

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1243324
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
-----------------------------------	-----------------	---

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: _____

1243324

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Ransom 3419 2-18H 2L
Doc ID	1243324

Tops

Name	Top	Datum
Base Heebner	4217	-2405
Top Lansing	4409	-2597
Top Marmaton	4946	-3134
Top Big Lime	4986	-3174
Top Oswego	5006	-3194
Top Pawnee	5053	-3241
Top Cherokee	5084	-3272
Top Fort Scott	5088	-3276
Mississippi	5102	-3290

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/15/2014
Job End Date:	12/17/2014
State:	Kansas
County:	Comanche
API Number:	15-033-21771-02-00
Operator Name:	SandRidge Energy
Well Name and Number:	Ransom 3419 2-18H Lat 2
Longitude:	-99.41969500
Latitude:	37.09184200
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,138
Total Base Water Volume (gal):	2,586,696
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	95.74834	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.56992	None
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.08766	None
			Methyl Alcohol	67-56-1	80.00000	0.00074	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00014	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00301	None
			Alcohol Ethoxylate Surfactants	NA	10.00000	0.00030	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00162	None
			Citric Acid	77-92-9	30.00000	0.00097	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		0.04842	

		Anionic Polymer	N/A		0.02421
		Aliphatic Hydrocarbon	64742-47-8		0.02421
		Water	7732-18-5		0.00851
		Oxyalkylated Alcohol	68002-97-1		0.00403
		Polyol Ester	N/A		0.00403
		Acrylic Polymer	28205-96-1		0.00142
		Sodium Salt of Phosphate Ester	68131-72-6		0.00142
		Water	7732-18-5		0.00113
		Polyglycol Ester	N/A		0.00081
		Alcohol Ethoxylate Surfactants	N/A		0.00014
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00008
		n-olefins	N/A		0.00007
		Propargyl Alcohol	107-19-7		0.00006
		ISOPROPANOL	67-63-0		
		WATER	7732-18-5		
		Acetic Acid	64-19-7		
		Surfactant	N/A		
		METHANOL	67-56-1		
		Cinnamic Aldehyde	104-55-2		
		Buffer	N/A		
		Water	7732-18-5		
		TRADE SECRET	N/A		

* 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 L2
 Namac 52
 Comanche County, KS
 X= 1731728.50'
 Y= 156007.00'
 Plan 4 vs Actual



Plan Data for Ransom 3419 2-18H L2

Dogleg Severity Unit: °/100.00ft

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSft)	Toolface (°)
5824.00	87.63	180.57	5232.16	-798.82	6.44	798.82	0.00	0.0
7177.00	90.80	154.23	5239.85	-2051.47	453.37	2051.47	2.80	75.9
7222.00	90.80	155.00	5239.22	-2092.12	472.66	2092.12	1.71	90.0
7272.00	90.80	153.75	5238.53	-2137.19	494.28	2137.19	2.50	270.0
7368.03	88.59	154.69	5239.04	-2223.66	536.04	2223.66	2.50	157.0
8263.39	90.01	181.51	5250.21	-3091.72	718.92	3091.72	3.00	87.2
10322.99	90.01	181.51	5250.00	-5150.60	664.50	5150.60	0.00	0.0

Target Set Information:

Name	TVD (USft)	Northing (USft)	Easting (USft)	Lat (°/'/'")	Long (°/'/'")
PBHL	5250.00	150856.40	1732393.00	37° 4' 38.5"	-99° 25' 2.1"

Plan Data for Ransom 3419 2-18H L2

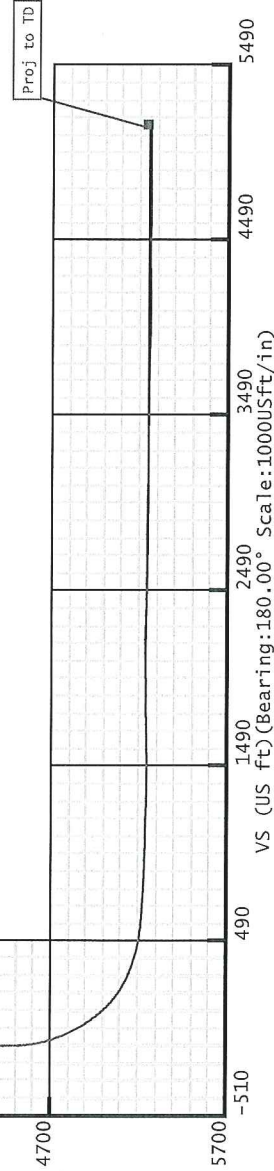
Field: SandRidge Energy - Comanche County, KS S NAD 27 US FT
 Map Unit: USFT
 Projected Coordinate System: NAD27 / Kansas South

