Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1120179

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Tiffany Golay
Phone: (405) 429-6543
CONTRACTOR: License # 33596
Name: Unit Petroleum Company
Wellsite Geologist: Tammy Alcorn
Purchaser: Atlas (gas) JP Energy Marketing LLC (oil)

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 #:

2/7/2013	2/26/2013	3/29/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-21904-01-00
Spot Description:
N2 - N2 - NW - NW Sec. 16 Twp. 34 S. R. 6 ☐ East ☑ West
225 Feet from ☑ North / ☐ South Line of Section
660 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Garlow 3406 Well #: 2-16H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1305 Kelly Bushing: 1321
Total Vertical Depth: 8903 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 687 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: 06/03/2013
☑ **Confidential Release Date:** 06/03/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 06/04/2013

1120179

Operator Name: SandRidge Exploration and Production LLC Lease Name: Garlow 3406 Well #: 2-16H

Sec. 16 Twp. 34 S. R. 6 ☐ East ☑ West County: Harper

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Base Heebner	3272	
Lansing	3644	
Cottage Grove	3914	
Oswego Limestone	4240	
Cherokee Group	4365	
Verdigris Limestone	4396	
Mississippi Lime	4592	

CASING RECORD ☑ New ☐ 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 4/18/2013

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: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Garlow 3406 2-16H
Doc ID	1120179

All Electric Logs Run

Nuclear
Resistivity
Boresight
Mudlog

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Garlow 3406 2-16H
Doc ID	1120179

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8519-8781	4201 bbls water, 36 bbls acid, 75M lbs sd, 4426 TLTR	
5	8064-8441	4194 bbls water, 36 bbls acid, 75M lbs sd, 8974 TLTR	
5	7717-8009	4189 bbls water, 36 bbls acid, 75M lbs sd, 13432 TLTR	
5	7379-7664	4183 bbls water, 36 bbls acid, 75M lbs sd, 17955 TLTR	
5	6896-7262	4176 bbls water, 36 bbls acid, 75M lbs sd, 22330 TLTR	
5	6582-6841	4171 bbls water, 36 bbls acid, 75M lbs sd, 26587 TLTR	
5	6242-6454	4166 bbls water, 36 bbls acid, 75M lbs sd, 30928 TLTR	
5	5727-6013	4158 bbls water, 36 bbls acid, 75M lbs sd, 35961 TLTR	
5	5306-5620	4151 bbls water, 36 bbls acid, 75M lbs sd, 39490 TLTR	
5	4898-5222	4145 bbls water, 36 bbls acid, 75M lbs sd, 43569 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Garlow 3406 2-16H
Doc ID	1120179

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Edge Services Grade A Cement	11	none
Surface	12.25	9.63	36	687	Halliburton Extendacem and Swiftcem Systems	370	3% Calcium Chloride, .25 lbm Poly-E-Flake/ 2% Calcium Chloride, .125 lbm Poly-E-Flake
Intermediate	8.75	7	26	5039	Halliburton Econocem and Halcem Systems	310	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite/ .4% Halad(R)-9, 2 lbm Kol-Seal

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Garlow 3406 2-16H
Doc ID	1120179

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production Liner	6.12	4.5	11.6	8900	Halliburton Econocem System	510	116 lb Cehm, SA-1015, 90 lb CFR-3, 15821 lb Enhancer 923, 1020 lb Kol-Seal

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

February 27, 2013

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

Re: ACO1
API 15-077-21904-01-00
Garlow 3406 2-16H
NW/4 Sec.16-34S-06W
Harper 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

EDGE SERVICES
580-254-3216
Woodward, OK

INVOICE

DATE	INVOICE #
2/6/2013	3722

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

REMIT TO
EDGE SERVICES, INC. BILLING DEPARTMENT PO BOX 14201 OKLAHOMA CITY, OK 73113

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	2/5/2013	3003	UNIT 310	GARLOW 3406 2-16H	Due on rec...

Description
DRILLED 90' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 90' OF 20" CONDUCTOR PIPE FURNISHED 1 LOAD(S) MUD FURNISHED WELDER AND MATERIALS FURNISHED 11 YARDS OF GRADE A CEMENT FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 80' OF 14" CONDUCTOR PIPE TOTAL BID $[redacted]

Sales Tax (6.3%)	[redacted]
TOTAL	[redacted]

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2981324	**Quote #:**	**Sales Order #:** 900222639
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:**	
Well Name: GARLOW 3406	**Well #:** 2-16H		**API/UWI #:**
Field:	**City (SAP):** ANTHONY	**County/Parish:** Harper	**State:** Kansas
Contractor: UNIT	**Rig/Platform Name/Num:** 310		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: NGUYEN, VINH	**Srvc Supervisor:** BURGESS, JONATHAN	**MBU ID Emp #:** 492943	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURGESS, JONATHAN Jesse	7.5	492943	JOHNSON, CALEB Lemuel	7.5	216972	LONDAGIN, DEVIN Dwain	7.5	500561
MCKEEVER, TERRY John	5.5	514733	TOPE, GEOFFREY Daniel	5.5	489420			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2/15/13	6	1	2/16/13	1.5	0			
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	687. ft	**Job Depth TVD**	687. ft		
Water Depth		**Wk Ht Above Floor**	7. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	15 - Feb - 2013	11:30	CST
On Location	15 - Feb - 2013	18:00	CST
Job Started	15 - Feb - 2013	22:52	CST
Job Completed	15 - Feb - 2013	23:46	CST
Departed Loc	16 - Feb - 2013	01:30	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
12.25" Open Hole				12.25				80.	700.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	700.		
Preset Conductor	Unknown		20.	19.124	94.			.	80.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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

HALLIBURTON

Cementing Job Summary

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
1	Fresh Water		10.00	bbl	8.33	.0	.0	4.0	
2	HLC STANDARD	EXTENDACEM (TM) SYSTEM (452981)	220.0	sacks	12.4	2.11	11.64	4.0	11.64
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.637 Gal	FRESH WATER							
3	STANDARD	SWIFTCEM (TM) SYSTEM (452990)	150.0	sacks	15.6	1.2	5.32	4.0	5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		50.00	bbl	8.33	.0	.0	5.0	

