Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1113567

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 # 34600
Name: Horizon Energy Services, LLC
Wellsite Geologist: Tammy Alcorn
Purchaser: Plains Marketing, LP (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 #:

12/28/2012 Spud Date or Recompletion Date
1/31/2013 Date Reached TD
3/12/2013 Completion Date or Recompletion Date

API No. 15 - 15-077-21900-01-00
Spot Description:
SW SE SE SW Sec. 13 Twp. 35 S. R. 6 ☐ East ☑ West
250 Feet from ☐ North / ☑ South Line of Section
2170 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: Dalrymple Farm Well #: 3506 1-13H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1224 Kelly Bushing: 1244
Total Vertical Depth: 9199 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 657 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: 12000 ppm Fluid volume: 6381 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Soil Farm: Texoma Tank Service, LLC
Lease Name: Unnmaed License #: 99999
Quarter N2 Sec. 18 Twp. 29 S. R. 6 ☐ East ☑ West
County: Grant, OK Permit #: 12-22254

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: 04/22/2013
☑ **Confidential Release Date:** 04/23/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 04/23/2013

1113567

Operator Name: SandRidge Exploration and Production LLC Lease Name: Dalrymple Farm Well #: 3506 1-13H

Sec. 13 Twp. 35 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	3285	
Tonkawa	3630	
Cottage Grove	3960	
Oswego Limstone	4340	
Cherokee Group	4474	
V erdigris Limestone	4530	
Mississippi Lime	4702	

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. 3/17/2013

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	Dalrymple Farm 3506 1-13H
Doc ID	1113567

All Electric Logs Run

Boresight
Porosity
Resistivity
Mud Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Dalrymple Farm 3506 1-13H
Doc ID	1113567

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8526-8949	4202 bbls water, 36 bbls acid, 23M lbs sd, 4436 TLTR	
5	8156-8434	4196 bbls water, 36 bbls acid, 75M lbs sd, 8854 TLTR	
5	7772-8092	4190 bbls water, 36 bbls acid, 75M lbs sd, 13263 TLTR	
5	7386-7732	4184 bbls water, 36 bbls acid, 75M lbs sd, 18899 TLTR	
5	6983-7242	4178 bbls water, 36 bbls acid, 75M lbs sd, 23077 TLTR	
5	6587-6923	4172 bbls water, 36 bbls acid, 75M lbs sd, 27198 TLTR	
5	6227-6519	4166 bbls water, 36 bbls acid, 75M lbs sd, 31104 TLTR	
5	5782-6082	4159 bbls water, 36 bbls acid, 75M lbs sd, 35138 TLTR	
5	5384-5724	4153 bbls water, 36 bbls acid, 75M lbs sd, 39355 TLTR	
5	4992-5330	44147 bbls water, 36 bbls acid, 75M lbs sd, 43423 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Dalrymple Farm 3506 1-13H
Doc ID	1113567

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	24	20	75	90	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	657	Halliburton Extendacem and Swiftcem Systems	345	3% Calcium Chloride, .25 lbm Poly-E-Flake
Intermediate	8.75	7	26	5220	Halliburton Econocem and Halcem Systems	300	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite
Production Liner	6.12	4.5	11.6	9199	Halliburton Econocem System	470	.4% Halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite

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/

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

Sam Brownback, Governor

February 05, 2013

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

Re: ACO1
API 15-077-21900-01-00
Dalrymple Farm 3506 1-13H
SW/4 Sec.13-35S-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

Invoice

Mid-Continent Conductor, LLC
P.O. Box 1570
Woodward, OK 73802
Phone: (580)254-5400
Fax: (580)254-3242

Date	Invoice #
12/28/2012	1623

Bill To
SandRidge Energy, Inc. Attn: Purchasing Mgr. 123 Robert S. Kerr Avenue Oklahoma City, OK. 73102

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Ricky Beene	Net 45	12/28/2012	Dalrymple 3506 1-13H, Harper Cnty, ...	Horizon 15

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
20" Pipe	20	Furnished 20 ft. of 20 inch pipe for riser
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished and set 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Transport Truck - Conductor	1	Furnished transport truck and water to displace cement down center of conductor pipe
Grout & Trucking	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
Fence Panels	4	Furnished and set fence panels around conductor holes

AFE: DC12187
Well: Dalrymple Farms 3506 1-13H
Code: 850-010
AMT: 20340.00
Co Man: Ismael Ferriz

