



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217556
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: _____

1217556

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> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	George 3406 2-4H
Doc ID	1217556

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	9033-9137	1500 gals 15% HCl Acid, 2977 bbls Fresh Slickwater, Running TLTR 3007 bbls	
5	8847-9033	1500 gals 15% HCl Acid, 2568 bbls Fresh Slickwater, Running TLTR 5575 bbls	
5	8666-8847	1500 gals 15% HCl Acid, 2453 bbls Fresh Slickwater, Running TLTR 8028 bbls	
5	8483-8666	1500 gals 15% HCl Acid, 2420 bbls Fresh Slickwater, Running TLTR 10448 bbls	
5	8296-8483	1500 gals 15% HCl Acid, 2427 bbls Fresh Slickwater, Running TLTR 12875 bbls	
5	8112-8296	1500 gals 15% HCl Acid, 2452 bbls Fresh Slickwater, Running TLTR 15327 bbls	
5	7929-8112	1500 gals 15% HCl Acid, 2389 bbls Fresh Slickwater, Running TLTR 17716 bbls	
5	7745-7929	1500 gals 15% HCl Acid, 2464 bbls Fresh Slickwater, Running TLTR 20180 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	George 3406 2-4H
Doc ID	1217556

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7564-7745	1500 gals 15% HCl Acid, 2548 bbls Fresh Slickwater, Running TLTR 22728 bbls	
5	7381-7564	1500 gals 15% HCl Acid, 2390 bbls Fresh Slickwater, Running TLTR 25118 bbls	
5	7194-7381	1500 gals 15% HCl Acid, 2525 bbls Fresh Slickwater, Running TLTR 27643 bbls	
5	7004-7194	1500 gals 15% HCl Acid, 2675 bbls Fresh Slickwater, Running TLTR 30318 bbls	
5	6820-7004	1500 gals 15% HCl Acid, 2490 bbls Fresh Slickwater, Running TLTR 32808 bbls	
5	6630-6820	1500 gals 15% HCl Acid, 2474 bbls Fresh Slickwater, Running TLTR 35282 bbls	
5	6444-6630	1500 gals 15% HCl Acid, 2476 bbls Fresh Slickwater, Running TLTR 37758 bbls	
5	6253-6444	1500 gals 15% HCl Acid, 2526 bbls Fresh Slickwater, Running TLTR 40284 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	George 3406 2-4H
Doc ID	1217556

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6067-6253	1500 gals 15% HCl Acid, 2323 bbls Fresh Slickwater, Running TLTR 42607 bbls	
5	5877-6067	1500 gals 15% HCl Acid, 2290 bbls Fresh Slickwater, Running TLTR 44897 bbls	
5	5688-5877	1500 gals 15% HCl Acid, 2105 bbls Fresh Slickwater, Running TLTR 47002 bbls	
5	5581-5688	1500 gals 15% HCl Acid, 2197 bbls Fresh Slickwater, Running TLTR 49199 bbls	
5	5124-5412	1500 gals 15% HCl Acid, 4095 bbls Fresh Slickwater, Running TLTR 53295 bbls	



INVOICE

DATE	INVOICE #
4/24/2014	4727

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

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

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	4/23/2014	3584	LARIAT 40	GEORGE 3406 2-4H	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 MUD, WATER, AND TRUCKING
 FURNISHED WELDER AND MATERIALS
 FURNISHED 8 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 \$19,000.00

Sales Tax (6.15%)	\$158.79
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TOTAL	\$19,158.79
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JOB SUMMARY			PROJECT NUMBER SOK 3676	TICKET DATE 05/03/14
COUNTY Harper	STATE Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Jackie Kennedy	
LEASE NAME George 3406	Well No. 2-4H	JOB TYPE Surface	EMPLOYEE NAME Barry Barkley	

EMP NAME Barry Barkley	0				
Louis Arney					
Ron Derry					
0.00					

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **80** Pressure _____
 Retainer Depth _____ Total Depth **611**

Date	Called Out	On Location	Job Started	Job Completed
	5/2/2014	5/2/2014	5/2/2014	5/2/2014
Time	18:00	20:00	7:07	8:30

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float V ₂	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9 5/8"		Surface	611	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	605	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Water	BBL.	10	8.33
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

Date	Hours	Date	Hours	Description of Job
5/2	4.0	5/2	0.0	Surface
5/3	8.5	5/3	1.5	
Total	12.5	Total	1.5	

