



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1120458  
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: \_\_\_\_\_



1120458

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

February 28, 2013

Tiffany Golay  
SandRidge Exploration and Production LLC  
123 ROBERT S. KERR AVE  
OKLAHOMA CITY, OK 73102-6406

Re: ACO1  
API 15-135-25528-01-00  
Krug 1725 1-35H  
SW/4 Sec.35-17S-25W  
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tiffany Golay



Division : 0701  
 Delivery Ticket : 4249  
 Delivery Date : 2/14/2013  
 Office : 12/1/1901

P.O. BOX 3660  
 HOUMA, LA 70361-3660

Customer : SAN400

Ordered By :  
 Lease/Well : KRUG 1725 1-35H  
 Rig Name/Number : LARIAT 3  
 AFE Number :  
 Site Contact :

BILL TO : SANDRIDGE ENERGY  
 123 ROBERT S KERR AVENUE  
 OKLAHOMA CITY, OK 73102-6406  
 PHONE: (405) 753-5500 FAX: ()

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	KRUG 1725 1-35H		\$0.00		2/5/2013 2/5/2013	
120	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
120	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
78	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
78	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
14	CEMENT 10 SACK GROUT	\$0.00	\$0.00	\$0.00	2/5/2013 2/5/2013	
Sub Total:			\$0.00			

Print Name

Signature

<b>Field Ticket Number:</b> 900228501		<b>Field Ticket Date:</b> Monday, February 18, 2013	
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS PO BOX 548807 - DO NOT MAIL OKLAHOMA CITY, OK 73154		<b>Job Name:</b> 9.625" Surface Casing <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Krug 1725 1-35H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> N/A <b>Shipping Point:</b> Pampa, TX, USA <b>Sales Office:</b> Mid-Continent BD <b>Well Type:</b> Oil <b>Well Category:</b>	
<b>Ship To:</b> SANDRIDGE KRUG 1725 1-35H, HODGEMAN KRUG 1725 2979548 , KS			

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7521	CMT SURFACE CASING BOM	1	JOB	0.00	0.00	0.00		0.00
16091	ZI - PUMPING CHARGE- 12 HRS DEPTH FEET/METERS (FT/M)	1 1400	EA FT	0.00				
2	MILEAGE FOR CEMENTING CREW,ZI Number of Units	200 1	MI	0.00	0.00	0.00		0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	200 1	MI	0.00	0.00	0.00		0.00
141	RCM II W/ADC,/JOB,ZI NUMBER OF UNITS	1 1	JOB	0.00	0.00	0.00		0.00
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI NUMBER OF DAYS	1 0	JOB	0.00	0.00	0.00		0.00
74038	ZI PLUG CONTAINER RENTAL-1ST DAY DAYS OR FRACTION (MIN1)	1 1	EA	1,322.00	0.00	0.00		0.00
86954	FUEL SURCHG-CARS/PICKUPS<1 1/2TON/PER/M Number of Units	170 1	MI	0.00	0.00	0.00		0.00
86955	FUEL SURCHG-HEAVY TRKS >1 1/2 TON/PER MI Number of Units	170 1	MI	0.00	0.00	0.00		0.00
87605	FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM NUMBER OF TONS	100 16.86	TNM	0.00	0.00	0.00		0.00
372867	Cmt PSL - DOT Vehicle Charge, CMT	4	EA	0.00	0.00	0.00		0.00
7	ENVIRONMENTAL SURCHARGE,/JOB,ZI	1	JOB	0.00	0.00	0.00		0.00

# HALLIBURTON

## Field Ticket

<b>Field Ticket Number:</b> 900228501		<b>Field Ticket Date:</b> Monday, February 18, 2013	
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS PO BOX 548807 - DO NOT MAIL OKLAHOMA CITY, OK 73154		<b>Job Name:</b> 9.625" Surface Casing <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Krug 1725 1-35H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> N/A <b>Shipping Point:</b> Pampa, TX, USA <b>Sales Office:</b> Mid-Continent BD <b>Well Type:</b> Oil <b>Well Category:</b>	
<b>Ship To:</b> SANDRIDGE KRUG 1725 1-35H, HODGEMAN KRUG 1725 2979548 , KS			

