



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1175831  
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: \_\_\_\_\_

1175831

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Richard 3206 3-30H 3L
Doc ID	1175831

All Electric Logs Run

Nuclear
Boresight
Prizm
Resistivity





**INVOICE**

DATE	INVOICE #
9/25/2013	4240

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

<b>REMIT TO</b>
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	9/18/2013	3296		RICHARD 3206 3-30H	Due on rec...

Description
DRILLED 80' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 80' 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  TOTAL BID \$ 17,000.00

<b>Sales Tax (6.15%)</b>	\$161.62
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<b>TOTAL</b>	\$17,161.62
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OCT 07 2013

# Cementing Service Report

REGULATORY DEPT  
SANDRIDGE ENERGY

Well Richard 3-30H				Location (legal) Anthony		Customer Sandridge		Job Number 1855309			
Field Harper, Ks.		Formation Name/Type		Deviation		Bit Size 12.3 in		Well MD 750.0 ft		Well TVD 750.0 ft	
County Harper		State/Province Kansas		BHP		BHST 89 degF		BHCT 65 degF		Pore Press. Gradient	
Well Master 0631496321		API/UWI 15077219640100		Rig Name Horizon #15		Drilled For Oil & Gas		Service Via Land		Casing/Liner	
Offshore Zone		Well Class New		Well Type Development		Depth, ft		Size, in		Weight, lb/ft	
Drilling Fluid Type		Max. Density		Plastic Viscosity		756.8		9.630		36.0	
Service Line Cementing		Job Type Cem Surface Casing		Tubing/Drill Pipe		0.0		0.000		0.0	
Max. Allowed Tub. Press 2816 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Depth		Size		Weight	
Service Instructions . Pump 10 bbl water, 260 sks 35:65 Poz:C + adds @ 12.40 ppg, 160 sks Class C @ 14.80 ppg, drop top plug and displace per client specifications.		Perforations/Open Hole		Top		Bottom		No. of Shots		Total Interval	
										Diameter	
				Treat Down Casing		Displacement 55.3 bbl		Packer Type		Packer Depth	
				Tubing Vol.		Casing Vol. 58.5 bbl		Annular Vol. 42.2 bbl		Openhole Vol.	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job					
Lift Pressure 280 psi		Shoe Type Guide		Shoe Depth 756.8 ft		Squeeze Type					
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Stage Tool Type		Tool Type					
No. Centralizers 4		Top Plugs 1		Bottom Plugs 0		Stage Tool Depth		Tool Depth			
Cement Head Type Single		Collar Type Float		Collar Depth 715.3 ft		Tail Pipe Size		Tail Pipe Depth			
Job Scheduled For Sep/27/2013		Arrived on Location Sep/27/2013		Leave Location Sep/27/2013		Sqz. Total Vol.					
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message					
09/27/2013	05:42:24	4	0.0	8.46	0.0						
09/27/2013	05:42:32					Start Job					
09/27/2013	05:42:32	4	0.0	8.46	0.0						
09/27/2013	05:43:54	4	0.0	8.46	0.0						
09/27/2013	05:45:24	4	0.0	8.46	0.0						
09/27/2013	05:46:54	4	0.0	8.46	0.0						
09/27/2013	05:48:24	1	0.0	8.46	0.0						
09/27/2013	05:49:54	62	0.0	8.47	0.0						
09/27/2013	05:51:24	9	0.1	8.47	0.0						
09/27/2013	05:52:29					Start Pumping Spacer					
09/27/2013	05:52:29	2539	0.0	8.47	0.1						
09/27/2013	05:52:35					Pressure Test Lines					
09/27/2013	05:52:35	2534	0.0	8.47	0.1						
09/27/2013	05:52:54	2614	0.0	8.46	0.1						
09/27/2013	05:53:49					Pressure Test Lines					
09/27/2013	05:53:49	3886	0.0	8.46	0.1						
09/27/2013	05:54:24	6	0.0	8.46	0.1						
09/27/2013	05:55:54	68	2.2	8.46	0.9						
09/27/2013	05:57:24	140	5.1	8.45	7.7						
09/27/2013	05:57:53					End Spacer					
09/27/2013	05:57:53	142	5.2	8.45	10.2						



