

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251108
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: _____

1251108

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

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

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

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	M Kitts 3408 1-20H
Doc ID	1251108

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	OH Packer @ 6044	250 gals 15% HCL, 3295 bbls fresh slickwater	
1	OH Packer @ 6268	250 gals 15% HCL, 2329 bbls fresh slickwater	
1	OH Packer @ 6444	250 gals 15% HCL, 2421 bbls fresh slickwater	
1	OH Packer @ 6624	250 gals 15% HCL, 2375 bbls fresh slickwater	
1	OH Packer @ 6803	250 gals 15% HCL, 2397 bbls fresh slickwater	
1	OH Packer @ 6979	250 gals 15% HCL, 2408 bbls fresh slickwater	
1	OH Packer @ 7196	250 gals 15% HCL, 2414 bbls fresh slickwater	
1	OH Packer @ 7370	250 gals 15% HCL, 2415 bbls fresh slickwater	
1	OH Packer @ 7541	250 gals 15% HCL, 2415 bbls fresh slickwater	
1	OH Packer @ 7724	250 gals 15% HCL, 2408 bbls fresh slickwater	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	M Kitts 3408 1-20H
Doc ID	1251108

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	OH Packer @ 7901	250 gals 15% HCL, 2437 bbls fresh slickwater	
1	OH Packer @ 8123	250 gals 15% HCL, 2422 bbls fresh slickwater	
1	OH Packer @ 8299	250 gals 15% HCL, 2426 bbls fresh slickwater	
1	OH Packer @ 8466	250 gals 15% HCL, 4239 bbls fresh slickwater	
1	OH Packer @ 8641	250 gals 15% HCL, 2435 bbls fresh slickwater	
1	OH Packer @ 8797	250 gals 15% HCL, 2460 bbls fresh slickwater	
1	OH Packer @9018	250 gals 15% HCL, 2406 bbls fresh slickwater	
1	OH Packer @ 9187	250 gals 15% HCL, 2417 bbls fresh slickwater	
1	OH Packer @ 9362	250 gals 15% HCL, 2433 bbls fresh slickwater	
1	OH Packer @ 9533	250 gals 15% HCL, 2419 bbls fresh slickwater	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	M Kitts 3408 1-20H
Doc ID	1251108

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	OH Packer @9751	250 gals 15% HCL, 2471 bbls fresh slickwater	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	M Kitts 3408 1-20H
Doc ID	1251108

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	100	Edge Services 10 Sack Grout	10	none
Surface	12.25	9.625	36	722	Allied Class A	370	2% gel, 2% cc, 1/4 flo
Production	8.75	7	26	5921	Allied Class A	380	2% gel, .1% C-51, .4% FL 160
Liner	6.125	4.5	11.6	9772	NA	0	NA



INVOICE

DATE	INVOICE #
1/15/2015	5406

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

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

COUNTY	Start Date	End Date	Work Order	Rig Number	LEASE NAME	Terms
HARPER, KS	1/12/2015			LARIAT 20	M KITTS 3408 1-20H	Due on rec...

Description
DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 10 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 4 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 16" CONDUCTOR PIPE TOTAL BID \$18,500.00

Sales Tax (6.15%)	\$275.64
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TOTAL	\$18,775.64
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ALLIED OIL & GAS SERVICES, LLC 063743

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Great Bend KS

DATE <u>01-24-15</u>	SEC. <u>20</u>	TWP. <u>34</u>	RANGE <u>8</u>	CALLED OUT	ON LOCATION <u>3:30 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>Mkitts 340s</u>	WELL # <u>1-2014</u>	LOCATION <u>Attica KS 2 East to 80th Rd South</u>			COUNTY <u>Harper</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				To 60th Rd 2 West North into			