Calculated Values		Pressures		Volumes					
Displacement	50	Shut In: Instant		Lost Returns	0	Cement Slurry	115	Pad	
Top Of Cement	0	5 Min		Cement Returns	40	Actual Displacement	50	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	175

Rates							
Circulating	6	Mixing	4	Displacement	5	Avg. Job	4

Cement Left In Pipe	Amount	43 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

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2981324	**Quote #:**	**Sales Order #:** 900229218
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:** Webster, John	
Well Name: Garlow 3406	**Well #:** 2-16H		**API/UWI #:** 15-077-21904
Field:	**City (SAP):** ANTHONY	**County/Parish:** Harper	**State:** Kansas
Legal Description: Section 16 Township 34S Range 6W			
Contractor: Unit	**Rig/Platform Name/Num:** 310		
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well	**Job Type:** Cement Intermediate Casing		
Sales Person: NGUYEN, VINH	**Srvc Supervisor:** OLSON, ERIC	**MBU ID Emp #:** 455339	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OLSON, ERIC Eugene	16	455339	ROGERS, JUSTIN Daniel	16	526794	STILL, ERIC Dean	16	523897

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025029	100 mile	10714253C	100 mile	10804555	100 mile	10804565	100 mile
10951223	100 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	5039. ft	**Job Depth TVD**	5039
Water Depth		**Wk Ht Above Floor**	
Perforation Depth (MD)	**From**		**To**

Job Times

	Date	Time	Time Zone
Called Out	19 - Feb - 2013	16:00	CST
On Location	19 - Feb - 2013	19:00	CST
Job Started	20 - Feb - 2013	11:06	CST
Job Completed	20 - Feb - 2013	12:10	CST
Departed Loc	20 - Feb - 2013	13:30	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
8.75" Open Hole				8.75				687.	5039.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5039.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	687.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	7	1	wiper
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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

HALLIBURTON

Cementing Job Summary

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
1	Rig Supplied Gel Water		30.00	bbl	8.33	.0	.0	5.0	
2	50/50 POZ STANDARD (w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	120.0	sacks	13.6	1.53	7.24	5.0	7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Premium	HALCEM (TM) SYSTEM (452986)	190.0	sacks	15.6	1.19	5.08	5.0	5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		189.00	bbl	8.33	.0	.0	6.0	

Calculated Values		Pressures		Volumes					
Displacement	189	Shut In: Instant		Lost Returns	no	Cement Slurry	73	Pad	
Top Of Cement	2443'	5 Min		Cement Returns	no	Actual Displacement	189	Treatment	
Frac Gradient		15 Min		Spacers	219	Load and Breakdown		Total Job	292

Rates							
Circulating		Mixing		Displacement	189	Avg. Job	
Cement Left In Pipe	Amount 90 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

RECONCILED

Signature Janette Blankenship

HALLIBURTON

Field Ticket

Field Ticket Number: 900243447 *Field Ticket Date:* Monday, February 25, 2013

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

Ship To:
SANDRIDGE ENERGY INC EBUSINESS
Garlow 3406, 2-16H
2981324
ANTHONY, KS 67003

Job Name:	4.5" Production Liner
Order Type:	Streamline Order (ZOH)
Well Name:	Garlow 3406 2-16H
Company Code:	1100
Customer PO No.:	NA
Shipping Point:	Burns Flat, OK, USA
Sales Office:	Mid-Continent BD
Well Type:	Gas
Well Category:	Development

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7525	CMT PRODUCTION LINER BOM	1	JOB	0.00	0.00	0.00		0.00
16100	ZI CMTG LINER- 12 HRS	.1	EA	0.00	[redacted]	[redacted]		[redacted]
	DEPTH	8945						
	FEET/METERS (FT/M)		FT					[redacted]
45	KOL-SEAL OVER 2 lb/sk	1530	EA	0.00	[redacted]	[redacted]	[redacted]	[redacted]
2	MILEAGE FOR CEMENTING CREW,ZI	200	MI		0.00	0.00		0.00
	Number of Units	1						
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT	200	MI		0.00	0.00		0.00
	Number of Units	1						
14624	CMTG LINER/SHORT CSG STRING, ADD HRS, ZI	1	EA		0.00	0.00		0.00
	HOURS	0						
141	RCM II W/ADC,/JOB,ZI	1	JOB		0.00	0.00		0.00
	NUMBER OF UNITS	1						
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		0.00	0.00		0.00
	NUMBER OF DAYS	1						
102077046	CHEM, SA-1015, 50 LB SACK	116	LB	0.00	[redacted]	[redacted]	[redacted]	[redacted]
100003653	CFR-3	93	LB	0.00	[redacted]	[redacted]	[redacted]	[redacted]
452992	ECONOCEM (TM) SYSTEM	510	SK			0.00		0.00
101894003	ENHANCER 923	15821	LB	0.00	[redacted]	[redacted]	[redacted]	[redacted]
100064233	KOL-SEAL	1020	LB		0.00	0.00		0.00
76400	ZI MILEAGE,CMT MTLS DEL/RET MIN	100	MI		0.00	0.00		0.00

HALLIBURTON

Field Ticket

Field Ticket Number:	900243447	*Field Ticket Date:*	Monday, February 25, 2013

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

Ship To:
SANDRIDGE ENERGY INC EBUSINESS
Garlow 3406, 2-16H
2981324
ANTHONY, KS 67003

Job Name:	4.5" Production Liner
Order Type:	Streamline Order (ZOH)
Well Name:	Garlow 3406 2-16H
Company Code:	1100
Customer PO No.:	NA
Shipping Point:	Burns Flat, OK, USA
Sales Office:	Mid-Continent BD
Well Type:	Gas
Well Category:	Development