Well		Field	Job Start	Customer	Job Number	
Richard 3-30H		Harper,Ks.	Sep/27/2013	Sandridge	1855309	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
09/27/2013	05:57:58	143	5.1	8.45	10.6	
09/27/2013	05:58:54	258	5.9	12.55	15.6	
09/27/2013	06:00:24	261	6.0	12.67	24.6	
09/27/2013	06:01:54	256	6.1	12.57	33.8	
09/27/2013	06:03:24	257	5.9	12.67	42.8	
09/27/2013	06:04:54	114	4.6	12.49	51.6	
09/27/2013	06:06:24	247	6.0	12.42	58.8	
09/27/2013	06:07:54	261	6.1	12.60	67.8	
09/27/2013	06:09:24	249	5.9	12.63	76.9	
09/27/2013	06:10:54	251	6.0	12.59	85.6	
09/27/2013	06:12:24	229	5.9	12.54	94.4	
09/27/2013	06:13:35					End Lead Slurry
09/27/2013	06:13:35	130	3.9	12.36	100.6	
09/27/2013	06:13:37					Start Mixing Tail Slurry
09/27/2013	06:13:37	128	3.9	12.32	100.7	
09/27/2013	06:13:41					Reset Total, Vol = 101.00 bbl
09/27/2013	06:13:41	128	3.9	12.21	101.0	
09/27/2013	06:13:54	119	3.9	12.44	101.9	
09/27/2013	06:15:24	290	5.3	14.95	109.9	
09/27/2013	06:16:54	293	5.4	14.85	118.0	
09/27/2013	06:18:24	219	4.8	14.72	125.8	
09/27/2013	06:19:54	136	3.7	14.83	131.8	
09/27/2013	06:21:24	114	2.9	15.42	136.5	
09/27/2013	06:22:37					End Tail Slurry
09/27/2013	06:22:37	11	0.0	15.48	138.8	
09/27/2013	06:22:39					Reset Total, Vol = 37.83 bbl
09/27/2013	06:22:39	11	0.0	15.48	138.8	
09/27/2013	06:22:40					Drop Top Plug
09/27/2013	06:22:40	11	0.0	15.48	138.8	
09/27/2013	06:22:41					Start Displacement
09/27/2013	06:22:41	13	0.0	15.48	138.8	
09/27/2013	06:22:54	15	0.0	15.47	138.8	
09/27/2013	06:24:24	11	0.0	15.62	138.8	
09/27/2013	06:25:54	102	4.2	8.94	143.7	
09/27/2013	06:27:24	127	5.6	8.63	150.8	
09/27/2013	06:28:54	226	6.4	8.48	160.1	
09/27/2013	06:30:24	248	6.4	8.46	169.5	
09/27/2013	06:31:54	172	2.2	8.46	177.3	
09/27/2013	06:33:24	175	2.2	8.46	180.6	
09/27/2013	06:34:54	195	2.3	8.46	184.0	
09/27/2013	06:36:24	214	2.2	8.46	187.3	
09/27/2013	06:37:54	260	2.3	8.46	190.6	
09/27/2013	06:39:24	257	2.3	8.46	193.9	
09/27/2013	06:40:54	1065	0.0	8.46	194.3	
09/27/2013	06:42:12					Bump Top Plug
09/27/2013	06:42:12					End Displacement
09/27/2013	06:42:12	1066	0.0	8.46	194.3	
09/27/2013	06:42:15					Check Floats
09/27/2013	06:42:15	1066	0.0	8.46	194.3	
09/27/2013	06:42:24	1066	0.0	8.46	194.3	
09/27/2013	06:43:16					Reset Total, Vol = 55.52 bbl
09/27/2013	06:43:16	6	0.0	8.47	194.3	
09/27/2013	06:43:54	6	0.0	8.47	194.3	
09/27/2013	06:45:16					Floats Held

Well Richard 3-30H		Field Harper, Ks.		Job Start Sep/27/2013		Customer Sandridge		Job Number 1855309	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
09/27/2013	06:45:16	6	0.0	8.46	194.3				

### Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 6.0	N2	Mud	Maximum Rate 6.0	Total Slurry 131.0	Mud	Spacer 10.0	N2		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3900	Final 1075	Average 187	Bump Plug to 1075	Breakdown	Type	Volume	Density		
Avg. N2 Percent	Designed Slurry Volume	Displacement 55.3 bbl	Mix Water Temp	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Washed Thru Perfs <input type="checkbox"/>	Circulation Lost <input type="checkbox"/>	Volume 20.0 bbl	To	Job Completed <input checked="" type="checkbox"/>
Customer or Authorized Representative Cody Davis			Schlumberger Supervisor Dustin Green						





