



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1076292  
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: \_\_\_\_\_

1076292

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

<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> <i>(Submit ACO-4)</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	Amelia Grace 1-2H
Doc ID	1076292

All Electric Logs Run

Final Boresight
Mud Final
Compact Photo Density
Array Induction

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Operator	SandRidge Exploration and Production LLC
Well Name	Amelia Grace 1-2H
Doc ID	1076292

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	9151-9153	5417 bbls of water, 36bbls acid, 64M lbs sand, 5382 TLTR	
2	8780-9079	4328 bbls of water, 35 bbls acid, 75M lbs sand, 10032 TLTR	
2	8408-8709	4404 bbls of water, 35 bbls acid, 75M lbs sand, 14518 TLTR	
2	8037-8336	4496 bbls of water, 35 bbls acid, 79M lbs sand, 19215 TLTR	
2	7639-7964	4388 bbls of water, 35 bbls acid, 79M lbs sand, 23712 TLTR	
2	7294-7578	4398 bbls of water, 35 bbls acid, 75M lbs sand, 28205 TLTR	
2	6923-7244	4424 bbls of water, 35 bbls acid, 75M lbs sand, 32713 TLTR	
2	6539-6851	4372 bbls of water, 35 bbls acid, 75M lbs sand, 37224 TLTR	
2	6180-6500	4295 bbls of water, 35 bbls acid, 76M lbs sand, 41593 TLTR	
2	5825-6033	4215 bbls of water, 35 bbls acid, 75M lbs sand, 41593 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Amelia Grace 1-2H
Doc ID	1076292

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	5437-5736	4433 bbls of water, 35 bbls acid, 77M lbs sand, 50317 TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Amelia Grace 1-2H
Doc ID	1076292

### 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	32	20	75	120	Mid-Continent 8 sack grout	14	none
Surface	12.25	9.63	36	1050	O-Tex Lite Standard/ Standard	750	(6% Gel) 2% Calcium Chloride, 1/4 lb/sk Cellflake, .5% C-41P
Intermeida te	8.75	7	26	5612	50/50 Poz Premium/ Premium	220	4% Gel, .4% C-12, .1% C-37, .5% C- 41P, 2 lb/sk Phenoseal
Liner	6.13	4.5	11.6	9560	50/50 Poz Permium	470	(4% Gel) .4% C12, .1% C37, .5% C- 41P, 2 lb/sk Phenoseal

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



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

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 19, 2012

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

Re: ACO1  
API 15-033-21612-01-00  
Amelia Grace 1-2H  
NW/4 Sec.02-31S-20W  
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Tiffany Golay

# American Measurement Services

A Limited Liability Company

Ames, Oklahoma

Station Number: KS03R0032  
Producer: SANDRIDGE ENERGY  
Lease: AMELIA GRACE 1-2H  
Sample Pressure: 93  
Sample Temperature: 81  
Cylinder Number: 1860  
Analysis By: AMS  
Date Sampled: 4/27/2012  
Analysis Run Date: 4/27/2012

Gas Components	Mole Percent	GPM
Methane	77.745	
Ethane	3.512	0.9334
Propane	1.176	0.3221
IButane	0.233	0.0758
NButane	0.406	0.1272
IPentan	0.142	0.0515
NPentan	0.129	0.0466
C6 +	0.240	0.1041
Nitrogen	14.889	
CO2	1.529	
	100.00%	1.6608

BTU @ 14.65 @ 60 F - Real

Dry 920.0  
Wet 903.9

Gasoline Content

Propane And Heavier 0.7273  
Butane And Heavier 0.4053  
Pentane And Heavier 0.2022

Specific Gravity - Real 0.6807  
Z = 0.9979

H2S Field Test: 0 PPM

Field Remarks: First Sales

Analysis Based Upon GPA 2145, 2172, And 2261



# Mid-Continent Conductor, LLC

## Invoice

Date	Invoice #
3/15/2012	1254

P.O. Box 1570  
Woodward, OK 73802

Phone: (580)254-5400

Fax: (580)254-3242

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
Lawrence	Net 45	3/15/2012	Amelia Grace 1-2H, Comanche Cnty, ...	Lariat 38