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
	NUMBER OF TONS	24.49						
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI	586	CF		0.00	0.00		0.00
	NUMBER OF EACH	1						
	Unit of Measurement		EA					
86954	FUEL SURCHG-CARS/PICKUPS<1 1/2TON/PER/M	200	MI		0.00	0.00		0.00
	Number of Units	1						
86955	FUEL SURCHG-HEAVY TRKS >1 1/2 TON/PER MI	200	MI		0.00	0.00		0.00
	Number of Units	1						
87605	FUEL SURCHG-CMT & CMT ADDITIVES/PER TNM	100	TNM		0.00	0.00		0.00
	NUMBER OF TONS	26.89						
372867	Cmt PSL - DOT Vehicle Charge, CMT	3	EA		0.00	0.00		0.00
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1	JOB		0.00	0.00		0.00

Halliburton Rep: GERALD GILLIAM
Customer Agent: John Webster
Halliburton Approval

Totals *USD* [redacted]

HALLIBURTON

Field Ticket

Field Ticket Number:	900243447	*Field Ticket Date:*	Monday, February 25, 2013

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

Ship To:
SANDRIDGE ENERGY INC EBUSINESS
Garlow 3406, 2-16H
2981324
ANTHONY, KS 67003

Job Name:	4.5" Production Liner
Order Type:	Streamline Order (ZOH)
Well Name:	Garlow 3406 2-16H
Company Code:	1100
Customer PO No.:	NA
Shipping Point:	Burns Flat, OK, USA
Sales Office:	Mid-Continent BD
Well Type:	Gas
Well Category:	Development

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount

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 Tony Karl
Customer Signature

FIELD TICKET TOTAL: USD [redacted]

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

AFE Number: DC12675
Well Name: Garlow 3406 2-16H
Code: 840-380
Amount:
Co. Man: Tony Karl
Co. Man Sig.: Tony KARL
Notes:

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

Sandridge Energy

Garlow 3406 2-16H (Final)