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OCT 15 2013

Cementing Service Report

REGULATORY DEPT SANDRIDGE ENERGY

Customer Sandridge				Job Number 1855869							
Well Richard 3206 3-30H			Location (legal) Harper			Schlumberger Location		Job Start Oct/07/2013			
Field Harper		Formation Name/Type		Deviation		Bit Size 8.8 in		Well MD 5147.0 ft		Well TVD	
County Harper		State/Province Kansas		BHP		BHST		BHCT		Pore Press. Gradient	
Well Master 0631496321		API/UWI 15077219640100		Casing/Liner							
Rig Name Horizon #15		Drilled For Oil & Gas		Service Via Land		Depth, ft		Size, in		Weight, lb/ft	
Offshore Zone		Well Class New		Well Type Development		5147.0		7.000		26.0	
Drilling Fluid Type		Max. Density		Plastic Viscosity		0.0		0.000		0.0	
Service Line Cementing		Job Type Cem Interm Casing		Tubing/Drill Pipe							
Max. Allowed Tub. Press 1339 psi		Max. Allowed Ann. Press		WH Connection Single Cement head		Depth,		Size,		Weight,	
Service Instructions To provide services, equipment, materials and personnel to safely cement a 7" intermediate casing as per client request. Pump 30 bbls gel water (with J916ND), 200 sks lead slurry @13.6ppg, 100 sks tail slurry @15.6ppg, drop top plug and displace as per client approval.						Grade		Thread			
						Perforations/Open Hole					
						Top,		Bottom,		No. of Shots	
										Total Interval	
										Diameter	
						Treat Down Casing		Displacement 193.8 bbl		Packer Type	
						Tubing Vol.		Casing Vol. 197.1 bbl		Annular Vol.	
										Packer Depth	
										Openhole Vol.	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure 611 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type Float		Shoe Depth 5147.6 ft		Squeeze Type	
No. Centralizers 4		Top Plugs 1		Bottom Plugs 0		Stage Tool Type		Stage Tool Depth		Tool Type	
Cement Head Type Single		Job Scheduled For Oct/07/2013		Arrived on Location Oct/07/2013		Leave Location Oct/07/2013		Collar Type Float		Tail Pipe Depth	
								Collar Depth 5059.1 ft		Sqz. Total Vol.	
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL	
10/07/2013		02:11:20		-1		0.0		8.47		0.0	
10/07/2013		02:11:22								Start Job	
10/07/2013		02:11:22		-1		0.0		8.47		0.0	
10/07/2013		02:12:51								Start Pumping Spacer	
10/07/2013		02:12:51		-1		0.0		8.47		0.0	
10/07/2013		02:13:20		-1		0.0		8.47		0.0	
10/07/2013		02:15:20		92		2.0		8.43		2.3	
10/07/2013		02:17:07								Pressure Test Low 1000 PSI	
10/07/2013		02:17:07		912		0.0		8.47		2.9	
10/07/2013		02:17:20		902		0.0		8.47		2.9	
10/07/2013		02:19:20		4920		0.0		8.47		3.0	
10/07/2013		02:20:15								Pressure Test High 5000 PSI	
10/07/2013		02:20:15		5212		0.0		8.47		3.0	
10/07/2013		02:21:20		16		0.0		8.47		3.0	
10/07/2013		02:23:20		217		5.0		8.43		9.8	
10/07/2013		02:25:20		218		4.9		8.44		19.7	
10/07/2013		02:27:20		259		5.0		8.45		29.6	
10/07/2013		02:27:33								Reset Total, Vol = 30.69 bbl	
10/07/2013		02:27:33		269		5.0		9.07		30.7	
10/07/2013		02:27:36								End Spacer	
10/07/2013		02:27:36		243		4.9		9.76		30.9	

