



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1213666  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1213666

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Charles 3306 3-28H
Doc ID	1213666

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8378-8690	1500 gals 15% HCL Acid, 5283 bbls Fresh Slickwater, Running TLTR 8456	
5	8032-8320	1500 gals 15% HCL Acid, 5273 bbls Fresh Slickwater, Running TLTR 13912	
5	7575-7868	1500 gals 15% HCL Acid, 5268 bbls Fresh Slickwater, Running TLTR 19331	
5	7186-7501	1500 gals 15% HCL Acid, 4910 bbls Fresh Slickwater, Running TLTR 24398	
5	6797-7116	1500 gals 15% HCL Acid, 4876 bbls Fresh Slickwater, Running TLTR 29415	
5	6402-6728	1500 gals 15% HCL Acid, 5081 bbls Fresh Slickwater, Running TLTR 34656	
5	5952-6320	1500 gals 15% HCL Acid, 4789 bbls Fresh Slickwater, Running TLTR 39539	
5	5540-5846	1500 gals 15% HCL Acid, 5919 bbls Fresh Slickwater, Running TLTR 45529	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Charles 3306 3-28H
Doc ID	1213666

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5219-5495	1500 gals 15% HCL Acid, 4904 bbls Fresh Slickwater, Running TLTR 50487	
5	4933-5068	1500 gals 15% HCL Acid, 4086 bbls Fresh Slickwater, Running TLTR 54573	



# Mid-Continent Conductor, LLC

# Invoice

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

Date	Invoice #
3/20/2014	2525

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	3/20/2014	Charles 3306 3-28H, 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.
16" Pipe	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: \_\_\_\_\_  
 Well Name: Charles 3306 3-28H  
 Code: 850.010  
 Amount: \$17,750  
 Co. Man: Tim Miller  
 Co. Man Sig.: Jim Mills  
 Notes: \_\_\_\_\_

<b>Subtotal</b>	\$17,750.00
<b>Sales Tax (0.0%)</b>	\$0.00
<b>Total</b>	<b>\$17,750.00</b>



**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

*Original*

Service Contract Number  
**CXIR-00030**

Invoice Mailing Address: OAKRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Left District	Date: 11-Apr-2014	Time: 12:00 PM
123 ROBERT S. KERR AVENUE		Arrive Location	Date: 11-Apr-2014	Time: 3:30 PM
OKLAHOMA CITY		Start Job	Date: 11-Apr-2014	Time: 4:30 PM
73102-6406		Complete Job	Date: 11-Apr-2014	Time: 5:30 PM
Customer PO	OK United States	Leave Location	Date: 11-Apr-2014	Time: 6:30 PM
AFE	Contract	Arrived District	Date: 11-Apr-2014	Time: 9:30 PM
Customer or Authorized Representative	Cust Ref	Service Description Cementing Primary, Primary Conductor		
Todd Grant		Well Name & Number	Field	
API / UWI	Pricebook	CHARLES -3306- 3-28 H	STOHRVILLE	
40077220140100	DOJO / WOV_GEOREF_UOI_2011_UoD_Pressure_Pumping_U6	County / Parish / Block / Borough	State / Province	
Service Instructions: Safely cement a 9 5/8" Surface casing. On location at 15:30 hrs ready to pump at 16:15hrs		Harper	KS	
		Schlumberger Location	Legal Location	
		EI Reno, OK		
			Rig	HORIZON #15

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

Item	Description	Quantity	UoF1	Price	Discount	Amount
<b>Products</b>						
56702095	Plug, Cementing Top Plastic 9.625 In	1	EA	500.00	47.00%	265.00
D020	Bentonite Extender	1096	LB	0.50	47.00%	290.44
D035-CF	LITEPOZ 3 Extender	73	CF	9.20	47.00%	355.95
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
<b>Products Subtotal:</b>						<b>9,097.70</b>
<b>Discount:</b>						<b>4,275.91</b>
<b>Products Total:</b>						<b>4,821.79</b>
<b>Services</b>						
48019000	Bulk Unit, Per Hr on location	4	HR	115.00	47.00%	243.80
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	756	CF	2.43	47.00%	973.65
49102000	Transportation, Cement Ton-mile	1230	MI	2.16	47.00%	1,408.10
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
<b>Services Subtotal:</b>						<b>13,729.29</b>
<b>Discount:</b>						<b>4,974.25</b>
<b>Services Total:</b>						<b>8,755.04</b>