CONTRACTOR <u>Carat 20</u>		OWNER
TYPE OF JOB <u>Surface</u>		CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>726</u>	AMOUNT ORDERED <u>240 SXS Allied Multi-Density C Class A 2% CC 1/4 Flt</u>
CASING SIZE <u>9 5/8 36 LBS</u>	DEPTH <u>726</u>	<u>130 SXS CLASS A 2% CC 2% Gel 1/4 Flt</u>
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX	MINIMUM	
MEAS. LINE	SHOE JOINT	
CEMENT LEFT IN CSG. <u>43.77</u>		COMMON <u>130 SXS @ 17.90 2,327.00</u>
PERFS.		POZMIX <u>f @</u>
DISPLACEMENT <u>54.25 BBls Fresh H2O</u>		GEL <u>5 Per Sack @ 23.46 117.00</u>
		CHLORIDE <u>10 Per Sack @ 64.00 640.00</u>
		ASC @
		<u>240 Allied Multi-Density 240s @ 275.90 6216.00</u>
		<u>Flt Seal 93 Pounds @ 2.97 276.21</u>

EQUIPMENT		
PUMP TRUCK # <u>597</u>	CEMENTER <u>Kevin Eddy</u>	
BULK TRUCK # <u>609/239</u>	HELPER <u>Josh ISAAC</u>	
BULK TRUCK #	DRIVER <u>Kevin Weighous</u>	
BULK TRUCK #	DRIVER	
		<u>Materials Total 9576.21</u>
		<u>Disc 30% 2872.86</u>
		<u>Service</u>
		<u>Handling 411.74 Per Sack @ 2.48 1,021.12</u>
		<u>MILEAGE 734.30 Four-mile @ 2.60 1,909.17</u>

REMARKS:

ON Location/Held safety meeting/Rig up. Rig ran 726ft 5 7/8 casing. Broke circ w/ Rig mud. Pump 5 ahead. Mix 240 SXS Allied Multi-Density CLASS A 2% CC 1/4 Flt. Mix 130 SXS CLASS A 2% CC + 2% Gel + 1/4 Flt. Shut Down. Release Plug. Displace 54.25 BBls Fresh H2O and Plug @ 900 PSI. Plug Held. Cement Did circ. Rig Down

DEPTH OF JOB <u>726</u>	
PUMP TRUCK CHARGE	<u>2058.50</u>
EXTRA FOOTAGE @	
MILEAGE <u>Heavy 46.06 Per @ 7.70 308.06</u>	
MANIFOLD + Head @ <u>275 275.00</u>	
light vehicle mile 46.06 per @ <u>3.64 176.00</u>	

CHARGE TO: Sandridge Energy

STREET AFE Number: DC 14405

CITY Well Name: STATE Mkitts 3408-1-2014

Code: 830-210

Amount: 10,856.20

Co. Man: Robert H. Hartz

Co. Man Sig.: Robert H. Hartz

Service Total 5747.79
Disc 30% 1724.34

PLUG & FLOAT EQUIPMENT

<u>1 Rubber Plug @ 184.86 184.86</u>	
@	
@	
@	
@	
<u>30% Discount</u>	
<u>TOTAL 184.86</u>	
<u>Disc 30% 55.46</u>	

To: Allied Oil & Gas Services, LLC

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

SALES TAX (If Any)	
TOTAL CHARGES <u>15,508.86</u>	
DISCOUNT <u>4652.66</u> IF PAID IN 30 DAYS	
<u>10,856.20</u>	

PRINTED NAME _____

SIGNATURE _____

ALLIED OIL & GAS SERVICES, LLC 065088

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Medicine Lodge KS

DATE <u>1-31-15</u>	SEC. <u>20</u>	TWP. <u>34S</u>	RANGE <u>08W</u>	CALLED OUT	ON LOCATION <u>9:30am</u>	JOB START <u>11:40A</u>	JOB FINISH <u>1:00pm</u>
LEASE IN <u>Kitts</u>	WELL# <u>1-20H</u>	<u>3408</u>	LOCATION <u>Wadron K.S. north to Rd</u>	COUNTY <u>Harper</u>	STATE <u>K.S.</u>		
OLD OR NEW (Circle one)			<u>Coth west 2mil north into</u>				