Pressures

MAX	750	AVG.	300
Average Rates in BPM			
MAX	5.5	AVG	4
Cement Left in Pipe			
Feet	43	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	180	O-Tex Lite 65/35 Poz: C	6% Total Gel - 2% Calcium Chloride - 0.4% C-41P - 1/2pps Cello-Flake	11.11	2.01	12.40
2	130	Premium Plus (Class C)	2% Calcium Chloride - 1/2pps Cello-Flake	6.32	1.32	14.80
3	0	Premium Plus (Class C)		0	0.00	0.00

Summary

Preflush	10.00	Type:	Fresh Water
Breakdown	MAXIMUM 1,500 PSI	Load & Bkdn: Gal - BBI	N/A
	Lost Returns-I NO/FULL	Excess /Return BBI	20
	Actual TOC SURFACE	Calc. TOC:	SURFACE
Average	Bump Plug PSI: 750	Final Circ. PSI:	250
10 Min.	10 Min. 15 Min.	Cement Slurry BBI	95.0
		Total Volume BBI	148.90

CUSTOMER REPRESENTATIVE Jackie Kennedy SIGNATURE

JOB SUMMARY			PROJECT NUMBER SOK 3708	TICKET DATE 05/11/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Jackie Kennedy	
LEASE NAME George 3406	Well No. 2-4H	JOB TYPE Intermediate	EMPLOYEE NAME John Hall	

EMP NAME John Hall	0				
Joseph Klemm					
Roy Morris					
Randall Irvin					

Form. Name _____ Type: _____
 Packer Type _____ Set At **0**
 Bottom Hole Temp. **155** Pressure _____
 Retainer Depth _____ Total Depth **0**

Date	Called Out 5/10/2014	On Location 5/10/2014	Job Started 5/11/2014	Job Completed 5/11/2014
Time	830pm	1030pm	200am	400am

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

New/Used		Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,581	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 1/2"		Surface	5,581	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	GEL	BBL.	30 10.00
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			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/10	1.5	5/11	2.0	Intermediate
5/11	4.0			
Total	5.5	Total	2.0	

Pressures		
MAX	5,000 PSI	AVG.
Average Rates in BPM		
MAX	8 BPM	AVG
Cement Left in Pipe		
Feet	94	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	270	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.2% C-20 - 0.1% C-37 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	Type: _____	MAXIMUM _____	Lost Returns _____	Actual TOC _____	Bump Plug PSI: _____
Average ISIP _____	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 _____	329.90
				Type: Gel Spacer	30.00
				Pad:Bbl -Gal	N/A
				Calc. Disp Bbl	210
				Actual Disp.	210.10
				Disp:Bbl	210.10

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

Job well done

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/28/2014
Job End Date:	5/29/2014
State:	Kansas
County:	Harper
API Number:	15-077-22043-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	George 3406 2-4H
Longitude:	-97.98085960
Latitude:	37.10994200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,514
Total Base Water Volume (gal):	2,320,710
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	93.75881	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.84704	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.10699	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00508	None
			Methyl Alcohol	67-56-1	80.00000	0.00089	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00017	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00198	None
			Citric Acid	77-92-9	30.00000	0.00119	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00174	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00018	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.00030	

			Water	7732-18-5	99.90000	
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.						
		Other Chemicals				
			Water	7732-18-5		0.04716
			WATER	7732-18-5		0.03050
			Anionic Polymer	N/A		0.02358
			Aliphatic Hydrocarbon	64742-47-8		0.02358
			TRADE SECRET	N/A		0.02033
			Water	7732-18-5		0.00913
			METHANOL	67-56-1		0.00508
			ISOPROPANOL	67-63-0		0.00508
			Polyol Ester	N/A		0.00393
			Oxyalkylated Alcohol	68002-97-1		0.00393
			Acrylic Polymer	28205-96-1		0.00152
			Sodium Salt of Phosphate Ester	68131-72-6		0.00152
			Water	7732-18-5		0.00138
			Polyglycol Ester	N/A		0.00079
			Alcohol Ethoxylate Surfactants	N/A		0.00017
			n-olefins	N/A		0.00009
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008
			Propargyl Alcohol	107-19-7		0.00007
			Acetic Acid	64-19-7		
			Buffer	N/A		
			Surfactant	N/A		
			Cinnamic Aldehyde	104-55-2		
			Water	7732-18-5		

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4953	290	850	4453
BHL	9140	90.00	359.30	4513.96	4630.99	751.37	4691.50	0.00	334	4908	1669	3628
Miss Entry	5076	75.39	16.37	4496.86	577.38	790.33	693.54	8.10	4388	854	1649	3653
Top Port	5640	91.44	358.57	4547.82	1133.91	807.93	1246.01	1.14	3832	1410	1675	3627
Bottom Port	9121	90.00	359.30	4513.96	4611.99	751.60	4672.77	0.02	353	4889	1669	3628

