Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1213585

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: Hanna Thornbert
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 #:

3/20/2014	4/7/2014	5/25/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-077-22006-01-00
Spot Description:
NW NW NE NE Sec. 33 Twp. 33 S. R. 6 ☐ East ☑ West
260 Feet from ☑ North / ☐ South Line of Section
1130 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: Charles 3306 Well #: 2-33H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1308 Kelly Bushing: 1324
Total Vertical Depth: 8870 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 694 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: 11000 ppm Fluid volume: 1550 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: SandRidge Exploration and Production, LLC
Lease Name: Oliver 3306 2-33H License #: 34192
Quarter SE Sec. 14 Twp. 33 S. R. 6 ☐ East ☑ West
County: Harper, KS Permit #: 15-077-22031-01-00

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: 07/17/2014
☑ **Confidential Release Date:** 07/16/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/17/2014

[redacted] 1213585

Operator Name: SandRidge Exploration and Production LLC Lease Name: Charles 3306 Well #: 2-33H

Sec. 33 Twp. 33 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:

Array Induction Gamma Ray Memory Log
Spectral Density Dual Spaced Neutron Memory Log

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

Name	Top	Datum
Base Heebner	3265	
Lansing	3647	
Cottage Grove	3915	
Oswego	4277	
Cherokee	4442	
Verdigris	4471	
Miss Unconformity	4848	

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
Conductor	24	20	75	90	Mid-Continent Conductor grout	10	none
Surface	12.25	9.63	36	694	Schlumberger Class C	350	2% CaCl2, .13 lb/sk LCM
Intermediate	8.75	7	26	5343	Schlumberger Class H	340	4% D020, 2 lb/sk D042, .6% D112, .4% D

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. 5/30/2014

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:

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Charles 3306 2-33H
Doc ID	1213585

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8508-8759	1500 gals 15% HCL Acid, 5565 bbls Fresh Slickwater, Running TLTR 6323 bbls	
5	8036-8404	1500 gals 15% HCL Acid, 5228 bbls Fresh Slickwater, Running TLTR 11551 bbls	
5	7630-7932	1500 gals 15% HCL Acid, 5424 bbls Fresh Slickwater, Running TLTR 17243 bbls	
5	7268-7552	1500 gals 15% HCL Acid, 5171 bbls Fresh Slickwater, Running TLTR 22414 bbls	
5	6893-7178	1500 gals 15% HCL Acid, 5076 bbls Fresh Slickwater, Running TLTR 27595 bbls	
5	6532-6783	1500 gals 15% HCL Acid, 5154 bbls Fresh Slickwater, Running TLTR 32809 bbls	
5	6080-6460	1500 gals 15% HCL Acid, 4625 bbls Fresh Slickwater, Running TLTR 37523 bbls	
5	5751-6017	1500 gals 15% HCL Acid, 4736 bbls Fresh Slickwater, Running TLTR 42325 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Charles 3306 2-33H
Doc ID	1213585

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5384-5630	1500 gals 15% HCL Acid, 4810 bbls Fresh Slickwater, Running TLTR 47192 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Charles 3306 2-33H
Doc ID	1213585

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	694	Schlumberger Class C	350	2% CaCl2, .13 lb/sk LCM
Intermediate	8.75	7	26	5343	Schlumberger Class H	340	4% D020, 2 lb/sk D042, .6% D112, .4% D-12, .1% D-37

Mid-Continent Conductor, LLC

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

Invoice

Date	Invoice #
3/21/2014	2529

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
Carl Miller	Net 30	3/21/2014	Charles 3306 2-33H, Harper Cnty, KS	Horizon 15

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

AFE Number: DC 13580
Well Name: Charles 3306 2-33 H
Code: 850.010
Amount: $17,750
Co. Man: Tim Mills
Co. Man Sig.: Tim Mills
Notes:

Subtotal	$17,750.00
Sales Tax (0.0%)	$0.00
Total	$17,750.00

Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
C1YQ-00573

Invoice Mailing Address:		Left District	Date: 25-Mar-2014	Time: 7:00 PM
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Arrive Location	Date: 25-Mar-2014	Time: 10:00 PM
		Start Job	Date: 26-Mar-2014	Time: 4:00 AM
123 ROBERT S. KERR AVENUE		Complete Job	Date: 26-Mar-2014	Time: 5:30 AM
		Leave Location	Date: 26-Mar-2014	Time: 6:30 AM
OKLAHOMA CITY	OK	Arrived District	Date: 26-Mar-2014	Time: 2:00 PM
73102-6406	United States	Service Description	Cementing Primary, Primary Surface	

Customer PO	Contract	Well Name & Number	Field
		CHARLES -3306- 2-33 H	STOHRVILLE
AFE	**Cust Ref**	**County / Parish / Block / Borough**	**State / Province**
DC13580		Harper	KS
Customer or Authorized Representative		**Schlumberger Location**	**Legal Location**
Jesse		El Reno, OK	
API / UWI	**Pricebook**		**Rig**
15077220060100	B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		HORIZON #15

Service Instructions:

Provide services, equipment, materials and personnel to safely cement 9 5/8" surface casing per client specifications. Pump 10 bbl water, 210 sks lead @ 12.40 ppg, 141 sks tail @ 14.80 ppg, drop top plug and displace per customer request.