<b>Total (Before Discount):</b>	<b>22,826.99</b>	<b>Estimated Total (USD):</b>	<b>13,576.83</b>
<b>Discount:</b>	<b>9,250.16</b>		
<b>Special Discount:</b>	<b>0.00</b>		





**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

Service Contract Number  
**CXIR-00030**

Invoice Mailing Address: DANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)		Left District	Date: 11-Apr-2014	Time: 12:00 PM
123 ROBERT S. KERR AVENUE		Arrive Location	Date: 11-Apr-2014	Time: 3:30 PM
OKLAHOMA CITY		Start Job	Date: 11-Apr-2014	Time: 4:30 PM
73102-6406		Complete Job	Date: 11-Apr-2014	Time: 5:30 PM
Customer PO	Contract	Leave Location	Date: 11-Apr-2014	Time: 6:30 PM
AFE	Cust Ref	Arrived District	Date: 11-Apr-2014	Time: 9:30 PM
Customer or Authorized Representative Todd Grant		Service Description: Cementing Primary, Primary Conductor		
API / UWI	Pricebook	Well Name & Number	Field	
15077220110100	E0J6 / W6V_GEOREF_U0L_2011_U8D_Pressure_Pumping_US_	CHARLES -3306- 3-28 H	STOHRVILLE	
Service Instructions: Safely cement a 9 5/8" Surface casing, On location at 15:30 hrs ready to pump at 16:15hrs		County / Parish / Block / Borough	State / Province	
		Harper	KS	
		Schlumberger Location	Legal Location	
		EI Reno, OK		
			Rig	
			HORIZON #15	

AFE Number: 13658  
 Well Name: Charles 3306 3-28H  
 Code: 830-360  
 Amount: \$13,576.83  
 Co. Man: Cody Davis  
 Co. Man Sig.: Cody Davis  
 Notes: \_\_\_\_\_

Estimated Total (USD): **13,576.83**

**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:		Signature of Schlumberger Representative:	
Validity unknown		Validity unknown	
Signed by Todd Grant		Signed by Charles Jacobs	
4/11/2014		4/11/2014	
18:12:31		18:10:04	
Todd Grant	Date	Charles Jacobs	Date





**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

*Original*

Service Contract Number  
**CXIR-00031**

Invoice Mailing Address: SANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)	Left District	Date: 23-Apr-2014	Time: 9:00 AM
	Arrive Location	Date: 23-Apr-2014	Time: 11:00 AM
123 ROBERT S. KERR AVENUE	Start Job	Date: 23-Apr-2014	Time: 2:16 PM
	Complete Job	Date: 23-Apr-2014	Time: 3:47 PM
OKLAHOMA CITY 73102-6406	Leave Location	Date: 23-Apr-2014	Time: 5:00 PM
	Arrived District	Date: 23-Apr-2014	Time: 6:00 PM
Customer PO	Contract	Service Description: Cementing Primary, Primary Conductor	
AFE	Cust Ref	Well Name & Number CHARLES -3306- 3-28 H	Field STOHRVILLE
Customer or Authorized Representative Tim Mills		County / Parish / Block / Borough Harper	State / Province KS
API / UWI 15077220110100	Pricebook B0JS / WSV_GEOREF_USL_2011_USD_Pressure_Pumping_US_	Schlumberger Location El Reno, OK	Legal Location
Service Instructions: Provide services, equipment, equipment and materials to safely cement 7" Intermediate casing per client specifications. Pump 30 bbl gelled spacer, 220 sks 50:50 Poz:H @ 13.60 ppg, 100 sks Class H @ 15.60 ppg, drop top plug and displace per customer request.			Rig Horizon 15

