Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1168499

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 # 34600
Name: Horizon Energy Services, LLC
Wellsite Geologist: Bob Wilcox
Purchaser: No sales yet

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 #:

7/18/2013 Spud Date or Recompletion Date
7/29/2013 Date Reached TD
10/23/2013 Completion Date or Recompletion Date

API No. 15 - 15-077-21943-00-00
Spot Description:
E2 - W2 - SE - SE Sec. 16 Twp. 33 S. R. 6 ☐ East ☑ West
660 Feet from ☐ North / ☑ South Line of Section
700 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Carother Brothers A 3306 Well #: 2-16
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1332 Kelly Bushing: 1345
Total Vertical Depth: 4940 Plug Back Total Depth: 4838
Amount of Surface Pipe Set and Cemented at: 745 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: 10000 ppm Fluid volume: 3920 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Texoma Tank Services LLC
Lease Name: unknown License #: 99999
Quarter NW Sec. 23 Twp. 29 S. R. 09 ☐ East ☑ West
County: Alfalfa County, OK Permit #: 13-23843

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: 11/15/2013
☑ **Confidential Release Date:** 11/15/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 11/18/2013

1168499

Operator Name: SandRidge Exploration and Production LLC Lease Name: Carother Brothers A 3306 Well #: 2-16

Sec. 16 Twp. 33 S. R. 6 ☐ East ☑ West County: Harper

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

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

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Spcetral Gamma Ray
Triple Combo

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

Name: Attached Top: Attached Datum: Attached

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
Surface	12.25	8.625	24	745	Class C Premium	355	see report
Production	7.875	5.5	17	4929	Class A Conventional	310	see report

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
3	4702-4712	Gel Frac	4702-4712
3	4460-4470	Gel Frac	4460-4470

TUBING RECORD: Size: 2.875 Set At: 4777 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
	0	0	390		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Carother Brothers A 3306 2-16
Doc ID	1168499

Tops

Name	Top	Datum
Heebner	3223	-1878
Lansing	3590	-2244
Cottage Grove	3838	-2493
Oswego	4142	-2797
Cherokee	4260	-2915
Mississippi	4443	-3098
Kinderhook	4802	-3457
Woodford	4878	-3533

Schlumberger Cementing Service Report

RECEIVED
AUG 5 2013
REGULATORY DEPT
SANDRIDGE ENERGY

Customer SANDRIDGE			**Job Number** C1YQ-00278
Well CAROTHER BROTHERS A3306 2-16	**Location (legal)**	**Schlumberger Location** ROK	**Job Start** Jul/23/2013
Field	**Formation Name/Type**	**Deviation** deg	**Bit Size** in / **Well MD** ft / **Well TVD** ft
County HARPER	**State/Province** KANSAS	**BHP** psi	**BHST** degF / **BHCT** degF / **Pore Press. Gradient** lb/gal
Well Master 0631478548	**API/UWI** 15077219430000		

Rig Name	**Drilled For**	**Service Via**
HORIZON 5	Oil & Gas	Land
Offshore Zone	**Well Class**	**Well Type**
	New	Exploration

Drilling Fluid Type	**Max. Density**	**Plastic Viscosity**
	9.00 lb/gal	34.000 cP

Service Line	**Job Type**
Cementing	8 .625" SURFACE

Max. Allowed Tub. Press	**Max. Allowed Ann. Press**	**WH Connection**
psi	psi	

Service Instructions

To provide equipment, materials, services and personnel to safely cement 8 5/8" surface casing per customer approval.
Pump 240 sks 35:65 Poz:C @ 12.40 ppg, 115 sks Class C @ 14.80 ppg, drop top plug and displace per customer specifications.

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
749.0	8.6	24.0		8 RD
0.0	0.0	0.0		

Tubing/Drill Pipe

T/D	Depth, ft	Size, in	Weight, lb/ft	Grade	Thread

Perforations/Open Hole

Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval
ft	ft			ft
ft	ft			Diameter in
ft	ft			

Treat Down	**Displacement** bbl	**Packer Type**	**Packer Depth** ft
Tubing Vol. bbl	**Casing Vol.** bbl	**Annular Vol.** bbl	**Openhole Vol.** bbl

