



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1213339
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: _____

1213339

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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RECEIVED

MAR 31 2014

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

REGULATORY DEPT
SANDRIDGE ENERGY

Sold To #: 305021	Ship To #: 3423735	Quote #:	Sales Order #: 901214236
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: BOBEK 3404	Well #: 1-22	API/UWI #:	
Field:	City (SAP): BLUFF CITY	County/Parish:	State:
Contractor: *UNIT DRILLING*	Rig/Platform Name/Num: UNIT 310		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FRENCH, JEREMY	Srvc Supervisor: UNDERWOOD, BILLY	MBU ID Emp #: 159068	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
COE, KYLE E	8	518980	MENDOZA, VICTOR	8	442596	UNDERWOOD, BILLY	10	159068

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10624564C	mile	10804555	mile	11706678	mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-23-14	6	0	3-24-14	2	1			
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Job			Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom	Called Out	23 - Mar - 2014	14:00	CST	
Form Type	BHST			On Location	23 - Mar - 2014	16:00	CST
Job depth MD	1000. ft		Job Depth TVD	Job Started	24 - Mar - 2014	00:00	CST
Water Depth	Wk Ht Above Floor			Job Completed	24 - Mar - 2014	00:55	CST
Perforation Depth (MD)	From	To	Departed Loc	24 - Mar - 2014	02:00	CST	

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
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Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	


Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
2	HLC Standard	EXTENDACEM (TM) SYSTEM (452981)	190.0	sacks	12.4	2.11	11.57		11.57

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
3 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
0.25 lbm		POLY-E-FLAKE (101216940)								
11.57 Gal		FRESH WATER								
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32		5.32	
2 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
0.125 lbm		POLY-E-FLAKE (101216940)								
5.319 Gal		FRESH WATER								
4	Displacement		38	bbl	8.33	.0	.0	.0		
Calculated Values			Pressures			Volumes				
Displacement	38	Shut In: Instant		Lost Returns		Cement Slurry	71/32	Pad		
Top Of Cement		5 Min		Cement Returns	40	Actual Displacement	38	Treatment		
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	151	
Rates										
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature 						

HALLIBURTON

SALES ORDER

Halliburton Energy Services, Inc.

Sales Order Number: 901233241

Sales Order Date: March 24, 2014

SOLD TO:
SANDRIDGE ENERGY INC EBUSINESS
ATTN: ACCOUNTS PAYABLE DEPT
PO BOX 548807 - DO NOT MAIL
OKLAHOMA CITY OK 73154
USA

Rig Name: LARIAT-19 Unit 310
Well/Rig Name: BOBEK -3404- 1-22 H,SUMNER
Company Code: 1100
Customer P.O. No.: NA
Shipping Point: Woodward, OK, USA
Sales Office: Mid-Continent BD
Well Type: Horizontal Oil
Well Category: Development
Service Location: 0042
Payment Terms: Net 60 days from Invoice date
Ticket Type: Services
Order Type: ZOH

SHIP TO:
BOBEK -3404- 1-22 H,SUMNER
BOBEK -3404- 1-22 H
SUMNER
CORBIN KS 67022
USA

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7522	CMT INTERMEDIATE CASING BOM JP015	1.00	JOB					
16091	ZI - PUMPING CHARGE 001-016	1.000	EA		10,733.00	10,733.00	1,180.63-	9,552.37
	DEPTH	7500	FT					
2	MILEAGE FOR CEMENTING CREW 000-119	140.000	MI					
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT 000-117	140.000	MI					
141	RCM II W/ADC,/JOB,ZI 046-065	1.000	JOB					
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI 045-050	1.000	JOB					
74038	ZI PLUG CONTAINER RENTAL-1ST DAY	1.000	EA					
101229888	PLUG,CMT'G, TOP, 7, HWE, 5.66 PLUG, CEMENTING, TOP, 7, HWE, 5.66 MIN/6.54 MAX CASING ID, SYNTHETIC	1.00	EA	0.00	0.00	0.00	0.00	0.00

HALLIBURTON

Halliburton Energy Services, Inc.