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

Item	Description	Quantity	UOM	Price	Discount	Amount
<b>Products</b>						
56702070	Plug, Cementing Top Plastic 7 in	1	EA	302.00	47.00%	160.06
D013	Retarder	50	LB	2.79	47.00%	73.93
D020	Bentonite Extender	739	LB	0.50	47.00%	195.83
D035-CF	LITEPOZ 3 Extender	110	CF	9.20	47.00%	536.36
D042	KOLITE Lost Circulation Additive	440	LB	0.99	47.00%	230.87
D065	TIC Dispersant	18	LB	7.86	47.00%	74.98
D079	Chemical Extender	37	LB	3.05	47.00%	59.81
D112	FLAC Fluid Loss Additive	111	LB	15.20	47.00%	894.22
D909	Cement, Class H	211	CF	24.13	47.00%	2,698.46
J916ND	J916ND Non-diesel CMHPG Slurry	6	GA	110.60	47.00%	351.71
					<b>Products Subtotal:</b>	<b>9,955.16</b>
					<b>Discount:</b>	<b>4,678.93</b>
					<b>Products Total:</b>	<b>5,276.23</b>
<b>Services</b>						
48019000	Bulk Unit, Per Hr on location	5	HR	115.00	47.00%	304.75
48020000	Pump, Cement Add Hr	1	HR	609.90	35.00%	396.43
48601000	Cement Plug Container	1	JOB	556.40	47.00%	294.89
49100000	Cement Blending Charge	684	CF	2.43	47.00%	880.92
49102000	Transportation, Cement Ton-mile	1433	MI	2.16	47.00%	1,640.50
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
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
					<b>Services Subtotal:</b>	<b>15,851.91</b>
					<b>Discount:</b>	<b>5,898.69</b>
					<b>Services Total:</b>	<b>9,953.22</b>

<b>Total (Before Discount):</b>	<b>25,807.07</b>		
<b>Discount:</b>	<b>10,577.62</b>		
<b>Special Discount:</b>	<b>0.00</b>	<b>Estimated Total (USD):</b>	<b>15,229.45</b>



**Service Contract Receipt**  
**SCHLUMBERGER TECHNOLOGY CORPORATION**

Service Contract Number  
**CXIR-00031**

Invoice Mailing Address: BANDRIDGE ENERGY INC. - FOR ELECTRONIC INVOICING ONLY (EDI)  123 ROBERT S. KERR AVENUE  OKLAHOMA CITY OK 73102-6406 United States		Left District	Date: 23-Apr-2014	Time: 9:00 AM
		Arrive Location	Date: 23-Apr-2014	Time: 11:00 AM
		Start Job	Date: 23-Apr-2014	Time: 2:16 PM
		Complete Job	Date: 23-Apr-2014	Time: 3:47 PM
		Leave Location	Date: 23-Apr-2014	Time: 5:00 PM
		Arrived District	Date: 23-Apr-2014	Time: 6:00 PM
		Customer PO		Contract
AFE		Cust Ref		
Customer or Authorized Representative Tim Mills		Well Name & Number CHARLES -3306- 3-28 H		
API / UWI 16077220110100		Pricebook BOJS / W&V_GEOREF_USL_2011_USD_Pressure_Pumping_US_		
Service Instructions: Provide services, equipment, equipment and materials to safely cement 7" intermediate casing per client specifications. Pump 30 bbl gelled spacer, 220 sks 50:50 Poz:H @ 13.60 ppg, 100 sks Class H @ 15.60 ppg, drop top plug and displace per customer request.		Field STOHRVILLE		
		County / Parish / Block / Borough Harper		
		State / Province KS		
		Schlumberger Location El Reno, OK		
		Legal Location		
		Rig Horizon 15		

AFE Number: DC 13658  
 Well Name: Charles 3306 3-28H  
 Code: 830.370  
 Amount: \$15,229.45/x  
 Co. Man: Tim Mills  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_

Estimated Total (USD): 15,229.45

**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.**

<b>Signature of Customer or Authorized Representative:</b> Validity unknown Signed by Tim Mills 4/23/2014 16:06:12 <u>[Signature]</u> Tim Mills _____ Date	<b>Signature of Schlumberger Representative:</b> Validity unknown Signed by Charles Jacobs 4/23/2014 16:04:34 <u>[Signature]</u> Charles Jacobs _____ Date
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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	5512	-240	4169	1129
BHL	9173	91.80	358.50	4485.95	4810.62	-232.44	4816.16	0.00	699	4574	3947	1333
Miss Entry	4746	74.97	0.16	4475.21	388.98	-280.08	400.62	1.25	5120	153	3889	1406
Top Perf	4933	85.36	1.18	4506.61	572.95	-277.98	584.33	3.16	4936	337	3892	1403
Bottom Perf	9173	91.80	358.50	4485.95	4810.62	-232.44	4816.16	0.00	699	4574	3947	1333

