



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1229297
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: _____

1229297

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

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

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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SandRidge Energy
Stewart #3306 3-1H
Harper County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Stewart #3306 3-1H Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 1500 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

63 Bbls (190 sacks) of 12.7 ppg Lead slurry:
Class A poz Blend Yeild 1.87
6% Gel
2% CC
¼# Floseal

32 Bbls (150 sacks) of 15.6 ppg Tail slurry
Class A Yeild 1.20
2% CC
¼ # Floseal

The top plug was then released and displaced with 45.5 Bbls of fresh water. The plug bumped and pressured up to 900 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy
Stewart #3306 3-1H
Harper County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Stewart #3306 3-1H Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3500 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 195.5 of fresh water. The plug bumped and pressured up to 1500 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



INVOICE

DATE	INVOICE #
7/14/2014	4951

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

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

Rig change →

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	7/14/2014	3742	NOMAC 52	STEWART 3306 3-IH	Due on rec...

Description
DRILLED 50' OF 26" MOUSE HOLE FURNISHED MUD, WATER, AND TRUCKING FURNISHED WELDER AND MATERIALS FURNISHED 5 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 50' OF 16" CONDUCTOR PIPE TOTAL BID \$8,275.00

Sales Tax (6.15%)	\$39.98
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TOTAL	\$8,314.98
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Stewart 3306 3-1H
 Nomac 52
 Harper County, KS
 X= 2168380.00'
 Y= 193701.00'
 Plan 2 vs Actual

KB: 1372'
 GL: 1353'

Plan Data for Stewart 3306 3-1H

Plan Point Information:
 DogLeg Severity Unit: °/100.00ft Position offsets from Site centre

MD	Inc	Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(DLSU)	(°)
7715.00	90.70	0.41	4429.13	3494.96	-49.04	3495.30	0.58	180.0
7796.96	90.20	358.85	4428.49	3576.91	-49.57	3577.25	2.00	252.2
7920.96	90.20	358.85	4428.06	3700.89	-52.06	3701.25	0.00	0.0
7935.96	90.50	358.85	4427.97	3715.89	-52.36	3716.25	2.00	360.0
8963.32	90.50	358.85	4419.00	4743.00	-73.00	4743.56	0.00	0.0

Target Set Information:
 Name: Stewart 3306 3-1H T2

Name	TVD	Northing	Easting	Lat	Long
(USft)	(USft)	(USft)	(USft)	(°/'/")	(°/'/")
PBHL	4419.00	198444.00	2168307.00	37°12'36.8"	-97°55'19.5"

Plan Data for Stewart 3306 3-1H

Field: SandRidge Energy - Harper County, KS S NAD 27 US FT
 Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
 Projected Coordinate System: NAD27 / Kansas South

