7221	90.60	358.70	4504.25	3079.56	-155.66	3083.47	2.11	-0.11	2.11
75	7316	90.60	358.00	4503.25	3174.51	-158.40	3178.45	0.74	0.00	-0.74
76	7411	90.30	357.30	4502.51	3269.43	-162.29	3273.44	0.80	-0.32	-0.74
77	7506	90.00	357.90	4502.26	3364.35	-166.27	3368.44	0.71	-0.32	0.63



Lillian 3206 2-31H  
SandRidge  
Lariat 39  
Harper Co, Kansas  
Minimum Curvature Calculation

MWD Matt Stanaland / Kyle Harri:  
DIRECTIONAL DRILLERS: Doug Bennett / Brandon Cr  
Magnetic Declination: 4.54  
Job #: DR1210165  
Vertical Section Azimuth 357.31

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/ 100	BUR	WR
78	7601	90.30	357.00	4502.01	3459.25	-170.50	3463.44	1.00	0.32	-0.95
79	7696	90.60	357.20	4501.26	3554.13	-175.30	3558.44	0.38	0.32	0.21
80	7791	91.20	357.40	4499.77	3649.01	-179.78	3653.42	0.67	0.63	0.21
81	7886	91.90	357.20	4497.20	3743.87	-184.25	3748.39	0.77	0.74	-0.21
82	7981	92.00	359.60	4493.97	3838.77	-186.90	3843.31	2.53	0.11	2.53
83	8076	91.40	358.40	4491.15	3933.71	-188.56	3938.22	1.41	-0.63	-1.26
84	8171	90.40	357.90	4489.66	4028.65	-191.63	4033.20	1.18	-1.05	-0.53
85	8266	89.60	357.40	4489.66	4123.57	-195.52	4128.20	0.99	-0.84	-0.53
86	8361	91.60	357.30	4488.66	4218.45	-199.91	4223.19	2.11	2.11	-0.11
87	8456	91.60	356.30	4486.01	4313.27	-205.21	4318.15	1.05	0.00	-1.05
88	8551	91.20	356.90	4483.69	4408.07	-210.85	4413.11	0.76	-0.42	0.63
89	8646	90.40	356.20	4482.36	4502.89	-216.56	4508.09	1.12	-0.84	-0.74
90	8741	89.60	356.10	4482.36	4597.67	-222.94	4603.07	0.85	-0.84	-0.11
91	8836	91.10	356.20	4481.78	4692.46	-229.32	4698.05	1.58	1.58	0.11
92	8876	92.20	356.10	4480.63	4732.35	-232.00	4738.02	2.76	2.75	-0.25

Section 25  
32S 7W

Section 30  
32S 6W

RICHARD 3206 2-30H

RICHARD 3206 1-30H

468' FWL      306' FNL

BHL: 8926'  
-98.019251 37.223885

Bottom Perf: 8350'  
-98.019139 37.222337

Section 36  
32S 7W

Section 31  
32S 6W

Top Perf: 4796'  
-98.018608 37.212616

Miss Entry: 4750'  
-98.018604 37.212451

LILLIAN 3206 2-31H

Section 1  
33S 7W

Section 6  
33S 6W



Actual Bottom-Hole Location of Lillian 3206 2-31H  
Harper County, Kansas

T&R: 32S 6W  
Section: 31, 468' FWL & 306' FNL  
Long/Lat: -98.019251 37.223885

1 in = 667 ft

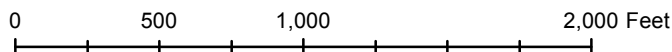


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 1/30/2013

Drawing Name/Number:

Addendum\_Lillian\_2-31H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

Tiffany Golay  
01/31/013  
09:16 am  
Correction to Remark below: only 7760 bbls soil farmed. Permit number 12-21703

Tiffany Golay  
01/21/013  
03:11 pm  
Additional Fluid Mgmt Info: 9120 bbls soil farmed by Mudslingers LLC, NE/4 4-28N-6W, Grant, OK 12-21549

Tiffany Golay  
01/14/013  
09:44 am  
Conductor weight= 94 lbs/ft