Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1221546

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Wanda Ledbetter
Phone: (405) 429-5500
CONTRACTOR: License # 34979
Name: L.C.B. Resources, LLC
Wellsite Geologist: Bob Wilcox
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: SandRidge Exploration & Production LLC
Well Name: Perth 3302 1-1
Original Comp. Date: 10/15/2013 Original Total Depth: 4410

☐ 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 #:

5/12/2014 — Spud Date or Recompletion Date
— — Date Reached TD
7/9/2014 — Completion Date or Recompletion Date

API No. 15 - 15-191-22699-00-01
Spot Description:
_ - SE - SE - SE Sec. 1 Twp. 33 S. R. 2 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
330 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Sumner
Lease Name: Perth SWD 3302 Well #: 1-1
Field Name:
Producing Formation: Arbuckle injection
Elevation: Ground: 1230 Kelly Bushing: 1244
Total Vertical Depth: 4800 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 280 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: 09/04/2014
☑ **Confidential Release Date:** 09/03/2016
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 09/04/2014

[redacted] 1221546

Operator Name: SandRidge Exploration and Production LLC Lease Name: Perth SWD 3302 Well #: 1-1

Sec. 1 Twp. 33 S. R. 2 ☐ East ☑ West County: Sumner

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 (Attach Additional Sheets)	☐ Yes	☑ No	☑ Log	Formation (Top), Depth and Datum ☐ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name: Attached	Top: Attached Datum: Attached
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☐ Yes	☑ No		
List All E. Logs Run:				

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
		Miss Perf Squeeze	3964-3989

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	3.5	4389	4377	☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.	Producing Method:
7/21/2014	☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* SWD injection

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*	4394-4800

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth SWD 3302 1-1
Doc ID	1221546

Tops

Name	Top	Datum
Base Heebner	2534	-1292
Kansas City	3204	-1962
Cherokee	3662	-2420
Mississippian	3879	-2637
Kinderhook	4184	-2942
Woodford	4231	-2989
Simpson	4259	-3017
Arbuckle	4368	-3126

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth SWD 3302 1-1
Doc ID	1221546

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives

Re completion

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3729	05/15/14

COUNTY	State	COMPANY	CUSTOMER REP
Sumner	Kansas	Sandridge Exploration & Production	Curtis

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Perth 3302	1-1	Squeeze Job	Eric Parsons

EMP NAME							
Eric Parsons		0					
Wallace Berry							
Dave Thomas							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 3,311

Bottom Hole Temp. 120 Pressure _____

Retainer Depth _____ Total Depth 3964

	Called Out	On Location	Job Started	Job Completed
Date		5/15/2014	5/15/2014	5/15/2014
Time		7:00am	8:25am	10;45AM

Tools and Accessories

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		17#	5½"	Surface	3,964	2,500 PSI
Liner						
Liner						
Tubing			2 7/8"			
Drill Pipe						
Open Hole			0	Surface	3,970	Shots/Ft.
Perforations						
Packer @					3,312	
Holes @				3,964	3,989	

Materials

Mud Type	WBM	Density 9		Lb/Gal
Disp. Fluid	Fresh Water	Density 8.33		Lb/Gal
Spacer type	resh Wate	BBL.		8.33
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				
Other				

Hours On Location

Date	Hours
5/15	4.0
Total	4.0

Operating Hours

Date	Hours
5/15	2.0
Total	2.0

Description of Job

Squeeze Job

Pressures

MAX 2,500 PSI AVG 1,500 PSI

Average Rates in BPM

MAX 3 BPM AVG 0.5

Cement Left in Pipe

Feet _____ Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	50	Premium Plus (Class C)	NEAT	6.32	1.32	14.80
2	0	0	0	0.00	0	0.00
3	0	0	0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush:	BBl	30.00	Type: Fresh Water
Breakdown		MAXIMUM	2,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 34
		Actual TOC		Calc. TOC:			Actual Disp. 20.50
Average		Bump Plug PSI:		Final Circ.	PSI:		Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	11.7	
				Total Volume	BBl	42.20	