CONTRACTOR Lacat 20 OWNER Sandridge

TYPE OF JOB <u>Intermediate</u>	CEMENT
HOLE SIZE <u>8 3/4</u> T.D.	AMOUNT ORDERED <u>280 sk 50' 50 + 2% Gel</u>
CASING SIZE <u>7"</u> DEPTH <u>5927</u>	<u>+ 1% C-51 + 4% F-160</u>
TUBING SIZE DEPTH	<u>100 sk Class A + .8% F-160 + 2% CD-31</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT <u>4490</u>	
CEMENT LEFT IN CSG. <u>4490</u>	
PERFS.	
DISPLACEMENT <u>225 BBL Fresh</u>	

EQUIPMENT			
PUMP TRUCK CEMENTER		COMMON <u>100 sk</u>	@ <u>17.90</u> <u>1790.00</u>
# <u>548/545</u> HELPER <u>James Cuytan Joked</u>		POZMIX	@
BULK TRUCK		GEL	@
# <u>950/692</u> DRIVER <u>Antwan Henderson</u>		CHLORIDE	@
BULK TRUCK		ASC	@
#	DRIVER	<u>56' 50 Blend 280 sk</u>	@ <u>17.30</u> <u>4844.00</u>
		<u>F-160 171 #</u>	@ <u>18.90</u> <u>3231.90</u>
		<u>C-51 24 #</u>	@ <u>17.55</u> <u>421.20</u>
		<u>CD-31 19 #</u>	@ <u>7.23</u> <u>146.87</u>
		<u>SuperFlash 30 BBL</u>	@ <u>58.70</u> <u>1761.00</u>
			@
			@
			@
			@
		HANDLING	@
		MILEAGE	

REMARKS: 46% = 5609.68 TOTAL 12194.97

AFE Number: <u>DC 14405</u>	
Well Name: <u>M Kitts 2408 1-20H</u>	
Code: <u>830-210</u>	
Amount: <u>10855.22</u>	
Co. Man: <u>Robert White</u>	
Co. Man Sig.: <u>Robert White</u>	
Notes:	

SERVICE			
DEPTH OF JOB <u>5927</u>			
PUMP TRUCK CHARGE		<u>3099.25</u>	
EXTRA FOOTAGE <u>L.V 40</u>	@ <u>4.40</u>	<u>176.00</u>	
MILEAGE <u>40</u>	@ <u>7.70</u>	<u>308.00</u>	
MANIFOLD + Head	@	<u>275.00</u>	
Handling <u>393.41 Cu/A</u>	@ <u>2.48</u>	<u>975.65</u>	
Drayage <u>672.04</u>	@ <u>2.75</u>	<u>1848.11</u>	
Circ Iron		<u>1125.00</u>	
<u>46% = 3591.22</u>			
		TOTAL	<u>6082.01</u>
			<u>7807.01</u>

PLUG & FLOAT EQUIPMENT			
<u>7"</u>			
<u>1 TRP</u>	@	<u>100.00</u>	
	@		
	@		
	@		
<u>46% = 46.00</u>			
		TOTAL	<u>100.00</u>

SALES TAX (If Any) _____
TOTAL CHARGES 20101.98
DISCOUNT 10855.07 IF PAID IN 30 DAYS

PRINTED NAME X Robert White
SIGNATURE X Robert White

Sandridge Energy

Harper County (NAD-27)

Sec 20-T34S-R08W

M Kitts 3408 1-20H

Wellbore #1

Survey: Drillright MWD Surveys

Standard Survey Report

06 February, 2015

DrillRight

Survey Report

Company: Sandridge Energy	Local Co-ordinate Reference: Well M Kitts 3408 1-20H
Project: Harper County (NAD-27)	TVD Reference: KB @ 1286.0usft
Site: Sec 20-T34S-R08W	MD Reference: KB @ 1286.0usft
Well: M Kitts 3408 1-20H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Project Harper County (NAD-27)		
Map System: US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)		
Map Zone: Kansas South 1502		