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
3965	HANDLE&DUMP SVC CHRГ, CMT&ADDITIVES,ZI	785	CF	0.00				
	NUMBER OF EACH	1						
	Unit of Measurement		EA					
452981	EXTENDACEM (TM) SYSTEM	340	SK			0.00		0.00
101509387	CALCIUM CHLORIDE, PELLET	19	SK	0.00	0.00	0.00		0.00
101216940	POLY-E-FLAKE	85	LB	0.00	0.00	0.00		0.00
452990	SWIFTCEM (TM) SYSTEM	150	SK			0.00		0.00
101509387	CALCIUM CHLORIDE, PELLET	14	SK	0.00	0.00	0.00		0.00
101216940	POLY-E-FLAKE	44	LB	0.00	0.00	0.00		0.00
76400	ZI MILEAGE,CMT MTLs DEL/RET MIN	100	MI	0.00	0.00	0.00		0.00
	NUMBER OF TONS	33.68						
46003	ADDITIONAL HOURS (DUMPING EQUIPMENT), ZI	1	EA	0.00	1,120.00	2,847.50		2,847.50
	HOURS	2.5						
88904	LEFT OIL SURCHG CARGO GROUP 4 1/2 TON	1	MI	0.00	0.00	48.50		48.50
	Number of Units	1						
				<b>Totals</b>	<b>USD</b>	<b>22,375.00</b>	<b>0.00</b>	<b>22,375.00</b>

Halliburton Rep: EDUARDO CARRILLO  
 Customer Agent: JESSIE .  
 Halliburton Approval: 

19153.72



*Field Ticket*

**Field Ticket Number:** 900228501 **Field Ticket Date:** Monday, February 18, 2013

**Bill To:**  
 SANDRIDGE ENERGY INC EBUSINESS  
 PO BOX 548807 - DO NOT MAIL  
 OKLAHOMA CITY, OK 73154

**Job Name:** 9.625" Surface Casing  
**Order Type:** Streamline Order (ZOH)  
**Well Name:** Krug 1725 1-35H  
**Company Code:** 1100  
**Customer PO No.:** N/A  
**Shipping Point:** Pampa, TX, USA  
**Sales Office:** Mid-Continent BD  
**Well Type:** Oil  
**Well Category:**

**Ship To:**  
 SANDRIDGE KRUG 1725 1-35H, HODGEMAN  
 KRUG 1725  
 2979548  
 , KS

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
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THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE.  
 CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS.

22,375.00

X \_\_\_\_\_  
 Customer Signature

FIELD TICKET TOTAL: USD

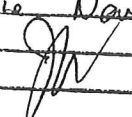
22,375.00

Was our HSE performance satisfactory? Y or N      Were you satisfied with our Equipment? Y or N      Were you satisfied with our people? Y or N  
 (Health, Safety, Environment)

Comments

**Customer Information Only**

SDRG REMIT TO DEPT
AFE
PROP # / COST CENTER
CONTRACT NUMBER
APPROVER NAME

AFE Number: DC-12706  
 Well Name: Krug 1-3514  
 Code: 360  
 Amount: 22375  
 Co. Man: Jessie Naw  
 Co. Man Sig.:   
 Notes: \_\_\_\_\_

# HALLIBURTON

## Field Ticket

<b>Field Ticket Number:</b> 900250809		<b>Field Ticket Date:</b> 28-Feb-13	
<b>Buy To:</b> SANDRIDGE ENERGY INC EBUSINESS PO BOX 548807 - DO NOT MAIL OKLAHOMA CITY, OK 73154		<b>Job Name:</b> 5.5" Production Casing <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Krug 1725 1-35H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> Pampa, TX, USA <b>Sales Office:</b> Mid-Continent BD <b>Well Type:</b> Gas <b>Well Category:</b> Development	
<b>Sell To:</b> SANDRIDGE KRUG 1725 1-35H,NESS KRUG 1725 1-35H 2979548 NESS CITY, KS 67580			