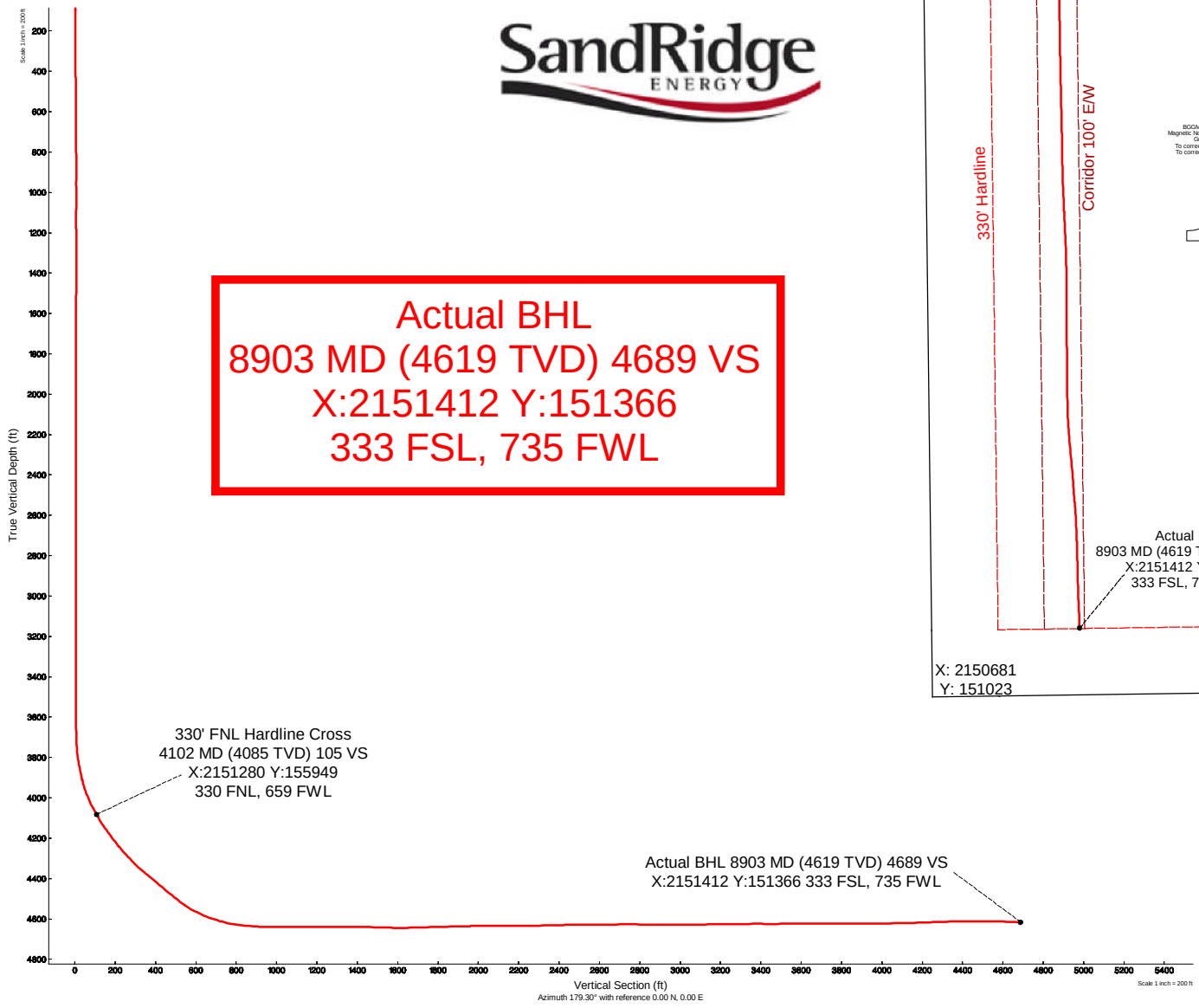
Garlow 3406 2-16H SL 225 FNL, 660 FWL

Harper County, Kansas (Sandridge Energy) NAD27 / Grid

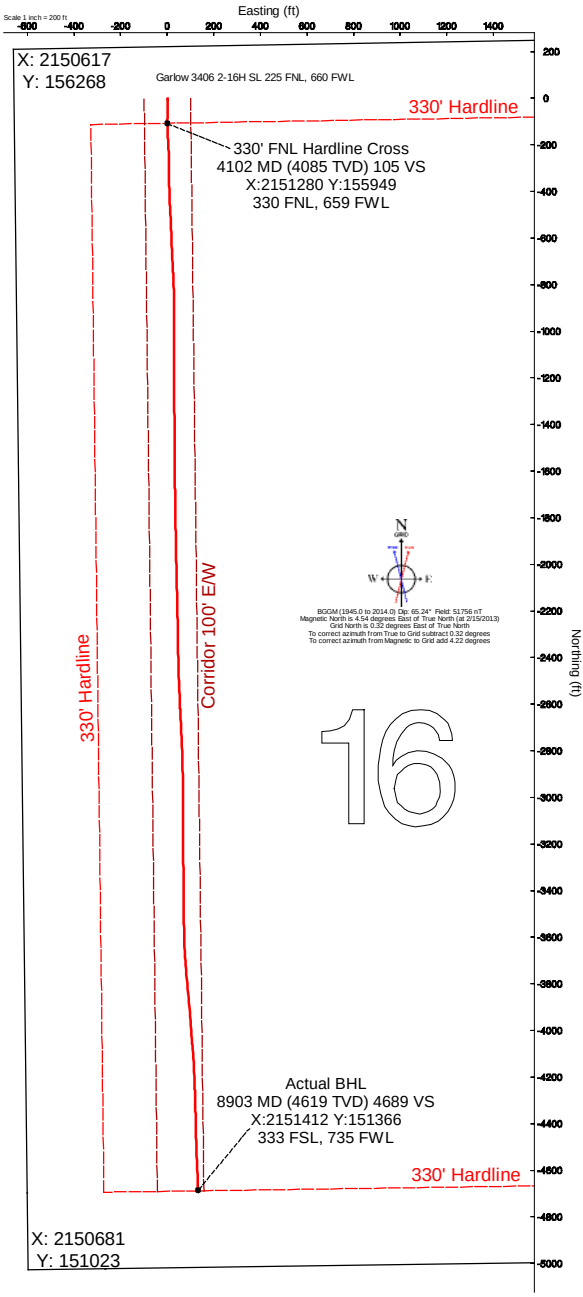
Plot reference wellpath is Plan 1	
True vertical depths are referenced to Unit 310 (KB)	Grid System: NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet
Measured depths are referenced to Unit 310 (KB)	North Reference: Grid north
Unit 310 (KB) to Mean Sea Level: 1318 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Garlow 3406 2-16H SL 225 FNL, 660 FWL): -1303 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: broomarl on 2/15/2013

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Garlow 3406 2-16H Sec. 16-34S-6W			2151280.000	156054.000	37°05'38.723"N	97°58'52.916"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Garlow 3406 2-16H SL 225 FNL, 660 FWL	0.00	0.00	2151280.000	156054.000	37°05'38.723"N	97°58'52.916"W
Unit 310 (KB) to Mud line (At Slot: Garlow 3406 2-16H SL 225 FNL, 660 FWL)					15ft	
Mean Sea Level to Mud line (At Slot: Garlow 3406 2-16H SL 225 FNL, 660 FWL)					-1303ft	
Unit 310 (KB) to Mean Sea Level					1318ft	



Actual BHL
8903 MD (4619 TVD) 4689 VS
X:2151412 Y:151366
333 FSL, 735 FWL



Actual Wellpath Report

Sandridge Garlow 3406 2-16H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Garlow 3406 2-16H SL 225 FNL, 660 FWL**
Area	**Kansas**	Well	**Subject**
Field	**Harper County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Garlow 3406 2-16H Actual**
Facility	**Garlow 3406 2-16H Sec. 16-34S-6W**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / Lambert Kansas SP, Southern Zone (1502), US feet**		
North Reference	**Grid**	Software System	**WellArchitect 3.0.0**
Convergence at slot	**0.32° East**	User	**Burnranj**
Scale	**1.00004**	Report Generated	**3/7/2013** at **2:20:49 PM**
Wellbore last revised	**02-15-2013**	Database/Source file	**Oklahoma City**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	**0.00**	**0.00**	2151280.00	156054.00	37°05'38.723"N	97°58'52.916"W
Facility Reference Pt			**2151280.00**	**156054.00**	37°05'38.723"N	97°58'52.916"W
Field Reference Pt			2132248.82	161602.28	**37°06'34.560"N**	**98°02'47.460"W**

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Unit 310 (KB) to Facility Vertical Datum	**15.00ft**
Horizontal Reference Pt	**Slot**	Unit 310 (KB) to Mean Sea Level	**1318.00ft**
Vertical Reference Pt	**Unit 310 (KB)**	Unit 310 (KB) to Mud Line at Slot (Garlow 3406 2-16H SL 225 FNL, 660 FWL)	**15.00ft**
MD Reference Pt	**Unit 310 (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**179.30°**

Actual Wellpath Report

Sandridge Garlow 3406 2-16H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Garlow 3406 2-16H SL 225 FNL, 660 FWL**
Area	**Kansas**	Well	**Subject**
Field	**Harper County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Garlow 3406 2-16H Actual**
Facility	**Garlow 3406 2-16H Sec. 16-34S-6W**		