Casing/Tubing Secured [X]	**1 Hole Vol. Circulated prior to Cement** [X]	**Casing Tools**	**Squeeze Job**
Lift Pressure 250 psi		**Shoe Type** Guide	**Squeeze Type**
Pipe Rotated [ ]	**Pipe Reciprocated** [ ]	**Shoe Depth** 749.0 ft	**Tool Type**
No. Centralizers 6	**Top Plugs** 1 / **Bottom Plugs** 0	**Stage Tool Type**	**Tool Depth** ft
Cement Head Type Single		**Stage Tool Depth** ft	**Tail Pipe Size** in
Job Scheduled For Jul/23/2013	**Arrived on Location** Jul/23/2013	**Collar Type** Float	**Tail Pipe Depth** ft
	Leave Location Jul/23/2013	**Collar Depth** 702.0 ft	**Sqz. Total Vol.** bbl

Date	Time 24-hr clock	Message
07/24/2013	00:08:52	Started Acquisition
07/24/2013	00:08:57	Start Job
07/24/2013	00:08:59	Start Pumping Spacer
07/24/2013	00:11:42	
07/24/2013	00:13:47	Pressure Test Lines
07/24/2013	00:14:32	
07/24/2013	00:17:22	
07/24/2013	00:20:12	
07/24/2013	00:22:54	End Spacer
07/24/2013	00:22:57	Reset Total, Vol = 11.10 bbl
07/24/2013	00:23:02	
07/24/2013	00:23:03	Start Mixing Lead Slurry
07/24/2013	00:25:52	
07/24/2013	00:28:42	
07/24/2013	00:31:32	
07/24/2013	00:34:22	
07/24/2013	00:37:12	
07/24/2013	00:38:39	End Lead Slurry
07/24/2013	00:38:44	Reset Total, Vol = 80.26 bbl
07/24/2013	00:38:52	Start Mixing Tail Slurry
07/24/2013	00:40:02	

Well	Field	Job Start	Customer	Job Number
CAROTHER BROTHERS A3306 2-16		Jul/23/2013	SANDRIDGE	C1YQ-00278

Date	Time 24-hr clock	Message
07/24/2013	00:45:02	End Tail Slurry
07/24/2013	00:45:06	Reset Total, Vol = 26.15 bbl
07/24/2013	00:45:10	Drop Top Plug
07/24/2013	00:45:11	Start Displacement
07/24/2013	00:45:42	
07/24/2013	00:48:32	
07/24/2013	00:51:22	
07/24/2013	00:54:12	
07/24/2013	00:57:02	
07/24/2013	00:59:52	
07/24/2013	01:00:27	Bump Top Plug
07/24/2013	01:02:42	
07/24/2013	01:04:27	End Displacement

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
4.3			6.7	104.0	0.0	11.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
5174	4	473	1225		FreshWater	bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
%	0.0 bbl	45.0 bbl	degF	Cement Circulated to Surface? [X]	Volume 15.0 bbl
				Washed Thru Perfs [ ]	To ft

Customer or Authorized Representative	Schlumberger Supervisor	Circulation Lost	Job Completed
TIM MILLS	John Beseda II	- [ ]	- [X]

Schlumberger

RECEIVED
AUG 5 2013
REGULATORY DEPT
SANDRIDGE ENERGY

Cementing Service Report

Customer: Sandridge			Job Number: CDL7-00288
Well: other Brothers A 3306 # 2-1 Carother Brothers A 3306 # 2-1	Location (legal): Horizon #5	Schlumberger Location: EL RENO	Job Start: Jul/29/2013

Field: Stohrville	Formation Name/Type: Shale	Deviation	Bit Size	Well MD: 4940.0 ft / Well TVD: 4940.0 ft
County: Harper	State/Province: Kansas	BHP	BHST: 141 degF	BHCT: 128 degF / Pore Press. Gradient
Well Master: 0631478548	API/UWI: 15077219430000			

Rig Name: Horizon #5	Drilled For: Oil & Gas	Service Via: Land
Offshore Zone	Well Class: New	Well Type: Development
Drilling Fluid Type: Bentonite	Max. Density: 9.40 lb/gal	Plastic Viscosity: 60.000 cP
Service Line: Cementing	Job Type: 5.5 prodution	
Max. Allowed Tub. Press: 5000 psi	Max. Allowed Ann. Press	WH Connection: Single Cement head

Service Instructions

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
4936.1	5.500	17.0	P110	8RD
0.0	0.000	0.0		

Tubing/Drill Pipe

Depth,	Size,	Weight,	Grade	Thread

Perforations/Open Hole

Top,	Bottom,		No. of Shots	Total Interval / Diameter

Treat Down: Casing	Displacement: 112.4 bbl	Packer Type	Packer Depth
Tubing Vol.	Casing Vol.: 114.4 bbl	Annular Vol.	Openhole Vol.