Sales Order Number: 901233241

Sales Order Date: March 24, 2014

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100003650	SERVICE CHEM, CAUSTIC SODA BEADS, 50# Caustic Soda Beads	50.00	LB	0.00	0.00	0.00	0.00	0.00
101252566	AQUAGEL - 100 LB BAG AQUAGEL - 100 LB BAG	3.00	BAG	0.00	0.00	0.00	0.00	0.00
452992	CMT, EconoCem (TM) system CMT, EconoCem (TM) system	160.00	SK		31.15	4,984.00	2,492.00-	2,492.00
100001617	CHEM, Halad-9, 50 lb Halad(R)-9	57.00	LB	0.00	0.00	0.00	0.00	0.00
100003682	CHEM, BENTONITE (PER 100 LB) Bentonite	3.00	SK	0.00	0.00	0.00	0.00	0.00
452986	CMT, HalCem (TM) system	190.00	SK		48.19	9,156.10	4,578.05-	4,578.05
100001617	CHEM, Halad-9, 50 lb Halad(R)-9	72.00	LB	0.00	0.00	0.00	0.00	0.00
76400	MILEAGE,CMT MTLs DEL/RET MIN 500-306 MILEAGE,CMTG MTLs DEL/RET PER/TON MI/MIN	70.000	MI					
3965	HANDLE&DUMP SVC CHRg, CMT&ADDITIVES,ZI 500-207	364.000	CF					
86954	ZI FUEL SURCHG-CARS/PICKUPS< 1 1/2TON FUEL SURCHG-CARS/PICKUPS< 1 1/2TON/PER/MI	140.000	MI					
86955	ZI FUEL SURCHG-HEAVY TRKS > 1 1/2 TON FUEL SURCHG-HEAVY TRKS > 1 1/2 TON/PER MI	140.000	MI					
87605	FUEL SURCHG-CMT & CMT ADDITIVES FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM	70.000	MI					
SALES ORDER AMOUNT						24,873.10	8,250.68-	
SALES ORDER TOTAL						24,873.10	8,250.68-	16,622.42
Total Weight: 33,349.48 LB								16,622.42 US Dollars

FE Number: DC13785
 Well Name: BOBEK 3404 1-22H
 Code: 930-370
 Amount: 16,622.42
 Co. Man: John Webster
 Co. Man Sig.: [Signature]
 Notes: _____

INVOICE INSTRUCTIONS:

Operator Name:
Customer Agent:

Halliburton Approval: X _____
Customer Signature: X _____



Company: SandRidge
 Well: Bobek 3404 1-22H
 Location: Sumner County KS
 Rig: Unit 310