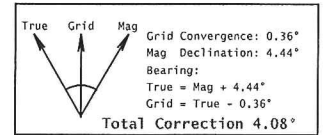
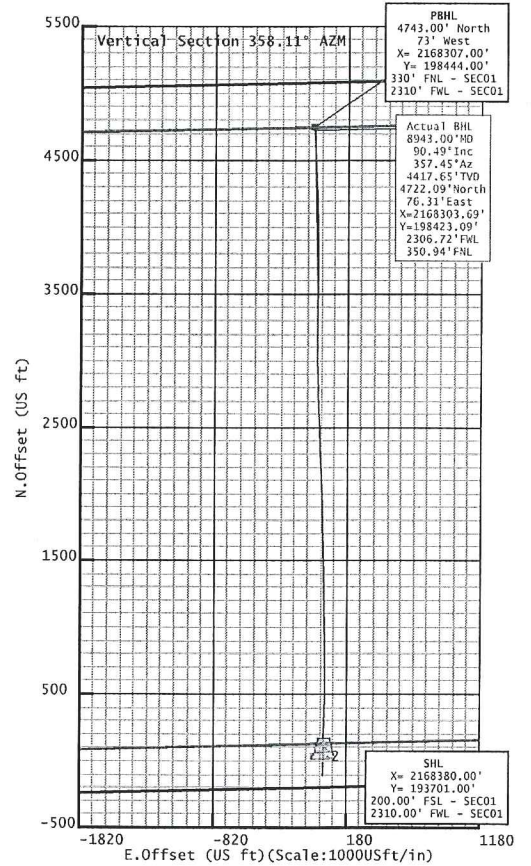
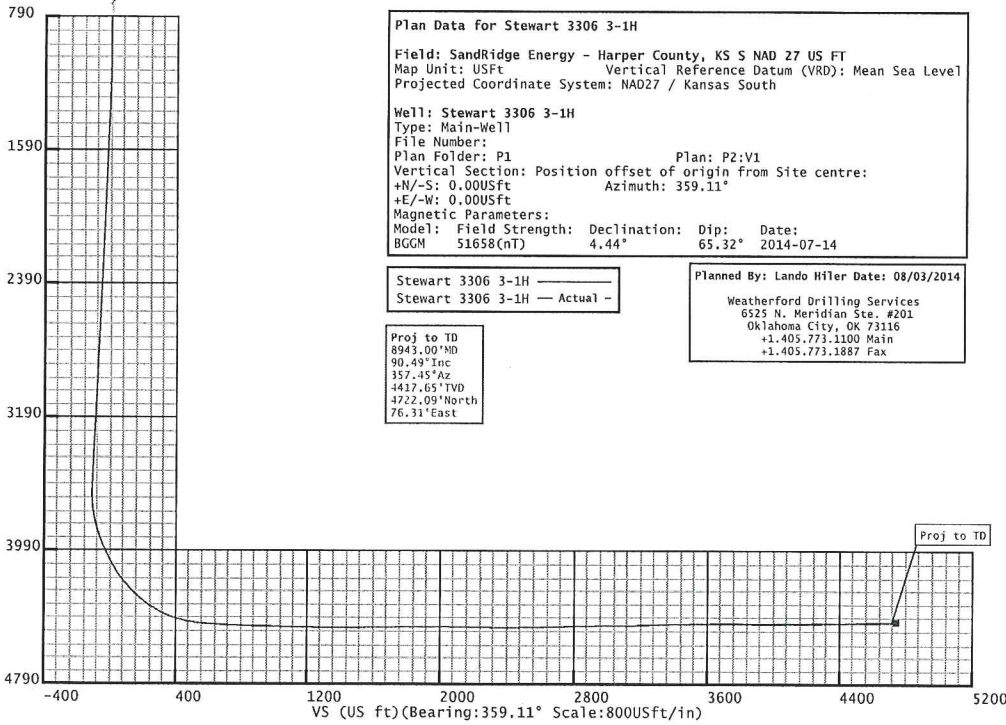
Well: Stewart 3306 3-1H
 Type: Main-Well
 File Number:
 Plan Folder: P1 Plan: P2:V1
 Vertical Section: Position offset of origin from Site centre:
 +N/-S: 0.00USft Azimuth: 359.11°
 +E/-W: 0.00USft

Magnetic Parameters:
 Model: Field Strength: Declination: Dip: Date:
 BGGM 51658(nT) 4.44° 65.32° 2014-07-14

Planned By: Lando Hiller Date: 08/03/2014

Weatherford Drilling Services
 6525 N. Meridian Ste. #201
 Oklahoma City, OK 73116
 +1.405.773.1100 Main
 +1.405.773.1887 Fax

Proj to TD
 8943.00' MD
 90.49° Inc
 357.45° Az
 4417.65' TVD
 4722.09' North
 76.31' East



Stewart 3306 3-1H

Field Name	Map Units : US ft		Company Name : SandRidge Energy	
SandRidge Energy - Harper County, KS S NAD 27 US FT	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD27 / Kansas South			
	Comment :			
Site Name	Units : US ft	North Reference : Grid	Convergence Angle : 0.36	
Stewart 3306 3-1H	Position		Northing : 193701.00 US ft	Latitude : 37° 11' 49.94"
			Easting : 2168380.00 US ft	Longitude : -97° 55' 18.99"
	Site TVD Reference : GL			
Elevation above Mean Sea Level: 1353.00 US ft				
Comment :				
Slot Name	Position (Offsets relative to Site Centre)			
Stewart 3306 3-1H	+N / -S : 0.00 US ft	Northing : 193701.00 US ft	Latitude : 37° 11' 49.94"	
	+E / -W : 0.00 US ft	Easting : 2168380.00 US ft	Longitude : -97° 55' 18.99"	
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 1353.00 US ft				
Comment :				
Well Name	Type : Main well	UWI :		
Stewart 3306 3-1H	Rig Height Drill Floor : 19.00 US ft	Comment :		
	Relative to Mean Sea Level: 1372.00 US ft	Closure Azimuth : 359.074°		
	Closure Distance : 4722.71 US ft	Vertical Section (Position of Origin Relative to Site)		
		+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 359.11°

