



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1121025  
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: \_\_\_\_\_



1121025

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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

<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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	4J Ranch 3408 1-33H
Doc ID	1121025

All Electric Logs Run

Density
Induction
Boresight
Mudlog
Prizm

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	4J Ranch 3408 1-33H
Doc ID	1121025

Tops

Name	Top	Datum
Base Heebner	3491	
Lansing	3814	
Cottage Grove	4094	
Oswego Limestone	4404	
Cherokee Group	4526	
Verdigris Limestone	4556	
Mississippi Unconformity	4692	
Mississippi Limestone	4733	

Form	ACO1 - Well Completion
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Doc ID	1121025

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8702-9035	5182 bbls water, 36 bbls acid, 100M lbs sd, 5249 TLTR	
5	8280-8638	5175 bbls water, 36 bbls acid, 100M lbs sd, 10657 TLTR	
5	7866-8206	5269 bblswater, 36 bbls acid, 100M lbs sd, 16150 TLTR	
5	7457-7800	5162 bbls water, 36 bbls acid, 100M lbs sd, 21446 TLTR	
5	7068-7404	5156 bbls water, 36 bbls acid, 100M lbs sd, 26849 TLTR	
5	6638-6935	5150 bbls water, 36 bbls acid, 100M lbs sd, 31982 TLTR	
5	6183-9575	5143 bbls water, 36 bbls acid, 100M lbs sd, 30885 TLTR	
5	5823-6110	5137 bbls water, 36 bbls acid, 100M lbs sd, 42084 TLTR	
5	5448-5730	5131 bbls water, 36 bbls acid, 100M lbs sd, 47434 TLTR	
5	5048-5330	5125 bbls water, 36 bbls acid, 100M lbs sd, 52561 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	4J Ranch 3408 1-33H
Doc ID	1121025

### 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	106	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	775	O-Tex Lite Premium Plus 65/ Premium Plus (Class C)	510	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5242	50/50 Poz Premium/ Premium	300	4% gel, .4% C-12, .1% C-37, .5% C-41P, 1 lb/sk Phenoseal
Production Liner	6.12	4.5	11.6	9138	50/50 Premium Poz	465	4% gel, .4% C-12, .1% C-37, .5% C-41P, 1 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

March 04, 2013

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

Re: ACO1  
API 15-077-21906-01-00  
4J Ranch 3408 1-33H  
SE/4 Sec.33-34S-08W  
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tiffany Golay

# Mid-Continent Conductor, LLC

## Invoice

Date	Invoice #
2/5/2013	1698

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

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Joe Turner	Net 45	2/5/2013	4J Ranch 3408 1-33H, Harper Cnty, KS	Unit 9

Item	Quantity	Description
Conductor Hole	1	90 Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Transport Truck - Conductor	1	Furnished transport truck and water to displace cement down center of conductor
Grout & Trucking	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
Fence Panels	4	Furnished and set fence panels 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 Number: OC 12689  
 Well Name: 4J Ranch 1-33 H  
 Code: 8501010  
 Amount: 19,340.00  
 Co. Man: JO BIAS  
 Co. Man Sig.: JOB  
 Notes: \_\_\_\_\_

<b>Subtotal</b>	\$19,340.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$19,340.00</b>



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2438</b>	TICKET DATE <b>02/16/13</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>DeWayne Burt</b>	
LEASE NAME <b>4J Ranch 3408</b>	Well No. <b>1-33H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Daniel Wells</b>	

EMP NAME					
Daniel Wells					
Cheryl Newton					
David Settlemier					
Kevin Johnson					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At 0  
Bottom Hole Temp. 80 Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth 800

Date	Called Out <b>2/16/2013</b>	On Location <b>2/16/2013</b>	Job Started <b>2/16/2013</b>	Job Completed <b>2/16/2013</b>
Time	<b>0800</b>	<b>1200</b>	<b>1415</b>	<b>1530</b>

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	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	779
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	775
Perforations						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>10</b> <b>8.33</b>
Spacer type	BBL.		
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Gelling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/16	4.0	2/16	1.5	Surface
Total	4.0	Total	1.5	

Pressures		
MAX	1,500 PSI	AVG. 200
Average Rates in BPM		
MAX	6 BPM	AVG 5
Cement Left in Pipe		
Feet	44	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	350	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	160	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80