Item	Quantity	Description	
Conductor Hole	122	Drilled 122 ft. conductor hole	
20" Pipe	122	Furnished 122 ft. of 20 inch conductor pipe	
Mouse Hole	80	Drilled 80 ft. mouse hole	
16" Pipe	80	Furnished 80 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	
Mud, Water, & Trucking	1	Transport mud and water to location	
Grout & Trucking	14	Furnished 14 yards of grout and trucking to location	
Grout Pump	1	Furnished grout pump	
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	
			<b>Subtotal</b> \$26,604.00
			<b>Sales Tax (0.0%)</b> \$0.00
			<b>Total</b> \$26,604.00

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>sok1328</b>	TICKET DATE <b>03/27/12</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Andridge Exp and Productio</b>	CUSTOMER REP <b>Felix Ortiz Jr.</b>	
LEASE NAME <b>Amelia Grace</b>	Well No. <b>1-2H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Johnny Breeze</b>	

EMP NAME							
Johnny Breeze							
Scott Woods							
Daniel Wells							
David Settlemier							

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At **0**  
Bottom Hole Temp. **80** Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth **1050**

Date	Called Out <b>3/27/2012</b>	On Location <b>3/27/2012</b>	Job Started <b>3/27/2012</b>	Job Completed <b>3/27/2012</b>
Time	<b>0300</b>	<b>0900</b>	<b>1140</b>	<b>1330</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	36.0	9 5/8		Surface	1,057	
Liner						
Liner						
Tubing		0				
Drill Pipe						
Open Hole			12 1/4	Surface	1,050	Shots/Ft.
Perforations						
Perforations						
Perforations						

**Materials**

Mud Type \_\_\_\_\_ Density \_\_\_\_\_ Lb/Gal  
Disp. Fluid \_\_\_\_\_ Density \_\_\_\_\_ Lb/Gal  
Spacer type \_\_\_\_\_ BBL. \_\_\_\_\_  
Spacer type \_\_\_\_\_ BBL. \_\_\_\_\_  
Acid Type \_\_\_\_\_ Gal. \_\_\_\_\_ %  
Acid Type \_\_\_\_\_ Gal. \_\_\_\_\_ %  
Surfactant \_\_\_\_\_ Gal. \_\_\_\_\_ In  
NE Agent \_\_\_\_\_ Gal. \_\_\_\_\_ In  
Fluid Loss \_\_\_\_\_ Gal/Lb \_\_\_\_\_ In  
Gelling Agent \_\_\_\_\_ Gal/Lb \_\_\_\_\_ In  
Fric. Red. \_\_\_\_\_ Gal/Lb \_\_\_\_\_ In  
MISC. \_\_\_\_\_ Gal/Lb \_\_\_\_\_ In

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
3/27	4.5	3/27	4.0	Surface
Total	4.5	Total	4.0	

Pressures			
MAX	1500	AVG.	130
Average Rates in BPM			
MAX	8	AVG	5
Cement Left in Pipe			
Feet	46	Reason	Shoe track

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	470	O-Tex Lite Standard	(6%Gel) 2% Calcium Chloride - 1/4 lb/sk Cellflake - 0.5% C-41P	10.88	1.84	12.70
2	180	Standard	2% Calcium Chloride - 1/4 lb/sk Celloflake	5.20	1.18	15.60
3	100	Standard	2% Calcium Chloride on the side	5.20	1.18	15.60