Casing/Tubing Secured: X	1 Hole Vol. Circulated prior to Cement: X	Casing Tools	Squeeze Job
Lift Pressure: 465 psi		Shoe Type: Guide	Squeeze Type
Pipe Rotated: ☐	Pipe Reciprocated: ☐	Shoe Depth: 4936.1 ft	Tool Type
No. Centralizers: 15	Top Plugs: 1 / Bottom Plugs	Stage Tool Type	Tool Depth
Cement Head Type: Single		Stage Tool Depth	Tail Pipe Size
Job Scheduled For: Jul/29/2013	Arrived on Location: Jul/29/2013	Collar Type: Guide	Tail Pipe Depth
Leave Location: Jul/29/2013		Collar Depth: 4845.5 ft	Sqz. Total Vol.

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
01/01/1970	01:02:42					Started Acquisition
07/29/2013	11:57:34	0	0.0	0.00	0.0	
07/29/2013	11:57:42	0	0.0	0.00	0.0	
07/29/2013	11:58:12	0	0.0	0.00	0.0	
07/29/2013	11:58:42	0	0.0	0.00	0.0	
07/29/2013	11:59:12	0	0.0	0.00	0.0	
07/29/2013	11:59:42	0	0.0	0.00	0.0	
07/29/2013	12:00:12	0	0.0	0.00	0.0	
07/29/2013	12:00:42	0	0.0	0.00	0.0	
07/29/2013	12:01:12	0	0.0	0.00	0.0	
07/29/2013	12:01:42	0	0.0	0.00	0.0	
07/29/2013	12:02:12	0	0.0	0.00	0.0	
07/29/2013	12:02:42	0	0.0	0.00	0.0	
07/29/2013	12:03:12	0	0.0	0.00	0.0	
07/29/2013	12:03:42	0	0.0	0.00	0.0	
07/29/2013	12:04:42	0	0.0	0.00	0.0	
07/29/2013	12:05:12	0	0.0	0.00	0.0	
07/29/2013	12:05:42	0	0.0	0.00	0.0	
07/29/2013	12:06:12	0	0.0	0.00	0.0	
07/29/2013	12:06:42	0	0.0	0.00	0.0	
07/29/2013	14:26:08					Saftey Meetng

Well	Field	Job Start	Customer	Job Number
Brothers A 3306 # 2-1 Carother Brothers A 3306 # 2-1	Stohrville	Jul/29/2013	Sandridge	CDL7-00288

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/29/2013	14:26:08	33	0.0	8.47	0.0	
07/29/2013	14:26:10					Flush lines
07/29/2013	14:26:10	33	0.0	8.47	0.0	
07/29/2013	14:26:12	31	0.0	8.47	0.0	
07/29/2013	14:26:42	32	0.0	8.47	0.0	
07/29/2013	14:27:12	31	0.0	8.47	0.0	
07/29/2013	14:27:42	192	3.2	8.46	0.9	
07/29/2013	14:28:12	38	0.1	8.48	2.5	
07/29/2013	14:28:42	41	0.0	8.48	2.6	
07/29/2013	14:29:12	42	0.0	8.48	2.6	
07/29/2013	14:29:42	88	0.0	8.47	2.6	
07/29/2013	14:30:12	2651	0.0	8.47	2.6	
07/29/2013	14:30:42	4753	0.0	8.47	2.6	
07/29/2013	14:31:12	4552	0.0	8.47	2.6	
07/29/2013	14:31:42	4528	0.0	8.47	2.7	
07/29/2013	14:31:53					psi test
07/29/2013	14:31:53	4523	0.0	8.47	2.7	
07/29/2013	14:32:12	4395	0.0	8.47	2.7	
07/29/2013	14:32:32					Reset Total, Vol = 2.67 bbl
07/29/2013	14:32:32	31	0.0	8.47	2.7	
07/29/2013	14:32:42	33	0.0	8.47	0.0	
07/29/2013	14:33:12	43	0.0	8.47	0.0	
07/29/2013	14:33:38					Start gelled water spacer
07/29/2013	14:33:38	58	0.1	8.47	0.0	
07/29/2013	14:33:42	64	0.7	8.47	0.1	
07/29/2013	14:33:56					Well has returns
07/29/2013	14:33:56	244	3.3	8.47	0.5	
07/29/2013	14:34:12	204	4.2	8.47	1.5	
07/29/2013	14:34:42	266	4.8	8.47	3.2	
07/29/2013	14:35:12	222	4.5	8.47	5.5	
07/29/2013	14:35:42	213	4.5	8.47	7.8	
07/29/2013	14:36:12	222	4.5	8.47	10.0	
07/29/2013	14:36:42	220	4.5	8.47	12.3	
07/29/2013	14:37:12	235	4.5	8.47	14.5	
07/29/2013	14:37:42	244	4.5	8.47	16.8	
07/29/2013	14:38:12	229	4.5	8.47	19.0	
07/29/2013	14:38:42	255	4.5	8.47	21.3	
07/29/2013	14:39:12	249	4.5	8.47	23.5	
07/29/2013	14:39:42	272	4.5	8.47	25.8	
07/29/2013	14:40:12	243	4.0	8.47	28.0	
07/29/2013	14:40:42	279	3.9	9.36	30.0	
07/29/2013	14:40:46					Reset Total, Vol = 30.27 bbl
07/29/2013	14:40:46	266	3.9	9.88	30.3	
07/29/2013	14:40:47					Start l;ead slurry
07/29/2013	14:40:47	249	3.8	10.04	0.1	
07/29/2013	14:41:12	314	3.8	12.49	1.5	
07/29/2013	14:41:42	338	3.1	12.92	3.2	
07/29/2013	14:42:12	462	5.9	12.66	5.2	
07/29/2013	14:42:42	81	1.9	13.41	8.1	
07/29/2013	14:43:12	392	3.6	13.14	8.6	
07/29/2013	14:43:42	381	6.2	13.29	11.5	
07/29/2013	14:44:12	475	6.0	13.67	14.6	
07/29/2013	14:44:42	411	6.0	13.43	17.6	
07/29/2013	14:45:12	458	5.9	13.63	20.5	