Material	Description	QTY	UNIT	Base Unit	Unit Cost	Gross Amount	Discount	Net Amount
7525	CMT PRODUCTION LINER BOM	1	JOB	0.00	0.00	0.00		0.00
2	MILEAGE FOR CEMENTING CREW,ZI	200	MI	0.00				
	<i>Number of Units</i>	1						
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	200	MI	0.00				
	<i>Number of Units</i>	2						
141	RCM II WIADC,/JOB,ZI	1	JOB	0.00				
	<i>NUMBER OF UNITS</i>	1						
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB	0.00				
	<i>NUMBER OF DAYS</i>	1						
74038	ZI PLUG CONTAINER RENTAL-1ST DAY	1	EA	1,322.00	0.00			
	<i>DAYS OR FRACTION (MIN1)</i>	1						
452992	ECONOCEM MCII (TM) SYSTEM	600	SK					
101894003	ENHANCER 923	18612	LB		0.00	0.00		0.00
100064233	KOL-SEAL	3000	LB	0.00	1.64			
100003653	CFR-3	109	LB	0.00	14.44			
102077048	CHEM, SA-1015, 50 LB SACK	137	LB	0.00	84.60			
78400	ZI MILEAGE,CMT MTL5 DEL/RET MIN	100	MI	0.00	3.35			
	<i>NUMBER OF TONS</i>	28.84						
3965	HANDLE&DUMP SVC CHR9, CMT&ADDITIVES,ZI	689	CF	0.00	5.49			
	<i>NUMBER OF EACH</i>	1						
	<i>Unit of Measurement</i>		EA					



# HALLIBURTON

## Field Ticket

<b>Field Ticket Number:</b> 800250809	<b>Field Ticket Date:</b> 28-Feb-13
<b>Bill To:</b> SANDRIDGE ENERGY INC EBUSINESS PO BOX 548807 - DO NOT MAIL OKLAHOMA CITY, OK 73154	<b>Job Name:</b> 5.5" Production Casing <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Krug 1725 1-35H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> Pampa, TX, USA <b>Sales Office:</b> Mid-Continent BD <b>Well Type:</b> Gas <b>Well Category:</b> Development
<b>Ship To:</b> SANDRIDGE KRUG 1725 1-35H,NESS KRUG 1725 1-35H 2979548 NESS CITY, KS 67580	

Material	Description	Qty	UOM	Base Amt	Unit Amt	Base Amount	Discount	Total Amount
88954	FUEL SURCHG-CARS/PICKUPS<1 1/2TON/PERM Number of Units	200 1	MI	0.00				
88955	FUEL SURCHG-HEAVY TRKS >1 1/2 TON/PER MI Number of Units	200 1	MI	0.00				
87605	FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM NUMBER OF TONS	100 28.84	TNM	0.00				
372867	Cmt PSL - DOT Vehicle Charge, CMT	4	EA	0.00				
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1	JOB	0.00				
<del>100003144</del>	<del>PLUG,CMTG, TOP PLSTC,5 1/2 13-23PPF,4.49</del>	<del>0</del>	<del>EA</del>	<del>0.00</del>		<del>0.00</del>		
16100	ZI CMTG LINER/SHORT CSG STRING DEPTH FEET/METERS (FT/M)	1 6242	EA FT	0.00				
101237390	PLUG,CMTG, TOP,5 1/2,HWE,4.38 MIN/5.09 MA	1	EA	0.00				

Halliburton Rep: EDGAR RODRIGUEZ  
 Customer Agent: Jessie  
 Halliburton Approval: *RM*

**Totals USD** 23,063.18

**HALLIBURTON**

*Field Ticket*

<b>Field Ticket Number:</b> 900250809	<b>Field Ticket Date:</b> 28-Feb-13
<b>To:</b> SANDRIDGE ENERGY INC EBUSINESS PO BOX 548807 - DO NOT MAIL OKLAHOMA CITY, OK 73154	<b>Job Name:</b> 5.5" Production Casing <b>Order Type:</b> Streamline Order (ZOH) <b>Well Name:</b> Krug 1725 1-35H <b>Company Code:</b> 1100 <b>Customer PO No.:</b> NA <b>Shipping Point:</b> Pampa, TX, USA <b>Sales Office:</b> Mid-Continent BD <b>Well Type:</b> Gas <b>Well Category:</b> Development
<b>Sub To:</b> SANDRIDGE KRUG 1725 1-35H, NESS KRUG 1725 1-35H 2979548 NESS CITY, KS 67560	

THIS OUTPUT DOES NOT INCLUDE TAXES. APPLICABLE SALES TAX WILL BE BILLED ON THE FINAL INVOICE.  
 CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ABOVE AND ON THE ATTACHED DOCUMENTS.