Well		Field		Job Start		Customer		Job Number	
Richard 3206 3-30H		Harper		Oct/07/2013		Sandridge		1855869	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/07/2013	02:27:40	247	4.9	10.28	31.3				
10/07/2013	02:29:20	523	5.6	13.71	39.7				
10/07/2013	02:31:20	435	5.3	13.79	50.3				
10/07/2013	02:33:20	296	5.1	13.77	60.4				
10/07/2013	02:35:20	353	5.4	13.79	70.7				
10/07/2013	02:37:20	183	3.9	13.24	80.6				
10/07/2013	02:37:42					End Lead Slurry			
10/07/2013	02:37:42	170	3.8	15.49	82.0				
10/07/2013	02:37:43					Start Mixing Tail Slurry			
10/07/2013	02:37:43	195	3.7	15.49	82.1				
10/07/2013	02:37:46					Reset Total, Vol = 51.57 bbl			
10/07/2013	02:37:46	329	4.2	15.45	82.3				
10/07/2013	02:39:20	346	5.2	15.80	89.6				
10/07/2013	02:41:20	198	3.9	15.50	100.2				
10/07/2013	02:42:41					Reset Total, Vol = 22.04 bbl			
10/07/2013	02:42:41	10	0.0	15.93	104.3				
10/07/2013	02:42:43					End Tail Slurry			
10/07/2013	02:42:43	9	0.0	15.93	104.3				
10/07/2013	02:42:44					Drop Top Plug			
10/07/2013	02:42:44	10	0.0	15.92	104.3				
10/07/2013	02:42:45					Start Displacement			
10/07/2013	02:42:45	9	0.0	15.92	104.3				
10/07/2013	02:43:20	9	0.0	15.89	104.3				
10/07/2013	02:45:20	9	0.0	15.91	104.3				
10/07/2013	02:47:20	144	5.0	8.80	110.3				
10/07/2013	02:49:20	127	4.9	8.51	120.2				
10/07/2013	02:51:20	149	5.7	2.72	131.2				
10/07/2013	02:53:20	95	5.6	8.46	142.7				
10/07/2013	02:55:20	119	6.0	8.46	154.5				
10/07/2013	02:57:20	213	6.0	8.46	166.4				
10/07/2013	02:59:20	151	5.9	8.46	178.3				
10/07/2013	03:01:20	104	5.9	8.46	190.2				
10/07/2013	03:03:20	93	5.9	8.46	202.2				
10/07/2013	03:05:20	120	6.0	8.46	214.0				
10/07/2013	03:07:20	92	5.9	8.46	225.9				
10/07/2013	03:09:20	191	5.9	8.46	237.8				
10/07/2013	03:11:20	181	5.9	8.46	249.8				
10/07/2013	03:13:20	567	6.0	8.46	261.7				
10/07/2013	03:15:20	584	5.9	8.46	273.6				
10/07/2013	03:17:20	854	6.0	8.46	285.5				
10/07/2013	03:19:20	569	2.8	8.46	292.5				
10/07/2013	03:21:20	646	2.7	8.46	298.1				
10/07/2013	03:23:20	676	2.8	8.46	303.6				
10/07/2013	03:25:12					Reset Total, Vol = 202.50 bbl			
10/07/2013	03:25:12	1347	0.0	8.46	306.8				
10/07/2013	03:25:14					Bump Top Plug			
10/07/2013	03:25:14					End Displacement			
10/07/2013	03:25:14	1352	0.0	8.46	306.8				
10/07/2013	03:25:16					Check Floats			
10/07/2013	03:25:16	1342	0.0	8.46	306.8				
10/07/2013	03:25:20	1344	0.0	8.46	306.8				
10/07/2013	03:27:20	1348	0.0	8.46	306.8				
10/07/2013	03:29:20	124	0.0	8.46	306.8				
10/07/2013	03:30:22					Floats held			

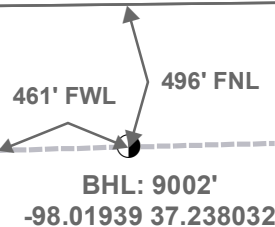
Well Richard 3206 3-30H		Field Harper		Job Start Oct/07/2013		Customer Sandridge		Job Number 1855869	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message			
10/07/2013	03:30:23					End Job			

### Post Job Summary

Average Pump Rates,					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry 72.8	Mud	Spacer 30.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 3500	Final 1339	Average 214	Bump Plug to 1339	Breakdown	Type	Volume		Density	
Avg. N2 Percent	Designed Slurry Volume		Displacement 193.8 bbl	Mix Water Temp	Cement Circulated to Surface?	<input type="checkbox"/>		Volume	
					Washed Thru Perfs	<input type="checkbox"/>		To	
Customer or Authorized Representative Cody Davis			Schlumberger Supervisor Dustin Green		Circulation Lost	<input type="checkbox"/>		Job Completed <input checked="" type="checkbox"/>	
					-			-	

