



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1222204
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: _____

1222204

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

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	William 3306 1-32H
Doc ID	1222204

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	9344-9492	1500 gals 15% HCL Acid 2508 bbls Fresh Slickwater, Running TLTR 2508 bbls	
1	9175-9344	1500 gals 15% HCL Acid 2608 bbls Fresh Slickwater, Running TLTR 5116 bbls	
1	9011-9175	1500 gals 15% HCL Acid 2413 bbls Fresh Slickwater, Running TLTR 7529 bbls	
1	8764-9011	1500 gals 15% HCL Acid 2401 bbls Fresh Slickwater, Running TLTR 9930 bbls	
1	8561-8764	1500 gals 15% HCL Acid 2476 bbls Fresh Slickwater, Running TLTR 12406 bbls	
1	8352-8561	1500 gals 15% HCL Acid 2408 bbls Fresh Slickwater, Running TLTR 14814 bbls	
1	8141-8352	1500 gals 15% HCL Acid 2542 bbls Fresh Slickwater, Running TLTR 17356 bbls	
1	7930-8141	1500 gals 15% HCL Acid 2514 bbls Fresh Slickwater, Running TLTR 19870 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	William 3306 1-32H
Doc ID	1222204

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	7715-7930	1500 gals 15% HCL Acid 2725 bbls Fresh Slickwater, Running TLTR 22595 bbls	
1	7503-7715	1500 gals 15% HCL Acid 2967 bbls Fresh Slickwater, Running TLTR 25562 bbls	
1	7291-7503	1500 gals 15% HCL Acid 2801 bbls Fresh Slickwater, Running TLTR 28363 bbls	
1	7084-7291	1500 gals 15% HCL Acid 2782 bbls Fresh Slickwater, Running TLTR 31145 bbls	
1	6869-7084	1500 gals 15% HCL Acid 2675 bbls Fresh Slickwater, Running TLTR 33820 bbls	
1	6658-6869	1500 gals 15% HCL Acid 2336 bbls Fresh Slickwater, Running TLTR 36156 bbls	
1	6443-6658	1500 gals 15% HCL Acid 2415 bbls Fresh Slickwater, Running TLTR 39571 bbls	
1	6231-6443	1500 gals 15% HCL Acid 2589 bbls Fresh Slickwater, Running TLTR 41160 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	William 3306 1-32H
Doc ID	1222204

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	6018-6231	1500 gals 15% HCL Acid 2347 bbls Fresh Slickwater, Running TLTR 43507 bbls	
1	5807-6018	1500 gals 15% HCL Acid 2309 bbls Fresh Slickwater, Running TLTR 50816 bbls	
1	5598-5807	1500 gals 15% HCL Acid 2421 bbls Fresh Slickwater, Running TLTR 53237 bbls	
1	5352-5598	1500 gals 15% HCL Acid 2807 bbls Fresh Slickwater, Running TLTR 56041 bbls	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/27/2014
Job End Date:	6/29/2014
State:	Kansas
County:	Harper
API Number:	15-077-22052-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	William 3306 1-32H
Longitude:	-97.99779000
Latitude:	37.12283000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,509
Total Base Water Volume (gal):	2,143,722
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	94.84143	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.37940	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.10628	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00105	None
			Methyl Alcohol	67-56-1	80.00000	0.00088	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	0.00196	None
			Citric Acid	77-92-9	30.00000	0.00117	None
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		0.03303	
			Anionic Polymer	N/A		0.01652	
			Aliphatic Hydrocarbon	64742-47-8		0.01652	
			WATER	7732-18-5		0.00632	