Survey Points	X	Y	Surface XY	X	Y	North Line slope	m
NW Corner XY Coord	2150396	177309		2154577	171847	0.0119386	
SW Corner XY Coord	2150408	172026				-0.0058846	
NE Corner XY Coord	2155673	177372				0.0147281	
SE Corner XY Coord	2155704	172104				-0.0022714	

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	5512	-240	4169	1129
250	0.70	72.10	249.99	0.5	1.5	0.41	0.28	5511	-240	4170	1127
500	0.80	72.10	499.97	1.5	4.6	1.28	0.04	5510	-239	4173	1124
654	1.10	72.10	653.95	2.3	7.0	1.96	0.19	5510	-238	4176	1122
778	1.40	72.10	777.92	3.1	9.6	2.68	0.24	5509	-237	4178	1119
870	1.30	47.80	869.90	4.1	11.4	3.65	0.63	5508	-236	4180	1117
961	1.20	3.60	960.88	5.8	12.2	5.25	1.04	5506	-235	4181	1116
1053	1.00	297.30	1052.86	7.1	11.6	6.61	1.32	5505	-233	4180	1117
1145	1.10	319.80	1144.85	8.2	10.3	7.71	0.46	5504	-232	4179	1118
1237	0.90	316.70	1236.83	9.4	9.2	8.95	0.23	5503	-231	4178	1119
1329	0.90	332.80	1328.82	10.5	8.4	10.15	0.27	5501	-230	4177	1120
1421	0.70	330.00	1420.81	11.7	7.8	11.31	0.22	5500	-229	4176	1121
1516	0.70	340.50	1515.81	12.7	7.3	12.38	0.13	5499	-228	4176	1121
1610	0.80	342.50	1609.80	13.9	6.9	13.56	0.11	5498	-227	4176	1122
1705	0.60	1.70	1704.79	15.0	6.7	14.70	0.32	5497	-226	4175	1122
1800	0.40	329.50	1799.79	15.8	6.6	15.49	0.36	5496	-225	4175	1122
1894	0.40	316.10	1893.79	16.3	6.2	16.02	0.10	5496	-224	4175	1122
1989	0.20	329.20	1988.78	16.7	5.9	16.42	0.22	5495	-224	4175	1123
2084	1.50	282.50	2083.77	17.1	4.6	16.88	1.44	5495	-223	4173	1124
2179	1.70	263.70	2178.74	17.2	2.0	17.11	0.59	5495	-223	4171	1126
2273	3.70	242.30	2272.63	15.6	-2.1	15.72	2.35	5496	-225	4167	1131
2368	4.70	250.70	2367.37	12.9	-8.5	13.29	1.23	5499	-227	4160	1137
2463	5.90	245.10	2461.97	9.6	-16.6	10.29	1.37	5502	-231	4152	1145
2557	6.40	244.20	2555.43	5.3	-25.7	6.37	0.54	5506	-235	4143	1154
2652	7.60	235.50	2649.72	-0.6	-35.6	0.94	1.68	5512	-240	4133	1164
2686	7.30	230.70	2683.43	-3.2	-39.2	-1.55	2.03	5515	-243	4129	1168
2717	7.50	227.10	2714.17	-5.9	-42.2	-4.04	1.63	5517	-246	4126	1171
2748	7.30	224.80	2744.92	-8.6	-45.0	-6.69	1.15	5520	-248	4124	1174
2778	6.80	224.00	2774.69	-11.3	-47.6	-9.21	1.70	5523	-251	4121	1176
2809	6.30	222.20	2805.49	-13.8	-50.0	-11.68	1.74	5525	-254	4119	1179
2840	5.90	220.70	2836.31	-16.3	-52.2	-14.05	1.39	5528	-256	4116	1181
2871	5.60	220.70	2867.15	-18.7	-54.2	-16.32	0.97	5530	-258	4114	1183
2903	6.30	223.50	2898.98	-21.1	-56.5	-18.68	2.37	5532	-261	4112	1185