Section 24  
32S 7W

Section 19  
32S 6W



Section 25  
32S 7W

GRACE 3207 2-25H

GRACE 3207 1-25H



Harper County

Section 30  
32S 6W



RICHARD 3206 3-30H



RICHARD 3206 2-30H



Section 36  
32S 7W

Section 31  
32S 6W



Actual Bottom-Hole Location of Richard 3206 3-30H  
LATERAL 3  
T&R: 32S 6W  
Section: 30, 461' FWL & 496' FNL  
-98.01939 37.238032

1 in = 667 ft

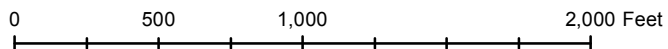


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 1/8/2014

Drawing Name/Number:

Addendum\_Richard 3206 3-30H 3L.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502





# Actual Wellpath Report

Sandridge Richard 3206 3-30H\_Final Surveys.  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Richard 3206 3-30H SL 250 FSL 740 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lateral 3
Facility	Richard 3206 3-30H Sec.25-32S-7W	Sidetrack from	Richard 3206 3-30H Lateral #1 Actual at 5302.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet		
North Reference	Grid	Software System	WellArchitect™ 3.0.0
Convergence at slot	0.29° East	User	Adammic
Scale	1.00001	Report Generated	25/Nov/2013 at 1:49:48 PM
Wellbore last revised	10-18-2013	Database/Source file	intokcapp01

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	2138801.00	203807.00	37°13'31.516"N	98°01'23.915"W
Facility Reference Pt			2138801.00	203807.00	37°13'31.516"N	98°01'23.915"W
Field Reference Pt			2132248.82	161602.28	37°06'34.560"N	98°02'47.460"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Horizon 15 (RKB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Horizon 15 (RKB) to Mean Sea Level	1427.00ft
Vertical Reference Pt	Horizon 15 (RKB)	Horizon 15 (RKB) to Mud Line at Slot (Richard 3206 3-30H SL 250 FSL 740 FEL)	18.00ft
MD Reference Pt	Horizon 15 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	16.12°



# Actual Wellpath Report

Sandridge Richard 3206 3-30H\_Final Surveys.  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Richard 3206 3-30H SL 250 FSL 740 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lateral 3
Facility	Richard 3206 3-30H Sec.25-32S-7W	Sidetrack from	Richard 3206 3-30H Lateral #1 Actual at 5302.00 MD