			TRADE SECRET	N/A		0.00421	
			Oxyalkylated Alcohol	68002-97-1		0.00275	
			Polyol Ester	N/A		0.00275	
			Water	7732-18-5		0.00137	
			METHANOL	67-56-1		0.00105	
			ISOPROPANOL	67-63-0		0.00105	
			Polyglycol Ester	N/A		0.00055	
			Alcohol Ethoxylate Surfactants	N/A		0.00017	
			n-olefins	N/A		0.00009	
			Propargyl Alcohol	107-19-7		0.00007	
			Tetrasodium Ethylenediaminetetraacetate Surfactant	64-02-8		0.00006	
			Sodium Salt of Phosphate Ester	68131-72-6			
			Buffer	N/A			
			Water	7732-18-5			
			Cinnamic Aldehyde	104-55-2			
			Acetic Acid	64-19-7			
			Water	7732-18-5			
			Acrylic Polymer	28205-96-1			

* 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)

Mid-Continent Conductor, LLC

Invoice

Date	Invoice #
5/27/2014	2729

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
John Fortune	Net 30	5/27/2014	Williams 3306 1-32H, Harper Cnty, KS	Latshaw 27

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole.
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe.
Mouse Hole	10	Drilled 10 ft. mouse hole.
Mouse Hole	75	Drilled 75 ft. mouse hole.
16" Pipe	85	Furnished 85 ft. of 16 inch mouse hole pipe.
Cellar Hole	1	Drilled 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Transport Truck - Conductor	1	Transport mud and water to location.
Grout & Trucking	12	Furnished 12 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump.
Fence Panels	1	Furnished and set safety netting around holes.
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor and equipment for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC13798
 Well Name: Williams 1-32H
 Code: 850010
 Amount: 18,225.00
 Co. Man: Vince
 Co. Man Sig.: [Signature]
 Notes: _____

Subtotal	\$18,225.00
Sales Tax (0.0%)	\$0.00

Total	\$18,225.00
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JOB SUMMARY			PROJECT NUMBER SOK 3785	TRCKET DATE 05/31/14
COUNTY Harper	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Jerry Bias	
LEASE NAME William	Well No. 1306 1-321	JOB TYPE Surface	EMPLOYEE NAME LOUIS ARNEY	

EMP NAME					
Louis Arney		0			
Vontray Watkins					
Ron Derry					
0.00					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 617'

Date	Called Out 5/31/2014	On Location 5/31/2014	Job Started 5/31/2014	Job Completed 5/31/2014
Time	0100	0700	1556	1745

Tools and Accessories		
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 Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
	New/Used	Weight	Size	Grade	From	To
Casing		36#	9 1/2"		Surface	617'
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	640'
Perforations						Shots/Ft.
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	

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/31	10.8	5/31	1.0	Surface
Total	10.8	Total	1.0	

Perfpac Balls _____ Qty. _____
Other _____
Other _____
Other _____
Other _____
Other _____

Pressures		
MAX	1,500 PSI	AVG. 200
Average Rates in BPM		
MAX	6 BPM	AVG 5
Cement Left in Pipe		
Feet	46'	Reason SHOE JOINT

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
1	155	TEX Lite Premium Plus 65	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .4% C-41P	11.11	2.01	12.40
2	165	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary					
Preflush	_____	Type: _____	Preflush: BBI	<u>10.00</u>	Type: Fresh Water
Breakdown	_____	MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal N/A
	_____	Lost Returns -	Excess /Return BBI	49	Calc. Disp Bbl 46
	_____	Actual TOC	Calc. TOC:	SURFACE	Actual Disp. <u>45.00</u>
Average	_____	Bump Plug PSI:	Final Circ. PSI:	250	Disp: Bbl _____
ISIP	5 Min. _____	10 Min _____	Cement Slurry BBI	<u>95.0</u>	
		15 Min _____	Total Volume BBI	150.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE *J.D. Bell*

JOB SUMMARY

COUNTY		STATE	COMPANY	PROJECT NUMBER	TICKET DATE
Harper		Kansas	Sandridge Exploration & Production	SOK 3821	06/08/14
LEASE NAME		Well No.	JOB TYPE	CUSTOMER REP	
William		1306 1-321	Intermediate	Vince Brown	
EMP NAME			EMPLOYEE NAME		
Arthur Setzer			Frank Reeves		
Jared Green					
Cody Bonitz					
Don Brown					