2935	6.60	223.70	2930.78	-23.7	-58.9	-21.17	0.94	5535	-263	4110	1188
2998	7.10	224.20	2993.33	-29.1	-64.2	-26.35	0.80	5540	-269	4104	1193
3030	6.40	220.20	3025.11	-31.9	-66.7	-29.02	2.63	5543	-271	4102	1195
3061	4.90	205.60	3055.96	-34.4	-68.4	-31.46	6.66	5546	-274	4100	1197
3093	4.10	172.00	3087.86	-36.8	-68.8	-33.81	8.47	5548	-276	4100	1198
3124	2.70	163.20	3118.81	-38.6	-68.4	-35.62	4.81	5550	-278	4100	1197
3155	2.90	183.00	3149.77	-40.1	-68.3	-37.11	3.17	5551	-279	4100	1197
3187	4.60	194.10	3181.70	-42.1	-68.6	-39.14	5.75	5553	-282	4100	1197
3219	6.20	199.10	3213.56	-45.0	-69.5	-41.98	5.21	5556	-284	4099	1198
3250	7.70	203.90	3244.33	-48.5	-70.9	-45.40	5.18	5560	-288	4098	1200
3281	8.70	209.80	3275.02	-52.4	-72.9	-49.24	4.21	5563	-292	4096	1202
3313	9.10	218.20	3306.63	-56.5	-75.7	-53.21	4.24	5568	-296	4093	1205
3345	9.30	230.00	3338.22	-60.2	-79.2	-56.70	5.92	5571	-299	4089	1208
3376	9.90	238.70	3368.79	-63.1	-83.4	-59.52	5.06	5574	-302	4085	1212
3408	10.50	244.60	3400.28	-65.8	-88.4	-61.98	3.76	5577	-305	4080	1217
3439	10.90	246.00	3430.75	-68.2	-93.6	-64.16	1.54	5579	-307	4075	1223
3471	11.50	242.90	3462.14	-70.9	-99.2	-66.60	2.66	5582	-310	4069	1228
3502	12.10	238.90	3492.48	-74.0	-104.8	-69.45	3.27	5585	-313	4064	1234
3534	12.30	236.00	3523.76	-77.6	-110.5	-72.84	2.01	5588	-316	4058	1239
3566	12.40	234.90	3555.02	-81.5	-116.1	-76.47	0.80	5592	-320	4052	1245
3597	12.20	230.70	3585.31	-85.5	-121.4	-80.23	2.96	5596	-324	4047	1250
3629	12.40	226.90	3616.57	-90.0	-126.5	-84.50	2.61	5600	-329	4042	1256
3660	11.90	222.90	3646.88	-94.6	-131.1	-88.91	3.16	5605	-333	4037	1260
3692	10.70	218.60	3678.26	-99.4	-135.2	-93.47	4.58	5610	-338	4033	1264
3723	9.00	212.50	3708.80	-103.6	-138.3	-97.63	6.43	5614	-342	4030	1267
3755	7.90	224.30	3740.46	-107.3	-141.2	-101.19	6.40	5618	-346	4027	1270
3787	7.80	242.20	3772.16	-109.9	-144.6	-103.62	7.62	5620	-348	4024	1274
3818	8.70	259.00	3802.85	-111.3	-148.8	-104.87	8.26	5621	-350	4020	1278
3850	10.20	269.60	3834.41	-111.8	-154.0	-105.13	7.16	5622	-350	4014	1283
3881	11.30	280.70	3864.87	-111.3	-159.7	-104.34	7.55	5621	-349	4009	1289
3913	12.80	291.10	3896.17	-109.4	-166.1	-102.21	8.23	5619	-347	4002	1295
3944	15.30	298.20	3926.24	-106.3	-172.9	-98.75	9.78	5616	-344	3995	1302
3976	17.40	304.00	3956.95	-101.6	-180.6	-93.76	8.31	5611	-339	3988	1310
4008	19.60	309.60	3987.29	-95.5	-188.7	-87.32	8.83	5605	-333	3980	1318
4040	20.90	314.40	4017.32	-88.1	-196.9	-79.56	6.59	5598	-326	3971	1326