**Summary**

Preflush \_\_\_\_\_ Type: \_\_\_\_\_ Preflush: BBI **10.00** Type: **Fresh water**  
Breakdown \_\_\_\_\_ MAXIMUM \_\_\_\_\_ Load & Bkdn: Gal - BBI **n/a** Pad:Bbl - Gal \_\_\_\_\_  
Lost Returns-N \_\_\_\_\_ NO/FULL \_\_\_\_\_ Excess /Return BBI **38** Calc.Disp Bbl **78**  
Actual TOC \_\_\_\_\_ surface \_\_\_\_\_ Calc. TOC: **surface** Actual Disp. **78.00**  
Average \_\_\_\_\_ Bump Pressure **840** Final Circulatio PSI **310** Disp:Bbl \_\_\_\_\_  
ISIP \_\_\_\_\_ 5 Min. \_\_\_\_\_ 10 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurry: BBI **191.9**  
Total Volume BBI **279.90**

CUSTOMER REPRESENTATIVE *Felix Ortiz* SIGNATURE \_\_\_\_\_

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1345</b>	TICKET DATE <b>04/01/12</b>
COUNTY <b>Comanche</b>	State <b>Kansas</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>Roger Barber</b>	
LEASE NAME <b>Amelia Grace</b>	Well No. <b>1-2H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Robert Burris</b>	

EMP NAME <b>Robert Burris</b>	<b>Jared Green</b>				
<b>Arthur Setzar</b>					
<b>Rocky Anthis</b>					
<b>Larry Kirchner Sr.</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At **4,303'**  
Bottom Hole Temp. **150** Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth **5,615'**

Date	Called Out <b>4/1/2012</b>	On Location <b>4/1/2012</b>	Job Started <b>4/1/2012</b>	Job Completed <b>4/1/2012</b>
Time	<b>12:00</b>	<b>16:30</b>	<b>17:00</b>	<b>19:30</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface	5,615'	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,615'	Shots/Ft.
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	resh Wate BBL.	20	8.33
Spacer type	Caustic BBL.	10	8.40
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		ln
NE Agent	Gal.		ln
Fluid Loss	Gal/Lb		ln
Gelling Agent	Gal/Lb		ln
Fric. Red.	Gal/Lb		ln
MISC.	Gal/Lb		ln

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
4/1	3.0	4/1	3.0	Intermediate
Total	3.0	Total	3.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_  
Other \_\_\_\_\_

Pressures	
MAX	5,000 PSI
AVG.	700
Average Rates in BPM	
MAX	8 BPM
AVG	6
Cement Left in Pipe	
Feet	89
Reason SHOE JOINT	

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	120	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary								
Preflush	<b>10</b>	Type:	Caustic	Preflush:	BBI	<b>20.00</b>	Type:	Fresh Water
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI		Calc. Disp Bbl	212
		Actual TOC	4,230'	Calc. TOC:		4,230'	Actual Disp.	207.00
Average		Bump Plug PSI:		Final Circ.	PSI:		Disp:Bbl	
ISIP	5 Min.	10 Min.	15 Min.	Cement Slurry:	BBI			
				Total Volume	BBI	<b>227.00</b>		

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK1366</b>	TICKET DATE <b>04/08/12</b>
COUNTY <b>COMANCHE</b>	State <b>KANSAS</b>	COMPANY <b>Bridge Exploration &amp; Produc</b>	CUSTOMER REP <b>ROGER BARBER</b>	
LEASE NAME <b>AMELIA GRACE</b>	Well No. <b>1-2H</b>	JOB TYPE <b>Liner</b>	EMPLOYEE NAME <b>Eric Parsons</b>	

EMP NAME

<b>Eric Parsons</b>	<b>Larry Kirchner Sr.</b>				
<b>Jared Green</b>					
<b>Arthur Setzer</b>					
<b>Rocky Anthis</b>					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At **0**

Bottom Hole Temp. **150** Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth **9916**

Date	Called Out	On Location	Job Started	Job Completed
	<b>4/8/2012</b>	<b>4/8/2012</b>	<b>4/8/2012</b>	<b>4/8/2012</b>
Time	<b>5:30 PM</b>			