Site Sec 20-T34S-R08W					
Site Position:		Northing: 145,203.00 usft	Latitude:	37° 3' 54.378 N	
From: Map		Easting: 2,081,959.00 usft	Longitude:	98° 13' 8.865 W	
Position Uncertainty: 0.0 usft		Slot Radius: 13-3/16 "	Grid Convergence:	0.17 °	

Well M Kitts 3408 1-20H					
Well Position	+N/-S 0.0 usft	Northing: 145,410.00 usft	Latitude:	37° 3' 56.340 N	
	+E/-W 0.0 usft	Easting: 2,084,762.00 usft	Longitude:	98° 12' 34.277 W	
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level:	1,268.0 usft	

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	1/7/2015	(°) 4.37	(°) 65.08	(nT) 51,535

Design Wellbore #1					
Audit Notes:					
Version: 1.0	Phase: ACTUAL	Tie On Depth:	0.0		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	336.74	

Survey Program Date 2/6/2015					
From	To	Survey (Wellbore)	Tool Name	Description	
(usft) 736.0	(usft) 9,772.0	Drillright MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
736.0	0.40	246.90	736.0	-1.0	-2.4	0.0	0.05	0.05	0.00	
First Drillright MWD Survey										
830.0	0.30	252.60	830.0	-1.2	-2.9	0.0	0.11	-0.11	6.06	
925.0	0.70	335.50	925.0	-0.8	-3.4	0.6	0.76	0.42	87.26	
1,019.0	0.10	296.60	1,019.0	-0.2	-3.7	1.3	0.67	-0.64	-41.38	
1,114.0	0.20	215.90	1,114.0	-0.3	-3.9	1.3	0.22	0.11	-84.95	
1,209.0	0.00	305.30	1,209.0	-0.4	-4.0	1.2	0.21	-0.21	0.00	
1,304.0	1.60	257.50	1,304.0	-0.7	-5.3	1.4	1.68	1.68	0.00	
1,398.0	3.80	274.60	1,397.9	-0.8	-9.6	3.1	2.47	2.34	18.19	