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'	FNL	FSL	FWL	FEL
4072	22.50	319.20	4047.05	-79.4	-205.0	-70.59	7.46	5589	-317	3963	1334
4103	24.10	323.60	4075.52	-69.9	-212.6	-60.68	7.62	5579	-307	3956	1342
4135	25.50	326.80	4104.57	-58.8	-220.3	-49.34	6.06	5568	-296	3948	1349
4166	25.80	330.70	4132.52	-47.4	-227.3	-37.59	5.53	5557	-284	3941	1356
4198	28.20	334.40	4161.03	-34.5	-233.9	-24.42	9.15	5544	-271	3935	1363
4229	31.70	337.80	4187.89	-20.3	-240.2	-10.01	12.54	5529	-257	3928	1369
4261	35.60	340.10	4214.53	-3.8	-246.5	6.79	12.82	5513	-241	3922	1375
4292	38.00	345.10	4239.35	13.9	-252.1	24.72	12.38	5495	-223	3917	1380
4324	40.30	348.70	4264.17	33.6	-256.6	44.57	10.10	5475	-203	3912	1385
4356	42.80	350.60	4288.12	54.5	-260.4	65.60	8.75	5454	-182	3908	1389
4387	46.20	352.10	4310.22	76.0	-263.7	87.19	11.48	5433	-161	3905	1392
4419	49.70	353.00	4331.65	99.5	-266.8	110.86	11.13	5409	-137	3902	1395
4450	52.40	354.00	4351.14	123.5	-269.5	134.91	9.06	5385	-113	3899	1397
4482	54.60	354.80	4370.17	149.1	-272.0	160.59	7.16	5360	-87	3897	1400
4514	56.90	355.00	4388.18	175.4	-274.3	187.01	7.21	5333	-61	3895	1402
4545	59.30	355.70	4404.56	201.7	-276.5	213.31	7.98	5307	-35	3893	1404
4577	63.10	357.40	4419.98	229.6	-278.1	241.34	12.75	5279	-7	3891	1405
4608	67.00	358.50	4433.05	257.7	-279.1	269.44	12.99	5251	21	3890	1406
4640	70.00	359.20	4444.78	287.5	-279.7	299.20	9.59	5221	51	3890	1407
4672	72.40	359.70	4455.09	317.8	-280.0	329.48	7.64	5191	81	3889	1407
4703	74.50	359.90	4463.92	347.5	-280.1	359.17	6.80	5161	111	3889	1407
4735	74.90	0.20	4472.36	378.4	-280.1	390.00	1.54	5130	142	3889	1406
4766	75.10	0.10	4480.39	408.3	-280.0	419.92	0.72	5100	172	3889	1406
4798	77.40	0.40	4487.99	439.4	-279.9	450.96	7.24	5069	203	3890	1406
4829	79.70	0.90	4494.15	469.8	-279.5	481.30	7.59	5039	233	3890	1405
4861	82.10	0.80	4499.21	501.3	-279.1	512.84	7.51	5007	265	3891	1405
4892	84.10	0.70	4502.93	532.1	-278.7	543.57	6.46	4976	296	3891	1404
4924	85.30	1.10	4505.89	564.0	-278.2	575.37	3.95	4945	328	3892	1403
4956	85.50	1.40	4508.45	595.9	-277.5	607.20	1.12	4913	360	3892	1402
4987	86.30	1.60	4510.67	626.8	-276.7	638.05	2.66	4882	390	3893	1401
5019	86.90	1.50	4512.57	658.7	-275.8	669.92	1.90	4850	422	3894	1400
5051	87.10	1.40	4514.24	690.7	-275.0	701.80	0.70	4818	454	3895	1399
5082	87.40	1.30	4515.73	721.6	-274.3	732.69	1.02	4787	485	3896	1399
5114	88.60	1.20	4516.85	753.6	-273.6	764.61	3.76	4755	517	3897	1398
5145	88.80	1.30	4517.55	784.6	-272.9	795.53	0.72	4724	548	3897	1397
5171	89.00	1.10	4518.05	810.6	-272.3	821.48	1.09	4698	574	3898	1396
5302	91.30	1.00	4517.71	941.5	-269.9	952.22	1.76	4567	705	3901	1393
5396	92.30	2.10	4514.75	1035.4	-267.4	1045.94	1.58	4473	799	3904	1390
5491	92.70	2.10	4510.61	1130.3	-263.9	1140.55	0.42	4378	894	3907	1386
5586	93.90	2.80	4505.14	1225.0	-259.9	1235.05	1.46	4284	988	3911	1381