WELLPATH DATA (143 stations) † = interpolated/extrapolated station							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	94.990	0.00	0.00	0.00	0.00	0.00
18.00	0.000	94.990	18.00	0.00	0.00	0.00	0.00
786.00	0.500	94.990	785.99	0.65	-0.29	3.34	0.07
879.00	0.620	68.490	878.99	1.03	-0.14	4.21	0.30
970.00	0.400	57.300	969.98	1.57	0.21	4.94	0.26
1063.00	0.330	14.080	1062.98	2.08	0.65	5.27	0.30
1154.00	0.280	17.200	1153.98	2.57	1.11	5.40	0.06
1246.00	0.220	57.780	1245.98	2.92	1.42	5.62	0.20
1337.00	0.130	25.090	1336.98	3.16	1.61	5.81	0.14
1428.00	0.140	13.160	1427.98	3.37	1.81	5.88	0.03
1522.00	0.200	51.760	1521.98	3.62	2.02	6.04	0.13
1617.00	0.180	27.970	1616.98	3.90	2.26	6.24	0.08
1712.00	0.250	356.060	1711.98	4.24	2.60	6.29	0.14
1807.00	0.280	308.240	1806.98	4.52	2.95	6.09	0.23
1902.00	0.190	128.470	1901.98	4.55	2.99	6.04	0.49
1996.00	0.220	70.890	1995.97	4.59	2.95	6.33	0.21
2091.00	0.370	85.110	2090.97	4.81	3.04	6.81	0.17
2185.00	0.180	142.860	2184.97	4.83	2.95	7.20	0.33
2279.00	0.320	128.530	2278.97	4.64	2.67	7.49	0.16
2374.00	0.530	226.010	2373.97	4.16	2.20	7.38	0.69
2468.00	0.260	238.830	2467.97	3.63	1.78	6.89	0.30
2563.00	0.420	257.230	2562.97	3.30	1.60	6.36	0.20
2658.00	0.580	246.920	2657.96	2.83	1.33	5.58	0.19
2753.00	0.600	265.800	2752.96	2.35	1.10	4.64	0.20
2847.00	0.830	265.710	2846.95	1.94	1.02	3.47	0.24
2942.00	1.220	254.340	2941.93	1.17	0.69	1.81	0.46
3036.00	1.710	256.440	3035.90	-0.05	0.09	-0.51	0.52
3131.00	1.650	250.070	3130.86	-1.56	-0.70	-3.18	0.21
3226.00	0.830	232.040	3225.84	-2.92	-1.59	-5.00	0.95
3321.00	0.900	214.650	3320.83	-4.18	-2.63	-5.97	0.28
3415.00	0.740	206.990	3414.82	-5.48	-3.78	-6.67	0.21
3510.00	1.360	211.380	3509.80	-7.17	-5.29	-7.53	0.66
3605.00	1.440	214.750	3604.77	-9.39	-7.23	-8.80	0.12
3692.00	1.240	218.930	3691.75	-11.29	-8.86	-10.01	0.26
3756.00	0.650	217.250	3755.74	-12.27	-9.69	-10.67	0.92
3788.00	1.610	10.550	3787.74	-11.99	-9.39	-10.70	6.91
3820.00	3.670	19.870	3819.70	-10.52	-7.99	-10.27	6.55
3824.00	3.850	19.180	3823.69	-10.26	-7.74	-10.18	4.64
3855.00	7.130	23.770	3854.55	-7.31	-5.00	-9.06	10.67
3887.00	10.180	17.390	3886.18	-2.52	-0.48	-7.41	9.98
3918.00	13.960	11.830	3916.49	3.95	5.80	-5.83	12.74
3950.00	17.950	8.340	3947.25	12.69	14.46	-4.32	12.82
3982.00	21.590	7.440	3977.36	23.40	25.18	-2.84	11.41
4013.00	25.290	7.600	4005.80	35.59	37.40	-1.23	11.94
4041.00	28.480	7.500	4030.77	48.11	49.95	0.43	11.39





# Actual Wellpath Report

Sandridge Richard 3206 3-30H\_Final Surveys.  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Richard 3206 3-30H SL 250 FSL 740 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lateral 3
Facility	Richard 3206 3-30H Sec.25-32S-7W	Sidetrack from	Richard 3206 3-30H Lateral #1 Actual at 5302.00 MD