Well	Field	Job Start	Customer	Job Number
Brothers A 3306 # 2-1 Carother Brothers A 3306 # 2-1	Stohrville	Jul/29/2013	Sandridge	CDL7-00288

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/29/2013	14:46:12	395	6.0	13.70	26.5	
07/29/2013	14:46:42	369	6.0	13.66	29.4	
07/29/2013	14:47:12	344	5.6	13.67	32.3	
07/29/2013	14:47:42	137	3.2	13.69	34.3	
07/29/2013	14:48:12	294	5.0	13.55	36.7	
07/29/2013	14:48:42	237	5.0	13.66	39.2	
07/29/2013	14:49:12	164	3.5	13.69	41.2	
07/29/2013	14:49:42	254	3.6	13.66	43.0	
07/29/2013	14:50:12	287	3.8	13.30	44.8	
07/29/2013	14:50:42	190	4.0	13.48	46.7	
07/29/2013	14:51:12	174	4.0	13.03	48.7	
07/29/2013	14:51:13					Reset Total, Vol = 53.72 bbl
07/29/2013	14:51:13	158	4.0	13.03	48.7	
07/29/2013	14:51:15					Start tail slurry
07/29/2013	14:51:15	188	3.8	13.07	0.1	
07/29/2013	14:51:42	189	4.2	13.48	2.0	
07/29/2013	14:52:12	214	4.3	14.34	4.1	
07/29/2013	14:52:42	209	4.4	15.05	6.3	
07/29/2013	14:53:12	219	4.3	15.28	8.5	
07/29/2013	14:53:42	202	4.5	15.47	10.7	
07/29/2013	14:54:12	225	4.4	15.69	12.9	
07/29/2013	14:54:42	229	4.5	15.82	15.2	
07/29/2013	14:55:12	185	3.8	15.76	17.3	
07/29/2013	14:55:42	175	3.8	15.84	19.2	
07/29/2013	14:56:12	177	3.9	15.49	21.1	
07/29/2013	14:56:42	151	3.8	15.80	23.1	
07/29/2013	14:57:12	149	3.8	15.81	25.0	
07/29/2013	14:57:42	35	0.0	16.25	25.5	
07/29/2013	14:57:55					Reset Total, Vol = 21.49 bbl
07/29/2013	14:57:55	34	0.0	16.85	25.5	
07/29/2013	14:58:12					Wash pump lines
07/29/2013	14:58:12	35	0.1	16.33	0.0	
07/29/2013	14:58:42	55	0.0	15.85	0.0	
07/29/2013	14:59:12	99	1.7	10.37	0.1	
07/29/2013	14:59:42	198	3.7	9.67	1.3	
07/29/2013	15:00:12	187	3.7	9.20	3.1	
07/29/2013	15:00:42	203	4.1	8.85	5.0	
07/29/2013	15:01:12	151	4.2	8.86	7.1	
07/29/2013	15:01:42	152	4.2	8.69	9.2	
07/29/2013	15:02:12	146	4.2	8.59	11.3	
07/29/2013	15:02:42	135	4.2	8.54	13.4	
07/29/2013	15:03:12	37	1.5	8.47	15.4	
07/29/2013	15:03:42	118	3.8	8.47	16.8	
07/29/2013	15:04:12	164	1.3	8.55	19.1	
07/29/2013	15:04:42	27	0.0	8.47	19.1	
07/29/2013	15:05:20					Reset Total, Vol = 19.10 bbl
07/29/2013	15:05:20	48	0.0	8.47	19.1	
07/29/2013	15:05:21					Start displacement
07/29/2013	15:05:21					Top plug luanched
07/29/2013	15:05:21	48	0.0	8.47	0.0	
07/29/2013	15:05:42	33	0.0	8.47	0.0	
07/29/2013	15:06:12	31	0.0	8.47	0.0	
07/29/2013	15:06:42	30	0.0	8.47	0.0	
07/29/2013	15:07:12	30	0.0	8.47	0.0	