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		11.6	4 1/2		5057	9,560	1,500
Liner							
Liner							
Drill Collars						5,057	
Drill Pipe			3 1/2		5,057		
Open Hole			6 1/8			9,560	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
	WBM	Density	Lb/Gal
Mud Type		<b>9</b>	
Disp. Fluid	Fresh Water	<b>8.33</b>	
Spacer type	resh Water BBL.	<b>10</b>	<b>8.33</b>
Spacer type	cstc BBL.	<b>10</b>	
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Gelling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>4/8</b>	<b>4.0</b>	<b>4/8</b>	<b>2.0</b>	Liner
Total	<b>4.0</b>	Total	<b>2.0</b>	

Pressures			
MAX	5,000 PSI	AVG	400
Average Rates in BPM			
MAX	6 BPM	AVG	3.5
Cement Left in Pipe			
Feet	82	Reason	SHOE JOINT

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
<b>1</b>	<b>470</b>	<b>50/50 Premium Poz</b>	<b>(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal</b>	<b>6.77</b>	<b>1.44</b>	<b>13.60</b>
<b>2</b>	<b>0</b>	<b>0</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>3</b>	<b>0</b>	<b>0</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Summary								
Preflush	<b>Caustic</b>	Type:	Fresh water	Preflush:	BBI	<b>30.00</b>	Type:	Fresh Water
Breakdown		MAXIMUM	<b>1,500 PSI</b>	Load & Bkdn:	Gal - BBI	<b>N/A</b>	Pad:Bbl -Gal	<b>N/A</b>
		Lost Returns-N	<b>NO/FULL</b>	Excess /Return	BBI		Calc.Disp Bbl	<b>101</b>
		Actual TOC		Calc. TOC:		<b>5,057</b>	Actual Disp.	<b>93.00</b>
Average		Bump Plug PSI:	<b>1,500</b>	Final Circ.	PSI:	<b>850</b>	Disp:Bbl	
ISIP	<b>5 Min.</b>	10 Min		Cement Slurry:	BBI	<b>121.0</b>		
		15 Min		Total Volume	BBI	<b>244.00</b>		

CUSTOMER REPRESENTATIVE SIGNATURE

# **SandRidge Energy**

**Comanche County (KS27S)**

**Sec 2-T31S-R20W - GRID**

**Amelia Grace 1-2H**

**Wellbore #1**

**Survey: MWD Surveys**

## **Standard Survey Report**

**10 April, 2012**

# Wolverine Directional, LLC

## Survey Report

<b>Company:</b> SandRidge Energy	<b>Local Co-ordinate Reference:</b> Well Amelia Grace 1-2H
<b>Project:</b> Comanche County (KS27S)	<b>TVD Reference:</b> WELL @ 0.0ft (Original Well Elev)
<b>Site:</b> Sec 2-T31S-R20W - GRID	<b>MD Reference:</b> WELL @ 0.0ft (Original Well Elev)
<b>Well:</b> Amelia Grace 1-2H	<b>North Reference:</b> Grid
<b>Wellbore:</b> Wellbore #1	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Wellbore #1	<b>Database:</b> EDM 2003.21 Single User Db