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well M Kitts 3408 1-20H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1286.0usft
Site:	Sec 20-T34S-R08W	MD Reference:	KB @ 1286.0usft
Well:	M Kitts 3408 1-20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,493.0	5.50	283.00	1,492.5	0.5	-17.2	7.3	1.92	1.79	8.84	
1,587.0	9.30	281.10	1,585.8	3.0	-29.1	14.2	4.05	4.04	-2.02	
1,682.0	13.70	277.00	1,678.8	5.9	-47.8	24.2	4.71	4.63	-4.32	
1,777.0	17.90	268.90	1,770.2	6.9	-73.5	35.4	4.98	4.42	-8.53	
1,872.0	22.60	267.80	1,859.3	6.0	-106.4	47.5	4.96	4.95	-1.16	
1,966.0	26.40	266.60	1,944.8	4.0	-145.3	61.1	4.08	4.04	-1.28	
2,061.0	29.60	262.90	2,028.7	-0.1	-189.7	74.8	3.83	3.37	-3.89	
2,155.0	33.40	260.90	2,108.9	-7.1	-238.3	87.6	4.19	4.04	-2.13	
2,250.0	32.70	259.40	2,188.5	-15.9	-289.4	99.6	1.13	-0.74	-1.58	
2,345.0	33.80	258.80	2,267.9	-25.8	-340.5	110.8	1.21	1.16	-0.63	
2,440.0	33.00	263.50	2,347.3	-33.9	-392.1	123.7	2.85	-0.84	4.95	
2,535.0	33.60	267.00	2,426.7	-38.2	-444.1	140.3	2.12	0.63	3.68	
2,629.0	36.40	268.00	2,503.7	-40.5	-498.0	159.4	3.04	2.98	1.06	
2,723.0	37.50	265.20	2,578.8	-43.9	-554.3	178.6	2.14	1.17	-2.98	
2,818.0	36.00	263.00	2,654.9	-49.7	-610.9	195.6	2.10	-1.58	-2.32	
2,912.0	34.70	260.20	2,731.6	-57.6	-664.7	209.5	2.21	-1.38	-2.98	
3,006.0	35.60	262.00	2,808.4	-66.0	-718.1	223.0	1.46	0.96	1.91	
3,100.0	36.10	268.50	2,884.7	-70.5	-772.9	240.5	4.08	0.53	6.91	
3,194.0	33.70	269.40	2,961.7	-71.5	-826.7	260.8	2.61	-2.55	0.96	
3,289.0	32.60	266.60	3,041.3	-73.3	-878.6	279.6	1.98	-1.16	-2.95	
3,383.0	34.40	266.40	3,119.7	-76.5	-930.4	297.2	1.92	1.91	-0.21	
3,478.0	34.50	267.60	3,198.0	-79.3	-984.0	315.8	0.72	0.11	1.26	
3,573.0	37.00	267.00	3,275.1	-81.9	-1,039.5	335.2	2.66	2.63	-0.63	
3,667.0	38.70	266.90	3,349.3	-85.0	-1,097.1	355.2	1.81	1.81	-0.11	
3,762.0	35.60	265.20	3,425.0	-88.9	-1,154.3	374.2	3.44	-3.26	-1.79	
3,857.0	33.20	264.00	3,503.4	-93.9	-1,207.7	390.6	2.63	-2.53	-1.26	
3,951.0	33.90	261.80	3,581.8	-100.4	-1,259.3	405.1	1.49	0.74	-2.34	
4,046.0	32.40	262.80	3,661.3	-107.3	-1,310.7	419.0	1.68	-1.58	1.05	
4,140.0	32.80	261.00	3,740.5	-114.5	-1,360.9	432.3	1.12	0.43	-1.91	
4,235.0	34.10	260.10	3,819.8	-123.1	-1,412.5	444.7	1.46	1.37	-0.95	
4,330.0	39.90	260.90	3,895.6	-132.5	-1,468.9	458.4	6.13	6.11	0.84	
4,424.0	38.30	259.80	3,968.5	-142.4	-1,527.3	472.3	1.86	-1.70	-1.17	
4,488.0	35.40	257.60	4,019.8	-149.9	-1,565.0	480.3	4.98	-4.53	-3.44	
4,519.0	34.30	259.10	4,045.2	-153.5	-1,582.3	483.9	4.50	-3.55	4.84	
4,551.0	34.60	265.20	4,071.6	-155.9	-1,600.2	488.7	10.82	0.94	19.06	
4,582.0	35.50	270.50	4,097.0	-156.6	-1,618.0	495.1	10.24	2.90	17.10	
4,614.0	37.20	275.50	4,122.7	-155.6	-1,636.9	503.5	10.67	5.31	15.63	
4,645.0	38.30	279.00	4,147.3	-153.2	-1,655.8	513.1	7.77	3.55	11.29	
4,676.0	39.10	283.10	4,171.5	-149.5	-1,674.8	524.0	8.66	2.58	13.23	
4,708.0	39.20	287.40	4,196.3	-144.2	-1,694.3	536.6	8.49	0.31	13.44	