X \_\_\_\_\_ **FIELD TICKET TOTAL: USD** ~~23,086.22~~  
 Customer Signature *JN* **23,063.22**

Was our HSE performance satisfactory? Y or N (Health, Safety, Environment)      Were you satisfied with our Equipment? Y or N      Were you satisfied with our people? Y or N

Comments

<b>Customer Information Only</b>
SDRG REMIT TO DEPT
AFE
PROP # / COST CENTER
CONTRACT NUMBER
APPROVER NAME

AFE Number: DC12706  
 Well Name: Krug 1-35 H  
 Code: 040  
 Amount: 23,086.22  
 Co. Man: Jesse New  
 Co. Man Sig.: JN  
 Notes: \_\_\_\_\_

# **Sandridge Energy, INC.(mid-con.)**

**Ness County (KS27S)**

**Sec 35-T17S-R25W**

**Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**27 February, 2013**

# Archer Survey Report

<b>Company:</b> Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b> Well Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3
<b>Project:</b> Ness County (KS27S)	<b>TVD Reference:</b> WELL @ 2410.0usft (Original Well Elev)
<b>Site:</b> Sec 35-T17S-R25W	<b>MD Reference:</b> WELL @ 2410.0usft (Original Well Elev)
<b>Well:</b> Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3	<b>North Reference:</b> Grid
<b>Wellbore:</b> Wellbore #1	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Wellbore #1	<b>Database:</b> EDM 5000.1 Single User Db

<b>Project</b> Ness County (KS27S)		
<b>Map System:</b> US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b> Kansas South 1502		

<b>Site</b> Sec 35-T17S-R25W					
<b>Site Position:</b>		<b>Northing:</b>	679,545.00 usft	<b>Latitude:</b>	38° 31' 21.302 N
<b>From:</b> Map		<b>Easting:</b>	1,552,287.00 usft	<b>Longitude:</b>	100° 3' 53.614 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.96 °

<b>Well</b> Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	679,709.43 usft	<b>Latitude:</b> 38° 31' 23.146 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,553,611.81 usft	<b>Longitude:</b> 100° 3' 36.982 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b> 2,392.0 usft

<b>Wellbore</b> Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/08/13	5.81	66.16	52,410

<b>Design</b> Wellbore #1					
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0		0.82

<b>Survey Program</b> Date 02/27/13					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,629.0	6,236.0	Archer MWD Survey (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
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	
1,629.0	0.30	130.40	1,629.0	-2.8	3.2	-2.7	0.02	0.02	0.00	
<b>First Archer MWD Survey</b>										
2,099.0	0.40	96.80	2,099.0	-3.8	5.8	-3.7	0.05	0.02	-7.15	
2,568.0	0.60	93.30	2,568.0	-4.1	9.9	-3.9	0.04	0.04	-0.75	
3,033.0	0.80	110.90	3,032.9	-5.4	15.4	-5.2	0.06	0.04	3.78	
3,500.0	0.40	80.00	3,499.9	-6.3	20.0	-6.0	0.11	-0.09	-6.62	
3,688.0	0.40	51.60	3,687.9	-5.7	21.2	-5.4	0.10	0.00	-15.11	
3,718.0	0.50	24.00	3,717.9	-5.6	21.3	-5.3	0.79	0.33	-92.00	
3,750.0	0.10	54.40	3,749.9	-5.4	21.4	-5.1	1.30	-1.25	95.00	