WELLPATH DATA (119 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
0.00	0.000	172.780	0.00	0.00	0.00	0.00	2151280.00	156054.00	0.00	
15.00	0.000	172.780	15.00	0.00	0.00	0.00	2151280.00	156054.00	0.00	
250.00	0.250	172.780	250.00	0.51	-0.51	0.06	2151280.06	156053.49	0.11	
500.00	0.250	172.780	500.00	1.59	-1.59	0.20	2151280.20	156052.41	0.00	
687.00	1.000	172.780	686.98	3.62	-3.61	0.46	2151280.46	156050.39	0.40	
725.00	0.070	172.780	724.98	3.97	-3.97	0.50	2151280.50	156050.03	2.45	
817.00	0.110	241.110	816.98	4.07	-4.06	0.43	2151280.43	156049.94	0.12	
908.00	0.060	326.330	907.98	4.07	-4.07	0.33	2151280.33	156049.93	0.13	
1000.00	0.100	240.900	999.98	4.07	-4.07	0.23	2151280.23	156049.93	0.12	
1092.00	0.100	332.280	1091.98	4.04	-4.03	0.12	2151280.12	156049.97	0.16	
1184.00	0.140	212.900	1183.98	4.06	-4.06	0.03	2151280.03	156049.94	0.23	
1275.00	0.110	132.480	1274.98	4.21	-4.21	0.03	2151280.03	156049.79	0.18	
1367.00	0.090	284.390	1366.98	4.25	-4.25	0.03	2151280.03	156049.75	0.21	
1458.00	0.110	348.450	1457.98	4.15	-4.15	-0.06	2151279.94	156049.85	0.12	
1553.00	0.090	355.260	1552.98	3.98	-3.98	-0.09	2151279.91	156050.02	0.02	
1644.00	0.070	316.390	1643.98	3.87	-3.87	-0.13	2151279.87	156050.13	0.06	
1736.00	0.070	166.930	1735.98	3.89	-3.89	-0.16	2151279.84	156050.11	0.15	
1829.00	0.070	112.690	1828.98	3.96	-3.96	-0.09	2151279.91	156050.04	0.07	
1924.00	0.130	344.070	1923.98	3.88	-3.88	-0.07	2151279.93	156050.12	0.19	
2019.00	0.090	309.770	2018.98	3.73	-3.73	-0.15	2151279.85	156050.27	0.08	
2114.00	0.090	321.330	2113.98	3.62	-3.63	-0.26	2151279.74	156050.37	0.02	
2208.00	0.170	139.590	2207.98	3.67	-3.67	-0.21	2151279.79	156050.33	0.28	
2304.00	0.160	98.200	2303.98	3.80	-3.80	0.01	2151280.01	156050.20	0.12	
2399.00	0.170	305.280	2398.98	3.74	-3.74	0.03	2151280.03	156050.26	0.34	
2493.00	0.040	239.150	2492.98	3.67	-3.68	-0.11	2151279.89	156050.32	0.17	
2588.00	0.180	74.820	2587.98	3.65	-3.65	0.00	2151280.00	156050.35	0.23	
2683.00	0.180	355.220	2682.98	3.47	-3.47	0.13	2151280.13	156050.53	0.24	
2778.00	0.250	350.920	2777.98	3.11	-3.11	0.09	2151280.09	156050.89	0.08	
2873.00	0.110	52.540	2872.98	2.85	-2.85	0.13	2151280.13	156051.15	0.23	
2968.00	0.200	90.540	2967.98	2.80	-2.80	0.37	2151280.37	156051.20	0.14	
3063.00	0.290	209.390	3062.98	3.01	-3.01	0.41	2151280.41	156050.99	0.45	
3156.00	0.120	156.400	3155.98	3.31	-3.30	0.34	2151280.34	156050.70	0.26	
3253.00	0.120	241.260	3252.98	3.45	-3.45	0.29	2151280.29	156050.55	0.17	
3348.00	0.130	90.580	3347.98	3.50	-3.49	0.31	2151280.31	156050.51	0.25	
3443.00	0.310	95.680	3442.98	3.53	-3.52	0.67	2151280.67	156050.48	0.19	
3538.00	0.280	259.930	3537.98	3.60	-3.59	0.70	2151280.70	156050.41	0.62	
3633.00	0.340	236.880	3632.97	3.78	-3.78	0.24	2151280.24	156050.22	0.14	
3727.00	2.430	177.130	3726.94	5.93	-5.92	0.10	2151280.10	156048.08	2.42	
3759.00	4.860	178.280	3758.88	7.96	-7.96	0.18	2151280.18	156046.04	7.60	
3791.00	6.960	176.020	3790.70	11.25	-11.25	0.35	2151280.35	156042.75	6.60	
3823.00	8.710	178.030	3822.40	15.61	-15.60	0.57	2151280.57	156038.40	5.53	
3854.00	10.760	177.610	3852.96	20.85	-20.84	0.77	2151280.77	156033.16	6.62	
3886.00	12.370	179.900	3884.31	27.26	-27.25	0.90	2151280.90	156026.75	5.23	
3917.00	13.970	180.430	3914.49	34.32	-34.32	0.88	2151280.88	156019.68	5.18	
3949.00	17.240	181.170	3945.31	42.93	-42.92	0.75	2151280.75	156011.08	10.24	

Actual Wellpath Report

Sandridge Garlow 3406 2-16H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Garlow 3406 2-16H SL 225 FNL, 660 FWL**
Area	**Kansas**	Well	**Subject**
Field	**Harper County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Garlow 3406 2-16H Actual**
Facility	**Garlow 3406 2-16H Sec. 16-34S-6W**		