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
56704095	Plug, Top Rubber Alum Core 9.625 in	1	EA	665.00	47.00%	352.45
D020	Bentonite Extender	1096	LB	0.50	47.00%	290.44
D035-CF	LITEPOZ 3 Extender	78	CF	9.20	47.00%	380.33
D130	Polyester Flake	45	LB	4.40	47.00%	104.94
D903	Cement, Class C	279	CF	22.95	47.00%	3,393.62
S001	Calcium Chloride 77pct concentration	365	LB	1.44	47.00%	278.57
D110	Retarder, Cement	5	GA	50.29	47.00%	133.27
				Products Subtotal:		**9,308.70**
				Discount:		**4,375.08**
				Products Total:		**4,933.62**
Services						
48019000	Bulk Unit, Per Hr on location	8	HR	115.00	47.00%	487.60
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	382	CF	2.43	47.00%	491.98
49102000	Transportation, Cement Ton-mile	1673	MI	2.16	47.00%	1,915.25
59200002	Transportation, Mileage Heavy Vehicles	100	MI	5.91	47.00%	313.23
59200005	Transportation, Mileage Light Vehicles	100	MI	3.47	47.00%	183.91
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	499.05
102871020	Pump, Casing Cement 0-2000 ft	1	EA	2,396.80	47.00%	1,270.30
102946000	Fuel Surcharge (non-discounted)	3	EA	450.00		1,350.00
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	1,123.50
107264001	Regulatory Conformance Charge	3	EA	364.87		1,094.61
				Services Subtotal:		**14,237.35**
				Discount:		**5,213.03**
				Services Total:		**9,024.32**

Total (Before Discount):	**23,546.05**		
Discount:	**9,588.11**		
Special Discount:	**0.00**	**Estimated Total (USD):**	**13,957.94**

This document is Confidential and intended for authorized users only

Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
C1YQ-00573

Invoice Mailing Address:				
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Left District	Date: 25-Mar-2014	Time: 7:00 PM
		Arrive Location	Date: 25-Mar-2014	Time: 10:00 PM
		Start Job	Date: 26-Mar-2014	Time: 4:00 AM
123 ROBERT S. KERR AVENUE		Complete Job	Date: 26-Mar-2014	Time: 5:30 AM
		Leave Location	Date: 26-Mar-2014	Time: 6:30 AM
OKLAHOMA CITY	OK	Arrived District	Date: 26-Mar-2014	Time: 2:00 PM
73102-6406	United States	Service Description	Cementing Primary, Primary Surface	

Customer PO	Contract	Well Name & Number	Field
		CHARLES -3306- 2-33 H	STOHRVILLE
AFE	**Cust Ref**	**County / Parish / Block / Borough**	**State / Province**
DC13580		Harper	KS
Customer or Authorized Representative		**Schlumberger Location**	**Legal Location**
Jesse		El Reno, OK	
API / UWI	**Pricebook**		**Rig**
15077220060100	B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		HORIZON #15

Service Instructions:

Provide services, equipment, materials and personnel to safely cement 9 5/8" surface casing per client specifications. Pump 10 bbl water, 210 sks lead @ 12.40 ppg, 141 sks tail @ 14.80 ppg, drop top plug and displace per customer request.

Estimated Total (USD): 13,957.94

THE ESTIMATED CHARGES AND DATA SHOWN ABOVE ARE SUBJECT TO CORRECTION BY SCHLUMBERGER.

Validity unknown
Signed by Jesse
3/26/2014
05:38:30

THE SERVICES AND/OR PRODUCTS PROVIDED BY THIS SERVICE CONTRACT RECEIPT HAVE BEEN PERFORMED

Signature of Customer or Authorized Representative:

Jesse — Date

Signature of Schlumberger Representative:

Validity unknown
Signed by Kennith Statton
3/26/2014
05:33:08

Kennith Statton — Date

This document is Confidential and intended for authorized users only

Original

Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number C1WQ-00586

Left District	Date: 01-Jan-0001	Time: 12:00 AM	
Arrive Location	Date: 01-Jan-0001	Time: 12:00 AM	
Start Job	Date: 04-Apr-2014	Time: 12:00 AM	
Complete Job	Date: 04-Apr-2014	Time: 6:00 AM	
Leave Location	Date: 01-Jan-0001	Time: 12:00 AM	
Arrived District	Date: 01-Jan-0001	Time: 12:00 AM	
Service Description	Cementing Primary, Primary Intermediate		

