

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1243271  
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: \_\_\_\_\_

1243271

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

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

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

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/27/2014
Job End Date:	12/28/2014
State:	Kansas
County:	Comanche
API Number:	15-033-21771-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Ransom 3419 2-18H 1L
Longitude:	-99.41969500
Latitude:	37.09148200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,250
Total Base Water Volume (gal):	980,574
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	95.56575	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.71430	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.09315	None
			Methyl Alcohol	67-56-1	80.00000	0.00214	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00040	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00477	None
			Citric Acid	77-92-9	30.00000	0.00286	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00411	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00041	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		0.04339	

		Aliphatic Hydrocarbon	64742-47-8		0.02169
		Anionic Polymer	N/A		0.02169
		Water	7732-18-5		0.00925
		Oxyalkylated Alcohol	68002-97-1		0.00362
		Polyol Ester	N/A		0.00362
		Water	7732-18-5		0.00334
		Acrylic Polymer	28205-96-1		0.00154
		Sodium Salt of Phosphate Ester	68131-72-6		0.00154
		Polyglycol Ester	N/A		0.00072
		Alcohol Ethoxylate Surfactants	N/A		0.00040
		n-olefins	N/A		0.00021
		Propargyl Alcohol	107-19-7		0.00016
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00007
		METHANOL	67-56-1		
		ISOPROPANOL	67-63-0		
		Buffer	N/A		
		Surfactant	N/A		
		Water	7732-18-5		
		Cinnamic Aldehyde	104-55-2		
		Acetic Acid	64-19-7		
		TRADE SECRET	N/A		
		WATER	7732-18-5		

\* 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)

Ransom 3419 2-18H 1L Perforations

Stage Nbr	Date	Type	Top		Top Depth (TVD)	Bottom		Shot Density	Wellbore	String		Fluid Type
			Depth	Perforated		Depth	Perforated			Method	Perforated	
40	3-Jan-15	Perforated	6,069.00	5,236.20	6,071.00	5,236.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
40	3-Jan-15	Perforated	6,124.00	5,236.30	6,126.00	5,236.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
40	3-Jan-15	Perforated	6,186.00	5,237.20	6,188.00	5,237.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
40	3-Jan-15	Perforated	6,281.00	5,239.80	6,283.00	5,239.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
40	3-Jan-15	Perforated	6,380.00	5,243.50	6,382.00	5,243.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
39	3-Jan-15	Perforated	6,530.00	5,247.30	6,532.00	5,247.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
39	3-Jan-15	Perforated	6,635.00	5,246.20	6,637.00	5,246.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
39	3-Jan-15	Perforated	6,696.00	5,245.30	6,698.00	5,245.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
39	3-Jan-15	Perforated	6,761.00	5,244.70	6,763.00	5,244.70	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
39	3-Jan-15	Perforated	6,823.00	5,244.20	6,825.00	5,244.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
38	3-Jan-15	Perforated	6,896.00	5,244.30	6,898.00	5,244.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
38	3-Jan-15	Perforated	6,978.00	5,244.80	6,980.00	5,244.80	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
38	3-Jan-15	Perforated	7,060.00	5,245.30	7,062.00	5,245.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
38	3-Jan-15	Perforated	7,130.00	5,244.60	7,132.00	5,244.60	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,218.00	5,241.60	7,220.00	5,241.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,298.00	5,239.30	7,300.00	5,239.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,358.00	5,237.90	7,360.00	5,237.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,418.00	5,236.50	7,420.00	5,236.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,488.00	5,236.10	7,490.00	5,236.10	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
37	3-Jan-15	Perforated	7,542.00	5,236.90	7,544.00	5,236.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
36	3-Jan-15	Perforated	7,611.00	5,236.90	7,613.00	5,236.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
36	3-Jan-15	Perforated	7,671.00	5,236.60	7,673.00	5,236.70	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
36	3-Jan-15	Perforated	7,736.00	5,239.50	7,738.00	5,239.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
36	3-Jan-15	Perforated	7,857.00	5,248.20	7,859.00	5,248.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
36	3-Jan-15	Perforated	7,952.00	5,250.70	7,954.00	5,250.70	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
35	3-Jan-15	Perforated	8,020.00	5,251.00	8,022.00	5,251.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
35	3-Jan-15	Perforated	8,082.00	5,250.90	8,084.00	5,250.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
35	3-Jan-15	Perforated	8,132.00	5,250.60	8,134.00	5,250.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
35	3-Jan-15	Perforated	8,208.00	5,249.50	8,210.00	5,249.40	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
35	3-Jan-15	Perforated	8,280.00	5,249.40	8,282.00	5,249.40	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
34	27-Dec-14	Perforated	8,372.00	5,252.50	8,374.00	5,252.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
34	27-Dec-14	Perforated	8,448.00	5,254.20	8,450.00	5,254.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
34	27-Dec-14	Perforated	8,504.00	5,253.20	8,506.00	5,253.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
34	27-Dec-14	Perforated	8,579.00	5,251.30	8,581.00	5,251.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	8,661.00	5,249.10	8,663.00	5,249.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	8,784.00	5,246.20	8,786.00	5,246.20	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	8,843.00	5,245.50	8,845.00	5,245.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	8,894.00	5,246.00	8,896.00	5,246.10	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	8,976.00	5,248.50	8,978.00	5,248.50	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
33	27-Dec-14	Perforated	9,066.00	5,251.00	9,068.00	5,251.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
32	27-Dec-14	Perforated	9,238.00	5,254.40	9,240.00	5,254.40	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
32	27-Dec-14	Perforated	9,298.00	5,255.70	9,300.00	5,255.80	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
32	27-Dec-14	Perforated	9,362.00	5,256.00	9,364.00	5,256.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
32	27-Dec-14	Perforated	9,422.00	5,255.20	9,424.00	5,255.10	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
32	27-Dec-14	Perforated	9,480.00	5,254.30	9,482.00	5,254.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
31	27-Dec-14	Perforated	9,544.00	5,253.60	9,546.00	5,253.60	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
31	27-Dec-14	Perforated	9,620.00	5,252.80	9,622.00	5,252.80	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water
31	27-Dec-14	Perforated	9,688.00	5,252.30	9,690.00	5,252.30	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water