# Archer

## Survey Report

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3
<b>Project:</b>	Ness County (KS27S)	<b>TVD Reference:</b>	WELL @ 2410.0usft (Original Well Elev)
<b>Site:</b>	Sec 35-T17S-R25W	<b>MD Reference:</b>	WELL @ 2410.0usft (Original Well Elev)
<b>Well:</b>	Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)
3,780.0	1.80	355.00	3,779.9	-4.9	21.4	-4.6	5.84	5.67	-198.00
3,811.0	4.50	356.00	3,810.8	-3.2	21.2	-2.9	8.71	8.71	3.23
3,843.0	7.30	358.20	3,842.7	0.0	21.1	0.4	8.78	8.75	6.88
3,875.0	9.80	357.00	3,874.3	4.8	20.9	5.1	7.83	7.81	-3.75
3,906.0	12.40	356.60	3,904.7	10.8	20.5	11.1	8.39	8.39	-1.29
3,938.0	15.30	354.30	3,935.8	18.4	19.9	18.7	9.22	9.06	-7.19
3,970.0	17.90	353.40	3,966.5	27.5	18.9	27.7	8.16	8.13	-2.81
4,000.0	21.10	353.00	3,994.7	37.4	17.7	37.7	10.68	10.67	-1.33
4,029.0	23.60	353.10	4,021.6	48.4	16.4	48.6	8.62	8.62	0.34
4,061.0	25.90	353.80	4,050.6	61.7	14.9	61.9	7.25	7.19	2.19
4,091.0	28.90	354.90	4,077.2	75.4	13.5	75.6	10.14	10.00	3.67
4,123.0	31.80	355.90	4,104.9	91.5	12.2	91.7	9.20	9.06	3.13
4,153.0	34.50	357.00	4,130.0	107.9	11.2	108.1	9.22	9.00	3.67
4,183.0	37.50	357.50	4,154.2	125.5	10.4	125.6	10.05	10.00	1.67
4,214.0	40.60	357.50	4,178.3	145.0	9.5	145.1	10.00	10.00	0.00
4,246.0	43.80	357.60	4,202.0	166.5	8.6	166.6	10.00	10.00	0.31
4,277.0	47.00	357.70	4,223.8	188.5	7.7	188.6	10.33	10.32	0.32
4,308.0	50.20	357.80	4,244.3	211.8	6.8	211.9	10.33	10.32	0.32
4,339.0	53.30	358.40	4,263.5	236.1	6.0	236.2	10.11	10.00	1.94
4,370.0	56.40	358.60	4,281.3	261.4	5.3	261.5	10.01	10.00	0.65
4,401.0	59.70	359.10	4,297.7	287.7	4.8	287.8	10.73	10.65	1.61
4,433.0	62.90	0.10	4,313.1	315.8	4.6	315.8	10.37	10.00	3.13
4,465.0	66.30	0.40	4,326.8	344.7	4.7	344.7	10.66	10.63	0.94
4,497.0	69.90	360.00	4,338.7	374.4	4.8	374.4	11.31	11.25	-1.25
4,528.0	73.10	359.80	4,348.6	403.8	4.8	403.8	10.34	10.32	-0.65
4,559.0	76.40	359.60	4,356.7	433.7	4.6	433.7	10.66	10.65	-0.65
4,590.0	80.00	359.30	4,363.1	464.0	4.3	464.0	11.65	11.61	-0.97
4,621.0	83.10	359.20	4,367.6	494.7	3.9	494.7	10.01	10.00	-0.32
4,644.0	85.50	359.80	4,369.9	517.6	3.7	517.6	10.75	10.43	2.61
4,686.0	88.90	0.40	4,372.0	559.5	3.8	559.5	8.22	8.10	1.43
4,717.0	89.50	0.90	4,372.4	590.5	4.2	590.5	2.52	1.94	1.61
4,748.0	89.80	1.30	4,372.6	621.5	4.8	621.5	1.61	0.97	1.29
4,780.0	90.10	0.80	4,372.6	653.5	5.4	653.5	1.82	0.94	-1.56
4,811.0	90.50	1.10	4,372.4	684.5	5.9	684.5	1.61	1.29	0.97
4,873.0	91.00	0.40	4,371.6	746.5	6.7	746.5	1.39	0.81	-1.13
4,905.0	91.50	359.70	4,370.9	778.5	6.7	778.5	2.69	1.56	-2.19
4,968.0	92.10	359.10	4,369.0	841.4	6.0	841.4	1.35	0.95	-0.95
4,997.0	92.50	359.00	4,367.8	870.4	5.6	870.4	1.42	1.38	-0.34
5,060.0	91.30	359.70	4,365.7	933.4	4.9	933.3	2.20	-1.90	1.11
5,092.0	91.60	0.40	4,364.9	965.4	4.9	965.3	2.38	0.94	2.19
5,153.0	90.80	0.90	4,363.6	1,026.3	5.6	1,026.3	1.55	-1.31	0.82
5,183.0	90.70	1.10	4,363.2	1,056.3	6.1	1,056.3	0.75	-0.33	0.67