Job Number: 6245389 Calculation Method Minimum Curvature
 Magnetic Decl.: 4.29 Proposed Azimuth 193.05
 Grid Corr.: 0.47 Depth Reference _____
 Total Grid Corr.: 3.82 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Tie In Coordinates														
Tie In	0	0.00	0.00	N 0.0 E	0	0	0	0 N	0 W					
MWD	18	0.00	0.00	N 0.0 E	18	18.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00	0.00	0.00
MWD	250	0.25	111.54	S 68.5 E	232	250.00	0.07	0.19 S	0.47 E	0.51	111.54	0.11	0.11	48.08
MWD	538	0.75	111.54	S 68.5 E	288	537.99	0.45	1.11 S	2.81 E	3.02	111.54	0.17	0.17	0.00
MWD	610	0.52	111.54	S 68.5 E	72	609.98	0.56	1.40 S	3.55 E	3.82	111.54	0.32	-0.32	0.00
MWD	703	0.82	263.41	S 83.4 W	93	702.98	0.85	1.63 S	3.28 E	3.67	116.45	1.40	0.32	163.30
MWD	734	1.32	272.15	N 87.9 W	31	733.97	0.99	1.64 S	2.71 E	3.17	121.30	1.69	1.61	28.19
MWD	795	2.24	279.47	N 80.5 W	61	794.94	1.20	1.42 S	0.83 E	1.65	149.83	1.55	1.51	12.00
MWD	858	3.71	277.12	N 82.9 W	63	857.86	1.49	0.97 S	2.41 W	2.60	248.13	2.34	2.33	-3.73
MWD	918	5.26	278.11	N 81.9 W	60	917.67	1.92	0.34 S	7.06 W	7.07	267.25	2.59	2.58	1.65
MWD	981	6.77	277.89	N 82.1 W	63	980.32	2.51	0.58 N	13.60 W	13.61	272.44	2.40	2.40	-0.35
MWD	1042	7.72	276.43	N 83.6 W	61	1040.84	3.30	1.53 N	21.23 W	21.28	274.12	1.59	1.56	-2.39
MWD	1105	8.69	277.38	N 82.6 W	63	1103.19	4.26	2.62 N	30.15 W	30.27	274.96	1.55	1.54	1.51
MWD	1167	9.54	280.08	N 79.9 W	62	1164.41	4.99	4.12 N	39.86 W	40.07	275.90	1.53	1.37	4.35
MWD	1260	10.46	280.94	N 79.1 W	93	1255.99	5.70	7.07 N	55.74 W	56.18	277.23	1.00	0.99	0.92
MWD	1353	11.35	279.49	N 80.5 W	93	1347.31	6.58	10.18 N	73.05 W	73.76	277.93	1.00	0.96	-1.56
MWD	1446	11.39	279.69	N 80.3 W	93	1438.49	7.68	13.23 N	91.13 W	92.08	278.26	0.06	0.04	0.22
MWD	1493	11.67	277.72	N 82.3 W	47	1484.54	8.40	14.65 N	100.41 W	101.48	278.30	1.03	0.60	-4.19
MWD	1540	11.60	276.20	N 83.8 W	47	1530.57	9.40	15.80 N	109.82 W	110.95	278.19	0.67	-0.15	-3.23
MWD	1588	11.83	276.01	N 84.0 W	48	1577.57	10.58	16.84 N	119.51 W	120.69	278.02	0.49	0.48	-0.40
MWD	1635	12.10	275.59	N 84.4 W	47	1623.55	11.81	17.82 N	129.21 W	130.43	277.85	0.60	0.57	-0.89
MWD	1682	11.87	273.71	N 86.3 W	47	1669.53	13.24	18.62 N	138.93 W	140.17	277.63	0.96	-0.49	-4.00
MWD	1730	11.72	272.92	N 87.1 W	48	1716.51	14.89	19.18 N	148.73 W	149.96	277.35	0.46	-0.31	-1.65
MWD	1777	12.32	273.48	N 86.5 W	47	1762.48	16.57	19.73 N	158.50 W	159.72	277.10	1.30	1.28	1.19
MWD	1825	12.53	272.91	N 87.1 W	48	1809.36	18.34	20.31 N	168.81 W	170.03	276.86	0.51	0.44	-1.19
MWD	1872	12.52	272.56	N 87.4 W	47	1855.24	20.16	20.79 N	178.99 W	180.20	276.63	0.16	-0.02	-0.74
MWD	1920	12.91	272.34	N 87.7 W	48	1902.06	22.11	21.24 N	189.55 W	190.73	276.39	0.82	0.81	-0.46
MWD	1967	12.80	271.61	N 88.4 W	47	1947.89	24.11	21.60 N	200.00 W	201.16	276.17	0.42	-0.23	-1.55
MWD	2015	13.20	272.88	N 87.1 W	48	1994.66	26.14	22.03 N	210.79 W	211.93	275.97	1.02	0.83	2.65
MWD	2062	13.57	273.77	N 86.2 W	47	2040.38	27.97	22.66 N	221.65 W	222.80	275.84	0.90	0.79	1.89
MWD	2110	13.29	274.54	N 85.5 W	48	2087.07	29.70	23.47 N	232.77 W	233.95	275.76	0.69	-0.58	1.60
MWD	2205	11.43	274.31	N 85.7 W	95	2179.86	32.74	25.04 N	253.04 W	254.28	275.65	1.96	-1.96	-0.24
MWD	2268	11.45	275.30	N 84.7 W	63	2241.61	34.54	26.09 N	265.49 W	266.77	275.61	0.31	0.03	1.57
MWD	2332	11.74	277.86	N 82.1 W	64	2304.30	35.98	27.56 N	278.27 W	279.63	275.66	0.92	0.45	4.00