Summary							
Preflush Breakdown	<u>10.00</u>	Type: Fresh Water	Preflush: BBI	<u>10.00</u>	Type: Fresh Water	Pad:Bbl - Gal	<u>N/A</u>
	MAXIMUM	<u>1,500 PSI</u>	Load & Bkdn: Gal - BBI	<u>N/A</u>	Calc. Disp Bbl	<u>57</u>	
	Lost Returns-N	<u>NO/FULL</u>	Excess /Return BBI	<u>40</u>	Actual Disp.	<u>55.80</u>	
	Actual TOC	<u>SURFACE</u>	Calc. TOC:	<u>SURFACE</u>	Disp:Bbl	<u>55.80</u>	
Average	Bump Plug PSI:	<u>860</u>	Final Circ. PSI:	<u>300</u>			
IS:F _____ 5 Min.	10 Min	<u>15 Min</u>	Cement Slurry: BBI	<u>152.3</u>			
			Total Volume BBI	<u>219.11</u>			

CUSTOMER REPRESENTATIVE J D Burt SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2457</b>	TICKET DATE <b>02/21/13</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Jerry Bias</b>	
LEASE NAME <b>4J Ranch 3408</b>	Well No. <b>1-33H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Robert Burris</b>	

EMP NAME	<b>Robert Burris</b>	<b>Brett Armer</b>				
	<b>Mike Chalfant</b>					
	<b>Frank Reeves</b>					
	<b>Robert Stonehocker</b>					

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

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

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

Retainer Depth \_\_\_\_\_ Total Depth **5242**

Date	Called Out	On Location	Job Started	Job Completed
	<b>2/21/2013</b>	<b>2/22/2013</b>	<b>2/22/2013</b>	<b>2/22/2013</b>
Time	<b>19:00</b>	<b>24:00</b>	<b>11:40</b>	<b>14:00</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	5,245	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,242	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b>
Spacer type	Gel	BBL.	<b>30</b>
Spacer type	BBL.		<b>8.60</b>
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In
Perfpac Balls		Qty.	
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
2/22	14.0	2/22	1.7	Intermediate
Total	14.0	Total	1.7	

Pressures		
MAX	5,000 PSI	AVG 475
Average Rates in BPM		
MAX	8 BPM	AVG 4
Cement Left in Pipe		
Feet	87	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 - 1 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 Breakdown	Type: _____	MAXIMUM _____	Lost Returns-N _____	Actual TOC _____	Bump Plug PSI: _____
Average ISIF _____	5 Min. _____	10 Min. _____	15 Min. _____	Preflush: BBI _____	Load & Bkdn: Gal - BBI _____
				Excess /Return BBI _____	Calc. TOC: _____
				Final Circ. PSI: _____	Cement Slurry: BBI _____
				Total Volume BBI _____	297.00

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

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK2474</b>	TICKET DATE <b>03/01/13</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Jerry Bias</b>	
LEASE NAME <b>4J Ranch 3408</b>	Well No. <b>1-33H</b>	JOB TYPE <b>Liner</b>	EMPLOYEE NAME <b>Arthur Setzer</b>	

EMP NAME <b>Arthur Setzar</b>	<b>Brett Armor</b>				
<b>Jared Green</b>					
<b>David Thomas</b>					
<b>Kevin Johnson</b>					

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

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

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

Retainer Depth \_\_\_\_\_ Total Depth 0

Date	Called Out <b>3/2/2013</b>	On Location <b>3/2/2013</b>	Job Started <b>3/2/2013</b>	Job Completed <b>3/2/2013</b>
Time	<b>0100</b>	<b>0400</b>	<b>0700</b>	<b>1100</b>

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

New/Used		Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4 1/2		4783	9,145	
Liner Tool							
HWDP					3,404	4,783	
Drill Pipe			3 1/2"		surface	3,404	
Drill Collars							
Open Hole			6 1/8"		Surface	0	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	<b>WBM</b>	Density	<b>9.1</b> Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b> Lb/Gal
Spacer type	resh Wate 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
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/2	7.0	3/2	4.0	Liner
Total	7.0	Total	4.0	

Pressures	
MAX	3,500 PSI
AVG	
Average Rates in BPM	
MAX	6 BPM
AVG	
Cement Left in Pipe	
Feet	Reason SHOE JOINT