Subtotal	$20,340.00
Sales Tax (0.0%)	$0.00
Total	$20,340.00

RECEIVED
JAN 18 2013
REGULATORY DEPT
SANDRIDGE ENERGY

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2973032	**Quote #:**	**Sales Order #:** 900120194
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:** McCullar, Tyler	
Well Name: Dalrymple Farms 3506	**Well #:** 1-13H		**API/UWI #:** 15-077-21900
Field:	**City (SAP):** BLUFF CITY	**County/Parish:** Harper	**State:** Kansas
Legal Description: Section 13 Township 35S Range 6W			
Contractor: Horizon	**Rig/Platform Name/Num:** 15		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: NGUYEN, VINH	**Srvc Supervisor:** HECKENBACH, AUGUST	**MBU ID Emp #:** 511867	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
GARRETT, CHRISTIAN Lee	13.0	525377	GILMORE, DONALD Zackry	13	493055	HAHN, DAVID Jay	13	521042
HECKENBACH, AUGUST Abbott	13	511867						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10872345	100 mile	10897901	100 mile	11706681	100 mile	11748363	100 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/11/13	13	3						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	657. ft	**Job Depth TVD**	657. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	**From**		**To**

Job Times

	Date	Time	Time Zone
Called Out	10 - Jan - 2013	19:30	CST
On Location	11 - Jan - 2013	04:00	CST
Job Started	11 - Jan - 2013	14:56	CST
Job Completed	11 - Jan - 2013	15:31	CST
Departed Loc	11 - Jan - 2013	16:30	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				.	700.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	661.8		

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

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	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	HLC Standard	EXTENDACEM (TM) SYSTEM (452981)	185.0	sacks	12.4	2.11	11.57		11.57
3 %		CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
0.25 lbm		POLY-E-FLAKE (101216940)							
11.571 Gal		FRESH WATER							
3	STANDARD	SWIFTCEM (TM) SYSTEM (452990)	160.0	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		48.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement	48	Shut In: Instant		Lost Returns		Cement Slurry	104	Pad	10
Top Of Cement	Surface	5 Min		Cement Returns	8	Actual Displacement	48	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	162

Rates							
Circulating	4	Mixing	6	Displacement	6	Avg. Job	5.5

Cement Left In Pipe	Amount	42.7 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

RECEIVED
JAN 28 2013
REGULATORY DEPT
SANDRIDGE ENERGY

HALLIBURTON Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2973032	**Quote #:**	**Sales Order #:** 900150072
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:** McCullar, Tyler	
Well Name: Dalrymple Farms 3506	**Well #:** 1-13H		**API/UWI #:** 15-077-21900
Field:	**City (SAP):** BLUFF CITY	**County/Parish:** Harper	**State:** Kansas
Legal Description: Section 13 Township 35S Range 6W			
Contractor: HORIZON	**Rig/Platform Name/Num:** 15		
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well	**Job Type:** Cement Intermediate Casing		
Sales Person: NGUYEN, VINH	**Srvc Supervisor:** WALTON, SCOTTY	**MBU ID Emp #:** 478229	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OSBORN, JAMES David	16.5	518950	PROVINES, TYLER Wesley	16.5	523867	SMITH, CHAD R	16.5	523862
WALTON, SCOTTY Dwayne	16.5	478229						

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
1-19-13	16.5	2						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**		137 degF	
Job depth MD	5196. ft	**Job Depth TVD**			
Water Depth		**Wk Ht Above Floor**			
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	18 - Jan - 2013	21:00	CST
On Location	19 - Jan - 2013	01:00	CST
Job Started	19 - Jan - 2013	15:12	CST
Job Completed	19 - Jan - 2013	16:14	CST
Departed Loc	19 - Jan - 2013	17:30	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				700.	5196.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5196.		
9.625" Surface Casing	Unknown		9.625	8.921	36.	LTC	J-55	.	700.		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

HALLIBURTON

Cementing Job Summary

1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	.0	
2	50/50 poz standard w/ 2% extra gel	ECONOCEM (TM) SYSTEM (452992)	200.0	sacks	13.6	1.53	7.24		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)	100.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		197.00	bbl	8.33	.0	.0	.0	

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

Rates

Circulating		Mixing		Displacement		Avg. Job	

Cement Left In Pipe	Amount	42 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