Company: SandRidge
 Well: Bobek 3404 1-22H
 Location: Sumner County KS
 Rig: Unit 310

Job Number: 6245389 Calculation Method Minimum Curvature
 Magnetic Decl.: 4.29 Proposed Azimuth 193.05
 Grid Corr.: 0.47 Depth Reference _____
 Total Grid Corr.: 3.82 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	2395	11.75	277.71	N 82.3 W	63	2365.98	37.16	29.30 N	290.97 W	292.44	275.75	0.05	0.02	-0.24
MWD	2458	12.56	280.41	N 79.6 W	63	2427.57	38.07	31.40 N	304.07 W	305.68	275.90	1.57	1.29	4.29
MWD	2521	13.56	283.64	N 76.4 W	63	2488.94	38.31	34.38 N	317.98 W	319.84	276.17	1.96	1.59	5.13
MWD	2584	13.19	283.13	N 76.9 W	63	2550.23	38.22	37.75 N	332.16 W	334.30	276.48	0.62	-0.59	-0.81
MWD	2679	13.47	281.86	N 78.1 W	95	2642.67	38.44	42.49 N	353.54 W	356.09	276.85	0.43	0.29	-1.34
MWD	2774	13.14	282.31	N 77.7 W	95	2735.12	38.81	47.07 N	374.92 W	377.86	277.16	0.36	-0.35	0.47
MWD	2869	13.53	285.25	N 74.8 W	95	2827.56	38.52	52.29 N	396.19 W	399.63	277.52	0.82	0.41	3.09
MWD	2964	10.31	283.14	N 76.9 W	95	2920.50	38.08	57.15 N	415.20 W	419.11	277.84	3.42	-3.39	-2.22
MWD	3059	10.06	279.83	N 80.2 W	95	3014.01	38.53	60.50 N	431.65 W	435.87	277.98	0.67	-0.26	-3.48
MWD	3122	11.40	282.38	N 77.6 W	63	3075.90	38.91	62.77 N	443.16 W	447.58	278.06	2.26	2.13	4.05
MWD	3185	11.58	281.48	N 78.5 W	63	3137.64	39.16	65.36 N	455.43 W	460.10	278.17	0.40	0.29	-1.43
MWD	3248	11.29	282.03	N 78.0 W	63	3199.39	39.44	67.91 N	467.66 W	472.57	278.26	0.49	-0.46	0.87
MWD	3312	11.98	284.88	N 75.1 W	64	3262.08	39.34	70.92 N	480.21 W	485.42	278.40	1.40	1.08	4.45
MWD	3375	12.10	284.93	N 75.1 W	63	3323.69	38.92	74.30 N	492.91 W	498.48	278.57	0.19	0.19	0.08
MWD	3438	12.58	283.33	N 76.7 W	63	3385.24	38.67	77.58 N	505.96 W	511.88	278.72	0.94	0.76	-2.54
MWD	3533	15.10	278.79	N 81.2 W	95	3477.47	39.54	81.86 N	528.26 W	534.57	278.81	2.89	2.65	-4.78
MWD	3596	14.10	276.85	N 83.2 W	63	3538.44	40.97	84.03 N	543.99 W	550.45	278.78	1.77	-1.59	-3.08
MWD	3691	12.14	273.87	N 86.1 W	95	3630.95	43.82	86.08 N	565.45 W	571.97	278.66	2.18	-2.06	-3.14
MWD	3754	11.97	272.97	N 87.0 W	63	3692.57	46.02	86.87 N	578.59 W	585.07	278.54	0.40	-0.27	-1.43
MWD	3817	13.60	263.63	S 83.6 W	63	3754.01	49.63	86.39 N	592.47 W	598.74	278.30	4.17	2.59	-14.83
MWD	3849	14.80	256.78	S 76.8 W	32	3785.03	52.69	85.03 N	600.19 W	606.19	278.06	6.45	3.75	-21.41
MWD	3880	16.07	251.03	S 71.0 W	31	3814.91	56.71	82.73 N	608.10 W	613.71	277.75	6.41	4.10	-18.55
MWD	3912	17.46	244.68	S 64.7 W	32	3845.56	62.04	79.24 N	616.63 W	621.70	277.32	7.18	4.34	-19.84
MWD	3944	18.97	239.75	S 59.8 W	32	3875.95	68.59	74.57 N	625.47 W	629.90	276.80	6.74	4.72	-15.41
MWD	3975	20.00	234.82	S 54.8 W	31	3905.18	76.00	68.97 N	634.15 W	637.89	276.21	6.26	3.32	-15.90
MWD	4007	21.23	230.08	S 50.1 W	32	3935.13	84.71	62.10 N	643.07 W	646.06	275.52	6.48	3.84	-14.81
MWD	4039	22.72	224.78	S 44.8 W	32	3964.81	94.59	54.00 N	651.87 W	654.10	274.74	7.75	4.66	-16.56
MWD	4070	24.68	224.61	S 44.6 W	31	3993.19	105.20	45.14 N	660.63 W	662.17	273.91	6.33	6.32	-0.55
MWD	4102	26.17	223.54	S 43.5 W	32	4022.09	116.97	35.27 N	670.19 W	671.11	273.01	4.87	4.66	-3.34
MWD	4133	28.10	221.59	S 41.6 W	31	4049.68	129.28	24.85 N	679.74 W	680.20	272.09	6.85	6.23	-6.29
MWD	4165	29.45	218.90	S 38.9 W	32	4077.73	142.98	13.09 N	689.68 W	689.81	271.09	5.84	4.22	-8.41
MWD	4196	31.48	216.71	S 36.7 W	31	4104.45	157.25	0.67 N	699.31 W	699.31	270.05	7.46	6.55	-7.06
MWD	4228	34.04	214.27	S 34.3 W	32	4131.36	173.26	13.43 S	709.35 W	709.48	268.92	9.00	8.00	-7.62
MWD	4259	37.02	211.44	S 31.4 W	31	4156.59	190.21	28.57 S	719.11 W	719.67	267.72	10.98	9.61	-9.13
MWD	4291	39.95	208.61	S 28.6 W	32	4181.63	209.25	45.81 S	729.05 W	730.49	266.40	10.68	9.16	-8.84