WELLPATH DATA (119 stations) = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
3981.00	20.390	181.380	3975.59	53.24	-53.24	0.52	2151280.52	156000.76	9.85	
4012.00	23.250	181.940	4004.37	64.75	-64.75	0.18	2151280.18	155989.24	9.25	
4044.00	26.000	180.290	4033.46	78.08	-78.08	-0.06	2151279.94	155975.91	8.86	
4076.00	28.380	180.860	4061.92	92.69	-92.70	-0.21	2151279.79	155961.29	7.48	
4102.00	29.435	179.121	4084.68	105.26	-105.27	-0.21	2151279.79	155948.73	5.19	330' FNL Hardline Cross 4102 MD (4085 TVD) 105 VS X:2151280 Y:155949 330 FNL
4107.00	29.640	178.800	4089.03	107.72	-107.73	-0.16	2151279.84	155946.26	5.19	
4139.00	31.760	177.630	4116.54	124.06	-124.06	0.35	2151280.35	155929.93	6.88	
4170.00	34.360	177.840	4142.52	140.96	-140.96	1.02	2151281.02	155913.04	8.40	
4202.00	35.860	177.230	4168.70	159.36	-159.35	1.81	2151281.81	155894.65	4.81	
4233.00	36.550	176.580	4193.71	177.65	-177.63	2.80	2151282.80	155876.36	2.55	
4265.00	37.580	176.700	4219.25	196.92	-196.88	3.93	2151283.93	155857.11	3.23	
4296.00	39.350	177.420	4243.52	216.18	-216.14	4.92	2151284.92	155837.85	5.89	
4328.00	41.410	178.780	4267.89	236.91	-236.86	5.60	2151285.60	155817.13	7.00	
4360.00	43.250	179.660	4291.55	258.46	-258.40	5.89	2151285.89	155795.59	6.04	
4391.00	44.720	180.040	4313.85	279.98	-279.93	5.94	2151285.94	155774.06	4.82	
4423.00	46.910	179.830	4336.16	302.93	-302.88	5.97	2151285.97	155751.11	6.86	
4455.00	49.400	178.650	4357.50	326.76	-326.71	6.29	2151286.29	155727.28	8.25	
4486.00	49.560	178.290	4377.64	350.33	-350.27	6.92	2151286.92	155703.72	1.02	
4581.00	50.400	177.570	4438.73	423.06	-422.97	9.55	2151289.55	155631.01	1.06	
4644.00	50.530	177.280	4478.84	471.62	-471.51	11.74	2151291.74	155582.47	0.41	
4676.00	50.720	176.950	4499.14	496.34	-496.22	12.98	2151292.98	155557.77	0.99	
4707.00	53.260	177.250	4518.23	520.74	-520.61	14.21	2151294.22	155533.37	8.23	
4739.00	55.960	177.070	4536.76	546.81	-546.66	15.51	2151295.51	155507.32	8.45	
4770.00	59.390	177.860	4553.33	572.99	-572.83	16.66	2151296.66	155481.15	11.27	
4802.00	62.820	177.940	4568.79	600.99	-600.82	17.69	2151297.69	155453.16	10.72	
4833.00	66.210	178.080	4582.13	628.96	-628.78	18.66	2151298.66	155425.20	10.94	
4865.00	69.360	177.200	4594.22	658.57	-658.38	19.88	2151299.88	155395.60	10.17	
4897.00	72.010	177.180	4604.81	688.75	-688.54	21.36	2151301.36	155365.44	8.28	
4928.00	74.350	176.830	4613.78	718.39	-718.17	22.91	2151302.91	155335.81	7.63	
4960.00	77.120	176.590	4621.66	749.37	-749.13	24.69	2151304.69	155304.85	8.69	
4992.00	80.320	177.530	4627.92	780.73	-780.46	26.30	2151306.30	155273.51	10.41	
5034.00	83.800	178.370	4633.72	822.30	-822.03	27.79	2151307.79	155231.94	8.52	
5125.00	87.290	179.930	4640.79	913.01	-912.73	29.13	2151309.13	155141.24	4.20	
5220.00	89.880	180.450	4643.14	1007.96	-1007.69	28.82	2151308.82	155046.28	2.78	
5315.00	90.090	179.930	4643.16	1102.95	-1102.69	28.50	2151308.50	154951.27	0.59	
5409.00	89.820	179.920	4643.23	1196.95	-1196.69	28.62	2151308.62	154857.27	0.29	
5505.00	90.550	179.310	4642.92	1292.94	-1292.68	29.27	2151309.27	154761.27	0.99	
5599.00	90.340	178.990	4642.19	1386.94	-1386.67	30.66	2151310.66	154667.28	0.41	
5694.00	87.630	179.780	4643.88	1481.92	-1481.64	31.68	2151311.68	154572.31	2.97	
5789.00	89.480	179.840	4646.27	1576.88	-1576.60	32.00	2151312.00	154477.34	1.95	
5884.00	91.290	179.250	4645.63	1671.87	-1671.60	32.75	2151312.75	154382.34	2.00	
5979.00	92.010	179.140	4642.90	1766.83	-1766.55	34.09	2151314.09	154287.39	0.77	
6073.00	90.960	178.880	4640.46	1860.80	-1860.50	35.71	2151315.71	154193.43	1.15	
6168.00	91.880	178.880	4638.11	1955.76	-1955.45	37.57	2151317.57	154098.48	0.97	
6263.00	89.320	178.600	4637.11	2050.74	-2050.41	39.66	2151319.66	154003.51	2.71	

Actual Wellpath Report

Sandridge Garlow 3406 2-16H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Garlow 3406 2-16H SL 225 FNL, 660 FWL**
Area	**Kansas**	Well	**Subject**
Field	**Harper County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Garlow 3406 2-16H Actual**
Facility	**Garlow 3406 2-16H Sec. 16-34S-6W**		