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well M Kitts 3408 1-20H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1286.0usft
Site:	Sec 20-T34S-R08W	MD Reference:	KB @ 1286.0usft
Well:	M Kitts 3408 1-20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,739.0	38.80	291.90	4,220.4	-137.6	-1,712.6	549.9	9.22	-1.29	14.52
4,771.0	37.80	296.90	4,245.5	-129.4	-1,730.7	564.5	10.17	-3.13	15.63
4,802.0	38.10	301.50	4,269.9	-120.1	-1,747.3	579.6	9.18	0.97	14.84
4,834.0	38.70	305.70	4,295.0	-109.1	-1,763.8	596.3	8.36	1.88	13.13
4,865.0	39.80	309.40	4,319.0	-97.2	-1,779.4	613.4	8.34	3.55	11.94
4,897.0	40.10	312.00	4,343.6	-83.8	-1,795.0	631.9	5.30	0.94	8.13
4,929.0	40.40	315.60	4,368.0	-69.5	-1,809.9	650.9	7.33	0.94	11.25
4,960.0	41.30	319.20	4,391.4	-54.6	-1,823.6	670.0	8.13	2.90	11.61
4,992.0	42.50	322.90	4,415.3	-37.9	-1,837.0	690.6	8.58	3.75	11.56
5,023.0	43.60	326.40	4,437.9	-20.7	-1,849.2	711.3	8.48	3.55	11.29
5,055.0	44.60	329.20	4,460.9	-1.8	-1,861.1	733.3	6.84	3.13	8.75
5,087.0	46.60	331.50	4,483.3	18.0	-1,872.4	756.0	8.09	6.25	7.19
5,118.0	48.30	334.20	4,504.3	38.4	-1,882.8	778.8	8.44	5.48	8.71
5,150.0	49.80	336.90	4,525.2	60.4	-1,892.8	802.9	7.91	4.69	8.44
5,181.0	51.80	340.00	4,544.8	82.7	-1,901.6	826.9	10.08	6.45	10.00
5,213.0	54.60	341.70	4,564.0	106.9	-1,910.0	852.5	9.73	8.75	5.31
5,244.0	57.70	343.10	4,581.3	131.4	-1,917.8	878.1	10.68	10.00	4.52
5,276.0	60.80	344.30	4,597.6	157.8	-1,925.5	905.4	10.21	9.69	3.75
5,307.0	64.00	345.90	4,612.0	184.4	-1,932.6	932.6	11.29	10.32	5.16
5,339.0	67.10	346.70	4,625.2	212.7	-1,939.5	961.3	9.95	9.69	2.50
5,370.0	70.50	346.90	4,636.4	240.8	-1,946.1	989.8	10.98	10.97	0.65
5,402.0	74.30	347.90	4,646.1	270.6	-1,952.7	1,019.7	12.24	11.88	3.13
5,433.0	77.70	347.30	4,653.6	299.9	-1,959.2	1,049.3	11.13	10.97	-1.94
5,464.0	81.30	349.10	4,659.3	329.8	-1,965.4	1,079.1	12.94	11.61	5.81
5,496.0	84.70	350.50	4,663.2	361.0	-1,971.0	1,110.1	11.48	10.63	4.38
5,527.0	85.70	351.70	4,665.8	391.6	-1,975.8	1,140.0	5.03	3.23	3.87
5,559.0	86.00	351.70	4,668.1	423.1	-1,980.4	1,170.8	0.94	0.94	0.00
5,653.0	85.20	355.70	4,675.3	516.3	-1,990.7	1,260.4	4.33	-0.85	4.26
5,748.0	85.30	355.50	4,683.2	610.7	-1,998.0	1,350.0	0.23	0.11	-0.21
5,842.0	86.20	355.10	4,690.1	704.1	-2,005.6	1,438.9	1.05	0.96	-0.43
5,888.0	86.50	354.30	4,693.0	749.8	-2,009.9	1,482.6	1.85	0.65	-1.74
5,934.0	90.20	355.30	4,694.4	795.6	-2,014.1	1,526.3	8.33	8.04	2.17
6,025.0	91.50	354.70	4,693.0	886.2	-2,022.0	1,612.7	1.57	1.43	-0.66
6,117.0	88.80	354.20	4,692.8	977.8	-2,030.9	1,700.3	2.98	-2.93	-0.54
6,207.0	88.90	357.60	4,694.6	1,067.5	-2,037.3	1,785.3	3.78	0.11	3.78
6,298.0	89.60	359.70	4,695.8	1,158.5	-2,039.5	1,869.7	2.43	0.77	2.31
6,389.0	90.60	1.50	4,695.6	1,249.5	-2,038.5	1,952.9	2.26	1.10	1.98
6,480.0	90.70	1.60	4,694.6	1,340.4	-2,036.0	2,035.5	0.16	0.11	0.11
6,571.0	90.90	2.90	4,693.3	1,431.4	-2,032.5	2,117.6	1.45	0.22	1.43
6,662.0	90.20	2.70	4,692.4	1,522.2	-2,028.0	2,199.4	0.80	-0.77	-0.22