Invoice Mailing Address:
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)

123 ROBERT S. KERR AVENUE

OKLAHOMA CITY, OK
73102-6406, United States

Customer PO	**Contract**	**Well Name & Number**: CHARLES -3306- 2-33 H	**Field**: STOHRVILLE
AFE: DC 13580	**Cust Ref**	**County / Parish / Block / Borough**: Harper	**State / Province**: KS
Customer or Authorized Representative: Tim Mills		**Schlumberger Location**: El Reno, OK	**Legal Location**
API / UWI: 15077220060100	**Pricebook**: B0J8 / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		**Rig**: HORIZON #15

Service Instructions:

Provide services, equipment, materials and personnel to safely cement 7" intermediate casing per customer specifications. Pump 30 bbl B306 gelled spacer, 240 sks 50:50 Poz:H @ 13.60 ppg, 100 sks Class H @ 15.60 ppg, drop top plug and displace per customer request.

Water Sample: 013445, 013913, 013193
Cement Sample: 013437, 013446, 013487, 013434, 013421, 013763

THE ESTIMATED CHARGES AND DATA SHOWN BELOW ARE SUBJECT TO CORRECTION BY SCHLUMBERGER

Item	Description	Quantity	UOM	Price	Discount	Amount
Products						
56704070	Plug, Top Rubber Alum Core 7 in	1	EA	400.00	47.00%	212.00
D013	Retarder	79	LB	2.79	47.00%	116.82
D020	Bentonite Extender	806	LB	0.50	47.00%	213.59
D035-CF	LITEPOZ 3 Extender	120	CF	9.20	47.00%	585.12
D042	KOLITE Lost Circulation Additive	480	LB	0.99	47.00%	251.86
D065	TIC Dispersant	20	LB	7.86	47.00%	83.32
D079	Chemical Extender	40	LB	3.05	47.00%	64.66
D112	FLAC Fluid Loss Additive	120	LB	15.20	47.00%	966.72
D909	Cement, Class H	221	CF	24.13	47.00%	2,826.35
J916ND	J916ND Non-diesel CMHPG Slurry	6	GA	110.60	47.00%	351.71
				Products Subtotal:		**10,702.14**
				Discount:		**5,029.99**
				Products Total:		**5,672.15**
Services						
48019000	Bulk Unit, Per Hr on location	16	HR	115.00	47.00%	975.20
48020000	Pump, Cement Add Hr	4	HR	609.90	47.00%	1,292.99
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	364	CF	2.43	47.00%	468.80
49102000	Transportation, Cement Ton-mile	2120	MI	2.16	47.00%	2,426.98
59200002	Transportation, Mileage Heavy Vehicles	320	MI	5.91	47.00%	1,002.34
59200005	Transportation, Mileage Light Vehicles	320	MI	3.47	47.00%	588.51
59697004	CemCAT Monitoring System	1	JOB	941.60	47.00%	499.05
102871055	Pump, Casing Cement 5001-5500 ft	1	EA	3,531.00	47.00%	1,871.43
102946000	Fuel Surcharge (non-discounted)	3	EA	450.00		1,350.00
107138100	Circulating Equipment before job	1	EA	1,498.00	25.00%	1,123.50
107264001	Regulatory Conformance Charge	3	EA	364.87		1,094.61
				Services Subtotal:		**21,716.53**
				Discount:		**8,728.23**
				Services Total:		**12,988.30**

Total (Before Discount):	**32,418.67**		
Discount:	**13,758.22**		
Special Discount:	**0.00**	**Estimated Total (USD):**	**18,660.45**

This document is Confidential and intended for authorized users only

Schlumberger

Service Contract Receipt

SCHLUMBERGER TECHNOLOGY CORPORATION

Service Contract Number
C1YQ-00586

Invoice Mailing Address:				
SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Left District	Date: 01-Jan-0001	Time: 12:00 AM
		Arrive Location	Date: 01-Jan-0001	Time: 12:00 AM
		Start Job	Date: 04-Apr-2014	Time: 12:00 AM
123 ROBERT S. KERR AVENUE		Complete Job	Date: 04-Apr-2014	Time: 6:00 AM
		Leave Location	Date: 01-Jan-0001	Time: 12:00 AM
OKLAHOMA CITY	OK	Arrived District	Date: 01-Jan-0001	Time: 12:00 AM
73102-6406	United States	Service Description	Cementing Primary, Primary Intermediate	

Customer PO	Contract	Well Name & Number	Field
		CHARLES -3306- 2-33 H	STOHRVILLE
AFE	**Cust Ref**	**County / Parish / Block / Borough**	**State / Province**
DC 13580		Harper	KS
Customer or Authorized Representative		**Schlumberger Location**	**Legal Location**
Tim Mills		El Reno, OK	
API / UWI	**Pricebook**		**Rig**
15077220060100	B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_		HORIZON #15

Service Instructions:

Provide services, equipment, materials and personnel to safely cement 7" intermediate casing per customer specifications. Pump 30 bbl B306 gelled spacer, 240 sks 50:50 Poz:H @ 13.60 ppg, 100 sks Class H @ 15.60 ppg, drop top plug and displace per customer request.