RECEIVED
FEB 5 2013
REGULATORY DEPT
CHESAPEAKE ENERGY

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	**Ship To #:** 2973032	**Quote #:**	**Sales Order #:** 900191282
Customer: SANDRIDGE ENERGY INC EBUSINESS		**Customer Rep:** McCullar, Tyler	
Well Name: Dalrymple Farms 3506	**Well #:** 1-13H		**API/UWI #:** 15-077-21900
Field:	**City (SAP):** BLUFF CITY	**County/Parish:** Harper	**State:** Kansas
Legal Description: Section 13 Township 35S Range 6W			
Contractor: Horizon	**Rig/Platform Name/Num:** 15		
Job Purpose: Cement Production Liner			
Well Type: Development Well	**Job Type:** Cement Production Liner		
Sales Person: NGUYEN, VINH	**Srvc Supervisor:** TORRES, DIEGO	**MBU ID Emp #:** 390647	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CRESS, JOHNNY Leneil	9.5	511390	GARRETT, CHRISTIAN Lee	9.5	525377	TOPE, GEOFFREY Daniel	9.5	489420
TORRES, DIEGO Lopez	9.5	390647						

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
2-2-13	9.5	2						
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name			
Formation Depth (MD)	**Top**		**Bottom**
Form Type		**BHST**	
Job depth MD	9109. ft	**Job Depth TVD**	5220. ft
Water Depth		**Wk Ht Above Floor**	4. ft
Perforation Depth (MD)	**From**		**To**

Job Times

	Date	Time	Time Zone
Called Out	02 - Feb - 2013	06:00	CST
On Location	02 - Feb - 2013	12:00	CST
Job Started	02 - Feb - 2013	18:10	CST
Job Completed	02 - Feb - 2013	19:46	CST
Departed Loc	02 - Feb - 2013	21:40	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
6.125" Open Hole				6.125				5196.	9188.		
4.5" Production Liner	Unknown		4.5	4.	11.6	LTC	P-110	4759.	9188.		
7" Intermediate Casing	Unknown		7.	6.276	26.	LTC	P-110	.	5196.		
4" Drill Pipe	Unknown		4.	3.34	14.	Unknown		.	4759.		

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

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	Rig Supplied Gel Spacer		30.00	bbl	8.3	.0	.0	.0	
2	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	470.0	sacks	13.6	1.53	7.24		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	Displacement		110.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement	110	Shut In: Instant		Lost Returns	NO	Cement Slurry	128	Pad	
Top Of Cement	5220	5 Min		Cement Returns	0	Actual Displacement	110	Treatment	
Frac Gradient		15 Min		Spacers	30	Load and Breakdown		Total Job	268

Rates							
Circulating	5	Mixing	5	Displacement	5	Avg. Job	5

Cement Left In Pipe	Amount	80 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
	

Sandridge Energy, INC.(mid-con.)

Harper Co. (KS27S)
Sec 13-T35S-R06W
Dalrymple Farms 3506 1-13H/ Horizon 15

Wellbore #1

Design: Wellbore #1

Standard Survey Report

04 February, 2013

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well Dalrymple Farms 3506 1-13H/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Site:	Sec 13-T35S-R06W	**MD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Well:	Dalrymple Farms 3506 1-13H/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project Harper Co. (KS27S)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site Sec 13-T35S-R06W

Site Position:		**Northing:**	121,378.00 usft	**Latitude:**	36° 59' 54.990 N
From:	Map	**Easting:**	2,166,766.00 usft	**Longitude:**	97° 55' 44.415 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.35 °

Well Dalrymple Farms 3506 1-13H/ Horizon 15

Well Position	**+N/-S**	0.0 usft	**Northing:**	121,640.00 usft	**Latitude:**	36° 59' 57.449 N
	+E/-W	0.0 usft	**Easting:**	2,168,934.00 usft	**Longitude:**	97° 55' 17.672 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	1,220.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/12/27	4.46	65.15	51,743

Design Wellbore #1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	357.24

Survey Program **Date** 2013/02/04

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
232.0	487.0	Single Shot Surveys (Wellbore #1)	MWD	MWD - Standard
682.0	9,199.0	Archer MWD Surveys (Wellbore #1)	MWD	MWD - Standard

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
232.0	0.30	311.30	232.0	0.4	-0.5	0.4	0.13	0.13	0.00
First Single Shot MWD Survey									
487.0	0.20	311.30	487.0	1.1	-1.3	1.2	0.04	-0.04	0.00
Last Single Shot MWD Survey									
682.0	0.20	311.30	682.0	1.6	-1.8	1.7	0.00	0.00	0.00
First Archer MWD Survey									
956.0	0.40	166.30	956.0	1.0	-1.9	1.1	0.21	0.07	-52.92
1,324.0	1.50	180.90	1,323.9	-5.1	-1.7	-5.0	0.30	0.30	3.97