DrillRight

Survey Report

Company:	Sandridge Energy	Local Co-ordinate Reference:	Well M Kitts 3408 1-20H
Project:	Harper County (NAD-27)	TVD Reference:	KB @ 1286.0usft
Site:	Sec 20-T34S-R08W	MD Reference:	KB @ 1286.0usft
Well:	M Kitts 3408 1-20H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,757.0	90.80	2.20	4,691.6	1,617.1	-2,024.0	2,285.0	0.82	0.63	-0.53	
6,851.0	91.30	2.20	4,689.9	1,711.1	-2,020.4	2,369.8	0.53	0.53	0.00	
6,946.0	89.00	0.50	4,689.6	1,806.0	-2,018.1	2,456.2	3.01	-2.42	-1.79	
7,041.0	88.00	1.20	4,692.1	1,901.0	-2,016.7	2,542.9	1.28	-1.05	0.74	
7,135.0	88.60	0.90	4,694.9	1,994.9	-2,015.0	2,628.5	0.71	0.64	-0.32	
7,231.0	89.80	0.40	4,696.3	2,090.9	-2,013.9	2,716.3	1.35	1.25	-0.52	
7,325.0	89.10	359.80	4,697.2	2,184.9	-2,013.7	2,802.5	0.98	-0.74	-0.64	
7,421.0	90.10	359.90	4,697.8	2,280.9	-2,014.0	2,890.8	1.05	1.04	0.10	
7,515.0	90.80	359.00	4,697.1	2,374.9	-2,014.9	2,977.5	1.21	0.74	-0.96	
7,609.0	91.00	359.60	4,695.6	2,468.9	-2,016.0	3,064.3	0.67	0.21	0.64	
7,704.0	90.00	2.80	4,694.8	2,563.8	-2,014.0	3,150.8	3.53	-1.05	3.37	
7,798.0	89.10	3.30	4,695.5	2,657.7	-2,009.0	3,235.1	1.10	-0.96	0.53	
7,892.0	90.00	2.80	4,696.3	2,751.6	-2,004.0	3,319.3	1.10	0.96	-0.53	
7,986.0	91.00	358.80	4,695.4	2,845.5	-2,002.7	3,405.1	4.39	1.06	-4.26	
8,080.0	91.70	351.80	4,693.2	2,939.1	-2,010.4	3,494.2	7.48	0.74	-7.45	
8,174.0	93.00	353.10	4,689.4	3,032.2	-2,022.8	3,584.6	1.95	1.38	1.38	
8,268.0	92.90	356.90	4,684.5	3,125.7	-2,030.9	3,673.7	4.04	-0.11	4.04	
8,362.0	92.30	359.00	4,680.3	3,219.6	-2,034.3	3,761.2	2.32	-0.64	2.23	
8,458.0	90.50	0.20	4,677.9	3,315.5	-2,035.0	3,849.7	2.25	-1.88	1.25	
8,552.0	90.40	1.50	4,677.2	3,409.5	-2,033.6	3,935.5	1.39	-0.11	1.38	
8,646.0	90.40	1.90	4,676.5	3,503.5	-2,030.8	4,020.7	0.43	0.00	0.43	
8,741.0	89.00	2.20	4,677.0	3,598.4	-2,027.4	4,106.6	1.51	-1.47	0.32	
8,836.0	90.50	2.10	4,677.4	3,693.3	-2,023.8	4,192.4	1.58	1.58	-0.11	
8,930.0	89.10	2.40	4,677.8	3,787.3	-2,020.1	4,277.2	1.52	-1.49	0.32	
9,024.0	89.40	2.70	4,679.0	3,881.2	-2,016.0	4,361.8	0.45	0.32	0.32	
9,119.0	89.30	1.40	4,680.1	3,976.1	-2,012.6	4,447.7	1.37	-0.11	-1.37	
9,213.0	90.10	1.40	4,680.6	4,070.1	-2,010.3	4,533.1	0.85	0.85	0.00	
9,308.0	91.20	1.00	4,679.5	4,165.0	-2,008.3	4,619.6	1.23	1.16	-0.42	
9,403.0	90.50	1.00	4,678.1	4,260.0	-2,006.6	4,706.2	0.74	-0.74	0.00	
9,496.0	90.10	1.60	4,677.6	4,353.0	-2,004.5	4,790.8	0.78	-0.43	0.65	
9,591.0	90.50	0.50	4,677.1	4,448.0	-2,002.8	4,877.3	1.23	0.42	-1.16	
9,685.0	91.80	0.60	4,675.2	4,541.9	-2,001.9	4,963.3	1.39	1.38	0.11	
9,722.0	91.90	0.90	4,674.0	4,578.9	-2,001.4	4,997.1	0.85	0.27	0.81	
Last Drillright MWD Survey										
9,772.0	91.90	0.90	4,672.4	4,628.9	-2,000.6	5,042.7	0.00	0.00	0.00	
Projection at TD										