Water Sample: 013445, 013913, 013193
Cement Sample: 013437, 013446, 013487, 013434, 013421, 013763

AFE Number: DC 13580
Well Name: Charles 3306 2-33H
Code: 830.370
Amount: $18660.45
Co. Man: Tim Mills
Co. Man Sig.: Tim Mills
Notes:

Estimated Total (USD): 18,660.45

THE ESTIMATED CHARGES AND DATA SHOWN ABOVE ARE SUBJECT TO CORRECTION BY SCHLUMBERGER.

THE SERVICES, EQUIPMENT, MATERIALS AND/OR PRODUCTS PROVIDED BY THIS SERVICE CONTRACT RECEIPT HAVE BEEN PERFORMED OR RECEIVED AS SET FORTH ABOVE.

Signature of Customer or Authorized Representative:
Validity unknown
Signed by Tim Mills 4/4/2014 03:48:08
Tim Mills — Date

Signature of Schlumberger Representative:
Validity unknown
Signed by Dustin Green 4/4/2014 03:43:50
Dustin Green — Date

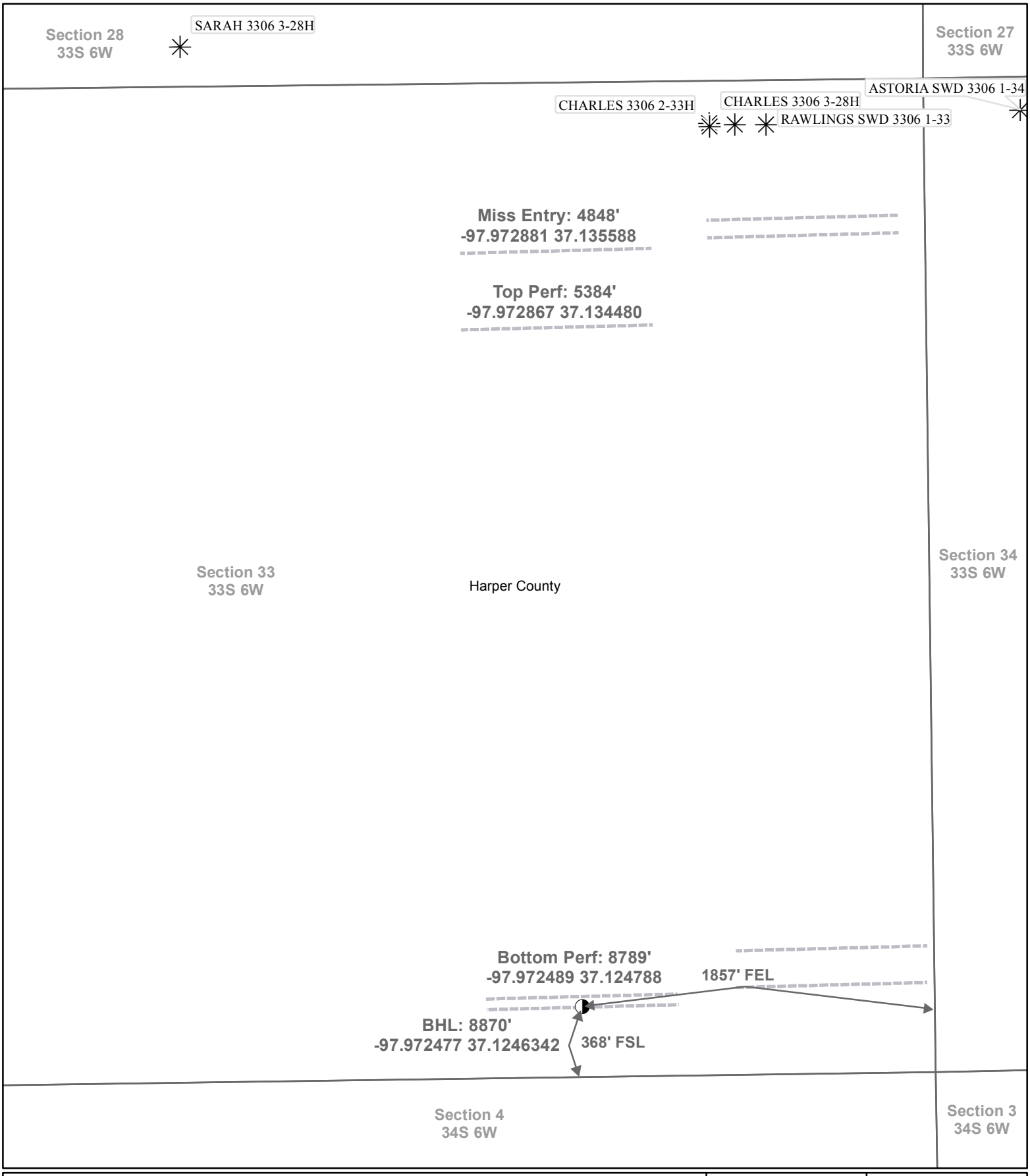
This document is Confidential and intended for authorized users only