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well Dalrymple Farms 3506 1-13H/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Site:	Sec 13-T35S-R06W	**MD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Well:	Dalrymple Farms 3506 1-13H/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	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)
1,798.0	1.00	160.80	1,797.8	-15.2	-0.4	-15.2	0.14	-0.11	-4.24
2,273.0	1.10	140.80	2,272.7	-22.7	3.8	-22.8	0.08	0.02	-4.21
2,747.0	1.00	124.10	2,746.7	-28.5	10.1	-28.9	0.07	-0.02	-3.52
3,031.0	1.40	129.80	3,030.6	-32.1	14.8	-32.8	0.15	0.14	2.01
3,126.0	1.40	131.30	3,125.6	-33.6	16.6	-34.4	0.04	0.00	1.58
3,221.0	1.30	146.80	3,220.6	-35.3	18.0	-36.1	0.40	-0.11	16.32
3,316.0	1.10	155.90	3,315.5	-37.0	19.0	-37.9	0.29	-0.21	9.58
3,411.0	1.30	151.10	3,410.5	-38.8	19.9	-39.7	0.24	0.21	-5.05
3,505.0	1.30	146.00	3,504.5	-40.6	21.0	-41.6	0.12	0.00	-5.43
3,600.0	1.30	132.20	3,599.5	-42.2	22.4	-43.3	0.33	0.00	-14.53
3,695.0	1.00	102.80	3,694.4	-43.1	24.0	-44.2	0.69	-0.32	-30.95
3,787.0	1.00	116.00	3,786.4	-43.7	25.5	-44.8	0.25	0.00	14.35
3,819.0	0.90	121.80	3,818.4	-43.9	26.0	-45.1	0.43	-0.31	18.13
3,850.0	1.80	24.40	3,849.4	-43.6	26.4	-44.8	6.82	2.90	-314.19
3,883.0	4.50	7.60	3,882.4	-41.8	26.8	-43.1	8.56	8.18	-50.91
3,914.0	7.10	5.50	3,913.2	-38.7	27.1	-40.0	8.41	8.39	-6.77
3,946.0	8.80	8.30	3,944.9	-34.3	27.7	-35.6	5.45	5.31	8.75
3,977.0	10.40	8.80	3,975.5	-29.2	28.4	-30.6	5.17	5.16	1.61
4,009.0	12.30	6.80	4,006.8	-23.0	29.3	-24.4	6.06	5.94	-6.25
4,041.0	14.30	2.90	4,038.0	-15.7	29.9	-17.1	6.85	6.25	-12.19
4,072.0	17.10	358.50	4,067.8	-7.3	30.0	-8.7	9.81	9.03	-14.19
4,104.0	20.00	357.90	4,098.2	2.9	29.6	1.5	9.08	9.06	-1.88
4,136.0	22.20	358.70	4,128.0	14.4	29.3	13.0	6.93	6.88	2.50
4,167.0	24.30	359.50	4,156.5	26.6	29.1	25.2	6.85	6.77	2.58
4,199.0	26.20	1.30	4,185.4	40.3	29.2	38.8	6.40	5.94	5.63
4,230.0	28.60	1.10	4,212.9	54.6	29.5	53.1	7.75	7.74	-0.65
4,262.0	31.40	0.70	4,240.7	70.5	29.8	69.0	8.77	8.75	-1.25
4,293.0	34.10	1.20	4,266.7	87.3	30.0	85.8	8.75	8.71	1.61
4,325.0	35.20	1.00	4,293.1	105.5	30.4	103.9	3.46	3.44	-0.63
4,356.0	36.40	359.70	4,318.2	123.6	30.5	122.0	4.58	3.87	-4.19
4,388.0	38.90	358.10	4,343.5	143.2	30.1	141.6	8.39	7.81	-5.00
4,419.0	42.50	356.70	4,367.0	163.4	29.2	161.8	11.98	11.61	-4.52
4,451.0	45.50	355.30	4,390.0	185.5	27.6	184.0	9.85	9.38	-4.38
4,482.0	47.40	355.00	4,411.4	207.9	25.7	206.4	6.17	6.13	-0.97
4,514.0	48.40	354.40	4,432.9	231.6	23.5	230.2	3.42	3.13	-1.88
4,545.0	49.50	354.30	4,453.2	254.8	21.2	253.5	3.56	3.55	-0.32
4,577.0	50.90	353.60	4,473.7	279.3	18.6	278.1	4.69	4.38	-2.19
4,608.0	50.80	353.50	4,493.3	303.2	15.9	302.0	0.41	-0.32	-0.32
4,640.0	50.60	352.90	4,513.5	327.8	13.0	326.7	1.58	-0.63	-1.88
4,671.0	50.90	351.90	4,533.2	351.5	9.8	350.7	2.68	0.97	-3.23
4,703.0	50.50	351.40	4,553.4	376.0	6.2	375.3	1.74	-1.25	-1.56
4,734.0	49.90	350.80	4,573.3	399.6	2.6	399.0	2.44	-1.94	-1.94
4,766.0	50.50	351.20	4,593.7	423.9	-1.3	423.4	2.11	1.88	1.25
4,797.0	53.00	352.10	4,612.9	447.9	-4.8	447.7	8.38	8.06	2.90