Company: SandRidge
 Well: Bobek 3404 1-22H
 Location: Sumner County KS
 Rig: Unit 310

Job Number: 6245389 Calculation Method Minimum Curvature
 Magnetic Decl.: 4.29 Proposed Azimuth 193.05
 Grid Corr.: 0.47 Depth Reference _____
 Total Grid Corr.: 3.82 Tie Into: _____

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	4322	42.94	207.18	S 27.2 W	31	4204.87	229.09	63.95 S	738.65 W	741.41	265.05	10.12	9.65	-4.61
MWD	4354	45.46	204.72	S 24.7 W	32	4227.81	250.83	84.01 S	748.40 W	753.10	263.60	9.52	7.88	-7.69
MWD	4386	47.52	202.85	S 22.9 W	32	4249.84	273.63	105.25 S	757.75 W	765.02	262.09	7.71	6.44	-5.84
MWD	4417	50.46	201.67	S 21.7 W	31	4270.18	296.72	126.89 S	766.60 W	777.03	260.60	9.91	9.48	-3.81
MWD	4449	53.36	200.46	S 20.5 W	32	4289.92	321.65	150.40 S	775.65 W	790.10	259.03	9.54	9.06	-3.78
MWD	4480	55.44	199.53	S 19.5 W	31	4307.97	346.67	174.08 S	784.27 W	803.35	257.49	7.14	6.71	-3.00
MWD	4512	57.43	199.05	S 19.1 W	32	4325.66	373.18	199.25 S	793.07 W	817.72	255.90	6.34	6.22	-1.50
MWD	4544	59.65	199.16	S 19.2 W	32	4342.36	400.32	225.04 S	802.01 W	832.98	254.33	6.94	6.94	0.34
MWD	4575	61.56	198.97	S 19.0 W	31	4357.57	427.18	250.56 S	810.83 W	848.66	252.83	6.18	6.16	-0.61
MWD	4607	63.99	199.04	S 19.0 W	32	4372.21	455.48	277.47 S	820.09 W	865.76	251.31	7.60	7.59	0.22
MWD	4638	66.06	198.94	S 18.9 W	31	4385.30	483.43	304.04 S	829.24 W	883.22	249.86	6.68	6.68	-0.32
MWD	4670	68.21	199.31	S 19.3 W	32	4397.73	512.75	331.89 S	838.90 W	902.16	248.41	6.80	6.72	1.16
MWD	4701	70.41	198.69	S 18.7 W	31	4408.68	541.59	359.31 S	848.34 W	921.29	247.04	7.34	7.10	-2.00
MWD	4733	71.92	198.11	S 18.1 W	32	4419.01	571.74	388.05 S	857.90 W	941.58	245.66	5.02	4.72	-1.81
MWD	4765	73.99	197.31	S 17.3 W	32	4428.39	602.23	417.19 S	867.20 W	962.33	244.31	6.90	6.47	-2.50
MWD	4796	76.41	197.42	S 17.4 W	31	4436.31	632.12	445.80 S	876.15 W	983.04	243.03	7.81	7.81	0.35