WELLPATH DATA (119 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	DLS [°/100ft]	Comments
6358.00	91.320	178.500	4636.58	2145.73	-2145.38	42.06	2151322.06	153908.54	2.11	
6453.00	89.750	178.960	4635.70	2240.72	-2240.35	44.16	2151324.17	153813.57	1.72	
6548.00	91.450	179.250	4634.70	2335.71	-2335.33	45.65	2151325.65	153718.59	1.82	
6643.00	91.490	178.380	4632.26	2430.67	-2430.27	47.61	2151327.61	153623.64	0.92	
6737.00	90.150	177.760	4630.92	2524.64	-2524.21	50.78	2151330.78	153529.70	1.57	
6832.00	90.490	177.340	4630.39	2619.59	-2619.12	54.84	2151334.84	153434.78	0.57	
6927.00	90.560	177.040	4629.52	2714.52	-2714.00	59.50	2151339.50	153339.90	0.32	
7015.00	89.110	178.210	4629.77	2802.48	-2801.92	63.14	2151343.14	153251.98	2.12	
7047.00	88.860	178.070	4630.34	2834.47	-2833.90	64.18	2151344.18	153220.00	0.90	
7142.00	90.370	179.290	4630.98	2929.46	-2928.87	66.37	2151346.37	153125.03	2.04	
7237.00	90.490	179.110	4630.26	3024.45	-3023.86	67.70	2151347.70	153030.03	0.23	
7331.00	90.180	180.090	4629.71	3118.45	-3117.85	68.35	2151348.35	152936.04	1.09	
7426.00	90.650	179.940	4629.03	3213.44	-3212.85	68.33	2151348.33	152841.04	0.52	
7521.00	91.170	179.490	4627.52	3308.43	-3307.83	68.80	2151348.80	152746.05	0.72	
7616.00	89.600	179.640	4626.88	3403.42	-3402.83	69.52	2151349.52	152651.05	1.66	
7711.00	90.490	179.300	4626.80	3498.42	-3497.82	70.40	2151350.40	152556.05	1.00	
7806.00	90.710	178.370	4625.81	3593.41	-3592.80	72.33	2151352.33	152461.07	1.01	
7900.00	90.650	176.900	4624.69	3687.36	-3686.71	76.21	2151356.21	152367.16	1.57	
7996.00	88.740	174.410	4625.20	3783.15	-3782.42	83.48	2151363.48	152271.45	3.27	
8090.00	89.630	174.440	4626.54	3876.80	-3875.96	92.61	2151372.61	152177.90	0.95	
8185.00	91.390	176.340	4625.70	3971.57	-3970.64	100.25	2151380.25	152083.21	2.73	
8280.00	90.860	175.010	4623.83	4066.36	-4065.35	107.41	2151387.41	151988.50	1.51	
8374.00	91.450	176.910	4621.94	4160.17	-4159.09	114.03	2151394.03	151894.75	2.12	
8469.00	92.530	178.110	4618.64	4255.07	-4253.94	118.16	2151398.16	151799.90	1.70	
8564.00	91.910	178.720	4614.96	4349.98	-4348.84	120.78	2151400.79	151705.01	0.92	
8659.00	90.120	178.590	4613.27	4444.96	-4443.79	123.01	2151403.01	151610.05	1.89	
8754.00	88.740	177.580	4614.22	4539.93	-4538.73	126.18	2151406.19	151515.11	1.80	
8849.00	87.870	177.810	4617.03	4634.85	-4633.61	130.00	2151410.01	151420.22	0.95	
8903.00	87.870	177.810	4619.04	4688.79	-4687.53	132.07	2151412.07	151366.30	0.00	**Actual BHL 8903 MD (4619 TVD) 4689 VS X:2151412 Y:151366 333 FSL, 735 FWL**

Actual Wellpath Report

Sandridge Garlow 3406 2-16H_Final Surveys.

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Sandridge Energy**	Slot	**Garlow 3406 2-16H SL 225 FNL, 660 FWL**
Area	**Kansas**	Well	**Subject**
Field	**Harper County, Kansas (Sandridge Energy) NAD27 / Grid**	Wellbore	**Garlow 3406 2-16H Actual**
Facility	**Garlow 3406 2-16H Sec. 16-34S-6W**		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
BHL 330' FSL, 660' FWL		4620.43	-4691.83	57.00	**2151337.00**	**151362.00**	37°04'52.331"N	97°58'52.535"W	point

WELLPATH COMPOSITION - Ref Wellbore: Garlow 3406 2-16H Actual Ref Wellpath: AWP - Final

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	687.00	Unknown Tool (Standard)	Unknown Surveys (Inc Only)	Garlow 3406 2-16H Actual
687.00	8849.00	NaviTrak (Standard)	INTEQ - MWD	Garlow 3406 2-16H Actual
8849.00	8903.00	Blind Drilling (std)	Projection to bit	Garlow 3406 2-16H Actual

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/26/2013
Job End Date:	3/28/2013
State:	Kansas
County:	Harper
API Number:	15-077-21904-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Garlow 3406 2-16H
Longitude:	-97.98130000
Latitude:	37.09400000
Datum:	NAD27
Federal/Tribal Well:	NO
Total Base Water Volume (gal):	1,804,909
Total Base Non Water Volume:	

Hydraulic Fracturing Fluid Composition:

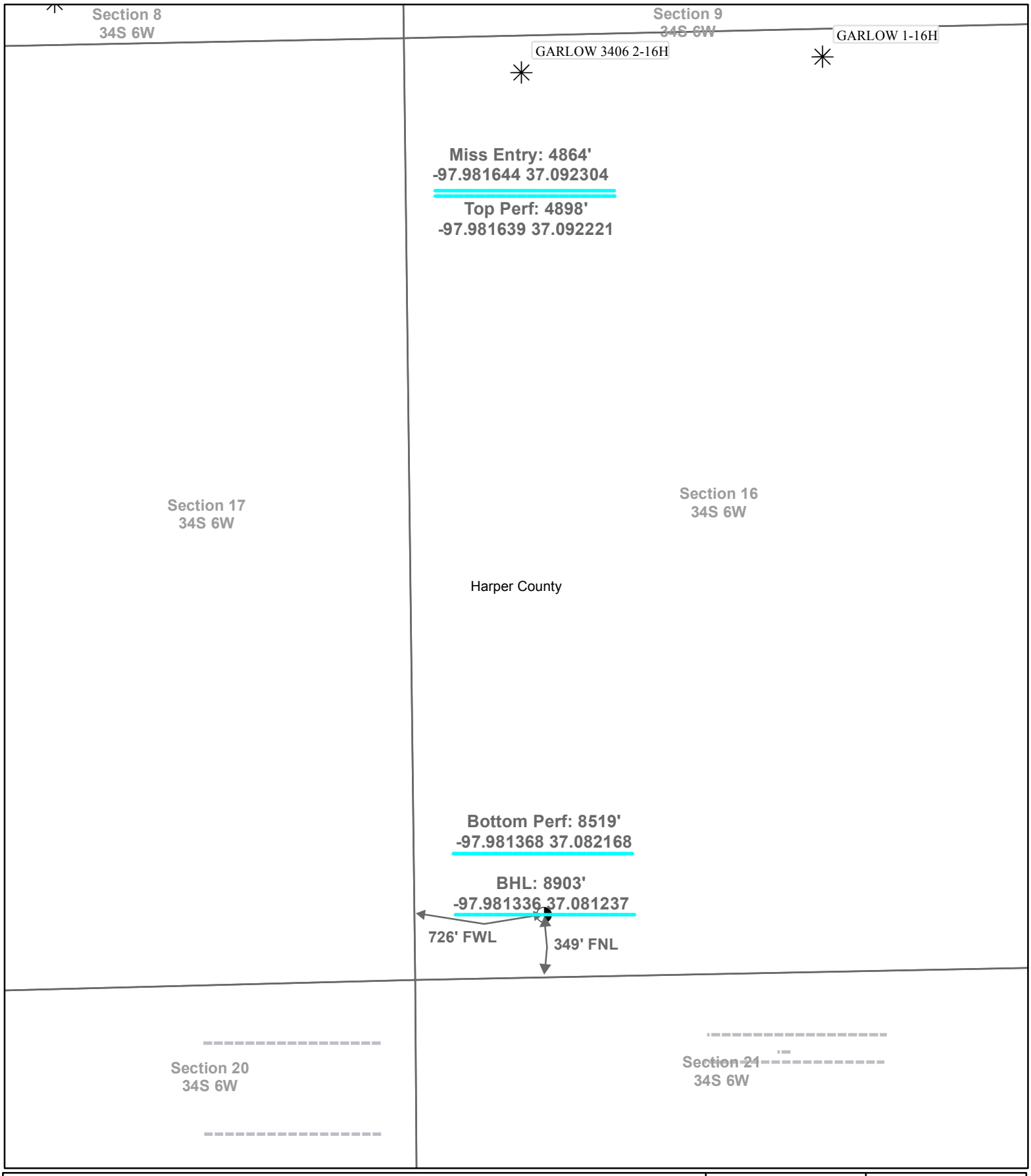
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
HCL 15%N	Heat Waves Hot Oil Service, LLC	Acid					
			Water	7732-18-5	91.00000	47.93864	
			Hydrogen Chloride	7647-01-0	36.00000	47.93864	
KCL 2% N	Heat Waves Hot Oil Service, LLC	Clay Stabilizer					
			Tetramethylammonium Chloride	75-57-0	100.00000	1.27836	
STIM 8900	Heat Waves Hot Oil Service, LLC	anti-sludge					
			Isopropanol	67-63-0	100.00000	0.25567	
			Trade Secret	73296-89-6	100.00000	0.25567	
			Ethylene Glycol	107-21-1	100.00000	0.25567	
WSF 9020	Heat Waves Hot Oil Service, LLC	Detergent/Cleaner					
			Methanol	67-56-1	100.00000	0.25567	
			Isopropanol	67-63-0	100.00000	0.25567	
			Nonylphenol Ethoxylate	009016-45-9	100.00000	0.25567	
Swell Ban	Heat Waves Hot Oil Service, LLC	Stimulation/ Drilling					
			Isopropanol	67-63-0	100.00000	0.19175	
			Methanol	67-56-1	100.00000	0.19175	
			Quaternary Ammonium Chloride	68187-63-3	100.00000	0.19175	
STIM-HIB 2590	Het Waves Hot Oil Service, LLC	Acid Inhibitor					

			Isopropanol	67-63-0	100.00000	0.09588	
			Methanol	67-56-1	100.00000	0.09588	
			Propargyl Alcohol	107-19-7	100.00000	0.09588	
			Trade Secret	NA	100.00000	0.09588	
Fe Ban L-2	Heat Waves Hot Oil Service, LLC	Iron Complexing Agent					
			Ethylene Glycol	107-21-1	20.00000	0.09588	
			Hydrochloric Acid	7647-01-0	100.00000	0.09588	
			Trade Secret	NA	100.00000	0.09588	
Biocide 3000	Heat Waves Hot Oil Service, LLC	Biocide					
			Glutaraidehyde	111-30-8	30.00000	0.01598	
			Acetone	67-64-1	40.00000	0.01598	
			Methanol	67-56-1	0.30000	0.01598	
			Water	7732-18-5	30.00000	0.01598	
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	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.08004		
			Prop-2-yn-1-ol	107-19-7	0.00206		
			Ethane-1,2-diol	107-21-1	0.00747		
			C14 alpha olefin ethoxylate	84133-50-6	0.00742		
			Alkenes, C>10 a-	64743-02-8	0.00137		
			Ethanol	64-17-5	0.00141		
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00309		
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.01390		
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.26993		
			Hydrogen chloride	7647-01-0	2.73670		
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.12007		
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.01390		
		Other Chemicals					
			Water	7732-18-5	100.00000		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Methanol	67-56-1	0.25178		
			Sorbitan monooleate	1338-43-8	0.02362		
			Crystalline silica	14808-60-7	95.82458		
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01175		
			Fatty acids, tall-oil	61790-12-3	0.00807		

			Ethoxylated oleic acid	9004-96-0	0.02699		
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00664		
			Sodium erythorbate	6381-77-7	0.02086		
			Glutaraldehyde	111-30-8	0.06581		
			Water (Including Mix Water Supplied by Client)*	-			
			2-Propenoic acid, ammonium salt	10604-69-0	0.00675		
			Distillates (petroleum), hydrotreated light	64742-47-8	0.32391		
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01404		
			Trisodium ortho phosphate	7601-54-9	0.02625		
			Ammonium chloride	12125-02-9	0.15521		
			Sorbitol Tetraoleate	61723-83-9	0.01687		

* 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)



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Garlow 3406 2-16H
Harper County, Kansas
T&R: 34S 6W
Section: 17, 726' FWL & 349' FNL
-97.981336 37.081237

1 in = 703 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 6/3/2013
Drawing Name/Number: Addendum_Garlow_2-16H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	