Well	Field	Job Start	Customer	Job Number
Brothers A 3306 # 2-1 Carother Brothers A 3306 # 2-1	Stohrville	Jul/29/2013	Sandridge	CDL7-00288

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/29/2013	15:08:12	48	1.8	8.43	0.2	
07/29/2013	15:08:42	78	3.8	8.47	1.8	
07/29/2013	15:09:12	108	4.7	8.47	4.0	
07/29/2013	15:09:42	109	4.9	8.47	6.4	
07/29/2013	15:10:12	109	5.2	8.47	9.1	
07/29/2013	15:10:42	108	5.2	8.47	11.7	
07/29/2013	15:11:12	108	5.4	8.47	14.3	
07/29/2013	15:11:42	96	5.1	8.47	16.9	
07/29/2013	15:12:12	96	5.1	8.47	19.4	
07/29/2013	15:12:42	100	5.1	8.47	22.0	
07/29/2013	15:13:12	100	4.8	8.47	24.4	
07/29/2013	15:13:42	98	4.8	8.47	26.8	
07/29/2013	15:14:12	101	4.8	8.47	29.2	
07/29/2013	15:14:42	101	4.8	8.47	31.6	
07/29/2013	15:15:12	101	4.8	8.47	34.0	
07/29/2013	15:15:42	101	4.8	8.47	36.4	
07/29/2013	15:16:12	98	4.8	8.47	38.9	
07/29/2013	15:16:42	101	4.8	8.47	41.3	
07/29/2013	15:17:12	102	4.8	8.47	43.7	
07/29/2013	15:17:42	99	4.8	8.47	46.1	
07/29/2013	15:18:12	101	4.8	8.47	48.5	
07/29/2013	15:18:42	100	4.8	8.47	50.9	
07/29/2013	15:19:12	101	4.8	8.47	53.3	
07/29/2013	15:19:42	98	4.8	8.47	55.7	
07/29/2013	15:20:12	100	4.8	8.47	58.1	
07/29/2013	15:20:42	98	4.8	8.47	60.5	
07/29/2013	15:21:12	102	4.8	8.47	62.9	
07/29/2013	15:21:42	102	4.8	8.47	65.3	
07/29/2013	15:22:12	95	4.8	8.47	67.7	
07/29/2013	15:22:42	101	4.8	8.47	70.1	
07/29/2013	15:23:12	157	4.2	8.47	72.3	
07/29/2013	15:23:42	254	4.2	8.47	74.3	
07/29/2013	15:24:12	270	4.1	8.47	76.4	
07/29/2013	15:24:42	102	4.7	8.47	78.5	
07/29/2013	15:25:12	101	4.8	8.47	80.9	
07/29/2013	15:25:16					Lost returns 80 bbls into displacement
07/29/2013	15:25:16	100	4.8	8.47	81.2	
07/29/2013	15:25:42	99	4.8	8.47	83.3	
07/29/2013	15:26:12	99	4.8	8.47	85.7	
07/29/2013	15:26:42	92	4.5	8.47	88.0	
07/29/2013	15:27:12	92	4.5	8.47	90.3	
07/29/2013	15:27:42	96	4.6	8.47	92.6	
07/29/2013	15:28:12	103	4.0	8.47	94.7	
07/29/2013	15:28:42	166	3.2	8.47	96.7	
07/29/2013	15:29:12	140	1.8	8.47	97.8	
07/29/2013	15:29:42	165	1.8	8.47	98.8	
07/29/2013	15:30:12	131	1.9	8.47	99.7	
07/29/2013	15:30:42	199	1.9	8.47	100.7	
07/29/2013	15:31:12	155	1.9	8.47	101.6	
07/29/2013	15:31:42	205	1.9	8.47	102.6	
07/29/2013	15:32:12	197	1.9	8.47	103.5	
07/29/2013	15:32:42	210	1.9	8.47	104.5	
07/29/2013	15:33:12	200	1.9	8.47	105.5	
07/29/2013	15:33:42	190	1.9	8.47	106.4	