Directional Survey Calculations	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	260	4997	4168	1129
BHL	8870	88.00	177.50	4558.82	-4670.04	-787.05	4735.89	0.00	4919	340	3323	1973
Miss Entry	4848	74.19	180.39	4489.48	-652.77	-820.16	780.76	5.58	901	4357	3339	1957
Top Perf	4890	77.97	180.70	4499.65	-693.50	-820.58	820.99	9.54	942	4317	3338	1958
Bottom Perf	8870	88.00	177.50	4558.82	-4670.04	-787.05	4735.89	0.00	4919	340	3323	1973

Survey Points		X	Y		X	Y		m
	NW Corner XY Coord	2150408	172026				North Line slope	0.0147281
	SW Corner XY Coord	2150473	166766	Surface XY	2154578	171827	East Line slope	-0.0121766
	NE Corner XY Coord	2155704	172104				South Line slope	0.0154863
	SE Corner XY Coord	2155768	166848				West Line slope	-0.0123574

	Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
	0	0.0	0	0	0	0	0	0	260	4997	4168	1129
	100	0.44	38.21	100.00	0.3	0.2	-0.34	0.44	260	4998	4168	1129
	200	0.43	33.37	200.00	0.9	0.7	-1.02	0.04	260	4998	4168	1129
	300	0.54	32.04	299.99	1.6	1.1	-1.80	0.11	259	4999	4169	1128
	400	0.52	43.02	399.99	2.4	1.7	-2.61	0.10	258	5000	4169	1128
	500	0.66	37.25	499.98	3.2	2.4	-3.50	0.15	257	5001	4170	1127
	600	0.97	38.36	599.97	4.3	3.2	-4.75	0.31	256	5002	4171	1126
	700	0.92	40.80	699.96	5.5	4.3	-6.18	0.06	255	5003	4172	1125
	800	0.72	54.64	799.95	6.5	5.3	-7.31	0.28	254	5004	4173	1124
	900	0.70	38.55	899.94	7.4	6.2	-8.29	0.20	253	5005	4174	1123
	1000	0.99	317.01	999.93	8.5	6.0	-9.35	1.13	252	5006	4174	1123
	1100	3.05	292.61	1099.87	10.1	3.0	-10.47	2.19	250	5008	4171	1126
	1200	5.05	276.70	1199.62	11.7	-3.9	-10.85	2.28	249	5009	4164	1133
	1300	6.90	268.91	1299.07	12.1	-14.3	-9.50	2.02	248	5010	4153	1143
	1400	8.83	262.02	1398.13	10.9	-27.9	-6.06	2.14	249	5009	4140	1157
	1500	10.35	255.96	1496.73	7.6	-44.2	-0.14	1.82	252	5006	4123	1173
	1600	11.90	255.49	1594.85	2.9	-62.9	7.69	1.55	257	5001	4105	1192
	1700	12.90	259.75	1692.51	-1.7	-83.8	15.70	1.35	261	4997	4084	1213
	1800	14.12	258.77	1789.75	-6.1	-106.8	23.84	1.24	265	4993	4061	1236
	1900	15.88	262.41	1886.34	-10.2	-132.3	32.23	2.00	269	4989	4035	1262
	2000	15.09	259.98	1982.71	-14.3	-158.7	40.66	1.02	272	4986	4009	1288
	2100	16.08	258.56	2079.03	-19.3	-185.1	50.02	1.06	277	4981	3982	1315
	2200	16.50	259.62	2175.01	-24.6	-212.6	59.85	0.51	282	4976	3955	1342
	2300	14.17	255.34	2271.45	-30.3	-238.4	69.75	2.59	287	4971	3929	1368
	2400	13.49	255.28	2368.55	-36.4	-261.6	79.59	0.68	293	4965	3906	1391
	2500	14.72	259.16	2465.54	-41.7	-285.3	88.85	1.55	298	4960	3882	1415
	2600	16.29	260.81	2561.89	-46.3	-311.7	97.81	1.63	302	4956	3855	1442
	2700	17.41	260.03	2657.60	-51.2	-340.2	107.36	1.14	307	4952	3827	1470
	2800	15.77	257.68	2753.44	-56.7	-368.2	117.45	1.77	312	4946	3799	1498