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	465	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary			
Preflush Breakdown	Type: _____	MAXIMUM _____	3,500 PSI
	Lost Returns-N _____	NO/FULL _____	
Average	Actual TOC _____	Bump Plug PSI: _____	4,697'
ISIP _____ 5 Min.	10 Min _____	15 Min _____	
Preflush: BBI	30.00	Type: 8.59#SPACER	
Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal	N/A
Excess /Return BBI	N/A	Calc. Disp Bbl	112
Calc. TOC:	4,697'	Actual Disp.	112.00
Final Circ. PSI:	670	Disp:Bbl	112.00
Cement Slurry: BBI	120.5		
Total Volume: BBI	262.54		

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

*Arthur Setzer*  
SIGNATURE



Standard Wellpath Report  
Sandridge  
Sec 33 - 34S - 8W, Kansas  
Harper County  
Wellbore: 4J Ranch 3408 1-33H (Actual)

**Wellbore**

Name	Created	Last Revised
4J Ranch 3408 1-33H (Actual)	13-Feb-2013	28-Feb-2013

**Well**

Name	Government ID	Last Revised
4J Ranch 3408 1-33H		13-Feb-2013

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
4J Ranch 3408 1-33H	134874.0000	2090748.0000	N37 2 11.9791	W98 11 20.8605	181.99N	1984.90W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2092733.0000	134692.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 33 - 34S - 8W	2092733.0000	134692.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Created By**