Well	Field	Job Start	Customer	Job Number
Brothers A 3306 # 2-1 Carother Brothers A 3306 # 2-1	Stohrville	Jul/29/2013	Sandridge	CDL7-00288

Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message
07/29/2013	15:34:42	88	0.0	8.47	107.6	
07/29/2013	15:35:12	66	0.0	8.47	107.6	
07/29/2013	15:35:42	151	0.8	8.47	107.7	
07/29/2013	15:36:12	226	1.2	8.47	108.3	
07/29/2013	15:36:42	292	2.1	8.47	108.9	
07/29/2013	15:37:12	347	2.7	8.47	110.2	
07/29/2013	15:37:42	380	2.7	8.47	111.6	
07/29/2013	15:38:12	378	2.7	8.47	112.9	
07/29/2013	15:38:42	1055	2.2	8.47	114.2	
07/29/2013	15:39:06					Bump plug
07/29/2013	15:39:06	1079	0.0	8.47	114.3	
07/29/2013	15:39:12	1036	0.0	8.47	114.3	
07/29/2013	15:39:42	1018	0.0	8.47	114.4	
07/29/2013	15:40:12	1019	0.0	8.47	114.4	
07/29/2013	15:40:18					Check floats, Floats holding .25 bbl back
07/29/2013	15:40:18	1031	0.0	8.47	114.4	
07/29/2013	15:40:42	191	0.0	8.47	114.4	
07/29/2013	15:41:08					End job
07/29/2013	15:41:08	33	0.0	8.47	114.4	

Post Job Summary

Average Pump Rates, bbl/min				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.3		0.0	7.0	75.0	0.0	30.0	

Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
4989	1041	324	1079		FreshWater	3.0 bbl	8.34 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp		
	75.0 bbl	112.4 bbl	78 degF	Cement Circulated to Surface? ☐	Volume
				Washed Thru Perfs ☐	To

Customer or Authorized Representative	Schlumberger Supervisor		
Sandridge repersanitive	Anthony Cucci	Circulation Lost ☐	Job Completed ☒
		-	-

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

Kansas
Corporation Commission

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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 15, 2013

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

Re: ACO1
API 15-077-21943-00-00
Carother Brothers A 3306 2-16
SE/4 Sec.16-33S-06W
Harper 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,
Wanda Ledbetter

8/29/2013

CONSOLIDATED Oil Well Services, LLC

9350008075

TREATMENT REPORT
FRAC AND ACID

Customer	SandRidge
Customer Acct #	
Well No.	Carother Brothers A #3306 2-16
Mailing Address	
City and State	
Zip Code	
Dispatch Location	PONCA CITY

County	Harper County, Kansas	Stage	1 of 2
Section	16	Formation	Mississippi
TWP	33S	TVD Perfs	4702-4712
RANGE	6W	MD Perfs	

START	10:01:36 AM
END	11:37:07 AM

WELL DATA						TRUCK#	DRIVER	TRUCK#	DRIVER
TREATMENT TYPE:	TREATMENT THROUGH CASING			PLUG DEPTH (FT)		585-T181	Leobardo Loac		
TVD OF PERFS	4702' - 4712'	MD OF PERFS	4702' - 4712'	PACKER DEPTH (FT)		634-T178	Ivan Harvey		
CASING SIZE (OD)	CASING WEIGHT	TMD TO TOP PERF(FT)	ID (INCHES)	DISPL COEF (BBL/FT)	VOLUME (BBLS)	686-T151	Mark Boley		
5 1/2	J-55 (17 LBS)	4702	4.89	0.0232	109.2	568	Mike Stone		
						701	Gene Orr		
0	0	0	0	0.0000	0.0	586-T164	Dennis Cummings		
OVER FLUSH	0	DISPLACEMENT TO TOP PERF (BBLS)			109.2	423	Bo Hawkins		
						570-T174	Daniel Kupka		
						556	Tim Spielbusch		
						412-T122	Brian Hall		
						578-T226	Greg Hicks		
						626	Casey Boyer		

PERF DATA		CHEMICALS	
TOTAL HOLES SHOT		SR-445	167
HOLE ID (IN)		BIOSTAT 650	18
PHASING		15% HCL ACID (3RD PARTY DELIVERED)	9000
SPF		ACID INHIBITOR (AI-260)	9
		IRON CONTROL (SP-950)	18
		ACID RETARDER (AR-104)	72
EFFECTIVE HOLES		PLEXGEL 907L-EB	459