Survey Points	NW Corner XY Coord	X	Y	Surface XY	X	Y	m			
							North Line slope	East Line slope	South Line slope	West Line slope
	2150473	166766			2151395	161827	0.0154863	-0.0158518	0.0167861	-0.0144955
	2150549	161523								
	2155768	166848								
	2155851	161612								

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
0	0.0	0	0	0	0	0	0	4953	290	850	4453
250	0.66	347.30	249.99	1.40	-0.32	1.34	0.26	4952	291	850	4453
552	0.75	347.30	551.97	5.03	-1.13	4.79	0.03	4948	295	849	4454
689	0.30	347.30	688.97	6.25	-1.41	5.96	0.33	4947	296	849	4454
965	0.40	95.00	964.96	6.88	-0.61	6.70	0.21	4946	297	850	4453
1421	0.30	123.70	1420.95	6.07	1.97	6.31	0.04	4947	296	852	4451
1895	0.50	127.10	1894.94	4.14	4.65	4.81	0.04	4949	294	855	4448
2371	0.50	101.00	2370.92	2.49	8.35	3.76	0.05	4951	292	859	4444
2844	0.10	131.20	2843.92	1.82	10.68	3.47	0.09	4952	291	861	4442
3319	0.40	292.30	3318.91	2.18	9.46	3.63	0.10	4951	292	860	4443
3510	1.00	220.70	3509.90	1.17	7.76	2.36	0.50	4952	291	858	4445
3542	1.00	217.80	3541.90	0.74	7.40	1.88	0.16	4953	290	858	4445
3573	0.80	221.90	3572.89	0.36	7.09	1.46	0.68	4953	290	858	4445
3605	1.70	66.70	3604.89	0.38	7.38	1.53	7.65	4953	290	858	4445
3636	4.70	61.40	3635.84	1.17	8.92	2.55	9.71	4952	291	859	4444
3668	7.70	58.60	3667.65	2.92	11.90	4.74	9.42	4951	293	862	4441
3699	9.50	56.90	3698.30	5.40	15.82	7.80	5.86	4948	295	866	4437
3731	11.50	59.20	3729.76	8.47	20.77	11.61	6.38	4945	298	871	4432
3762	13.50	65.50	3760.02	11.56	26.72	15.58	7.80	4942	301	877	4426
3793	15.60	70.40	3790.03	14.46	33.94	19.57	7.85	4939	304	885	4418
3825	17.60	70.50	3820.69	17.51	42.55	23.93	6.25	4936	307	893	4410
3856	19.60	71.10	3850.07	20.76	51.89	28.60	6.48	4933	310	903	4400
3887	22.10	72.30	3879.04	24.22	62.37	33.65	8.18	4930	313	913	4390
3919	25.30	72.10	3908.34	28.15	74.61	39.44	10.00	4926	317	925	4378
3951	27.60	73.30	3936.99	32.39	88.22	45.74	7.38	4922	321	939	4364
3982	29.50	74.00	3964.22	36.55	102.44	52.08	6.22	4918	325	953	4350
4014	32.70	73.10	3991.61	41.24	118.28	59.18	10.10	4914	329	969	4334
4045	34.40	73.20	4017.45	46.21	134.68	66.64	5.49	4909	334	986	4317
4077	35.50	72.20	4043.68	51.66	152.18	74.75	3.88	4904	339	1003	4300
4108	37.50	71.10	4068.59	57.47	169.68	83.22	6.79	4898	344	1021	4282
4140	40.20	69.90	4093.51	64.17	188.60	92.79	8.76	4892	351	1040	4263
4172	42.40	69.30	4117.55	71.54	208.39	103.15	6.99	4885	358	1060	4243