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(^)	
	0.0	0.0	0.0	180.84	

<b>Survey Program</b>	Date 2012/04/10			
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
1,140.0	9,560.0	MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (^)	Azimuth (^)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (^/100ft)	Build Rate (^/100ft)	Turn Rate (^/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,140.0	0.30	302.90	1,140.0	1.6	-2.5	-1.6	0.03	0.03	0.00	
<b>First MWD Survey</b>										
1,425.0	2.40	200.40	1,424.9	-3.6	-5.2	3.6	0.87	0.74	-35.96	
1,711.0	0.80	158.40	1,710.8	-11.0	-6.6	11.1	0.66	-0.56	-14.69	
1,901.0	0.50	175.70	1,900.8	-13.1	-6.0	13.2	0.19	-0.16	9.11	
2,187.0	0.60	171.40	2,186.8	-15.8	-5.7	15.9	0.04	0.03	-1.50	
2,473.0	0.40	155.20	2,472.8	-18.2	-5.1	18.3	0.08	-0.07	-5.66	
2,759.0	0.70	139.90	2,758.7	-20.5	-3.5	20.5	0.12	0.10	-5.35	
3,045.0	0.50	122.10	3,044.7	-22.5	-1.3	22.5	0.09	-0.07	-6.22	
3,330.0	1.00	108.30	3,329.7	-23.9	2.1	23.9	0.19	0.18	-4.84	
3,616.0	0.60	79.60	3,615.7	-24.4	5.9	24.3	0.19	-0.14	-10.03	
3,901.0	0.60	75.00	3,900.7	-23.8	8.8	23.6	0.02	0.00	-1.61	
3,997.0	0.80	107.30	3,996.7	-23.8	10.0	23.7	0.45	0.21	33.65	
4,090.0	0.80	113.10	4,089.6	-24.3	11.2	24.1	0.09	0.00	6.24	
4,186.0	0.50	104.20	4,185.6	-24.6	12.2	24.5	0.33	-0.31	-9.27	
4,217.0	0.70	81.10	4,216.6	-24.6	12.5	24.5	1.00	0.65	-74.52	
4,250.0	0.50	112.80	4,249.6	-24.7	12.9	24.5	1.15	-0.61	96.06	
4,282.0	1.80	162.90	4,281.6	-25.2	13.1	25.0	4.78	4.06	156.56	
4,314.0	4.60	175.90	4,313.6	-27.0	13.4	26.8	8.98	8.75	40.63	
4,345.0	6.60	180.50	4,344.4	-30.0	13.4	29.8	6.61	6.45	14.84	
4,377.0	8.10	183.10	4,376.2	-34.1	13.3	33.9	4.80	4.69	8.13	
4,409.0	9.60	185.50	4,407.8	-39.0	12.9	38.8	4.83	4.69	7.50	
4,441.0	11.60	186.10	4,439.2	-44.8	12.3	44.6	6.26	6.25	1.88	
4,473.0	14.50	186.60	4,470.4	-52.0	11.5	51.8	9.07	9.06	1.56	
4,504.0	17.00	187.50	4,500.2	-60.4	10.5	60.2	8.10	8.06	2.90	
4,536.0	19.10	187.90	4,530.7	-70.2	9.2	70.0	6.57	6.56	1.25	
4,568.0	21.00	186.10	4,560.7	-81.1	7.8	81.0	6.24	5.94	-5.63	
4,599.0	23.00	183.50	4,589.5	-92.6	6.9	92.5	7.17	6.45	-8.39	
4,631.0	24.90	183.10	4,618.7	-105.6	6.1	105.5	5.96	5.94	-1.25	
4,663.0	27.00	184.00	4,647.5	-119.6	5.3	119.5	6.68	6.56	2.81	
4,695.0	28.60	185.30	4,675.8	-134.5	4.0	134.4	5.35	5.00	4.06	
4,726.0	29.00	187.00	4,703.0	-149.3	2.4	149.3	2.94	1.29	5.48	
4,758.0	30.80	186.80	4,730.7	-165.1	0.5	165.1	5.63	5.63	-0.63	
4,790.0	33.10	186.00	4,757.8	-182.0	-1.4	182.0	7.31	7.19	-2.50	
4,822.0	35.80	185.10	4,784.2	-200.0	-3.1	200.0	8.59	8.44	-2.81	
4,853.0	38.00	185.00	4,809.0	-218.5	-4.7	218.6	7.10	7.10	-0.32	
4,885.0	39.50	184.40	4,834.0	-238.5	-6.4	238.6	4.83	4.69	-1.88	
4,917.0	41.60	183.10	4,858.3	-259.2	-7.7	259.3	7.07	6.56	-4.06	