Form. Name _____ Type: _____

Packer Type _____ Set At _____ 0 _____

Bottom Hole Temp. _____ 145 _____ Pressure _____

Retainer Depth _____ Total Depth _____ 5,400'

Date	Called Out	On Location	Job Started	Job Completed
	6/7/2014	6/7/2014	6/8/2014	6/8/2014
Time	1700	2400	0505	0700

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	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		26#	7"		Surface	5,357	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,400'	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	20	8.33
Spacer type	Caustic	BBL	10	8.40
Acid Type	Gal.	%		
Acid Type	Gal.	%		
Surfactant	Gal.	In		
NE Agent	Gal.	In		
Fluid Loss	Gal/Lb	In		
Gelling Agent	Gal/Lb	In		
Fric. Red.	Gal/Lb	In		
MISC.	Gal/Lb	In		

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours	Date	Hours	Description of Job
6/8	7.0	6/8	2.0	Intermediate
Total	7.0	Total	2.0	

Pressures

MAX	5,000 PSI	AVG.	1370
Average Rates in BPM			
MAX	8 BPM	AVG	7
Cement Left in Pipe			
Feet	84	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	235	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	110	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	10	Type: Caustic	Preflush: BBI	30.00	Type: Gel Spacer
		MAXIMUM 5,000 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-1 NO/FULL	Excess /Return BBI	N/A	Calc. Disp Bbl 202
Average		Actual TOC	Calc. TOC:	2.369	Actual Disp. 202.00
ISIP 5 Min.		Bump Plug PSI: 1,800	Final Circ. PSI:	1.370	Disp:Bbl 202.00
		10 Min 15 Min	Cement Slurry BBI	83.0	
			Total Volume BBI	315.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

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	5499	-200	1247	4044
BHL	9500	89.80	358.90	4508.90	5151.04	-740.45	5203.98	0.00	342	4964	546	4721
Miss Entry	4774	70.03	354.36	4517.64	432.77	-655.83	520.97	7.94	5061	244	594	4695
Top Perf	5352	90.57	357.78	4561.23	1004.90	-693.63	1092.70	0.81	4488	817	561	4726
Bottom Perf	9500	89.80	358.90	4508.90	5151.04	-740.45	5203.98	0.00	342	4964	546	4721

Survey Points	X	Y	Surface XY	X	Y	North Line slope	m
NW Corner XY Coord	2145143	171981		2146432	166493	0.008547	
SW Corner XY Coord	2145184	166671				-0.0123574	
NE Corner XY Coord	2150408	172026				0.0179618	
SE Corner XY Coord	2150473	166766				-0.0077213	