5681	93.40	2.10	4499.09	1319.8	-255.8	1329.51	0.90	4189	1083	3916	1377
5775	90.80	0.70	4495.65	1413.7	-253.5	1423.22	3.14	4095	1177	3918	1374
5870	90.50	0.50	4494.57	1508.6	-252.5	1518.08	0.38	4000	1272	3919	1372
5965	91.40	359.90	4493.00	1603.6	-252.2	1612.96	1.14	3905	1367	3920	1371
6059	90.00	0.20	4491.85	1697.6	-252.1	1708.86	1.52	3811	1461	3920	1371
6154	89.90	0.90	4491.93	1792.6	-251.2	1801.73	0.74	3716	1556	3921	1369
6248	90.50	1.40	4491.60	1886.6	-249.3	1895.54	0.83	3622	1650	3924	1367
6342	90.30	1.60	4490.95	1980.6	-246.9	1989.32	0.30	3528	1744	3926	1364
6437	90.70	1.30	4490.12	2075.5	-244.5	2084.09	0.53	3433	1839	3929	1361
6532	90.20	1.30	4489.37	2170.5	-242.3	2178.89	0.53	3339	1934	3931	1358
6627	90.20	0.80	4489.04	2265.5	-240.6	2273.71	0.53	3244	2029	3933	1356
6721	90.40	0.90	4488.55	2359.5	-239.2	2367.55	0.24	3150	2123	3935	1354
6816	90.20	0.50	4488.05	2454.5	-238.0	2462.41	0.47	3055	2218	3936	1352
6911	90.60	0.70	4487.39	2549.5	-237.0	2557.27	0.47	2960	2313	3937	1351
7006	89.80	359.60	4487.06	2644.5	-236.8	2652.17	1.43	2865	2408	3938	1350
7101	90.70	359.30	4486.64	2739.4	-237.7	2747.11	1.00	2770	2503	3937	1350
7196	90.20	359.00	4485.89	2834.4	-239.1	2842.07	0.61	2675	2598	3936	1351
7290	89.10	357.80	4486.47	2928.4	-241.7	2936.06	1.73	2581	2692	3934	1353
7384	89.50	358.10	4487.62	3022.3	-245.1	3030.05	0.53	2487	2786	3930	1356
7479	90.20	358.70	4487.87	3117.3	-247.7	3125.04	0.97	2392	2881	3928	1358
7573	89.60	358.90	4488.03	3211.3	-249.7	3219.01	0.67	2298	2975	3926	1359
7668	89.90	359.50	4488.44	3306.3	-251.0	3313.97	0.71	2203	3070	3925	1360
7762	89.90	359.90	4488.61	3400.3	-251.5	3407.90	0.43	2109	3164	3925	1360
7857	90.00	1.40	4488.69	3495.2	-250.4	3502.76	1.58	2014	3259	3926	1358
7951	90.40	1.80	4488.36	3589.2	-247.8	3596.53	0.60	1920	3352	3929	1355
8046	89.10	1.60	4488.78	3684.2	-245.0	3691.27	1.38	1825	3447	3932	1352
8140	89.10	1.50	4490.25	3778.1	-242.4	3785.03	0.11	1731	3541	3935	1349
8236	88.50	1.50	4492.26	3874.1	-239.9	3880.78	0.62	1635	3637	3937	1346
8330	89.60	2.40	4493.82	3968.0	-236.7	3974.49	1.51	1541	3731	3941	1342
8424	90.10	2.40	4494.07	4061.9	-232.8	4068.15	0.53	1447	3825	3945	1337
8519	89.60	1.90	4494.32	4156.8	-229.2	4162.84	0.74	1352	3920	3949	1333
8614	89.80	1.30	4494.82	4251.8	-226.6	4257.60	0.67	1257	4015	3952	1330
8708	90.30	0.10	4494.73	4345.8	-225.4	4351.46	1.38	1163	4109	3953	1328
8803	90.70	359.60	4493.90	4440.8	-225.7	4446.38	0.67	1068	4204	3953	1328
8897	91.30	359.60	4492.26	4534.8	-226.3	4540.30	0.64	974	4298	3953	1328
8992	90.90	358.70	4490.44	4629.7	-227.8	4635.25	1.04	879	4393	3951	1329
9087	91.40	358.40	4488.53	4724.7	-230.2	4730.21	0.61	784	4488	3949	1331
9122	91.80	358.50	4487.56	4759.7	-231.1	4765.20	1.18	749	4523	3948	1332
9173	91.80	358.50	4485.95	4810.6	-232.4	4816.16	0.00	699	4574	3947	1333