DrillRight

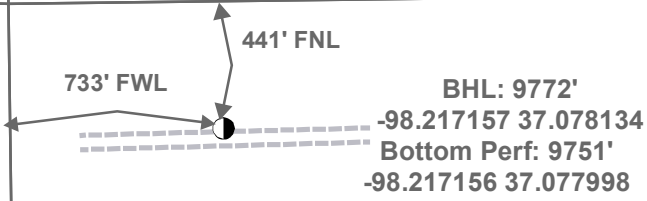
Survey Report

Company: Sandridge Energy	Local Co-ordinate Reference: Well M Kitts 3408 1-20H
Project: Harper County (NAD-27)	TVD Reference: KB @ 1286.0usft
Site: Sec 20-T34S-R08W	MD Reference: KB @ 1286.0usft
Well: M Kitts 3408 1-20H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: EDM 5000.1 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
736.0	736.0	-1.0	-2.4	First Drillright MWD Survey
9,722.0	4,674.0	4,578.9	-2,001.4	Last Drillright MWD Survey
9,772.0	4,672.4	4,628.9	-2,000.6	Projection at TD

Checked By: _____ Approved By: _____ Date: _____

Section 17
34S 8W

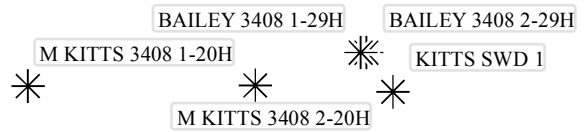


Section 20
34S 8W

Harper County

Top Perf: 6044'
-98.216929 37.067954

Miss Entry: 5377'
-98.216615 37.066204



Section 29
34S 8W



Actual Bottom-Hole Location of M Kitts 3408 1-20H
T&R: 34S 8W
Section: 20, 733' FWL & 441' FNL
-98.217157 37.078134

1 in = 667 ft

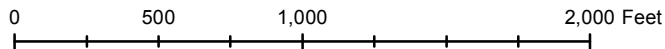


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 5/8/2015

Drawing Name/Number:

Addendum_M Kitts 3408 1-20H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502