5D Survey Report

Target Set

Name : Stewart 3306 3-1H T2 Number of Targets : 1

Comment :

TargetName:	Position (Relative to Site centre)		
PBHL	+N / -S : 4743.00US ft	Northing : 198444.00 US ft	Latitude : 37°12'36.84"
	+E / -W : -73.00 US ft	Easting : 2168307.00US ft	Longitude : -97°55'19.53"
Shape:	TVD (Drill Floor) : 4419.00 US ft		
Cuboid	SS : -3047.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Survey Name :Definitive Survey

Date : 15/Jul/2014 Survey Tool : Comment : Company :

Magnetic Model

Model Name: BGGM Date: 14/Jul/2014 Field Strength: 51658.6 nT Declination: 4.44° Dip: 65.32°

Survey Tool Ranges

Name	Start MD (us ft)	End MD (us ft)	Source Survey
Inc Only 3deg_WFTR	0.00	495.00	Rlg SVY
MWD	495.00	8943.00	WFT SVY

Well path created using minimum curvature

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2
250.00	0.20	127.41	250.00	-0.27	0.35	-0.27	0.08	First Rlg SvY
495.00	0.20	127.41	495.00	-0.78	1.03	-0.80	0.00	Last Rlg SvY
794.00	0.10	127.41	794.00	-1.26	1.65	-1.29	0.03	First MWD Survey
1046.00	0.31	184.62	1046.00	-2.07	1.77	-2.10	0.11	
1168.00	1.48	180.22	1167.98	-3.98	1.73	-4.00	0.96	
1471.00	2.64	186.61	1470.78	-14.82	0.92	-14.84	0.39	
1772.00	2.13	179.05	1771.52	-27.30	0.21	-27.30	0.20	
2078.00	2.55	164.19	2077.26	-39.54	2.16	-39.57	0.24	
2380.00	3.08	179.15	2378.90	-54.11	4.11	-54.17	0.30	
2696.00	2.43	173.76	2694.54	-69.26	4.96	-69.33	0.22	
3010.00	2.55	185.97	3008.24	-82.83	4.96	-82.89	0.17	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment
3324.00	2.80	189.82	3321.90	-97.33	2.93	-97.36	0.10	
3607.00	2.24	170.02	3604.63	-109.59	2.71	-109.62	0.36	
3638.00	1.22	165.14	3635.62	-110.50	2.90	-110.54	3.32	
3669.00	0.91	30.58	3666.61	-110.61	3.11	-110.65	6.35	
3701.00	3.48	4.91	3698.59	-109.43	3.32	-109.46	8.40	
3733.00	6.22	0.96	3730.47	-106.72	3.43	-106.76	8.62	
3765.00	8.79	359.76	3762.19	-102.54	3.45	-102.59	8.05	
3796.00	11.34	0.95	3792.71	-97.13	3.49	-97.17	8.25	
3827.00	13.75	3.34	3822.97	-90.40	3.76	-90.45	7.95	
3859.00	16.07	4.08	3853.89	-82.19	4.29	-82.24	7.27	
3891.00	18.29	3.11	3884.46	-72.75	4.88	-72.82	6.99	
3923.00	20.30	1.84	3914.66	-62.19	5.33	-62.27	6.42	
3954.00	22.09	1.80	3943.57	-50.99	5.69	-51.07	5.77	
3986.00	24.22	1.29	3972.99	-38.41	6.02	-38.50	6.69	
4018.00	25.68	359.65	4002.00	-24.91	6.13	-25.01	5.05	
4049.00	26.71	358.04	4029.82	-11.23	5.85	-11.32	4.04	
4081.00	28.13	357.31	4058.22	3.49	5.25	3.41	4.56	
4112.00	30.55	357.02	4085.24	18.66	4.50	18.59	7.82	
4143.00	33.25	357.86	4111.56	35.02	3.77	34.96	8.83	
4175.00	36.25	358.90	4137.85	53.25	3.26	53.20	9.56	
4207.00	38.97	359.91	4163.19	72.78	3.06	72.72	8.72	
4238.00	41.13	0.53	4186.92	92.72	3.14	92.66	7.09	