	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	5499	-200	1247	4044
	683	1.20	302.20	682.95	3.8	-6.1	4.63	0.18	5495	-196	1241	4050
	1136	0.60	344.30	1135.90	8.6	-10.7	10.05	0.19	5490	-192	1236	4055
	1601	1.40	278.70	1600.83	11.8	-17.0	14.10	0.27	5487	-188	1230	4061
	1791	1.00	247.50	1790.79	11.5	-20.8	14.36	0.40	5487	-189	1226	4065
	1886	3.40	256.70	1885.72	10.6	-24.3	13.90	2.55	5488	-189	1222	4069
	1981	3.50	254.30	1980.54	9.1	-29.8	13.26	0.18	5490	-191	1217	4074
	2076	3.10	248.20	2075.39	7.4	-35.0	12.27	0.56	5491	-192	1212	4079
	2171	5.30	263.10	2170.13	5.9	-41.8	11.76	2.57	5493	-194	1205	4086
	2267	7.80	266.50	2265.49	5.0	-52.7	12.37	2.63	5494	-194	1194	4097
	2362	9.30	274.80	2359.44	5.2	-66.8	14.61	2.04	5493	-194	1180	4111
	2456	10.90	270.70	2451.98	6.0	-83.2	17.67	1.87	5492	-193	1163	4128
	2551	13.10	268.30	2544.90	5.8	-103.0	20.24	2.37	5492	-193	1144	4147
	2646	16.40	267.90	2636.76	5.0	-127.1	22.85	3.48	5493	-193	1120	4171
	2741	16.40	267.30	2727.89	3.8	-153.9	25.52	0.18	5494	-194	1093	4198
	2836	14.80	267.80	2819.39	2.7	-179.5	28.03	1.69	5495	-194	1067	4224
	2931	15.80	272.10	2911.02	2.8	-204.5	31.58	1.59	5495	-194	1042	4249
	3026	16.60	270.60	3002.25	3.4	-231.0	35.92	0.95	5494	-193	1016	4275
	3121	14.50	268.40	3093.77	3.2	-256.5	39.33	2.30	5494	-193	990	4301
	3216	14.50	267.90	3185.74	2.4	-280.2	41.92	0.13	5494	-193	966	4325
	3311	15.20	269.90	3277.57	2.0	-304.6	44.90	0.91	5494	-193	942	4349
	3405	15.50	268.50	3368.22	1.6	-329.5	48.06	0.51	5495	-193	917	4374
	3499	14.50	267.90	3459.01	0.8	-353.8	50.74	1.08	5495	-193	893	4398
	3593	14.10	275.00	3550.11	1.4	-376.9	54.57	1.91	5494	-192	870	4421
	3688	15.40	273.40	3641.98	3.2	-401.1	59.71	1.43	5492	-190	846	4445
	3782	14.40	274.30	3732.81	4.8	-425.2	64.72	1.09	5491	-188	821	4469
	3877	13.70	271.90	3824.97	6.0	-448.2	69.21	0.96	5489	-186	798	4492
	3908	14.70	276.10	3855.03	6.6	-455.8	70.81	4.63	5489	-186	791	4500
	3939	16.20	283.60	3884.91	8.0	-463.9	73.38	8.05	5487	-184	783	4508
	3971	17.40	291.00	3915.55	10.8	-472.7	77.36	7.66	5484	-181	774	4517
	4003	18.70	297.50	3945.97	14.9	-481.7	82.67	7.49	5480	-177	765	4526
	4034	20.10	303.60	3975.22	20.1	-490.6	89.11	7.94	5475	-171	756	4535
	4066	20.80	305.70	4005.20	26.5	-499.8	96.71	3.17	5468	-165	747	4544