# Wolverine Directional, LLC

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Amelia Grace 1-2H
<b>Project:</b>	Comanche County (KS27S)	<b>TVD Reference:</b>	WELL @ 0.0ft (Original Well Elev)
<b>Site:</b>	Sec 2-T31S-R20W - GRID	<b>MD Reference:</b>	WELL @ 0.0ft (Original Well Elev)
<b>Well:</b>	Amelia Grace 1-2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,948.0	44.30	181.90	4,881.0	-280.3	-8.7	280.4	9.10	8.71	-3.87
4,980.0	47.30	181.00	4,903.3	-303.3	-9.2	303.4	9.59	9.38	-2.81
5,012.0	49.90	180.10	4,924.4	-327.3	-9.5	327.4	8.39	8.13	-2.81
5,044.0	51.50	179.90	4,944.7	-352.0	-9.5	352.1	5.02	5.00	-0.63
5,076.0	51.60	179.40	4,964.6	-377.1	-9.3	377.2	1.26	0.31	-1.56
5,107.0	51.40	179.10	4,983.9	-401.4	-9.0	401.4	0.99	-0.65	-0.97
5,139.0	51.10	179.00	5,003.9	-426.3	-8.6	426.4	0.97	-0.94	-0.31
5,171.0	50.80	178.80	5,024.1	-451.2	-8.1	451.2	1.06	-0.94	-0.63
5,202.0	50.40	178.60	5,043.8	-475.1	-7.6	475.2	1.38	-1.29	-0.65
5,234.0	52.00	178.50	5,063.8	-500.0	-6.9	500.1	5.01	5.00	-0.31
5,266.0	55.30	178.30	5,082.8	-525.8	-6.2	525.8	10.32	10.31	-0.63
5,298.0	58.80	179.00	5,100.2	-552.6	-5.6	552.7	11.09	10.94	2.19
5,329.0	62.70	180.10	5,115.3	-579.7	-5.4	579.7	12.96	12.58	3.55
5,361.0	66.30	180.40	5,129.1	-608.6	-5.5	608.6	11.28	11.25	0.94
5,393.0	69.10	180.70	5,141.3	-638.2	-5.8	638.2	8.79	8.75	0.94
5,425.0	71.70	181.10	5,152.0	-668.3	-6.3	668.3	8.21	8.13	1.25
5,456.0	74.40	180.90	5,161.0	-697.9	-6.8	698.0	8.73	8.71	-0.65
5,488.0	76.90	180.60	5,169.0	-728.9	-7.2	729.0	7.87	7.81	-0.94
5,520.0	79.30	180.80	5,175.6	-760.2	-7.6	760.3	7.52	7.50	0.63
5,552.0	81.70	181.10	5,180.8	-791.8	-8.1	791.8	7.56	7.50	0.94
5,563.0	82.50	181.20	5,182.3	-802.7	-8.3	802.7	7.33	7.27	0.91
5,634.0	85.80	181.70	5,189.6	-873.3	-10.1	873.3	4.70	4.65	0.70
5,665.0	88.00	181.50	5,191.3	-904.2	-11.0	904.3	7.13	7.10	-0.65
5,695.0	89.70	182.30	5,191.9	-934.2	-11.9	934.3	6.26	5.67	2.67
5,726.0	89.80	182.00	5,192.0	-965.2	-13.1	965.3	1.02	0.32	-0.97