MWD	4828	78.99	197.37	S 17.4 W	32	4443.13	663.29	475.63 S	885.49 W	1005.15	241.76	8.06	8.06	-0.16
MWD	4859	81.88	197.26	S 17.3 W	31	4448.28	693.77	504.81 S	894.59 W	1027.19	240.56	9.33	9.32	-0.35
MWD	4906	83.67	197.02	S 17.0 W	47	4454.19	740.28	549.36 S	908.33 W	1061.54	238.83	3.84	3.81	-0.51
MWD	4954	83.80	197.10	S 17.1 W	48	4459.43	787.87	594.98 S	922.33 W	1097.58	237.17	0.32	0.27	0.17
MWD	5001	84.47	196.55	S 16.6 W	47	4464.23	834.53	639.73 S	935.86 W	1133.62	235.64	1.84	1.43	-1.17
MWD	5049	84.78	196.92	S 16.9 W	48	4468.73	882.22	685.49 S	949.62 W	1171.19	234.18	1.00	0.65	0.77
MWD	5096	85.37	196.79	S 16.8 W	47	4472.76	928.94	730.31 S	963.20 W	1208.76	232.83	1.29	1.26	-0.28
MWD	5143	86.18	196.84	S 16.8 W	47	4476.23	975.71	775.18 S	976.76 W	1246.98	231.56	1.73	1.72	0.11
MWD	5216	88.21	195.64	S 15.6 W	73	4479.80	1048.50	845.18 S	997.15 W	1307.14	229.72	3.23	2.78	-1.64
MWD	5275	89.63	195.21	S 15.2 W	59	4480.91	1107.44	902.04 S	1012.84 W	1356.29	228.31	2.51	2.41	-0.73
MWD	5338	90.00	192.60	S 12.6 W	63	4481.11	1170.43	963.19 S	1027.97 W	1408.71	226.86	4.18	0.59	-4.14
MWD	5401	89.66	191.37	S 11.4 W	63	4481.30	1233.42	1024.81 S	1041.06 W	1460.83	225.45	2.03	-0.54	-1.95
MWD	5465	89.23	190.34	S 10.3 W	64	4481.92	1297.37	1087.66 S	1053.11 W	1513.95	224.08	1.74	-0.67	-1.61
MWD	5528	88.89	188.91	S 8.9 W	63	4482.95	1360.24	1149.77 S	1063.64 W	1566.30	222.77	2.33	-0.54	-2.27
MWD	5623	89.04	187.27	S 7.3 W	95	4484.67	1454.87	1243.80 S	1077.01 W	1645.29	220.89	1.73	0.16	-1.73
MWD	5718	89.02	185.41	S 5.4 W	95	4486.28	1549.20	1338.20 S	1087.49 W	1724.36	219.10	1.96	-0.02	-1.96
MWD	5813	89.88	184.13	S 4.1 W	95	4487.19	1643.20	1432.87 S	1095.39 W	1803.61	217.40	1.62	0.91	-1.35
MWD	5908	89.45	181.55	S 1.6 W	95	4487.75	1736.69	1527.74 S	1100.10 W	1882.61	215.76	2.75	-0.45	-2.72
MWD	6002	88.34	180.11	S 0.1 W	94	4489.56	1828.54	1621.71 S	1101.46 W	1960.40	214.18	1.93	-1.18	-1.53