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well Dalrymple Farms 3506 1-13H/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Site:	Sec 13-T35S-R06W	**MD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Well:	Dalrymple Farms 3506 1-13H/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	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)
4,829.0	55.70	353.00	4,631.6	473.7	-8.2	473.6	8.74	8.44	2.81
4,860.0	59.00	353.30	4,648.3	499.6	-11.3	499.6	10.68	10.65	0.97
4,892.0	61.30	353.40	4,664.2	527.2	-14.5	527.3	7.19	7.19	0.31
4,923.0	64.30	353.80	4,678.4	554.6	-17.6	554.8	9.75	9.68	1.29
4,955.0	67.30	353.70	4,691.5	583.6	-20.8	583.9	9.38	9.38	-0.31
4,987.0	69.30	354.10	4,703.3	613.2	-23.9	613.6	6.36	6.25	1.25
5,018.0	71.50	355.10	4,713.7	642.2	-26.7	642.8	7.72	7.10	3.23
5,050.0	74.40	356.30	4,723.1	672.8	-29.0	673.4	9.75	9.06	3.75
5,081.0	77.00	356.90	4,730.8	702.7	-30.7	703.4	8.59	8.39	1.94
5,113.0	80.40	357.00	4,737.1	734.1	-32.4	734.8	10.63	10.63	0.31
5,144.0	83.80	356.50	4,741.3	764.7	-34.2	765.5	11.08	10.97	-1.61
5,176.0	86.40	356.50	4,744.0	796.5	-36.1	797.4	8.13	8.13	0.00
5,284.0	89.60	357.10	4,747.8	904.3	-42.1	905.3	3.01	2.96	0.56
5,378.0	89.80	357.30	4,748.3	998.2	-46.7	999.3	0.30	0.21	0.21
5,474.0	90.90	357.00	4,747.7	1,094.1	-51.5	1,095.3	1.19	1.15	-0.31
5,568.0	92.00	357.20	4,745.3	1,187.9	-56.2	1,189.2	1.19	1.17	0.21
5,663.0	92.60	358.50	4,741.5	1,282.8	-59.8	1,284.1	1.51	0.63	1.37
5,758.0	92.60	357.90	4,737.2	1,377.6	-62.8	1,379.0	0.63	0.00	-0.63
5,852.0	89.80	357.20	4,735.3	1,471.5	-66.8	1,473.0	3.07	-2.98	-0.74
5,948.0	90.20	357.50	4,735.3	1,567.4	-71.2	1,569.0	0.52	0.42	0.31
6,043.0	91.70	356.50	4,733.7	1,662.2	-76.2	1,664.0	1.90	1.58	-1.05
6,138.0	91.80	356.50	4,730.8	1,757.0	-82.0	1,758.9	0.11	0.11	0.00
6,232.0	89.80	356.60	4,729.5	1,850.8	-87.7	1,852.9	2.13	-2.13	0.11
6,327.0	90.50	356.50	4,729.2	1,945.7	-93.4	1,947.9	0.74	0.74	-0.11
6,422.0	90.60	356.30	4,728.3	2,040.5	-99.3	2,042.9	0.24	0.11	-0.21
6,517.0	89.50	356.60	4,728.2	2,135.3	-105.2	2,137.9	1.20	-1.16	0.32
6,612.0	88.40	357.10	4,730.0	2,230.1	-110.4	2,232.9	1.27	-1.16	0.53
6,707.0	88.70	358.30	4,732.4	2,325.0	-114.3	2,327.8	1.30	0.32	1.26
6,802.0	91.30	357.90	4,732.4	2,420.0	-117.4	2,422.8	2.77	2.74	-0.42
6,897.0	89.80	358.80	4,731.5	2,514.9	-120.1	2,517.8	1.84	-1.58	0.95
6,991.0	90.10	359.10	4,731.5	2,608.9	-121.9	2,611.7	0.45	0.32	0.32
7,086.0	87.60	358.70	4,733.4	2,703.9	-123.7	2,706.7	2.67	-2.63	-0.42
7,181.0	88.40	359.00	4,736.8	2,798.8	-125.6	2,801.6	0.90	0.84	0.32
7,302.0	89.10	359.40	4,739.4	2,919.7	-127.3	2,922.5	0.67	0.58	0.33
7,397.0	89.70	358.00	4,740.4	3,014.7	-129.4	3,017.4	1.60	0.63	-1.47
7,490.0	92.50	356.50	4,738.6	3,107.6	-133.9	3,110.4	3.42	3.01	-1.61
7,585.0	93.90	356.30	4,733.3	3,202.2	-139.9	3,205.2	1.49	1.47	-0.21
7,680.0	91.40	354.60	4,728.9	3,296.8	-147.4	3,300.1	3.18	-2.63	-1.79
7,775.0	89.40	354.20	4,728.3	3,391.4	-156.6	3,395.0	2.15	-2.11	-0.42
7,870.0	93.10	355.60	4,726.2	3,485.9	-165.1	3,489.8	4.16	3.89	1.47
7,901.0	95.30	355.80	4,723.9	3,516.8	-167.4	3,520.7	7.13	7.10	0.65
7,932.0	95.50	355.80	4,721.0	3,547.5	-169.7	3,551.6	0.65	0.65	0.00
7,964.0	93.80	356.50	4,718.4	3,579.4	-171.8	3,583.5	5.74	-5.31	2.19