# Archer Survey Report

<b>Company:</b>	Sandridge Energy, INC.(mid-con.)	<b>Local Co-ordinate Reference:</b>	Well Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3
<b>Project:</b>	Ness County (KS27S)	<b>TVD Reference:</b>	WELL @ 2410.0usft (Original Well Elev)
<b>Site:</b>	Sec 35-T17S-R25W	<b>MD Reference:</b>	WELL @ 2410.0usft (Original Well Elev)
<b>Well:</b>	Krug 1725 1-35H/ Job #04099-431-22/ Lariat 3	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
5,244.0	89.80	2.40	4,363.0	1,117.3	8.0	1,117.3	2.59	-1.48	2.13	
5,275.0	89.80	2.00	4,363.1	1,148.3	9.1	1,148.3	1.29	0.00	-1.29	
5,339.0	90.20	1.90	4,363.1	1,212.2	11.3	1,212.3	0.64	0.63	-0.16	
5,370.0	90.20	2.00	4,363.0	1,243.2	12.4	1,243.3	0.32	0.00	0.32	
5,433.0	90.20	2.20	4,362.7	1,306.2	14.7	1,306.3	0.32	0.00	0.32	
5,465.0	89.30	2.40	4,362.9	1,338.2	16.0	1,338.2	2.88	-2.81	0.63	
5,497.0	87.40	2.00	4,363.8	1,370.1	17.2	1,370.2	6.07	-5.94	-1.25	
5,560.0	87.70	2.30	4,366.5	1,433.0	19.6	1,433.1	0.67	0.48	0.48	
5,622.0	88.50	2.70	4,368.5	1,494.9	22.3	1,495.1	1.44	1.29	0.65	
5,653.0	89.10	3.30	4,369.2	1,525.9	23.9	1,526.1	2.74	1.94	1.94	
5,715.0	89.40	3.50	4,370.0	1,587.8	27.6	1,588.0	0.58	0.48	0.32	
5,747.0	88.60	2.40	4,370.6	1,619.7	29.2	1,620.0	4.25	-2.50	-3.44	
5,778.0	89.50	2.60	4,371.1	1,650.7	30.6	1,650.9	2.97	2.90	0.65	
5,841.0	88.20	2.00	4,372.3	1,713.6	33.1	1,713.9	2.27	-2.06	-0.95	
5,873.0	88.20	2.20	4,373.3	1,745.6	34.3	1,745.9	0.62	0.00	0.63	
5,937.0	88.50	2.40	4,375.2	1,809.5	36.8	1,809.8	0.56	0.47	0.31	
5,999.0	89.00	1.70	4,376.5	1,871.4	39.0	1,871.8	1.39	0.81	-1.13	
6,030.0	89.40	1.80	4,377.0	1,902.4	40.0	1,902.8	1.33	1.29	0.32	
6,062.0	89.80	1.70	4,377.2	1,934.4	41.0	1,934.8	1.29	1.25	-0.31	
6,124.0	90.50	2.20	4,377.0	1,996.4	43.1	1,996.8	1.39	1.13	0.81	
6,190.0	92.20	1.90	4,375.5	2,062.3	45.4	2,062.7	2.62	2.58	-0.45	
<b>Last Archer MWD Survey</b>										
6,236.0	93.30	1.60	4,373.3	2,108.2	46.8	2,108.7	2.48	2.39	-0.65	
<b>Projection to TD - PBHL Krug 1-35H</b>										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,629.0	1,629.0	-2.8	3.2	First Archer MWD Survey	
6,190.0	4,375.5	2,062.3	45.4	Last Archer MWD Survey	
6,236.0	4,373.3	2,108.2	46.8	Projection to TD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/2/2013
Job End Date:	4/3/2013
State:	Kansas
County:	Ness
API Number:	15-135-25528-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Krug 1725 1-35H
Longitude:	-100.06020000
Latitude:	38.52300000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	83,256
Total Base Non Water Volume:	