4203	44.00	68.70	4140.15	79.14	228.20	113.75	5.33	4878	365	1080	4223
4235	46.20	69.90	4162.74	87.15	249.40	124.97	7.37	4870	373	1101	4202
4266	48.40	70.40	4183.76	94.88	270.83	135.95	7.20	4863	380	1123	4180
4298	50.90	70.60	4204.48	103.02	293.82	147.57	7.83	4855	388	1146	4157
4330	53.30	70.00	4224.13	111.54	317.59	159.69	7.64	4847	396	1170	4133
4362	55.00	68.50	4242.87	120.73	341.84	172.55	6.53	4838	405	1194	4109
4394	57.20	66.20	4260.72	130.96	366.35	186.48	9.10	4828	415	1219	4084
4426	59.80	64.50	4277.44	142.34	391.14	201.59	9.30	4817	426	1244	4059
4457	61.70	63.70	4292.59	154.16	415.47	217.05	6.53	4806	437	1268	4035
4489	62.60	61.10	4307.54	167.27	440.54	233.91	7.71	4793	450	1293	4009
4520	63.30	59.10	4321.64	181.03	464.47	251.24	6.17	4779	463	1317	3985
4552	64.50	57.60	4335.72	196.11	488.93	269.94	5.64	4765	478	1342	3961
4583	65.80	56.10	4348.74	211.49	512.48	288.81	6.07	4750	493	1366	3937
4615	66.60	54.70	4361.66	228.12	536.58	308.99	4.72	4733	509	1390	3912
4646	67.70	52.60	4373.70	245.05	559.58	329.30	7.18	4717	525	1414	3889
4678	69.70	50.40	4385.32	263.61	582.91	351.27	8.95	4699	544	1437	3866
4709	71.00	47.80	4395.75	282.73	604.97	373.59	8.94	4680	562	1459	3843
4741	71.90	45.50	4405.93	303.55	627.03	397.60	7.37	4659	583	1482	3821
4773	72.00	42.20	4415.85	325.49	648.10	422.56	9.81	4638	604	1503	3799
4804	72.30	40.10	4425.35	347.71	667.52	447.53	6.52	4616	626	1523	3780
4836	72.50	37.00	4435.03	371.56	686.52	474.06	9.26	4592	650	1542	3760
4867	73.60	34.70	4444.07	395.59	703.89	500.50	7.93	4569	674	1560	3742
4900	74.90	31.80	4453.03	422.15	721.30	529.45	9.33	4542	700	1578	3725
4931	75.80	29.20	4460.87	447.99	736.52	557.35	8.62	4517	725	1593	3709
4963	75.30	26.60	4468.85	475.37	751.02	586.66	8.02	4490	753	1608	3694
4995	75.60	23.20	4476.89	503.46	764.05	616.44	10.33	4462	780	1622	3681
5026	76.10	20.30	4484.47	531.38	775.19	645.75	9.21	4434	808	1633	3669
5058	75.50	18.00	4492.33	560.68	785.37	676.28	7.22	4405	837	1644	3658
5090	75.30	15.10	4500.39	590.36	794.19	706.97	8.79	4375	867	1653	3649
5122	75.50	12.30	4508.46	620.45	801.52	737.83	8.49	4345	897	1661	3641
5154	76.40	9.00	4516.23	650.95	807.25	768.85	10.39	4315	927	1667	3635
5185	77.30	5.80	4523.29	680.88	811.14	799.03	10.46	4285	957	1671	3631
5217	78.90	3.10	4529.88	712.10	813.57	830.24	9.65	4254	988	1674	3628