Archer

Survey Report

Company:	Sandridge Energy, INC.(mid-con.)	**Local Co-ordinate Reference:**	Well Dalrymple Farms 3506 1-13H/ Horizon 15
Project:	Harper Co. (KS27S)	**TVD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Site:	Sec 13-T35S-R06W	**MD Reference:**	WELL @ 1240.0usft (Original Well Elev)
Well:	Dalrymple Farms 3506 1-13H/ Horizon 15	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

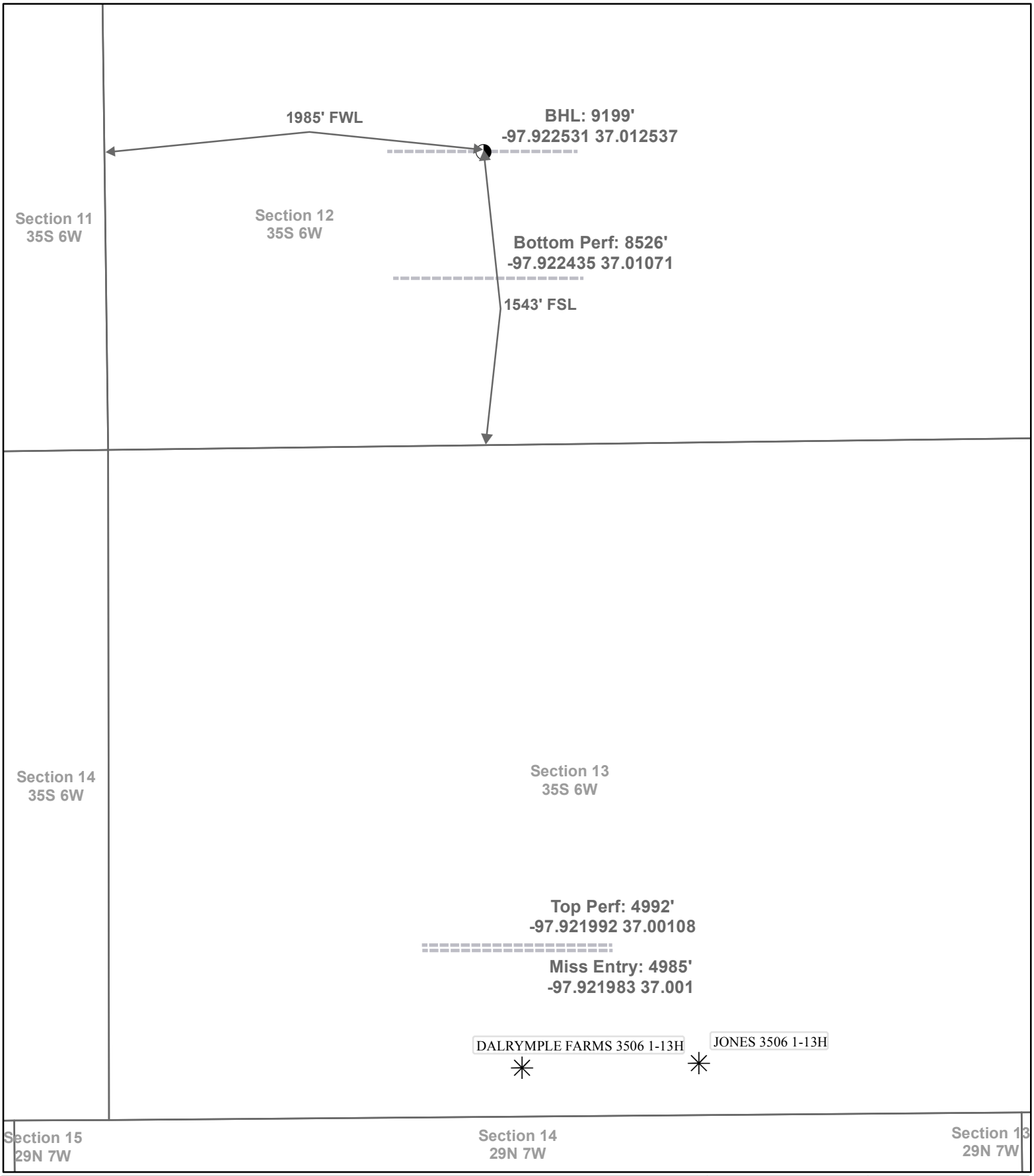
Survey

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)
7,996.0	92.70	357.40	4,716.6	3,611.3	-173.5	3,615.4	4.44	-3.44	2.81
8,059.0	90.30	357.70	4,714.9	3,674.2	-176.2	3,678.4	3.84	-3.81	0.48
8,122.0	91.30	359.10	4,714.1	3,737.1	-178.0	3,741.4	2.73	1.59	2.22
8,152.0	91.50	359.20	4,713.3	3,767.1	-178.4	3,771.4	0.75	0.67	0.33
8,184.0	88.30	358.30	4,713.4	3,799.1	-179.1	3,803.3	10.39	-10.00	-2.81
8,216.0	87.70	358.80	4,714.5	3,831.1	-179.9	3,835.3	2.44	-1.88	1.56
8,248.0	90.30	358.90	4,715.1	3,863.1	-180.6	3,867.3	8.13	8.13	0.31
8,279.0	91.50	359.20	4,714.6	3,894.1	-181.1	3,898.3	3.99	3.87	0.97
8,311.0	90.30	359.80	4,714.1	3,926.1	-181.3	3,930.2	4.19	-3.75	1.88
8,343.0	87.90	1.30	4,714.6	3,958.1	-181.0	3,962.2	8.84	-7.50	4.69
8,407.0	86.90	1.10	4,717.5	4,022.0	-179.7	4,026.0	1.59	-1.56	-0.31
8,438.0	88.30	1.40	4,718.8	4,052.9	-179.0	4,056.9	4.62	4.52	0.97
8,470.0	88.20	0.60	4,719.7	4,084.9	-178.5	4,088.8	2.52	-0.31	-2.50
8,501.0	87.60	0.30	4,720.9	4,115.9	-178.2	4,119.7	2.16	-1.94	-0.97