Top of Tangent @ 5050'	4097	20.60	305.90	4034.20	32.9	-508.6	104.30	0.68	5462	-158	738	4553
	4128	20.70	306.30	4063.21	39.3	-517.5	111.93	0.56	5455	-152	729	4561
	4158	22.30	309.90	4091.12	46.1	-526.1	119.87	6.91	5448	-145	721	4570
	4190	23.90	314.20	4120.55	54.5	-535.4	129.51	7.26	5440	-136	712	4579
	4221	25.40	318.90	4148.73	63.9	-544.3	140.06	7.96	5430	-127	703	4588
Btm of Tangent @ 5350'	4253	26.80	322.90	4177.47	74.8	-553.2	152.13	7.03	5419	-116	694	4597
	4285	29.40	324.90	4205.70	87.0	-562.0	165.44	8.64	5407	-103	685	4605
	4317	32.10	326.70	4233.19	100.6	-571.2	180.14	8.91	5394	-90	676	4614
	4348	34.60	329.20	4259.09	115.0	-580.2	195.71	9.20	5379	-75	667	4623
	4380	36.90	332.40	4285.06	131.3	-589.4	213.16	9.26	5363	-59	658	4632
	4411	38.70	335.70	4309.56	148.4	-597.7	231.24	8.73	5345	-41	650	4640
	4442	40.10	339.40	4333.51	166.6	-605.2	250.30	8.82	5327	-23	643	4647
	4472	42.70	342.30	4356.02	185.3	-611.7	269.77	10.77	5308	-4	636	4654
	4504	46.20	343.90	4378.86	206.8	-618.2	291.91	11.48	5287	17	630	4660
	4535	49.40	345.90	4399.68	228.9	-624.1	314.70	11.37	5265	40	624	4666
	4567	53.30	347.90	4419.66	253.3	-629.8	339.59	13.13	5240	64	619	4671
	4598	56.10	349.30	4437.58	278.1	-634.8	364.84	9.75	5216	89	614	4676
	4630	58.00	350.80	4454.98	304.5	-639.4	391.68	7.12	5189	116	610	4680
	4661	60.30	352.00	4470.88	330.8	-643.4	418.29	8.13	5163	142	606	4684
	4693	63.40	352.30	4485.97	358.8	-647.2	446.50	9.72	5135	170	602	4687
	4724	66.20	353.00	4499.17	386.6	-650.8	474.55	9.26	5107	198	599	4690
	4755	68.60	354.00	4511.08	415.0	-654.1	503.15	8.29	5078	226	596	4693
	4787	71.00	354.60	4522.13	444.9	-657.0	533.16	7.70	5048	256	593	4696
	4818	74.20	355.30	4531.40	474.4	-659.6	562.69	10.54	5019	286	591	4698
	4850	77.50	355.30	4539.22	505.3	-662.2	593.66	10.31	4988	317	588	4700
	4882	80.00	355.50	4545.46	536.6	-664.7	624.98	7.84	4957	348	586	4702
	4913	82.80	355.70	4550.10	567.1	-667.1	655.57	9.05	4926	379	584	4704
	4945	84.80	355.90	4553.56	598.9	-669.4	687.31	6.28	4894	410	582	4706
	4976	85.80	355.90	4556.10	629.7	-671.6	718.12	3.23	4864	441	580	4708
	5008	87.40	356.40	4557.99	661.5	-673.7	749.98	5.24	4832	473	578	4710
	5103	88.90	356.10	4561.06	756.3	-679.9	844.65	1.61	4737	568	573	4715
	5198	90.10	356.40	4561.89	851.1	-686.2	939.37	1.30	4642	663	567	4720