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
Top of Tangent @ 5310'	5248	81.50	0.90	4535.16	742.62	814.63	860.55	10.92	4223	1019	1676	3626
	5293	85.00	359.70	4540.45	787.30	814.86	904.72	8.22	4179	1063	1677	3625
	5357	86.40	359.40	4545.25	851.12	814.36	967.68	2.24	4115	1127	1677	3625
Btm of Tangent @ 5606'	5407	87.60	359.00	4547.87	901.04	813.67	1016.89	2.53	4065	1177	1677	3625
	5452	88.50	358.60	4549.40	946.00	812.72	1061.15	2.19	4020	1222	1677	3625
	5501	89.80	358.50	4550.12	994.98	811.48	1109.34	2.66	3971	1271	1676	3625
	5545	90.80	358.50	4549.89	1038.97	810.33	1152.60	2.27	3927	1315	1676	3626
	5678	91.70	358.60	4546.99	1171.89	806.97	1283.38	0.68	3794	1448	1674	3627
	5769	88.20	358.50	4547.07	1262.85	804.66	1372.86	3.85	3703	1539	1673	3628
	5860	88.60	357.80	4549.61	1353.76	801.73	1462.21	0.89	3612	1630	1672	3629
	5952	90.50	358.80	4550.33	1445.72	799.00	1552.61	2.33	3520	1722	1670	3631
	6044	91.80	358.60	4548.49	1537.67	796.91	1643.12	1.43	3428	1814	1670	3631
	6135	92.80	359.10	4544.84	1628.58	795.09	1732.63	1.23	3337	1905	1669	3632
	6227	92.00	359.30	4540.98	1720.49	793.80	1823.21	0.90	3245	1997	1669	3632
	6319	92.70	359.80	4537.21	1812.41	793.08	1913.90	0.93	3153	2089	1670	3631
	6410	90.60	358.50	4534.59	1903.35	791.73	2003.52	2.71	3062	2180	1670	3631
	6502	87.70	358.30	4535.96	1995.30	789.16	2093.94	3.16	2970	2272	1668	3632
	6593	89.30	357.00	4538.34	2086.18	785.43	2183.13	2.27	2879	2363	1666	3634
	6684	90.60	357.80	4538.42	2177.09	781.31	2272.28	1.68	2788	2454	1663	3637
	6775	91.40	356.90	4536.83	2267.97	777.10	2361.40	1.32	2697	2545	1660	3640
	6870	91.20	356.60	4534.67	2362.80	771.71	2454.22	0.38	2602	2640	1656	3643
	6964	91.60	357.50	4532.38	2456.64	766.88	2546.17	1.05	2509	2734	1653	3647
	7058	91.00	358.20	4530.24	2550.55	763.35	2638.38	0.98	2415	2828	1651	3649
	7153	89.90	359.10	4529.50	2645.52	761.12	2731.84	1.50	2320	2923	1650	3650
	7248	91.90	357.70	4528.01	2740.46	758.46	2825.21	2.57	2225	3018	1649	3651
	7342	90.90	354.90	4525.71	2834.23	752.40	2916.88	3.16	2131	3111	1644	3655
	7438	91.40	357.40	4523.78	2929.99	745.96	3010.46	2.66	2035	3207	1639	3660
	7533	92.80	357.70	4520.30	3024.83	741.90	3103.51	1.51	1940	3302	1636	3663
	7628	91.60	0.40	4516.65	3119.74	740.32	3197.01	3.11	1845	3397	1636	3663
	7722	92.60	1.10	4513.21	3213.67	741.55	3289.98	1.30	1751	3491	1639	3660
	7816	92.90	0.50	4508.70	3307.55	742.86	3382.92	0.71	1657	3585	1641	3657
7912	90.80	0.80	4505.60	3403.49	743.95	3477.86	2.21	1561	3681	1644	3655	
8007	90.90	3.40	4504.19	3498.40	747.43	3572.16	2.74	1466	3776	1649	3650	
8102	89.00	2.40	4504.27	3593.28	752.24	3666.62	2.26	1372	3870	1655	3643	
8196	88.50	2.30	4506.32	3687.17	756.09	3759.97	0.54	1278	3964	1660	3638	
8290	88.80	1.10	4508.54	3781.11	758.88	3853.19	1.32	1184	4058	1664	3634	
8385	89.00	0.40	4510.36	3876.08	760.12	3947.19	0.77	1089	4153	1667	3631	
8480	89.60	0.00	4511.52	3971.07	760.46	4041.07	0.76	994	4248	1668	3629	
8575	88.90	358.50	4512.77	4066.05	759.21	4134.70	1.74	899	4343	1669	3629	
8669	89.80	359.10	4513.83	4160.02	757.24	4227.21	1.15	805	4437	1668	3629	
8740	90.00	359.30	4513.96	4231.02	756.25	4297.18	0.40	734	4508	1668	3629	
9140	90.00	359.30	4513.96	4630.99	751.37	4691.50	0.00	334	4908	1669	3628	

Section 32
33S 6W

Section 33
33S 6W

334' FNL
BHL: 9140'
-97.978930 37.122601

1669' FWL
Bottom Perf: 9137'
-97.978928 37.122549

CURT 1-4



BILL 1-4



CLARK 1-4



Harper County

Section 4
34S 6W

Section 5
34S 6W

Top Perf: 5124'
-97.978467 37.111697

BOLLMAN 3-4
Miss Entry: 5076'
-97.978503 37.111579



KATE 3406 1-4



GEORGE 3406 3-9H

GEORGE 3406 1-9H



GEORGE 3406 2-4H

JAMES 3406 1-4H

JAMES 3406 2-4H

JAMES 3406 3-9H



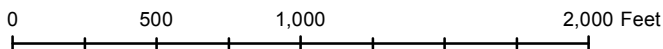
Section 8
34S 6W

Section 9
34S 6W



Actual Bottom-Hole Location of George 3406 2-4H
T&R: 34S 6W
Section: 4, 1669' FWL & 334' FNL
-97.978930 37.122601

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf
□ Sections

Draftsman:

Naomi Martinez

Draft Date: 8/19/2014

Drawing Name/Number:

Addendum_George 3406 2-4H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502