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**Comments**

FINAL Surveys MD 9138 is a projection to bit @ TD
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Standard Wellpath Report  
 Sandridge  
 Sec 33 - 34S - 8W, Kansas  
 Harper County  
 Wellbore: 4J Ranch 3408 1-33H (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	2090748.00	134874.00
964.00	0.90	55.500	963.96	4.29N	6.24E	0.09	4.13	2090754.24	134878.29
1423.00	1.10	160.300	1422.92	2.18N	10.70E	0.35	1.92	2090758.70	134876.18
1899.00	0.30	157.600	1898.88	3.27S	12.71E	0.17	-3.58	2090760.71	134870.73
2374.00	0.50	301.000	2373.87	3.35S	11.41E	0.16	-3.63	2090759.41	134870.65
2848.00	0.40	62.800	2847.87	1.53S	11.11E	0.17	-1.80	2090759.11	134872.47
3324.00	0.70	325.800	3323.85	1.63N	10.95E	0.18	1.36	2090758.95	134875.63
3799.00	0.90	233.100	3798.82	1.79N	6.34E	0.25	1.64	2090754.34	134875.79
3864.00	1.50	342.700	3863.81	2.30N	5.67E	3.06	2.16	2090753.68	134876.30
3895.00	3.50	353.500	3894.78	3.63N	5.45E	6.60	3.49	2090753.45	134877.63
3927.00	5.70	0.200	3926.68	6.19N	5.34E	7.07	6.05	2090753.34	134880.19
3958.00	7.40	0.800	3957.47	9.72N	5.38E	5.49	9.59	2090753.38	134883.72
3989.00	9.10	0.800	3988.15	14.17N	5.44E	5.48	14.03	2090753.44	134888.17
4021.00	10.60	359.100	4019.68	19.64N	5.43E	4.77	19.50	2090753.43	134893.64
4053.00	11.30	358.200	4051.10	25.72N	5.28E	2.25	25.58	2090753.28	134899.72
4084.00	12.40	358.200	4081.44	32.08N	5.08E	3.55	31.95	2090753.08	134906.08
4116.00	14.70	357.200	4112.54	39.57N	4.78E	7.22	39.44	2090752.78	134913.57
4148.00	17.00	357.600	4143.32	48.30N	4.38E	7.20	48.18	2090752.38	134922.30
4179.00	19.40	357.900	4172.77	57.98N	4.00E	7.75	57.86	2090752.00	134931.98
4211.00	21.70	357.600	4202.73	69.20N	3.56E	7.20	69.09	2090751.56	134943.20
4243.00	24.40	357.800	4232.18	81.72N	3.06E	8.44	81.62	2090751.06	134955.72
4275.00	26.70	358.500	4261.04	95.51N	2.62E	7.25	95.42	2090750.62	134969.52
4307.00	28.70	359.600	4289.38	110.38N	2.37E	6.45	110.29	2090750.38	134984.39
4338.00	31.00	0.100	4316.26	125.81N	2.34E	7.46	125.72	2090750.34	134999.82
4370.00	33.10	0.000	4343.38	142.79N	2.35E	6.56	142.69	2090750.35	135016.80
4402.00	35.60	359.400	4369.80	160.85N	2.25E	7.88	160.74	2090750.25	135034.85
4433.00	37.90	358.400	4394.64	179.39N	1.89E	7.67	179.29	2090749.89	135053.40
4465.00	40.20	358.700	4419.49	199.54N	1.38E	7.21	199.45	2090749.38	135073.55
4496.00	42.30	359.000	4442.79	219.97N	0.98E	6.80	219.89	2090748.98	135093.99
4528.00	45.50	359.000	4465.85	242.16N	0.59E	10.00	242.07	2090748.59	135116.17
4560.00	48.30	358.900	4487.71	265.52N	0.16E	8.75	265.43	2090748.16	135139.53
4656.00	50.90	357.700	4549.92	338.58N	2.02W	2.87	338.53	2090745.98	135212.60
4751.00	49.60	356.900	4610.67	411.54N	5.46W	1.51	411.55	2090742.54	135285.56
4783.00	50.50	356.800	4631.22	436.03N	6.81W	2.82	436.07	2090741.19	135310.06
4815.00	53.20	357.100	4650.98	461.16N	8.15W	8.47	461.22	2090739.85	135335.18
4846.00	56.30	357.600	4668.87	486.45N	9.31W	10.09	486.53	2090738.69	135360.47
4878.00	60.00	358.400	4685.76	513.61N	10.26W	11.76	513.70	2090737.74	135387.63
4910.00	63.70	358.900	4700.85	541.81N	10.92W	11.64	541.91	2090737.08	135415.84
4941.00	67.20	358.600	4713.73	569.99N	11.54W	11.32	570.11	2090736.46	135444.02
4973.00	70.20	359.100	4725.35	599.80N	12.13W	9.49	599.92	2090735.87	135473.83
5004.00	72.40	359.000	4735.29	629.16N	12.62W	7.10	629.28	2090735.38	135503.19
5036.00	74.60	358.100	4744.38	659.83N	13.40W	7.38	659.96	2090734.60	135533.86
5067.00	77.10	358.100	4751.96	689.87N	14.39W	8.06	690.01	2090733.60	135563.90
5098.00	80.10	357.500	4758.08	720.23N	15.56W	9.86	720.39	2090732.44	135594.27
5130.00	81.90	358.500	4763.09	751.81N	16.66W	6.42	752.00	2090731.33	135625.85
5217.00	85.40	359.200	4772.71	838.25N	18.40W	4.10	838.45	2090729.60	135712.29
5258.00	85.60	359.300	4775.93	879.12N	18.93W	0.55	879.32	2090729.07	135753.16
5351.00	89.00	358.700	4780.31	971.99N	20.55W	3.71	972.20	2090727.44	135846.04
5443.00	89.80	358.900	4781.27	1063.96N	22.48W	0.90	1064.19	2090725.52	135938.02
5535.00	92.00	358.500	4779.83	1155.92N	24.57W	2.43	1156.18	2090723.43	136029.98
5627.00	91.10	357.600	4777.34	1247.83N	27.70W	1.38	1248.14	2090720.30	136121.90
5718.00	89.60	356.600	4776.78	1338.71N	32.30W	1.98	1339.10	2090715.70	136212.78
5809.00	90.10	356.200	4777.02	1429.53N	38.01W	0.70	1430.03	2090709.98	136303.60
5900.00	90.20	356.600	4776.78	1520.35N	43.73W	0.45	1520.96	2090704.27	136394.43
5992.00	91.20	358.700	4775.66	1612.26N	47.50W	2.53	1612.94	2090700.50	136486.34
6085.00	91.40	359.400	4773.55	1705.22N	49.04W	0.78	1705.91	2090698.96	136579.31
6177.00	90.60	0.300	4771.94	1797.21N	49.28W	1.31	1797.87	2090698.71	136671.30
6272.00	91.10	359.600	4770.53	1892.19N	49.37W	0.91	1892.84	2090698.63	136766.29
6367.00	90.00	0.000	4769.62	1987.19N	49.70W	1.23	1987.81	2090698.30	136861.29
6462.00	90.60	359.400	4769.12	2082.18N	50.19W	0.89	2082.79	2090697.80	136956.29
6555.00	91.00	357.200	4767.82	2175.13N	52.95W	2.40	2175.77	2090695.04	137049.24
6648.00	91.00	357.100	4766.20	2268.00N	57.58W	0.11	2268.73	2090690.42	137142.12
6744.00	90.40	356.900	4765.03	2363.86N	62.60W	0.66	2364.68	2090685.40	137237.98
6840.00	89.70	356.200	4764.94	2459.68N	68.38W	1.03	2460.62	2090679.62	137333.81
6935.00	88.40	356.700	4766.52	2554.49N	74.26W	1.47	2555.54	2090673.74	137428.62
7031.00	90.20	357.900	4767.69	2650.37N	78.78W	2.25	2651.50	2090669.22	137524.50
7126.00	92.10	358.600	4765.79	2745.30N	81.68W	2.13	2746.47	2090666.31	137619.44
7222.00	93.10	0.600	4761.43	2841.19N	82.35W	2.33	2842.36	2090665.64	137715.34
7316.00	92.90	0.600	4756.51	2935.06N	81.37W	0.21	2936.17	2090666.63	137809.21
7412.00	92.50	0.700	4751.99	3030.95N	80.28W	0.43	3032.00	2090667.72	137905.10