WELLPATH DATA (143 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
4072.00	30.480	9.900	4057.75	63.24	65.03	2.75	7.49
4104.00	32.410	12.660	4085.06	79.87	81.39	6.03	7.52
4135.00	34.790	14.580	4110.88	97.00	98.06	10.07	8.41
4166.00	35.820	14.480	4136.17	114.91	115.40	14.57	3.33
4198.00	36.400	13.340	4162.03	133.76	133.71	19.10	2.77
4230.00	36.560	12.470	4187.76	152.75	152.25	23.35	1.69
4261.00	36.650	11.430	4212.64	171.19	170.34	27.18	2.02
4293.00	38.920	10.070	4237.93	190.70	189.60	30.83	7.56
4324.00	41.860	8.100	4261.54	210.63	209.43	33.99	10.34
4356.00	44.450	6.400	4284.88	232.26	231.14	36.74	8.87
4387.00	46.660	5.200	4306.59	254.03	253.16	38.97	7.65
4419.00	49.060	6.010	4328.06	277.36	276.77	41.29	7.73
4450.00	51.500	6.870	4347.87	300.86	300.46	43.97	8.15
4482.00	54.540	7.320	4367.11	326.10	325.82	47.13	9.57
4514.00	57.170	7.130	4385.07	352.27	352.10	50.46	8.23
4545.00	59.280	6.590	4401.40	378.27	378.26	53.61	6.97
4576.00	62.370	6.800	4416.51	404.97	405.14	56.76	9.99
4608.00	65.320	6.550	4430.61	433.30	433.66	60.10	9.25
4640.00	67.900	6.520	4443.31	462.26	462.84	63.44	8.06
4671.00	70.120	6.490	4454.42	490.80	491.60	66.72	7.16
4702.00	73.360	6.740	4464.13	519.83	520.84	70.11	10.48
4734.00	76.660	7.350	4472.41	550.35	551.51	73.90	10.48
4766.00	79.440	7.780	4479.03	581.30	582.54	78.03	8.79
4797.00	82.500	5.620	4483.90	611.50	612.94	81.60	12.03
4829.00	85.990	6.470	4487.10	642.85	644.60	84.95	11.22
4860.00	87.440	6.280	4488.88	673.35	675.35	88.38	4.72
4892.00	87.690	6.730	4490.24	704.87	707.12	92.01	1.61
4923.00	87.900	6.520	4491.43	735.42	737.89	95.58	0.96
4955.00	87.970	6.460	4492.59	766.95	769.66	99.20	0.29
4986.00	88.090	7.100	4493.65	797.52	800.43	102.85	2.10
5018.00	88.240	7.300	4494.68	829.12	832.16	106.86	0.78
5049.00	89.260	6.040	4495.35	859.69	862.94	110.46	5.23
5080.00	90.430	2.820	4495.44	890.04	893.84	112.86	11.05
5112.00	91.020	0.910	4495.03	921.06	925.82	113.90	6.25
5149.00	91.050	0.440	4494.36	956.71	962.81	114.33	1.27
5180.00	91.260	0.220	4493.74	986.54	993.81	114.51	0.98
5210.00	89.780	0.360	4493.47	1015.40	1023.81	114.66	4.96
5241.00	88.460	0.360	4493.94	1045.23	1054.80	114.86	4.26
5271.00	86.920	359.930	4495.15	1074.05	1084.77	114.93	5.33
5302.00	86.610	0.030	4496.90	1103.78	1115.73	114.92	1.05
5341.00	87.530	1.410	4498.89	1141.33	1154.67	115.41	4.25
5372.00	89.260	6.290	4499.76	1171.60	1185.58	117.49	16.70
5402.00	89.510	9.770	4500.09	1201.29	1215.28	121.68	11.63
5433.00	89.850	11.960	4500.26	1232.16	1245.72	127.53	7.15
5463.00	90.490	15.100	4500.17	1262.13	1274.88	134.54	10.68



# Actual Wellpath Report

Sandridge Richard 3206 3-30H\_Final Surveys.  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Richard 3206 3-30H SL 250 FSL 740 FEL
Area	Kansas	Well	Subject
Field	Harper County, Kansas (Sandridge Energy) NAD27 / Grid	Wellbore	Lateral 3
Facility	Richard 3206 3-30H Sec.25-32S-7W	Sidetrack from	Richard 3206 3-30H Lateral #1 Actual at 5302.00 MD