FET ANALYSIS (Optional)									
FLUID WEIGHT	8.34	MAX RATE:	28.5	MAX PRESSURE	4805	ISDP	0	FRAC GRAD	
HYDROSTATIC HEIGHT	4702	RATE 1		PRESSURE 1		5 MIN SIP	0	FLUID EFF (%)	
FLUID SG	1.01	RATE 2		PRESSURE 2		10 MIN SIP	0	CALC PERM	
HYDROSTATIC PRESS	2039.16	RATE 3		PRESSURE 3		15 MN SIP	0		

PRESSURE DATA							
MAX PRESSURE	INITIAL PRESSURE	BREAKDOWN PRESSURE	ISIP	5 MIN	10 MIN	15 MIN	30 MIN
5000	0	2173 psi at 4.2 bpm	0 on a vaccuum	0	0	0	

SUMMARY

TOTAL FLUID PUMPED	2039 BBLS
PROPPANT PUMPED	30061.5 LBS
MAX RATE	28.5 BBL/MIN
MIN RATE	4 BBL/MIN
AVERAGE RATE	22.45939186
FOAM QUALITY	
UNT OF FOAM PUMPED	
TYPE OF FOAM	

MAX TREATING PRESSURE	4805 PSI
MIN TREATING PRESSURE	1 PSI
AVE TREATING PRESSURE	367
FLUID WEIGHT	8.34
HYDROSTATIC HEIGHT	4702
HYDROSTATIC PRESS	2,039.16
FRAC GRADIENT	#VALUE!

PROP TYPE	TOTAL PUMPED
20/40 WHITE	24013.5 LBS
20/40 RESIN COATED	6048 LBS
ACID	8820 GAL
TOTAL FLUID	2039 BBLS

STAGE	CLEAN BBLS	DESIGN	FLUID TYPE	PRESSURE	RATE	PROP AMOUNT	DESIGN	CONC	TYPE
1	14	20	30# Gelled Water	1	0-13.2	0.00		0.00	
2	13	12	15% HCL Acid	1	13	0.00		0.00	
3	190	190	30# Gelled Water	0-4805	4.0-16.4	0.00		0.00	
4	95	95	Gelled 15% Acid	467-197	15.5	0.00		0.00	
5	190	190	30# Gelled Water	44-277	15.4-20.8	0.00		0.00	
6	102	95	Gelled 15% Acid	162-102	20.4	0.00		0.00	
7	263	262	20# Gelled Water	22-231	20.4-27.4	0.00		0.00	
8	285	286	20# Gelled Water	220-161	25	2992.50	3000 LBS	0.25	20/40 WHITE
9	262	262	20# Gelled Water	216-103	25.1	5502.00	5500 LBS	0.50	20/40 WHITE
10	238	238	20# Gelled Water	123-94	25	7497.00	7500 LBS	0.75	20/40 WHITE
11	191	190	20# Gelled Water	60-196	24.9-28.5	8022.00	8000 LBS	1.00	20/40 WHITE
12	72	71	20# Gelled Water	174-61	28.4	6048.00	6000 LBS	2.00	20/40 RESIN COATED
13	124	108	Treated Water	44-427	28.4	0.00		0.00	
14						0.00		0.00	
15						0.00		0.00	

Remarks

Pressure Tested to 5345 psi

Took 43 bbls to load hole

TERMS AND CONDITIONS ARE PRINTED ON REVERSE SIDE

CONSOLIDATED Oil Well Services, LLC

9350008075

TREATMENT REPORT
FRAC AND ACID

Customer	SandRidge
Customer Acct #	
Well No.	Carother Brothers A #3306 2-16
Mailing Address	
City and State	
Zip Code	
Dispatch Location	PONCA CITY

County	Harper County, Kansas	Stage	2 of 2
Section	16	Formation	Mississippi
TWP	33S	TVD Perfs	4460-4470
RANGE	6W	MD Perfs	