4270.00	42.81	1.64	4210.71	114.12	3.55	114.05	5.74	
4301.00	45.49	0.89	4232.96	135.70	4.02	135.62	8.81	
4333.00	47.17	1.28	4255.05	158.84	4.46	158.76	5.32	
4364.00	49.41	2.00	4275.68	181.98	5.13	181.87	7.43	
4396.00	51.80	2.52	4295.98	206.68	6.11	206.56	7.57	
4427.00	55.16	2.76	4314.43	231.57	7.25	231.43	10.86	
4458.00	58.67	2.20	4331.35	257.51	8.37	257.35	11.42	
4489.00	61.47	2.00	4346.81	284.36	9.36	284.18	9.05	
4521.00	63.98	1.79	4361.48	312.78	10.30	312.58	7.87	
4552.00	66.76	1.59	4374.40	340.95	11.13	340.73	8.99	
4583.00	70.16	1.57	4385.78	369.77	11.92	369.54	10.97	
4615.00	73.53	1.39	4395.75	400.16	12.71	399.91	10.54	
4647.00	75.88	0.96	4404.19	431.02	13.34	430.76	7.46	
4678.00	77.96	0.29	4411.20	461.21	13.67	460.94	7.03	
4710.00	79.79	0.07	4417.38	492.61	13.77	492.33	5.76	
4741.00	81.79	359.97	4422.34	523.20	13.78	522.93	6.46	
4772.00	83.48	0.29	4426.31	553.95	13.85	553.67	5.55	
4804.00	86.02	359.97	4429.24	585.81	13.92	585.52	8.00	
4835.00	86.50	359.79	4431.26	616.74	13.86	616.46	1.65	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)								Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	
4867.00	86.71	359.57	4433.16	648.69	13.68	648.40	0.95	
4898.00	87.06	359.60	4434.84	679.64	13.45	679.35	1.13	
4930.00	87.34	359.72	4436.40	711.60	13.26	711.31	0.95	
4961.00	87.48	359.74	4437.80	742.57	13.12	742.28	0.46	
4993.00	87.55	359.69	4439.19	774.54	12.96	774.25	0.27	
5024.00	88.04	359.42	4440.38	805.52	12.72	805.22	1.80	
5056.00	88.25	359.23	4441.42	837.50	12.34	837.20	0.88	
5087.00	88.39	359.15	4442.33	868.48	11.90	868.19	0.52	
5119.00	88.46	359.23	4443.21	900.46	11.45	900.18	0.33	
5138.00	88.74	359.01	4443.67	919.46	11.16	919.17	1.87	
5200.00	89.16	359.39	4444.81	981.44	10.29	981.16	0.91	
5263.00	88.74	358.92	4445.96	1044.42	9.36	1044.15	1.00	
5326.00	88.53	359.10	4447.46	1107.39	8.28	1107.13	0.44	
5389.00	88.46	358.85	4449.12	1170.36	7.15	1170.11	0.41	
5452.00	88.88	358.60	4450.58	1233.33	5.75	1233.09	0.78	
5515.00	89.23	358.65	4451.62	1296.30	4.24	1296.08	0.56	
5579.00	89.44	358.70	4452.36	1360.28	2.76	1360.08	0.34	
5642.00	90.49	358.55	4452.40	1423.26	1.25	1423.07	1.68	
5704.00	90.84	358.55	4451.68	1485.24	-0.32	1485.07	0.56	
5767.00	90.77	358.78	4450.80	1548.22	-1.79	1548.06	0.38	
5829.00	90.70	358.69	4450.00	1610.20	-3.16	1610.05	0.18	
5892.00	90.70	358.55	4449.23	1673.17	-4.68	1673.04	0.22	
5955.00	90.49	358.42	4448.58	1736.15	-6.34	1736.04	0.39	
6018.00	90.56	359.01	4448.00	1799.13	-7.76	1799.03	0.94	
6081.00	90.49	358.83	4447.42	1862.11	-8.94	1862.03	0.31	
6143.00	90.28	358.39	4447.01	1924.09	-10.45	1924.02	0.79	
6206.00	90.00	357.89	4446.85	1987.06	-12.49	1987.02	0.91	