5,757.0	89.80	181.70	5,192.1	-996.2	-14.1	996.3	0.97	0.00	-0.97
5,849.0	89.80	182.40	5,192.4	-1,088.1	-17.4	1,088.2	0.76	0.00	0.76
5,941.0	90.20	182.00	5,192.4	-1,180.0	-20.9	1,180.2	0.61	0.43	-0.43
6,032.0	90.20	181.60	5,192.1	-1,271.0	-23.8	1,271.2	0.44	0.00	-0.44
6,124.0	90.30	180.70	5,191.7	-1,363.0	-25.6	1,363.2	0.98	0.11	-0.98
6,216.0	89.00	181.30	5,192.3	-1,455.0	-27.2	1,455.2	1.56	-1.41	0.65
6,308.0	88.80	181.00	5,194.0	-1,546.9	-29.1	1,547.2	0.39	-0.22	-0.33
6,400.0	88.40	180.80	5,196.3	-1,638.9	-30.5	1,639.2	0.49	-0.43	-0.22
6,492.0	88.00	180.10	5,199.2	-1,730.8	-31.3	1,731.1	0.88	-0.43	-0.76
6,584.0	89.00	180.90	5,201.6	-1,822.8	-32.1	1,823.1	1.39	1.09	0.87
6,676.0	88.90	180.80	5,203.3	-1,914.8	-33.4	1,915.1	0.15	-0.11	-0.11
6,772.0	87.80	181.60	5,206.0	-2,010.7	-35.4	2,011.0	1.42	-1.15	0.83
6,867.0	89.10	180.60	5,208.6	-2,105.7	-37.3	2,106.0	1.73	1.37	-1.05
6,963.0	89.40	179.30	5,209.9	-2,201.6	-37.2	2,201.9	1.39	0.31	-1.35
7,059.0	89.40	179.20	5,210.9	-2,297.6	-35.9	2,297.9	0.10	0.00	-0.10
7,154.0	88.80	178.20	5,212.4	-2,392.6	-33.8	2,392.8	1.23	-0.63	-1.05
7,250.0	88.90	177.70	5,214.3	-2,488.5	-30.3	2,488.7	0.53	0.10	-0.52
7,346.0	90.40	178.40	5,214.9	-2,584.4	-27.1	2,584.6	1.72	1.56	0.73
7,441.0	90.00	176.90	5,214.5	-2,679.4	-23.2	2,679.4	1.63	-0.42	-1.58
7,537.0	89.40	178.20	5,215.0	-2,775.3	-19.1	2,775.3	1.49	-0.63	1.35
7,633.0	89.40	178.50	5,216.0	-2,871.2	-16.3	2,871.2	0.31	0.00	0.31
7,728.0	89.70	179.60	5,216.8	-2,966.2	-14.7	2,966.1	1.20	0.32	1.16
7,824.0	89.30	180.10	5,217.6	-3,062.2	-14.5	3,062.1	0.67	-0.42	0.52
7,919.0	90.40	182.50	5,217.9	-3,157.2	-16.6	3,157.1	2.78	1.16	2.53
8,015.0	88.80	183.10	5,218.5	-3,253.1	-21.3	3,253.0	1.78	-1.67	0.63
8,111.0	88.80	182.20	5,220.6	-3,348.9	-25.8	3,348.9	0.94	0.00	-0.94
8,207.0	89.30	182.30	5,222.1	-3,444.8	-29.5	3,444.9	0.53	0.52	0.10
8,302.0	89.20	182.30	5,223.4	-3,539.8	-33.3	3,539.9	0.11	-0.11	0.00
8,398.0	89.20	182.40	5,224.7	-3,635.7	-37.3	3,635.8	0.10	0.00	0.10