Ransom 3419 2-18H 1L Perforations

Stage Nbr	Date	Type	Top		Top Depth (TVD)	Bottom		Bottom Depth	Depth (TVD)	Zone	Shot Density	Wellbore	String		Method	Fluid Type
			Depth	Depth		Depth	Perforated									
31	27-Dec-14	Perforated	9,774.00	9,776.00	5,252.00	9,776.00	5,252.00	5,252.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water		
31	27-Dec-14	Perforated	9,852.00	9,854.00	5,252.00	9,854.00	5,252.00	5,252.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Wireline	Fresh Water		
30	22-Dec-14	Perforated	9,940.00	9,942.00	5,250.80	9,942.00	5,250.70	5,250.70	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Tubing	Fresh Water		
30	22-Dec-14	Perforated	10,014.00	10,016.00	5,250.10	10,016.00	5,250.10	5,250.10	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Tubing	Fresh Water		
30	22-Dec-14	Perforated	10,066.00	10,068.00	5,249.90	10,068.00	5,249.90	5,249.90	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Tubing	Fresh Water		
30	22-Dec-14	Perforated	10,176.00	10,178.00	5,250.00	10,178.00	5,250.00	5,250.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Tubing	Fresh Water		
30	22-Dec-14	Perforated	10,256.00	10,258.00	5,250.00	10,258.00	5,250.00	5,250.00	Miss Lime - Upper	5	Lateral 1	Production Liner, 10,306 ft KB	Tubing	Fresh Water		



SandRidge Energy  
Ransom #3419 2-18 H  
Comanche County, Oklahoma.

## 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 Ransom #3419 2-18H 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:

44 Bbls (175 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 230 of fresh water. The plug did not land, Release pressure + 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  
Ransom #3419 2-18 H  
Comanche County, Oklahoma.

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