6269.00	90.00	357.84	4446.85	2050.02	-14.84	2050.00	0.08	
6333.00	89.51	357.57	4447.13	2113.96	-17.40	2113.98	0.87	
6395.00	89.02	357.28	4447.92	2175.90	-20.19	2175.95	0.92	
6458.00	88.53	357.13	4449.27	2238.81	-23.26	2238.90	0.81	
6521.00	88.74	357.18	4450.77	2301.71	-26.38	2301.84	0.34	
6585.00	90.07	358.28	4451.43	2365.66	-28.92	2365.82	2.70	
6647.00	90.77	359.36	4450.98	2427.64	-30.20	2427.82	2.08	
6710.00	90.70	357.89	4450.17	2490.61	-31.71	2490.81	2.34	
6773.00	91.19	357.10	4449.13	2553.54	-34.46	2553.77	1.48	
6836.00	91.68	356.88	4447.55	2616.44	-37.77	2616.71	0.85	
6900.00	91.75	357.88	4445.64	2680.34	-40.69	2680.65	1.57	
6963.00	91.47	358.62	4443.87	2743.29	-42.61	2743.62	1.26	
7025.00	91.19	358.78	4442.43	2805.25	-44.02	2805.60	0.52	
7088.00	90.49	357.64	4441.51	2868.22	-45.99	2868.58	2.12	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment	
7151.00	90.35	357.97	4441.04	2931.17	-48.40	2931.57	0.57		
7214.00	90.07	358.75	4440.81	2994.14	-50.20	2994.56	1.32		
7277.00	90.56	359.47	4440.47	3057.13	-51.18	3057.56	1.38		
7340.00	91.47	0.08	4439.35	3120.12	-51.43	3120.54	1.74		
7403.00	92.17	0.47	4437.35	3183.09	-51.13	3183.50	1.27		
7466.00	91.89	359.97	4435.12	3246.05	-50.89	3246.45	0.91		
7529.00	91.88	0.49	4433.05	3309.01	-50.63	3309.40	0.83		
7592.00	91.26	0.61	4431.32	3371.98	-50.03	3372.36	1.00		
7655.00	91.05	0.41	4430.05	3434.97	-49.47	3435.32	0.46		
7718.00	90.91	0.89	4428.97	3497.96	-48.75	3498.29	0.79		
7781.00	90.84	1.05	4428.01	3560.94	-47.69	3561.25	0.28		
7843.00	90.49	1.24	4427.29	3622.92	-46.45	3623.21	0.64		
7906.00	90.35	0.10	4426.83	3685.92	-45.71	3686.18	1.82		
7970.00	89.72	359.96	4426.79	3749.92	-45.68	3750.17	1.01		
8032.00	88.95	359.40	4427.51	3811.91	-46.02	3812.17	1.54		
8095.00	89.09	359.96	4428.59	3874.90	-46.38	3875.15	0.92		
8158.00	88.81	359.46	4429.74	3937.89	-46.70	3938.14	0.91		
8221.00	90.77	359.13	4429.97	4000.88	-47.47	4001.13	3.15		
8284.00	90.63	358.89	4429.20	4063.87	-48.56	4064.13	0.44		
8347.00	89.86	358.56	4428.93	4126.85	-49.96	4127.13	1.33		
8410.00	90.21	358.38	4428.90	4189.83	-51.64	4190.12	0.62		
8473.00	90.56	357.25	4428.47	4252.78	-54.04	4253.10	1.88		
8536.00	92.10	357.14	4427.01	4315.68	-57.13	4316.05	2.45		
8599.00	92.31	356.96	4424.59	4378.55	-60.37	4378.96	0.44		
8663.00	91.82	357.79	4422.28	4442.44	-63.30	4442.89	1.51		
8726.00	91.19	357.19	4420.63	4505.36	-66.05	4505.84	1.38		
8789.00	91.05	356.99	4419.39	4568.27	-69.25	4568.79	0.39		
8852.00	90.63	357.50	4418.47	4631.19	-72.28	4631.75	1.05		
8883.00	90.49	357.45	4418.17	4662.16	-73.64	4662.74	0.48		Last MWD Survey
8943.00	90.49	357.45	4417.65	4722.09	-76.31	4722.71	0.00		Proj. to TD