## 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
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.							
HCL 15, Slickwater, WF130	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant, Acid, Diverting Agent, Gelling Agent, Iron Control Agent					
			Water (Including Mix Water Supplied by Client)*			95.85159	
			Hydrogen chloride	7647-01-0	78.53972	3.25815	
			Sodium chloride	7647-14-5	9.62727	0.39938	
			Ethanaminium, n, n, n-trimethyl-methyl-oxo, chloride, polymer with propenamide	35429-19-7	3.31814	0.13765	
			Distillates (petroleum), hydrotreated light	64742-47-8	2.31696	0.09612	
			Guar gum	9000-30-0	1.52557	0.06329	
			Methanol	67-56-1	1.03295	0.04285	
			Sodium erythorbate	6381-77-7	0.73161	0.03035	
			Fatty acids, tall-oil	61790-12-3	0.39425	0.01635	
			Alcohols, c11-15-secondary, ethoxylated	68131-40-8	0.35872	0.01488	
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.32446	0.01346	

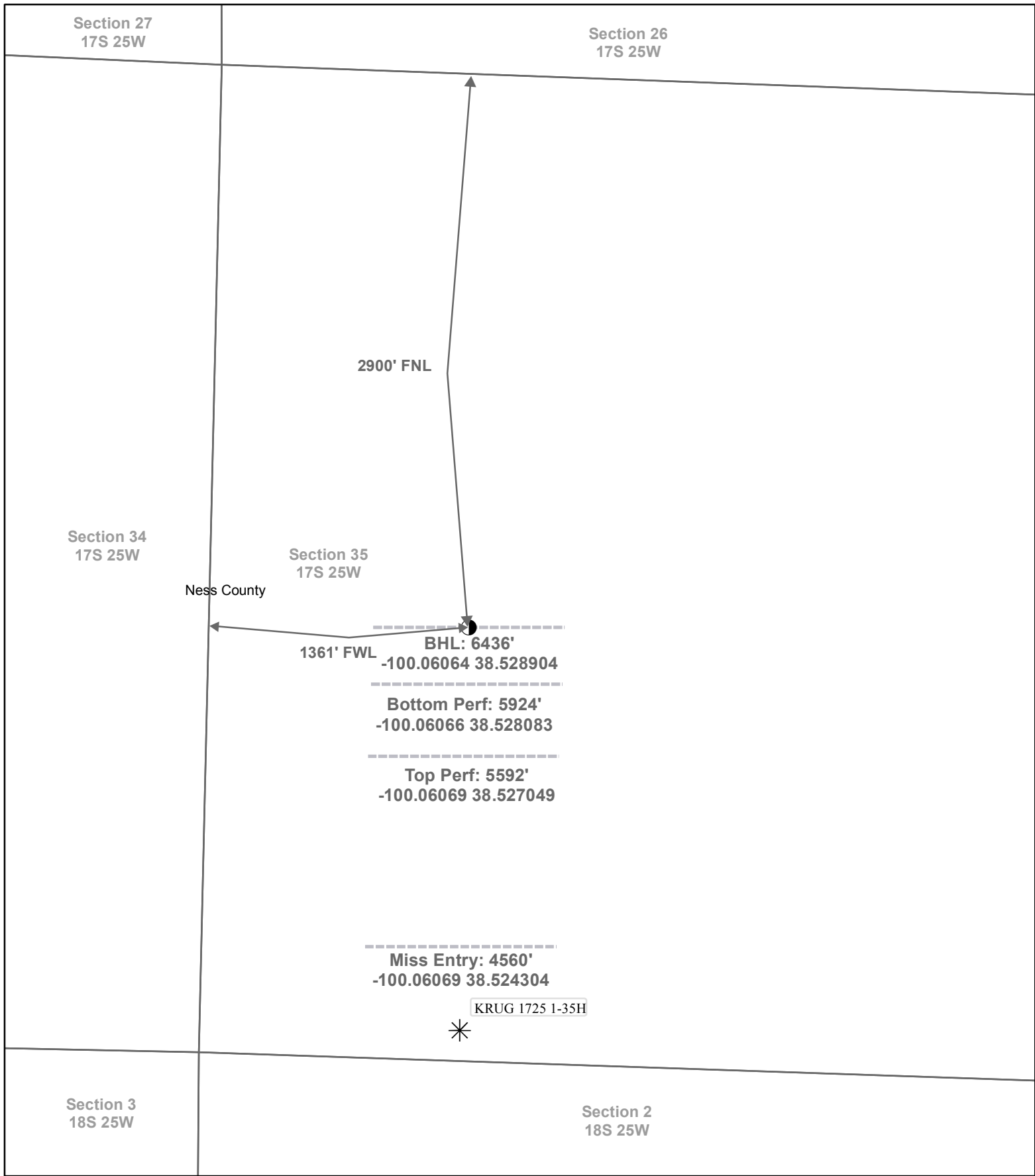
		Sorbitan monooleate	1338-43-8	0.28104	0.01166
		Alcohol, C11 linear, ethoxylated	84398-01-1	0.24727	0.01026
		Alcohol, C9-C11, Ethoxylated	68439-46-3	0.16485	0.00684
		Glutaraldehyde	111-30-8	0.15592	0.00647
		Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.15099	0.00626
		Acrylamide/ammonium acrylate copolymer	26100-47-0	0.13721	0.00569
		Prop-2-yn-1-ol	107-19-7	0.10066	0.00418
		Trisodium ortho phosphate	7601-54-9	0.07993	0.00332
		Ammonium chloride	12125-02-9	0.07889	0.00327