# Wolverine Directional, LLC

## Survey Report

<b>Company:</b>	SandRidge Energy	<b>Local Co-ordinate Reference:</b>	Well Amelia Grace 1-2H
<b>Project:</b>	Comanche County (KS27S)	<b>TVD Reference:</b>	WELL @ 0.0ft (Original Well Elev)
<b>Site:</b>	Sec 2-T31S-R20W - GRID	<b>MD Reference:</b>	WELL @ 0.0ft (Original Well Elev)
<b>Well:</b>	Amelia Grace 1-2H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	EDM 2003.21 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,494.0	89.50	181.60	5,225.8	-3,731.6	-40.6	3,731.8	0.89	0.31	-0.83
8,589.0	90.00	181.40	5,226.2	-3,826.6	-43.1	3,826.8	0.57	0.53	-0.21
8,685.0	90.40	181.70	5,225.9	-3,922.5	-45.7	3,922.8	0.52	0.42	0.31
8,780.0	90.50	182.60	5,225.2	-4,017.5	-49.3	4,017.7	0.95	0.11	0.95
8,876.0	88.50	184.70	5,226.0	-4,113.2	-55.4	4,113.6	3.02	-2.08	2.19
8,972.0	88.30	184.60	5,228.7	-4,208.9	-63.2	4,209.4	0.23	-0.21	-0.10
9,068.0	88.80	184.00	5,231.1	-4,304.6	-70.4	4,305.2	0.81	0.52	-0.63
9,163.0	88.90	183.10	5,233.0	-4,399.4	-76.2	4,400.0	0.95	0.11	-0.95
9,259.0	88.90	182.50	5,234.8	-4,495.3	-80.9	4,496.0	0.62	0.00	-0.63
9,354.0	89.30	181.60	5,236.3	-4,590.2	-84.3	4,590.9	1.04	0.42	-0.95
9,450.0	90.30	181.10	5,236.7	-4,686.2	-86.6	4,686.9	1.16	1.04	-0.52
9,511.0	90.40	180.20	5,236.3	-4,747.2	-87.3	4,747.9	1.48	0.16	-1.48
<b>Last MWD Survey</b>									
9,559.8	90.40	180.20	5,236.0	-4,796.0	-87.4	4,796.7	0.00	0.00	0.00
<b>Amelia Grace 1-2H PBHL</b>									
9,560.0	90.40	180.20	5,236.0	-4,796.1	-87.4	4,796.9	0.00	0.00	0.00
<b>Proj to TD</b>									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,140.0	1,140.0	1.6	-2.5	First MWD Survey
9,511.0	5,236.3	-4,747.2	-87.3	Last MWD Survey
9,560.0	5,236.0	-4,796.1	-87.4	Proj to TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Logo

Back to Well Completion

# Amelia Grace 1-2H (1076292)

**Actions**

View PDF
Delete
Edit
Certify & Submit
Request Confidentiality

**Attachments**

Two Year Confidentiality OPERATOR	View PDF Delete
Gas Analysis OPERATOR	View PDF Delete
Cement Reports OPERATOR	View PDF Delete
Directional Survey OPERATOR	View PDF Delete

Add Attachment

**Remarks**

Remarks to KCC
----------------

Add Remark

**Remarks**

Tiffany Golay 07/13/012 02:30 pm	Addtl. Drilling Fluid Mgmt Info: 1360 bbls hauled to West OK Disposal. Lease Name: Smit- Woodward, O 21-23N-21W SW 1/4. 1540 bbls hauled to Weinette Disposal LLC. 1079S-43 Block Lipscomb, TX. 140 bbls hauled to Guard, Inc disposal in Major County, KS 23-2N-13W
Tiffany Golay 06/28/012 01:12 pm	Conductor was set using 14 yards of grout. Weight- 94 lbs/ft

Section 35  
30S 20W

Section 36  
30S 20W

AMELIA GRACE 1-2H



Miss Entry: 5329'  
-99.468933 37.379378

Top Perf: 5425'  
-99.468924 37.379137

Section 3  
31S 20W

Section 2  
31S 20W

Bottom Perf: 9163'  
-99.468694 37.368989

BHL: 9560'  
-99.468683 37.367910

860' FWL

353' FSL

Section 10  
31S 20W

Section 11  
31S 20W



**Actual Bottom-Hole Location of Amelia Grace 1-2H**  
Comanche County, Kansas  
T&R: 31S 20W  
Section: 2, 860' FWL & 353' FSL  
Long/Lat: -99.468683 37.367910

1 in = 833 ft



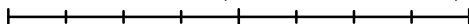
● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections

0 500 1,000 2,000 Feet



Draftsman:

Aaron Birk

Draft Date: 7/5/2012

Drawing Name/Number:

Addendum\_Amelia\_Grace\_1-2H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502