8,533.0	90.10	0.80	4,721.5	4,147.9	-177.9	4,151.6	7.97	7.81	1.56
8,565.0	91.10	0.00	4,721.2	4,179.9	-177.7	4,183.6	4.00	3.13	-2.50
8,596.0	89.90	0.00	4,720.9	4,210.9	-177.7	4,214.6	3.87	-3.87	0.00
8,628.0	87.10	359.90	4,721.8	4,242.9	-177.7	4,246.5	8.76	-8.75	-0.31
8,659.0	87.70	359.40	4,723.2	4,273.8	-177.9	4,277.4	2.52	1.94	-1.61
8,691.0	87.90	358.30	4,724.4	4,305.8	-178.6	4,309.4	3.49	0.63	-3.44
8,723.0	90.10	356.80	4,724.9	4,337.8	-179.9	4,341.4	8.32	6.88	-4.69
8,818.0	89.60	356.30	4,725.2	4,432.6	-185.6	4,436.4	0.74	-0.53	-0.53
8,913.0	90.40	355.80	4,725.2	4,527.4	-192.2	4,531.4	0.99	0.84	-0.53
9,008.0	89.80	356.70	4,725.0	4,622.2	-198.4	4,626.4	1.14	-0.63	0.95
9,103.0	91.90	357.70	4,723.6	4,717.0	-203.0	4,721.3	2.45	2.21	1.05
Last Archer MWD Survey									
9,198.7	91.90	357.70	4,720.4	4,812.6	-206.9	4,817.0	0.00	0.00	0.00
PBHL Dalrymple Farms 1-13H									
9,199.0	91.90	357.70	4,720.4	4,812.9	-206.9	4,817.3	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
232.0	232.0	0.4	-0.5	First Single Shot MWD Survey
487.0	487.0	1.1	-1.3	Last Single Shot MWD Survey
682.0	682.0	1.6	-1.8	First Archer MWD Survey
9,103.0	4,723.6	4,717.0	-203.0	Last Archer MWD Survey
9,199.0	4,720.4	4,812.9	-206.9	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Dalrymple Farms 3506 1-13H
Harper County, Kansas
T&R: 35S 6W
Section: 12, 1985' FWL & 1543' FSL
Long/Lat:- -97.922531 37.012537