		Alkenes, C>10 a-	64743-02-8	0.06711	0.00278
		Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.02784	0.00116
		Ethane-1,2-diol	107-21-1	0.02275	0.00094
		Ethoxylated oleic acid	9004-96-0	0.01372	0.00057
		Sorbitol Tetraoleate	61723-83-9	0.00858	0.00036
		Alcohols, C12-C16, ethoxylated	68551-12-2	0.00713	0.00030
		Alcohols, C12-C14, ethoxylated	68439-50-9	0.00707	0.00029
		Alcohols, C10-C16, ethoxylated	68002-97-1	0.00707	0.00029
		Non-crystalline silica	7631-86-9	0.00416	0.00017
		C14 alpha olefin ethoxylate	84133-50-6	0.00377	0.00016
		Ethanol	64-17-5	0.00334	0.00014
		2-Propenoic acid, ammonium salt	10604-69-0	0.00343	0.00014

\* 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%

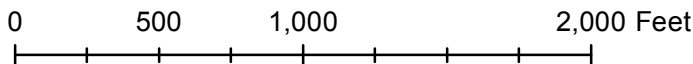
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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



**Actual Bottom-Hole Location of Krug 1725 1-35H**  
 Ness County, Kansas  
 T&R: 17S 25W  
 Section: 35, 1361' FWL & 2900' FNL  
 Long/Lat: -100.06064 38.528904

1 in = 667 ft



● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 5/30/2013

Drawing Name/Number:

Addendum\_Krug\_1-35H.mxd

Coordinate System:

NAD 1927 State Plane  
 Kansas South FIPS: 1502

## Remarks

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Tiffany Golay  
05/17/013  
11:52 am

Additional Fluid Mgmt Info: 140 bbls hauled to Guard, inc. 23-22N-13W, Major, OK

Tiffany Golay  
05/14/013  
10:30 am

Conductor weight: 133 lbs/ft