WELLPATH DATA (143 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
5493.00	92.250	17.250	4499.45	1292.12	1303.68	142.90	9.26
5524.00	92.740	17.190	4498.10	1323.08	1333.27	152.07	1.59
5554.00	92.590	17.660	4496.71	1353.04	1361.86	161.04	1.64
5616.00	91.850	18.180	4494.31	1414.96	1420.81	180.10	1.46
5709.00	91.420	18.790	4491.65	1507.84	1508.97	209.58	0.80
5800.00	91.850	17.570	4489.06	1598.75	1595.39	237.96	1.42
5891.00	90.590	15.320	4487.12	1689.72	1682.64	263.71	2.83
5984.00	89.450	13.820	4487.09	1782.68	1772.65	287.10	2.03
6075.00	91.690	14.510	4486.18	1873.62	1860.87	309.37	2.58
6168.00	92.800	17.600	4482.54	1966.53	1950.16	335.07	3.53
6259.00	91.620	17.070	4479.03	2057.44	2036.96	362.16	1.42
6351.00	91.850	19.870	4476.24	2149.31	2124.17	391.29	3.05
6442.00	90.920	21.490	4474.04	2239.99	2209.28	423.41	2.05
6533.00	89.880	22.130	4473.41	2330.54	2293.76	457.22	1.34
6628.00	89.780	24.410	4473.69	2424.79	2381.03	494.75	2.40
6723.00	89.820	24.070	4474.02	2518.84	2467.65	533.75	0.36
6819.00	91.420	25.560	4472.98	2613.72	2554.78	574.04	2.28
6913.00	90.890	25.230	4471.09	2706.47	2639.68	614.34	0.66
7008.00	89.940	23.130	4470.40	2800.53	2726.34	653.25	2.43
7103.00	90.710	24.430	4469.86	2894.67	2813.27	691.56	1.59
7200.00	89.910	22.150	4469.33	2990.91	2902.35	729.91	2.49
7295.00	88.680	19.690	4470.50	3085.56	2991.08	763.82	2.89
7389.00	88.060	19.150	4473.18	3179.36	3079.69	795.06	0.87
7422.00	88.210	19.690	4474.25	3212.29	3110.80	806.03	1.70
7453.00	88.710	19.510	4475.08	3243.22	3139.99	816.42	1.71
7485.00	89.540	20.190	4475.57	3275.15	3170.09	827.29	3.35
7517.00	89.850	19.800	4475.74	3307.07	3200.16	838.23	1.56
7549.00	90.120	19.920	4475.75	3339.01	3230.25	849.10	0.92
7580.00	89.040	18.110	4475.98	3369.96	3259.56	859.20	6.80
7612.00	89.260	18.720	4476.45	3401.93	3289.92	869.31	2.03
7644.00	89.660	18.660	4476.76	3433.90	3320.23	879.56	1.26
7675.00	89.880	18.440	4476.88	3464.87	3349.62	889.42	1.00
7707.00	89.780	18.400	4476.97	3496.85	3379.98	899.54	0.34
7738.00	90.060	18.900	4477.02	3527.82	3409.35	909.45	1.85
7770.00	90.280	18.060	4476.92	3559.79	3439.70	919.59	2.71
7802.00	89.170	18.580	4477.08	3591.76	3470.08	929.65	3.83
7833.00	88.830	18.620	4477.62	3622.73	3499.45	939.54	1.10
7864.00	88.890	18.570	4478.23	3653.69	3528.83	949.42	0.25
7896.00	88.980	18.210	4478.83	3685.66	3559.19	959.51	1.16
7928.00	89.010	18.920	4479.39	3717.63	3589.52	969.70	2.22
7959.00	89.200	17.600	4479.87	3748.60	3618.95	979.41	4.30
8054.00	89.410	18.670	4481.03	3843.54	3709.23	1008.98	1.15
8149.00	88.890	17.900	4482.44	3938.46	3799.42	1038.78	0.98
8244.00	89.600	18.430	4483.69	4033.39	3889.68	1068.39	0.93
8339.00	90.860	18.760	4483.31	4128.29	3979.71	1098.69	1.37



# Actual Wellpath Report

Sandridge Richard 3206 3-30H\_Final Surveys.  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Sandridge Energy	Slot	Richard 3206 3-30H SL 250 FSL 740 FEL
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Facility	Richard 3206 3-30H Sec.25-32S-7W	Sidetrack from	Richard 3206 3-30H Lateral #1 Actual at 5302.00 MD

WELLPATH DATA (143 stations)							
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8433.00	92.060	19.650	4480.91	4222.12	4068.45	1129.60	1.59
8529.00	90.460	18.060	4478.80	4317.99	4159.27	1160.61	2.35
8622.00	90.090	19.600	4478.35	4410.88	4247.29	1190.63	1.70
8717.00	90.740	20.410	4477.67	4505.65	4336.56	1223.13	1.09
8812.00	91.730	21.650	4475.62	4600.28	4425.20	1257.21	1.67
8907.00	92.310	21.090	4472.27	4694.82	4513.62	1291.80	0.85
9002.00	93.860	20.560	4467.16	4789.36	4602.28	1325.53	1.72
9055.00	93.860	20.560	4463.59	4842.08	4651.79	1344.10	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Lateral 3 Ref Wellpath: AWP (Final)									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
6in Open Hole	0.00	5302.00	5302.00	0.00	4496.90	0.00	0.00	1115.73	114.92
7in Open Hole	0.00	5325.00	5325.00	0.00	4498.15	0.00	0.00	1138.69	115.10
6in Open Hole	5325.00	9200.00	3875.00	4498.15	NA	1138.69	115.10	NA	NA

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Richard 3206 3-30H Lateral 3 PBHL		4428.60	4750.97	1388.99	2140190.00	208558.00	37°14'18.419"N	98°01'06.438"W	point

WELLPATH COMPOSITION - Ref Wellbore: Lateral 3 Ref Wellpath: AWP (Final)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	5302.00	NaviTrak (Standard)	Inteq MWD	Richard 3206 3-30H Lateral #1 Actual
5302.00	9002.00	NaviTrak (Standard)	MWD	Lateral 3
9002.00	9055.00	Blind Drilling (std)	Projection to bit	Lateral 3