All data is in Feet unless otherwise stated  
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( 4J Ranch 3408 1-33H 0.00ft above Mean Sea Level )  
 Vertical Section is from 0.00N 0.00E on azimuth 358.600 degrees  
 Bottom hole distance is 4757.08 Feet on azimuth 358.62 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by  
 Date Printed: 28-Feb-2013



Standard Wellpath Report  
 Sandridge  
 Sec 33 - 34S - 8W, Kansas  
 Harper County  
 Wellbore: 4J Ranch 3408 1-33H (Actual)

**Wellpath (Grid) Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7507.00	91.00	0.800	4749.09	3125.89N	79.04W	1.58	3126.89	2090668.96	138000.05
7602.00	91.80	0.200	4746.77	3220.86N	78.21W	1.05	3221.81	2090669.79	138095.02
7627.00	91.20	359.900	4746.11	3245.85N	78.19W	2.68	3246.79	2090669.81	138120.01
7723.00	90.50	0.800	4744.69	3341.83N	77.60W	1.19	3342.73	2090670.40	138216.01
7817.00	91.10	0.400	4743.38	3435.82N	76.62W	0.77	3436.67	2090671.38	138310.00
7913.00	90.20	359.300	4742.29	3531.81N	76.87W	1.48	3532.63	2090671.13	138405.99
8008.00	91.00	359.000	4741.29	3626.79N	78.28W	0.90	3627.62	2090669.72	138500.98
8102.00	89.70	358.200	4740.72	3720.76N	80.57W	1.62	3721.62	2090667.42	138594.95
8198.00	89.10	357.700	4741.72	3816.69N	84.01W	0.81	3817.61	2090663.99	138690.89
8293.00	90.50	357.200	4742.05	3911.60N	88.23W	1.56	3912.58	2090659.76	138785.80
8386.00	90.90	356.200	4740.92	4004.43N	93.59W	1.16	4005.53	2090654.41	138878.64
8482.00	92.20	356.800	4738.32	4100.22N	99.44W	1.49	4101.42	2090648.55	138974.43
8576.00	92.90	358.300	4734.14	4194.04N	103.46W	1.76	4195.31	2090644.54	139068.25
8670.00	92.40	359.200	4729.79	4287.91N	105.51W	1.09	4289.21	2090642.49	139162.13
8766.00	89.60	358.800	4728.12	4383.87N	107.18W	2.95	4385.18	2090640.81	139258.10
8861.00	91.50	358.000	4727.21	4478.83N	109.83W	2.17	4480.17	2090638.16	139353.05
8956.00	90.70	358.900	4725.38	4573.77N	112.40W	1.27	4575.15	2090635.59	139448.01
9050.00	91.90	359.200	4723.25	4667.73N	113.96W	1.32	4669.12	2090634.03	139541.97
9091.00	91.40	359.400	4722.07	4708.71N	114.46W	1.31	4710.10	2090633.53	139582.95
9138.00	91.40	359.400	4720.92	4755.70N	114.95W	==>	4757.08	2090633.04	139629.94