	2900	13.32	254.80	2850.22	-62.6	-392.6	127.37	2.55	317	4941	3774	1523
	3000	13.84	256.18	2947.43	-68.5	-415.4	136.97	0.61	323	4935	3751	1546
	3100	14.89	256.00	3044.30	-74.4	-439.5	146.88	1.05	328	4930	3727	1570
	3200	15.60	254.23	3140.78	-81.2	-464.9	157.80	0.85	335	4923	3702	1595
Top of Tangent	3300	16.65	252.87	3236.85	-89.1	-491.5	170.01	1.12	342	4916	3675	1622
@ 5040'	3400	14.44	249.94	3333.18	-97.6	-516.9	182.64	2.34	350	4908	3649	1647
	3500	12.29	258.14	3430.48	-104.0	-539.0	192.72	2.86	356	4902	3627	1670
	3510	12.60	258.80	3440.24	-104.4	-541.1	193.49	3.41	357	4901	3625	1672
	3603	14.90	265.30	3530.58	-107.4	-563.0	200.06	2.98	360	4899	3603	1694
Btm of Tangent	3698	16.30	265.80	3622.08	-109.4	-588.5	206.27	1.48	361	4897	3578	1719
@ 5373'	3793	14.60	263.60	3713.64	-111.7	-613.7	212.76	1.89	363	4895	3552	1744
	3887	15.20	259.50	3804.48	-115.3	-637.6	220.28	1.29	366	4892	3529	1768
	3919	15.00	257.90	3835.38	-116.9	-645.7	223.25	1.44	368	4891	3520	1777
	3951	15.40	252.80	3866.26	-119.0	-653.9	226.70	4.36	370	4889	3512	1785
	3982	16.60	245.70	3896.06	-122.1	-661.8	231.03	7.40	373	4886	3504	1793
	4014	18.40	239.30	3926.58	-126.5	-670.3	236.86	8.23	377	4881	3496	1801
	4045	20.20	232.70	3955.84	-132.3	-678.8	243.93	9.11	383	4876	3487	1810
	4076	22.20	227.10	3984.74	-139.5	-687.3	252.49	9.17	390	4869	3478	1818
	4108	24.20	223.30	4014.16	-148.4	-696.3	262.75	7.80	399	4860	3469	1827
	4140	26.20	222.10	4043.11	-158.4	-705.5	274.17	6.45	408	4850	3460	1837
	4171	28.30	221.00	4070.67	-169.0	-714.9	286.22	6.97	419	4839	3451	1846
	4203	30.50	219.70	4098.55	-181.0	-725.1	299.73	7.16	431	4828	3440	1857
	4235	32.50	217.70	4125.83	-194.0	-735.5	314.34	7.05	444	4815	3430	1867
	4266	34.40	214.90	4151.70	-207.8	-745.6	329.61	7.89	457	4801	3419	1878
	4298	36.30	211.10	4177.80	-223.3	-755.7	346.60	9.08	473	4786	3409	1888
	4329	38.80	208.20	4202.38	-239.8	-765.0	364.35	9.87	489	4770	3400	1897
	4361	40.80	205.40	4226.96	-258.0	-774.3	383.92	8.39	507	4751	3390	1907
	4392	43.20	202.20	4250.00	-277.0	-782.6	404.03	10.37	526	4733	3382	1915
	4424	45.30	199.50	4272.92	-297.9	-790.6	425.93	8.82	547	4712	3373	1924
	4456	47.10	196.30	4295.07	-319.9	-797.6	448.78	9.15	569	4690	3366	1931
	4487	49.40	193.90	4315.72	-342.2	-803.7	471.80	9.40	591	4668	3360	1937
	4519	51.00	191.60	4336.20	-366.2	-809.1	496.34	7.45	615	4644	3354	1943
	4550	51.80	189.40	4355.54	-390.0	-813.5	520.56	6.12	638	4620	3349	1948
	4582	52.40	186.30	4375.20	-415.0	-816.9	545.80	7.87	663	4595	3345	1951
	4614	54.30	184.40	4394.30	-440.6	-819.3	571.40	7.61	689	4570	3343	1954
	4645	57.30	182.80	4411.73	-466.1	-820.9	596.89	10.58	714	4544	3341	1956