Section 21  
33S 6W

Section 22  
33S 6W

HARRISON 2-21  
HARRISON 1-21

719' FNL  
BHL: 9173'  
-97.971239 37.150502

HARMON 3306 2-28

1471' FEL

Bottom Perf: 8690'  
-97.971185 37.149238

HARMON 1

Section 28  
33S 6W

Section 27  
33S 6W

Harper County

CROW 3306 2-28

WELCH 1

CROW 1

Top Perf: 4933'  
-97.971093 37.138951

SARAH 3306 3-28H

Miss Entry: 4746'  
-97.971086 37.138446

CHARLES 3306 2-33H

CHARLES 3306 3-28H

ASTORIA SWD 3306 1-34

RAWLINGS SWD 3306 1-33

Section 33  
33S 6W

Section 34  
33S 6W



Actual Bottom-Hole Location of Charles 3306 3-28H  
T&R: 33S 6W  
Section: 28, 1471' FEL & 719' FNL  
-97.971239 37.150502

1 in = 667 ft

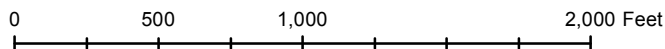


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Naomi Martinez

Draft Date: 7/10/2014

Drawing Name/Number:

Addendum\_Charles 3306 3-28H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/15/2014
Job End Date:	5/17/2014
State:	Kansas
County:	Harper
API Number:	15-077-22011-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Charles 3306 3-28H
Longitude:	-97.96970000
Latitude:	37.13740000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,486
Total Base Water Volume (gal):	22,445,446
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	99.45918	None
Sand (Proppant)	Archer	Proppant	Silica Substrate	NA	100.00000	0.38615	None
DiKlor	Sabre Energy Services	Oxidizer	Water	7732-18-5	99.90000	0.03109	
			Chlorine Dioxide	10069-04-4	0.40000	0.03109	
Hydrochloric Acid (15%)	Archer	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.01173	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00050	None
			Methyl Alcohol	67-56-1	80.00000	0.00010	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00002	None
AIC	Archer	Liquid Acid Iron Control	Acetic Acid	64-19-7	50.00000	0.00022	None
			Citric Acid	77-92-9	30.00000	0.00013	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		0.00457	

		WATER	7732-18-5		0.00297
		Anionic Polymer	N/A		0.00228
		Aliphatic Hydrocarbon	64742-47-8		0.00228
		TRADE SECRET	N/A		0.00198
		Water	7732-18-5		0.00102
		METHANOL	67-56-1		0.00050
		ISOPROPANOL	67-63-0		0.00050
		Polyol Ester	N/A		0.00038
		Oxyalkylated Alcohol	68002-97-1		0.00038
		Acrylic Polymer	28205-96-1		0.00017
		Sodium Salt of Phosphate Ester	68131-72-6		0.00017
		Water	7732-18-5		0.00015
		Polyglycol Ester	N/A		0.00008
		Alcohol Ethoxylate Surfactants	N/A		0.00002
		n-olefins	N/A		0.00001
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00001
		Propargyl Alcohol	107-19-7		0.00001
		Acetic Acid	64-19-7		
		Cinnamic Aldehyde	104-55-2		
		Water	7732-18-5		
		Surfactant	N/A		
		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)