CUSTOMER REPRESENTATIVE _____ Curtis Bussard

SIGNATURE

Original Completion

ALLIED
OIL & GAS SERVICES, LLC

SandRidge Energy
Perth 3302 #2-1H surface
Sumner 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 Perth 3302 #2-1H 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 2000 psi. After a successful test we began the job by pumping 5 bbls of preflush spacer. We then mixed and pumped the following cements:

39 Bbls (180 sacks) of 15.6 ppg slurry:
Class A - 1.20 Yield
2.0% cc
¼# floseal

The top plug was then released and displaced with 16Bbls of fresh water. The plug bumped and pressured up to 1000 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.

original Completion

ALLIED
OIL & GAS SERVICES, LLC

SandRidge Energy
Perth #3302 2-1H
Sumner 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 Perth #3302 2-1H 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 3000 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 176.5 Bbls of fresh water. The plug bumped and pressured up to 1250 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.

original completion

JOB SUMMARY

COUNTY	STATE	COMPANY	PROJECT NUMBER	TICKET DATE
Sumner	Kansas	Sandridge Exploration & Production	SOK 3543	03/24/14

LEASE NAME	Well No.	JOB TYPE	CUSTOMER REP	EMPLOYEE NAME
Perth 3302	1-1	Squeeze Job	Billy Branch	Arthur Setzer

EMP NAME		EMP NAME		EMP NAME		EMP NAME	
Arthur Setzer		Eric Parsons					
Jared Green							
David Settlemier							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 120 Pressure _____

Retainer Depth _____ Total Depth 3,575'

	Called Out	On Location	Job Started	Job Completed
Date		3/23/2014	3/24/2014	3/24/2014
Time		7:00am	8:30am	11:30am

Tools and Accessories

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		17#	5 1/2"	Surface	3,575'	6,000
Liner						
Liner						
Tubing			2 7/8"			
Drill Pipe						
Open Hole			0	Surface	4,284	Shots/Ft.
Perforations						
Perforations						
Packer @					3,006	

Materials

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Wate	BBL.	20	8.33
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	
Frlc. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	
Perfpac Balls		Qty.		
Other				
Other				
Other				
Other				
Other				

Hours On Location

Date	Hours
3/24	4.0
Total	4.0

Operating Hours

Date	Hours
3/24	2.0
Total	2.0

Description of Job

Squeeze Job

Pressures

MAX 1,500 PSI AVG. 600

Average Rates in BPM

MAX 4 BPM AVG 1

Cement Left in Pipe

Feet Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	25	Thixatropic	4% Gel - 10% Gypsum	7.75	1.60	14.40
2	25	Premium H	NEAT	5.23	1.18	15.60
3	0	0		0	0.00	0.00

Summary

Preflush _____ Type: _____

Breakdown _____ MAXIMUM 5,000 PSI

_____ Lost Returns-N NO/FULL

_____ Actual TOC _____

Average _____ Bump Plug PSI: _____

ISIP _____ 5 Min. _____ 10 Min _____ 15 Min _____

Preflush: BBl 20.00 Type: Fresh Water

Load & Bkdn: Gal - BBl N/A Pad:Bbl -Gal N/A

Excess /Return BBl N/A Calc.Disp Bbl 28

Calc. TOC: _____ Actual Disp. 26.50

Final Circ. PSI: _____ Disp:Bbl _____

Cement Slurry: BBl 12.4

Total Volume BBl 58.90

CUSTOMER REPRESENTATIVE Billy Branch SIGNATURE

original Completion

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 3527	03/19/14

COUNTY	State	COMPANY	CUSTOMER REP
Sumner	Kansas	Sandridge Exploration & Production	Billy Branch

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Perth 3302	1-1	Squeeze Job	Robert Burris

EMP NAME							
Robert Burris		Eric Parsons					
Robert Burris							
Cheryl Newton							
Robert Stonehocker							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 120 Pressure _____

Retainer Depth _____ Total Depth 3,575'