START	1:40:54 PM
END	2:54:43 PM

WELL DATA						TRUCK#	DRIVER	TRUCK#	DRIVER
TREATMENT TYPE:	TREATMENT THROUGH CASING			PLUG DEPTH (FT)		585-T181	Leobardo Loac		
TVD OF PERFS	4460' - 4470'	MD OF PERFS	4460' - 4470'	PACKER DEPTH (FT)		634-T178	Ivan Harvey		
CASING SIZE (OD)	CASING WEIGHT	TMD TO TOP PERF(FT)	ID (INCHES)	DISPL COEF (BBL/FT)	VOLUME (BBLS)	686-T151	Mark Boley		
5 1/2	J-55 (17 LBS)	4460	4.89	0.0232	103.6	568	Mike Stone		
						701	Gene Orr		
0	0	0	0	0.0000	0.0	586-T164	Dennis Cummings		
OVER FLUSH	0	DISPLACEMENT TO TOP PERF (BBLS)			103.6	423	Bo Hawkins		
						570-T174	Daniel Kupka		
PERF DATA		CHEMICALS				556	Tim Spielbusch		
TOTAL HOLES SHOT		SR-445	128			412-T122	Brian Hall		
HOLE ID (IN)		BIOSTAT 650	17			578-T226	Greg Hicks		
PHASING		15% HCL ACID (3RD PARTY DELIVERED)	6000			626	Casey Boyer		
SPF		ACID INHIBITOR (AI-260)	6						
		IRON CONTROL (SP-950)	12						
		ACID RETARDER (AR-104)	54						
EFFECTIVE HOLES		PLEXGEL 907L-EB	292						

FET ANALYSIS (Optional)									
FLUID WEIGHT	8.34	MAX RATE:	27.2	MAX PRESSURE	2432	ISDP	0	FRAC GRAD	
HYDROSTATIC HEIGHT	4460	RATE 1		PRESSURE 1		5 MIN SIP	0	FLUID EFF (%)	
FLUID SG	1.01	RATE 2		PRESSURE 2		10 MIN SIP	0	CALC PERM	
HYDROSTATIC PRESS	1934.21	RATE 3		PRESSURE 3		15 MN SIP	0		

PRESSURE DATA								
MAX PRESSURE	INITIAL PRESSURE	BREAKDOWN PRESSURE	ISIP	5 MIN	10 MIN	15 MIN	30 MIN	
4200	0	2432 psi at 4.2 bpm	0 on a vaccuum	0	0	0		

SUMMARY

TOTAL FLUID PUMPED	1677 BBLS
PROPPANT PUMPED	25914 LBS
MAX RATE	27.2 BBL/MIN
MIN RATE	4.1 BBL/MIN
AVERAGE RATE	23.86565295

MAX TREATING PRESSURE	2432 PSI
MIN TREATING PRESSURE	1 PSI
AVE TREATING PRESSURE	417
FLUID WEIGHT	8.34
HYDROSTATIC HEIGHT	4460
HYDROSTATIC PRESS	1,934.21
FRAC GRADIENT	#VALUE!

FOAM QUALITY	
UNT OF FOAM PUMPED	
TYPE OF FOAM	

PROP TYPE	TOTAL PUMPED
20/40 WHITE	20034 LBS
20/40 RESIN COATED	5880 LBS
ACID	7140 GAL
TOTAL FLUID	1677 BBLS

STAGE	CLEAN BBLS	DESIGN	FLUID TYPE	PRESSURE	RATE	PROP AMOUNT	DESIGN	CONC	TYPE
1	7	20	30# Gelled Water	1	0-13.2	0.00		0.00	
2	12	12	15% HCL Acid	1	14.4-12.6	0.00		0.00	
3	142	143	30# Gelled Water	0-2432	4.1-26.4	0.00		0.00	
4	72	71	Gelled 15% Acid	624-759	26.1	0.00		0.00	
5	141	143	30# Gelled Water	737-377	26.5	0.00		0.00	
6	86	71	Gelled 15% Acid	388-31	26.6-9.8	0.00		0.00	
7	213	214	20# Gelled Water	45-464	12.2-27.2	0.00		0.00	
8	235	236	20# Gelled Water	332-448	26.2	2467.50	2475 LBS	0.25	20/40 WHITE
9	216	214	20# Gelled Water	363-272	26.2	4536.00	4500 LBS	0.50	20/40 WHITE
10	207	207	20# Gelled Water	289-261	26.1	6520.50	6525 LBS	0.75	20/40 WHITE
11	155	155	20# Gelled Water	312-282	26.2	6510.00	6500 LBS	1.00	20/40 WHITE
12	70	60	20# Gelled Water	308-220	26.2	5880.00	5000 LBS	2.00	20/40 RESIN COATED
13	121	103	Treated Water	208-533	26.1	0.00		0.00	
14						0.00		0.00	
15						0.00		0.00	

Remarks

Pressure Tested to 5520 psi

Took 22 bbls to load the hole

TERMS AND CONDITIONS ARE PRINTED ON REVERSE SIDE