Measured Depth (ft)	Sub-Sea Incl. (deg)	Vertical Azim. (ft)	True Vert Depth (ft)	Northings (+) Southings (-) (ft)	Eastings (+) Westings (-) (ft)	Vert Section (ft)	DLS deg/100' (deg)	FNL	FSL	FWL	FEL
4678	61.10	181.20	4428.62	-494.5	-821.9	624.98	12.24	743	4516	3340	1957
4709	64.90	179.70	4442.69	-522.1	-822.1	652.24	12.99	770	4488	3339	1958
4741	67.70	178.40	4455.56	-551.4	-821.6	681.04	9.51	800	4459	3339	1958
4773	70.50	178.60	4466.97	-581.3	-820.8	710.36	8.77	830	4429	3340	1957
4804	72.40	179.10	4476.83	-610.6	-820.3	739.23	6.32	859	4399	3340	1957
4836	73.30	180.20	4486.27	-641.2	-820.1	769.35	4.32	890	4369	3340	1957
4867	75.60	180.70	4494.58	-671.1	-820.3	798.83	7.58	919	4339	3339	1958
4899	78.90	180.70	4501.64	-702.3	-820.7	829.66	10.31	951	4308	3338	1959
4931	81.50	180.70	4507.08	-733.8	-821.1	860.81	8.12	982	4276	3337	1959
4962	82.40	181.00	4511.43	-764.5	-821.5	891.14	3.06	1013	4246	3337	1960
4994	84.10	180.70	4515.19	-796.3	-822.0	922.55	5.39	1045	4214	3336	1961
5026	85.50	180.60	4518.09	-828.1	-822.4	954.02	4.39	1076	4182	3335	1962
5057	86.30	180.50	4520.30	-859.1	-822.7	984.56	2.60	1107	4151	3334	1962
5089	87.00	180.70	4522.17	-891.0	-823.0	1016.10	2.27	1139	4119	3334	1963
5120	87.20	180.50	4523.74	-922.0	-823.3	1046.68	0.91	1170	4088	3333	1964
5152	87.40	180.50	4525.25	-953.9	-823.6	1078.24	0.63	1202	4056	3332	1965
5184	87.60	180.60	4526.65	-985.9	-823.9	1109.81	0.70	1234	4024	3331	1965
5215	87.70	180.40	4527.92	-1016.9	-824.2	1140.39	0.72	1265	3993	3331	1966
5247	88.20	180.70	4529.06	-1048.8	-824.5	1171.97	1.82	1297	3961	3330	1967
5278	88.30	180.70	4530.01	-1079.8	-824.9	1202.58	0.32	1328	3930	3329	1967
5309	88.50	180.80	4530.87	-1110.8	-825.3	1233.20	0.72	1359	3899	3329	1968
5404	89.40	180.60	4532.61	-1205.8	-826.4	1327.03	0.97	1454	3804	3326	1970
5499	89.40	178.60	4533.61	-1300.8	-825.8	1420.57	2.11	1549	3709	3326	1971
5594	89.60	179.10	4534.44	-1395.7	-823.9	1513.89	0.57	1644	3614	3326	1970
5689	90.00	180.90	4534.77	-1490.7	-823.9	1607.54	1.94	1739	3519	3325	1971
5783	90.60	180.50	4534.28	-1584.7	-825.0	1700.40	0.77	1833	3425	3323	1974
5878	90.80	181.20	4533.12	-1679.7	-826.4	1794.28	0.77	1928	3331	3320	1976
5974	90.10	181.10	4532.36	-1775.7	-828.3	1889.23	0.74	2024	3235	3317	1979
6068	90.90	182.00	4531.54	-1869.7	-830.9	1982.29	1.28	2118	3141	3314	1983
6163	90.60	181.70	4530.30	-1964.6	-833.9	2076.41	0.45	2213	3046	3309	1987
6258	90.10	180.20	4529.72	-2059.6	-835.5	2170.32	1.66	2308	2951	3307	1990
6351	87.00	178.30	4532.07	-2152.5	-834.3	2261.75	3.91	2401	2858	3307	1990
6445	87.00	178.60	4536.99	-2246.4	-831.8	2353.84	0.32	2495	2764	3308	1988
6540	86.90	178.10	4542.05	-2341.2	-829.0	2446.87	0.54	2589	2669	3310	1987
6635	88.70	177.80	4545.69	-2436.1	-825.6	2539.83	1.92	2684	2574	3312	1985
6729	88.80	177.50	4547.74	-2529.9	-821.8	2631.76	0.34	2778	2480	3314	1982
6824	89.50	177.70	4549.15	-2624.9	-817.8	2724.67	0.77	2873	2385	3317	1979
6919	89.40	177.40	4550.06	-2719.8	-813.7	2817.56	0.33	2968	2290	3320	1976
7014	88.60	178.60	4551.72	-2814.7	-810.4	2910.59	1.52	3063	2195	3322	1974
7109	88.20	178.20	4554.38	-2909.6	-807.8	3003.74	0.60	3158	2100	3324	1973
7203	89.00	178.80	4556.67	-3003.6	-805.3	3095.94	1.06	3252	2006	3325	1971
7298	91.60	179.80	4556.17	-3098.5	-804.2	3189.39	2.93	3347	1911	3325	1971
7393	92.30	180.00	4552.94	-3193.5	-804.0	3282.97	0.77	3442	1816	3324	1972
7487	90.20	179.70	4550.89	-3287.5	-803.7	3375.58	2.26	3536	1722	3323	1973
7582	90.90	179.30	4549.98	-3382.4	-802.9	3469.09	0.85	3631	1627	3323	1973
7678	89.50	179.50	4549.64	-3478.4	-801.9	3563.56	1.47	3727	1531	3323	1974
7773	89.60	180.00	4550.39	-3573.4	-801.5	3657.15	0.54	3822	1436	3322	1974
7868	88.70	180.10	4551.80	-3668.4	-801.6	3750.82	0.95	3917	1341	3321	1976
7962	88.40	180.00	4554.18	-3762.4	-801.7	3843.47	0.34	4011	1247	3319	1977
8057	88.80	180.50	4556.50	-3857.4	-802.1	3937.18	0.67	4106	1152	3318	1978
8151	89.40	180.50	4557.98	-3951.3	-802.9	4029.97	0.64	4200	1059	3316	1980
8246	90.70	179.30	4557.89	-4046.3	-802.7	4123.60	1.86	4295	964	3315	1981
8340	90.10	178.60	4557.24	-4140.3	-801.0	4215.97	0.98	4389	870	3315	1981
8435	90.50	179.30	4556.74	-4235.3	-799.3	4309.33	0.85	4484	775	3316	1980
8529	90.50	178.60	4555.92	-4329.3	-797.5	4401.69	0.74	4578	680	3316	1980
8624	90.80	178.70	4554.84	-4424.2	-795.3	4494.95	0.33	4673	585	3318	1979
8718	89.40	178.40	4554.68	-4518.2	-792.9	4587.19	1.52	4767	491	3319	1977
8813	88.00	177.50	4556.83	-4613.1	-789.5	4680.20	1.75	4862	397	3321	1975
8870	88.00	177.50	4558.82	-4670.0	-787.0	4735.89	0.00	4919	340	3323	1973



SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

Actual Bottom-Hole Location of Charles 3306 2-33H
T&R: 33S 6W
Section: 33, 1857' FEL & 368' FSL
-97.972477 37.1246342

1 in = 667 ft

0 500 1,000 2,000 Feet

N

Draftsman: Naomi Martinez	Draft Date: 7/10/2014
Drawing Name/Number: Addendum_Charles 3306 2-33H.mxd	
Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/17/2014
Job End Date:	5/18/2014
State:	Kansas
County:	Harper
API Number:	15-077-22006-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Charles 3306 2-33H
Longitude:	-97.96970000
Latitude:	37.13730000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,557
Total Base Water Volume (gal):	1,928,220
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	94.36885	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	4.14282	None
DiKlor	Sabre Energy Services	Oxidizer					
			Chlorine Dioxide	10069-04-4	0.40000	0.28568	
			Water	7732-18-5	99.90000	0.28568	
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.11783	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00460	None
			Methyl Alcohol	67-56-1	80.00000	0.00097	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00018	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00217	None
			Citric Acid	77-92-9	30.00000	0.00130	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00081	None

			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00008	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
		Other Chemicals					
			Water	7732-18-5		0.04122	
			WATER	7732-18-5		0.02758	
			Anionic Polymer	N/A		0.02061	
			Aliphatic Hydrocarbon	64742-47-8		0.02061	
			TRADE SECRET	N/A		0.01839	
			Water	7732-18-5		0.00939	
			METHANOL	67-56-1		0.00460	
			ISOPROPANOL	67-63-0		0.00460	
			Oxyalkylated Alcohol	68002-97-1		0.00344	
			Polyol Ester	N/A		0.00344	
			Acrylic Polymer	28205-96-1		0.00156	
			Sodium Salt of Phosphate Ester	68131-72-6		0.00156	
			Water	7732-18-5		0.00152	
			Polyglycol Ester	N/A		0.00069	
			Alcohol Ethoxylate Surfactants	N/A		0.00018	
			n-olefins	N/A		0.00010	
			Propargyl Alcohol	107-19-7		0.00007	
			Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007	
			Acetic Acid	64-19-7			
			Water	7732-18-5			
			Surfactant	N/A			
			Cinnamic Aldehyde	104-55-2			
			Buffer	N/A			

* 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)