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
5293	90.20	357.50	4561.64	945.9	-691.2	1034.00	1.16	4547	758	563	4724
5357	90.60	357.80	4561.19	1009.9	-693.8	1097.67	0.78	4483	822	561	4726
5447	91.00	358.10	4559.94	1099.8	-697.1	1187.16	0.56	4393	912	558	4728
5537	90.00	359.20	4559.15	1189.8	-699.2	1276.53	1.65	4303	1002	557	4729
5633	90.20	359.80	4558.98	1285.8	-700.0	1371.69	0.66	4207	1098	557	4728
5727	89.90	0.20	4558.90	1379.8	-700.0	1464.74	0.53	4113	1192	557	4727
5822	89.30	359.90	4559.57	1474.8	-699.9	1558.78	0.71	4018	1287	558	4726
5917	89.80	359.70	4560.31	1569.8	-700.3	1652.87	0.57	3923	1382	558	4725
6012	90.70	0.00	4559.90	1664.8	-700.5	1746.96	1.00	3828	1477	559	4724
6106	90.80	359.50	4558.67	1758.8	-700.9	1840.06	0.54	3734	1571	559	4724
6202	89.50	0.50	4558.41	1854.8	-700.9	1935.10	1.71	3638	1667	560	4722
6296	90.40	0.30	4558.50	1948.8	-700.3	2028.06	0.98	3544	1761	561	4721
6391	90.80	0.20	4557.50	2043.8	-699.9	2122.05	0.43	3449	1856	563	4719
6486	90.70	0.90	4556.26	2138.7	-698.9	2215.96	0.74	3354	1951	564	4717
6580	90.70	1.00	4555.11	2232.7	-697.4	2308.78	0.11	3260	2045	566	4714
6675	90.40	359.80	4554.20	2327.7	-696.7	2402.73	1.30	3165	2140	568	4712
6770	90.40	359.00	4553.53	2422.7	-697.7	2496.91	0.84	3070	2235	568	4712
6865	90.50	358.70	4552.79	2517.7	-699.6	2591.21	0.33	2975	2330	566	4713
6959	90.00	358.30	4552.38	2611.7	-702.1	2684.58	0.68	2881	2424	565	4714
7053	89.10	357.60	4553.12	2705.6	-705.4	2778.05	1.21	2787	2518	562	4716
7148	91.00	358.50	4553.03	2800.5	-708.7	2872.50	2.21	2692	2613	560	4718
7242	91.70	359.00	4550.82	2894.5	-710.7	2965.80	0.92	2598	2707	558	4719
7337	93.10	359.90	4546.84	2989.4	-711.6	3059.88	1.75	2504	2802	558	4719
7432	92.60	359.80	4542.12	3084.3	-711.9	3153.85	0.54	2409	2897	559	4718
7526	92.00	359.00	4538.35	3178.2	-712.9	3246.97	1.06	2315	2991	558	4718
7621	89.50	357.30	4537.10	3273.1	-715.9	3341.38	3.18	2220	3086	556	4720
7716	90.10	357.70	4537.43	3368.0	-720.1	3435.93	0.76	2125	3181	553	4723
7812	88.80	356.90	4538.35	3463.9	-724.6	3531.49	1.59	2029	3277	549	4726
7907	91.10	359.10	4538.44	3558.8	-727.9	3625.94	3.35	1934	3372	546	4728
8002	91.10	359.20	4536.61	3653.8	-729.3	3720.16	0.11	1839	3466	546	4729
8097	91.60	0.00	4534.38	3748.8	-730.0	3814.28	0.99	1744	3561	546	4728
8193	91.10	0.20	4532.11	3844.8	-729.8	3909.27	0.56	1648	3657	546	4727
8287	90.90	359.30	4530.47	3938.7	-730.2	4002.37	0.98	1554	3751	547	4726
8382	89.70	359.70	4529.98	4033.7	-731.1	4096.53	1.33	1459	3846	547	4726
8477	90.10	0.90	4530.14	4128.7	-730.6	4190.50	1.33	1364	3941	548	4724
8571	91.50	1.90	4528.83	4222.7	-728.3	4283.20	1.83	1270	4035	551	4720
8667	90.90	1.60	4526.82	4318.6	-725.3	4377.76	0.70	1174	4131	555	4716
8761	92.20	1.10	4524.28	4412.6	-723.1	4470.45	1.48	1080	4225	558	4713
8856	90.90	358.20	4521.71	4507.5	-723.7	4564.53	3.34	985	4320	558	4712
8924	90.80	358.60	4520.70	4575.5	-725.6	4632.08	0.61	917	4388	556	4713
9019	93.00	359.40	4517.55	4670.4	-727.3	4726.29	2.46	822	4483	555	4714
9114	92.50	358.00	4512.99	4765.3	-729.4	4820.51	1.56	728	4578	554	4715
9208	91.30	357.70	4509.87	4859.1	-732.9	4913.95	1.32	634	4672	551	4717
9303	90.10	358.50	4508.71	4954.1	-736.1	5008.38	1.52	539	4767	549	4719
9398	90.00	358.70	4508.63	5049.1	-738.4	5102.73	0.24	444	4862	547	4720
9447	89.80	358.90	4508.72	5098.0	-739.4	5151.38	0.58	395	4911	547	4721
9500	89.80	358.90	4508.90	5151.0	-740.4	5203.98	0.00	342	4964	546	4721

Section 29
33S 6W

* SIMON 3306 2-29H

GWENDOLYN 3306 1-32H

342' FNL

BHL: 9500'
-98.001069 37.136820



546' FWL

Bottom Perf: 9492'
-98.001069 37.136820

Section 32
33S 6W
Harper County

Top Perf: 5352'
-98.000604 37.125548

Miss Entry: 4774'
-98.000432 37.123994

VALERIE 1-32



WILLIAM 3306 1-32H

WILLIAM 3306 2-32H

Section 5
34S 6W



MARTIN 3406 1-5H



Actual Bottom-Hole Location of William 3306 1-32H
T&R: 33S 6W
Section: 32, 546' FWL & 342' FNL
-98.001069 37.136820

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet

Draftsman:

Dory Deines

Draft Date: 9/9/2014

Drawing Name/Number:

Addendum_William 3306 1-32H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502