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 Prepared by  
 Date Printed: 28-Feb-2013



Standard Wellpath Report  
Sandridge  
Sec 33 - 34S - 8W, Kansas  
Harper County  
Wellbore: 4J Ranch 3408 1-33H (Actual)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9138.00	4720.92	4755.70N	114.95W	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 ( 4J Ranch 3408 1-33H 0.00ft above Mean Sea Level )  
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Bottom hole distance is 4757.08 Feet on azimuth 358.62 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 28-Feb-2013

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	3/24/2013
State:	KS
County:	Harper
API Number:	15-077-21906
Operator Name:	SandRidge Expl. and Prod., LLC
Well Name and Number:	4J Ranch 3408 1-33H
Longitude:	-98.1891
Latitude:	37.0366
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	4,721
Total Water Volume (gal)*:	1,789,671

### 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
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Iron Control Agent, Propping Agent	Water (Including Mix Water Supplied by Client)*	-		99.04137%	
			Crystalline silica	14808-60-7	76.99074%	0.73806%	
			Polyethylene glycol monohexyl ether	31726-34-8	10.71535%	0.10272%	
			Sodium erythorbate	6381-77-7	6.93954%	0.06652%	
			Acrylamide sodium acrylate copolymer	25085-02-3	1.21266%	0.01162%	
			Distillates (petroleum), hydrotreated light	64742-47-8	1.05355%	0.01010%	
			Glutaraldehyde	111-30-8	0.89734%	0.00860%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.46974%	0.00450%	
			Trisodium ortho phosphate	7601-54-9	0.19519%	0.00187%	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.16024%	0.00154%	
			Hydrogen chloride	7647-01-0	0.15745%	0.00151%	
			Propan-2-ol	67-63-0	0.09395%	0.00090%	
			Methanol	67-56-1	0.06910%	0.00066%	
			Alkylalcohol, ethoxylate >C10	68002-97-1	0.06450%	0.00062%	
			Ethane-1,2-diol	107-21-1	0.05556%	0.00053%	
			Sorbitan monooleate	1338-43-8	0.05160%	0.00049%	
			Fatty acids, tall-oil	61790-12-3	0.04416%	0.00042%	
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.03634%	0.00035%	
			Thiocyanic acid, ammonium salt	1762-95-4	0.03182%	0.00031%	
			Poly(oxyethylene) sorbitol monostearate	9005-67-8	0.03010%	0.00029%	
			Potassium hydroxide	1310-58-3	0.02147%	0.00021%	



			Ethanol	64-17-5	0.01922%	0.00018%	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.01691%	0.00016%	
			Prop-2-yn-1-ol	107-19-7	0.01127%	0.00011%	
			Alkenes, C>10 a-	64743-02-8	0.00752%	0.00007%	
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00039%	< 0.00001%	

\* 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%

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Section 28  
34S 8W

Section 27  
34S 8W

324' FNL

1990' FEL

BHL: 9138'  
-98.189809 37.049746

Bottom Perf: 8702'  
-98.189782 37.048461

Section 33  
34S 8W

Harper County

Section 34  
34S 8W

Top Perf: 5048'  
-98.189508 37.038497

Miss Entry: 4892'  
-98.189499 37.038095

4J RANCH 3408 2-33H

4J RANCH 3408 3-33H

4J RANCH 3408 1-33H

MACY 1-34 SWD

MACY 2-34 SWD

JENNIFER 1-34H

Section 4  
35S 8W

Section 3  
35S 8W



Actual Bottom-Hole Location of 4J Ranch 3408 1-33H  
Harper County, Kansas

T&R: 34S 8W  
Section: 33, 324' FEL & 1990' FNL  
Long/Lat: -98.189809 37.049746

1 in = 833 ft

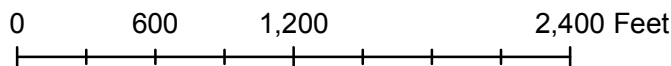


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 5/30/2013

Drawing Name/Number:

Addendum\_4J\_Ranch\_1-33H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

Remarks

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Tiffany Golay  
05/14/013 08:31 am

Conductor weight= 94 lbs/ft