Stewart 3306 3-1H

Perforations

Perforations			
Date	Top (ftKB)	Btm (ftKB)	Zone
8/12/2014	4,828.0	4,830.0	Miss Lime, Original Hole
8/12/2014	4,936.0	4,938.0	Miss Lime, Original Hole
8/12/2014	5,033.0	5,035.0	Miss Lime, Original Hole
8/17/2014	5,184.0	5,285.0	Miss Lime, Original Hole
8/17/2014	5,285.0	5,384.0	Miss Lime, Original Hole
8/17/2014	5,384.0	5,481.0	Miss Lime, Original Hole
8/17/2014	5,481.0	5,625.0	Miss Lime, Original Hole
8/17/2014	5,625.0	5,767.0	Miss Lime, Original Hole
8/17/2014	5,767.0	5,863.0	Miss Lime, Original Hole
8/17/2014	5,863.0	5,958.0	Miss Lime, Original Hole
8/17/2014	5,958.0	6,148.0	Miss Lime, Original Hole
8/17/2014	6,148.0	6,295.0	Miss Lime, Original Hole
8/17/2014	6,295.0	6,437.0	Miss Lime, Original Hole
8/17/2014	6,437.0	6,531.0	Miss Lime, Original Hole
8/17/2014	6,531.0	6,677.0	Miss Lime, Original Hole
8/17/2014	6,677.0	6,822.0	Miss Lime, Original Hole
8/17/2014	6,822.0	6,965.0	Miss Lime, Original Hole
8/17/2014	6,965.0	7,105.0	Miss Lime, Original Hole
8/17/2014	7,105.0	7,202.0	Miss Lime, Original Hole
8/17/2014	7,202.0	7,300.0	Miss Lime, Original Hole
8/17/2014	7,300.0	7,539.0	Miss Lime, Original Hole
8/17/2014	7,539.0	7,638.0	Miss Lime, Original Hole
8/17/2014	7,638.0	7,735.0	Miss Lime, Original Hole
8/17/2014	7,735.0	7,836.0	Miss Lime, Original Hole
8/17/2014	7,836.0	8,025.0	Miss Lime, Original Hole
8/17/2014	8,025.0	8,125.0	Miss Lime, Original Hole
8/17/2014	8,125.0	8,268.0	Miss Lime, Original Hole
8/17/2014	8,268.0	8,453.0	Miss Lime, Original Hole
8/17/2014	8,453.0	8,550.0	Miss Lime, Original Hole
8/17/2014	8,550.0	8,692.0	Miss Lime, Original Hole
8/17/2014	8,692.0	8,943.0	Miss Lime, Original Hole

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/17/2014
Job End Date:	8/19/2014
State:	Kansas
County:	Harper
API Number:	15-077-22064-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Stewart 3306 3-1H
Longitude:	-97.92194045
Latitude:	37.19720473
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,418
Total Base Water Volume (gal):	2,576,826
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	95.59657	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.33598	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.14027	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00437	None
			Methyl Alcohol	67-56-1	80.00000	0.00111	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00021	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00247	None
			Citric Acid	77-92-9	30.00000	0.00148	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00352	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00036	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		0.04058
		WATER	7732-18-5		0.02620
		Aliphatic Hydrocarbon	64742-47-8		0.02029
		Anionic Polymer	N/A		0.02029
		TRADE SECRET	N/A		0.01747
		Water	7732-18-5		0.01004
		ISOPROPANOL	67-63-0		0.00437
		METHANOL	67-56-1		0.00437
		Polyol Ester	N/A		0.00338
		Oxyalkylated Alcohol	68002-97-1		0.00338
		Water	7732-18-5		0.00173
		Acrylic Polymer	28205-96-1		0.00167
		Sodium Salt of Phosphate Ester	68131-72-6		0.00167
		Polyglycol Ester	N/A		0.00068
		Alcohol Ethoxylate Surfactants	N/A		0.00021
		n-olefins	N/A		0.00011
		Propargyl Alcohol	107-19-7		0.00008
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007
		Buffer	N/A		
		Water	7732-18-5		
		Surfactant	N/A		
		Cinnamic Aldehyde	104-55-2		
		Acetic Acid	64-19-7		

* 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)