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Aaron Birk	Draft Date: 4/9/2013
Drawing Name/Number: Addendum_Dalrymple_Farms_1-13H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	**2/11/2013**
State:	**KS**
County:	**Harper**
API Number:	**15-077-21900**
Operator Name:	**SandRidge Expl. and Prod., LLC**
Well Name and Number:	**Dalrymple Farms 3506 1-13H**
Longitude:	**-97.9215**
Latitude:	**36.9992**
Long/Lat Projection:	**NAD27**
Production Type:	**Oil**
True Vertical Depth (TVD):	**4,720**
Total Water Volume (gal)*:	**1,746,912**

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, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Biocide, Surfactant , Acid, Iron Control Agent, Propping Agent	Water (Including Mix Water Supplied by Client)*	-		94.89899%	
			Crystalline silica	14808-60-7	95.55488%	4.87426%	
			Hydrogen chloride	7647-01-0	3.04895%	0.15553%	
			Distillates (petroleum), hydrotreated light	64742-47-8	0.30090%	0.01535%	
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.25075%	0.01279%	
			Methanol	67-56-1	0.24330%	0.01241%	
			Ammonium chloride	12125-02-9	0.14418%	0.00735%	
			Alcohol, C11 linear, ethoxylated	34398-01-1	0.11573%	0.00590%	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.07716%	0.00394%	
			Glutaraldehyde	111-30-8	0.07364%	0.00376%	
			Trisodium ortho phosphate	7601-54-9	0.03055%	0.00156%	
			Ethoxylated oleic acid	9004-96-0	0.02508%	0.00128%	
			Sorbitan monooleate	1338-43-8	0.02194%	0.00112%	
			Sodium erythorbate	6381-77-7	0.02106%	0.00107%	
			Sorbitol Tetraoleate	61723-83-9	0.01567%	0.00080%	
			Alkyl(c12-16) dimethylbenzyl ammonium chloride	68424-85-1	0.01315%	0.00067%	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.01304%	0.00067%	
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.01291%	0.00066%	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.01291%	0.00066%	
			Ethane-1,2-diol	107-21-1	0.00869%	0.00044%	
			Fatty acids, tall-oil	61790-12-3	0.00815%	0.00042%	
			C14 alpha olefin ethoxylate	84133-50-6	0.00690%	0.00035%	

			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00670%	0.00034%	
			2-Propenoic acid, ammonium salt	10604-69-0	0.00627%	0.00032%	
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00312%	0.00016%	
			Prop-2-yn-1-ol	107-19-7	0.00208%	0.00011%	
			Ethanol	64-17-5	0.00158%	0.00008%	
			Alkenes, C>10 a-	64743-02-8	0.00139%	0.00007%	

* 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%

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

Remarks

Tiffany Golay 04/01/013 09:48 am	Conductor weight= 106.5 lbs/ft
Tiffany Golay 02/05/013 10:22 am	TVD= 4,720