	Called Out	On Location	Job Started	Job Completed
Date		3/19/2014	3/19/2014	3/19/2014
Time		10:00am	11:00am	1:30pm

Tools and Accessories

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		17#	5 1/2"		Surface	4,322	5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			0		Surface		Shots/Ft.
Perforations					3,575	4,284	
Perforations							
Perforations							

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	Fresh Wate	BBL. 20		8.33
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				
Other				

Hours On Location

Date	Hours
3/19	
Total	0.0

Operating Hours

Date	Hours
3/19	
Total	0.0

Description of Job

Squeeze Job

Pressures

MAX 1,000 PSI AVG.

Average Rates in BPM

MAX 4 BPM AVG

Cement Left in Pipe

Feet Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	100	Thixatropic	4% Gel - 10% Gypsum	7.75	1.60	14.40
2	100	Premium H	NEAT	5.23	1.18	15.60
3	0	0	0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush: BBl	10.00	Type: Fresh Water
Breakdown		MAXIMUM	1,000 PSI	Load & Bkdn: Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return BBl	N/A	Calc.Disp Bbl 70
		Actual TOC		Calc. TOC:		Actual Disp. 70.00
Average		Bump Plug PSI:		Final Circ. PSI:	0	Disp:Bbl
:sI	5 Min.	10 Min	15 Min	Cement Slurry: BBl	49.5	
				Total Volume BBl	129.50	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS
CONSERVATION DIVISION

INJECTION PERMIT FOR DISPOSAL WELL

Oper. License #: 34192 | Permit #: D-31859

Operator: Sandridge Exploration & Production, LLC | Well Name & No.: Perth SWD 3302 #1-1

Address: 123 Robert S Kerr Avenue | Location: 330'FSL 330'FEL

City: Oklahoma City | Sec. 1 TWP 33 RGE 2 ☐ (E) ☒ (W)

State: Oklahoma | County: Sumner

Zip Code: 73102 | Field Name: Perth

Project Acreage: A 3.72 acre tract of land in the SE/4 of Sec. 1-T33S-R2W.

After reviewing the operator's application for an Disposal Injection Well Permit dated 2-20-2014, the Conservation Division grants a permit for the injection of produced saltwater or other fluids approved by the Conservation Division. Each additional permitted well is subject to the specifications and requirements of this permit including any attachments or any attached amendments.

- **The injection formation is known as the Arbuckle.**
- **The depth of the permitted injection interval is from 4394' to 4800', ☐(PF), ☒(OH)**
- **The maximum authorized injection rate is 20000 barrels of fluid per day.**
- **The maximum authorized injection pressure is 500 PSIG.**
- **Authorized rates and pressures are subject to temporary or permanent modification during or as the result of any investigation conducted by Commission Staff. Injection rates and pressures will be recorded daily, retained for two years and provided to the Commission upon request.**
- **Attachment ☐ YES, ☒ NO.**

Complete casing information for the well is as follows:

	SIZE	SEAT DEPTH	INTERVAL CEMENTED	SACKS CEMENT USED
Conductor	**20"**	**40'**	**0' to 40'**	**10**
Surface	**8-5/8"**	**225'**	**0' to 225'**	**225**
Intermediate	**NONE"**	'	' to '	
Production	**5-1/2"**	**4394'**	**1650' to 4394'**	**355**
Tubing	**3-1/2"**	**4389'**	' to '	

Additional Cementing: NONE' to '
Packer type and setting depth: TENSION set @ 4380'.

Well(s), Leases(s) and Facilities supplying fluid for injection:

Lease Operator	Lease Name	Lease Description
Sandridge Explor. & Prod. LLC	Perth 3302 2-1 H	SE/4 SEC. 1-33-2W

In addition to the specific permit conditions and requirements set out above or on the attachment hereto, this permit is subject to all of the provisions of K.A.R. 83-3-400 et seq. Injection authority cannot be transferred without approval of the Conservation Division.

Date Approved: 7-16-2014

Director, Underground Injection Control
Conservation Division