Section 16
34S 4W

Section 15
34S 4W

BOBEK 3404 1-22H

BOBEK 3404 2-22H



Miss Entry: 4960'
-97.745335 37.079840

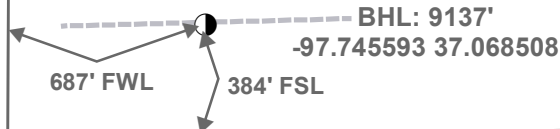
Top Perf: 6800'
-97.745830 37.074904

Sumner County

Section 21
34S 4W

Section 22
34S 4W

Bottom Perf: 9008'
-97.745621 37.068975



Section 28
34S 4W

Section 27
34S 4W



Actual Bottom-Hole Location of Bobek 3404 1-22H
T&R: 34S 4W
Section: 22, 687' FWL & 368' FSL
-97.745593 37.068508

1 in = 667 ft

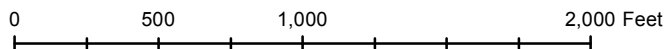


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Naomi Martinez

Draft Date: 7/10/2014

Drawing Name/Number:

Addendum_Bobek 3404 1-22H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/13/2014
Job End Date:	6/14/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22724-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Bobek 3404 1-22H
Longitude:	-97.74185000
Latitude:	37.08148000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,519
Total Base Water Volume (gal):	1,430,814
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	93.33594	None
Sand (Proppant)	Archer	Proppant	Silica Substrate	NA	100.00000	4.69332	None
DiKlor	Sabre Energy Services	Oxidizer	Chlorine Dioxide	10069-04-4	0.40000	0.30077	
			Water	7732-18-5	99.90000	0.30077	
Hydrochloric Acid (15%)	Archer	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.09215	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00447	None
			Methyl Alcohol	67-56-1	80.00000	0.00078	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00015	None
LG-1	Archer	Gelling Agent	Petroleum Distillate	64742-47-8	55.00000	0.00817	None
			Guar Gum	9000-30-0	50.00000	0.00743	None
			Clay	NA	5.00000	0.00074	None
AIC	Archer	Liquid Acid Iron Control	Acetic Acid	64-19-7	50.00000	0.00173	None

			Citric Acid	77-92-9	30.00000	0.00104	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00186	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00019	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		0.04640	
			WATER	7732-18-5		0.02681	
			Anionic Polymer	N/A		0.02320	
			Aliphatic Hydrocarbon	64742-47-8		0.02320	
			TRADE SECRET	N/A		0.01787	
			Water	7732-18-5		0.00912	
			METHANOL	67-56-1		0.00447	
			ISOPROPANOL	67-63-0		0.00447	
			Oxyalkylated Alcohol	68002-97-1		0.00387	
			Polyol Ester	N/A		0.00387	
			Acrylic Polymer	28205-96-1		0.00152	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00152	
			Water	7732-18-5		0.00121	
			Polyglycol Ester	N/A		0.00077	
			Buffer	N/A		0.00074	
			Surfactant	N/A		0.00074	
			Alcohol Ethoxylate Surfactants	N/A		0.00015	
			n-olefins	N/A		0.00008	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008	
			Propargyl Alcohol	107-19-7		0.00006	
			Water	7732-18-5			
			Acetic Acid	64-19-7			
			Cinnamic Aldehyde	104-55-2			

* 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)