Well: Ransom 3419 2-18H L2

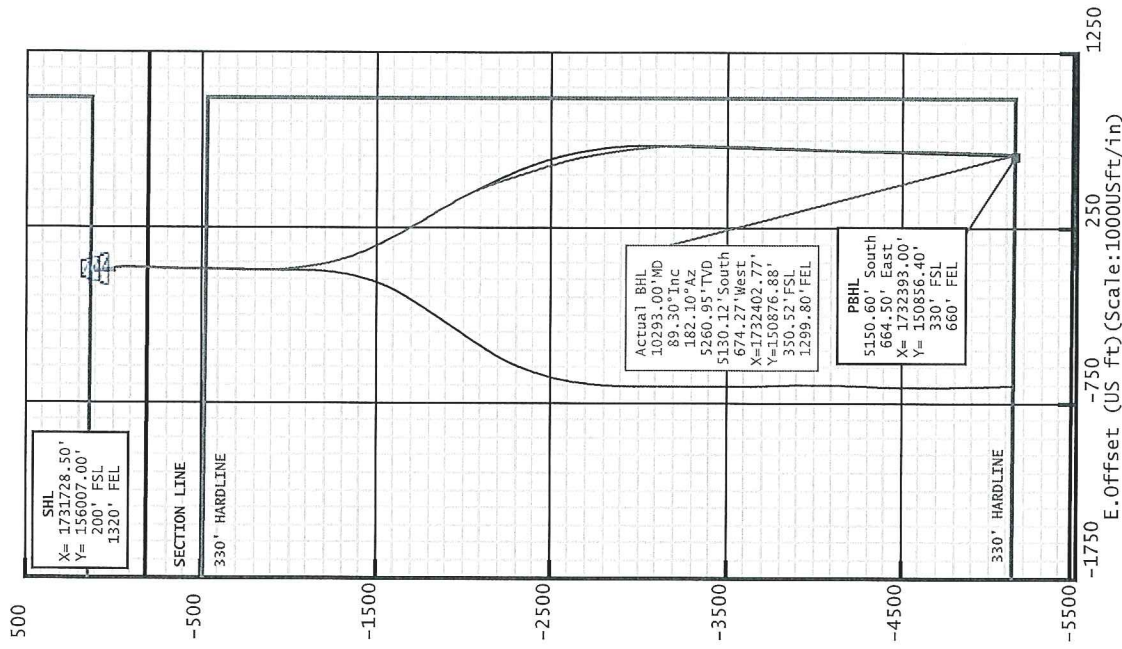
Type: Side-Track
 File Number:
 Plan Folder: P1
 Vertical Section: Position offset of origin from Site centre:
 +N/-S: 0.00USft
 +E/-W: 0.00USft
 Magnetic Parameters:
 Model: Field Strength: Dip: Date:
 BGGM 51435(NT) 5.36° 65.04° 2014-11-30

Proj to TD	Ransom 3419 2-18H L2	Ransom 3419 2-18H L2 - Actual
10293.00' MD	89.30' Inc	182.10' Az
5260.95' TVD	5130.12' South	674.27' West

Actual BHL	PBHL
10293.00' MD	5150.60' South
89.30' Inc	664.50' East
182.10' Az	X= 1732393.00'
5260.95' TVD	Y= 150856.40'
5130.12' South	330' FSL
X=1732402.77'	660' FEL
Y=150876.88'	
330.52' FSL	
1299.80' FEL	



Vertical Section 179.27° AZM



Planned By: Lando Hilier Date: 11/29/2014
 Weatherford Drilling Services
 6525 N. Meridian Ste. #201
 Oklahoma City, OK 73116
 +1.405.773.1100 Main
 +1.405.773.1887 Fax

5D Survey Report

Target Set

Name : Ransom 3419 2-18H L2-T2 Number of Targets : 1

Comment :

TargetName: PBHL	Position (Relative to Site centre) Latitude : 37°4'38.48" Longitude : -99°25'2.08"
Shape: Cuboid	Northing : 150856.40 US ft Easting : 1732393.00US ft
TVD (Drill Floor) : 5250.00 US ft SS : -3438.00 US ft	Inclination : 0.00° Breadth : 20.00 US ft Height : 20.00 US ft
Orientation Dimensions Length : 20.00 US ft	Azimuth : 0.00° Inclination : 0.00°

Survey Name :Definitive Survey

Date : Survey Tool : Comment : Company :

Magnetic Model Date: 30/Nov/2014 Field Strength: 51435.2 nT Declination: 5.36° Dip: 65.04°

Survey Tool Ranges
Name Start MD (us ft) End MD (us ft) Source Survey
MWD 5824.00 10293.00 WFT/MWD Svys

Well path created using minimum curvature

MD (US ft)	Inc (°)	centre, TVD relative to Drill Floor)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	
249.00	0.20	249.88	249.88	249.00	-0.15	-0.41	0.14	0.08	
490.00	0.30	249.88	249.88	490.00	-0.51	-1.40	0.49	0.04	
882.00	0.42	249.88	249.88	881.99	-1.36	-3.71	1.31	0.03	
1386.00	0.85	178.71	178.71	1385.96	-5.73	-5.36	5.66	0.16	First WFT/MWD Svys
1938.00	0.91	42.32	42.32	1937.94	-6.58	-2.31	6.55	0.30	
2426.00	0.22	81.96	81.96	2425.91	-3.59	1.22	3.60	0.15	
2910.00	0.41	139.68	139.68	2909.90	-4.78	3.26	4.82	0.07	
2970.00	0.76	348.65	348.65	2969.90	-4.55	3.32	4.59	1.89	
3031.00	1.77	341.19	341.19	3030.89	-3.26	2.94	3.30	1.67	
3091.00	2.62	343.41	343.41	3090.84	-1.07	2.25	3.10	1.42	
3150.00	4.70	351.62	351.62	3149.72	2.61	1.51	-2.59	3.63	
3212.00	5.43	353.73	353.73	3211.48	8.04	0.82	-8.03	1.21	

5D Survey Report

Target Set	
Name : Ransom 3419 2-18H L2-T2	Number of Targets : 1

Comment :

TargetName:	Position (Relative to Site centre)		
PBHL	+N / -S : -5150.60US ft	Northing : 150856.40 US ft	Latitude : 37°4'38.48"
Shape:	+E / -W : 664.50 US ft	Easting : 1732393.00US ft	Longitude : -99°25'2.08"
Cuboid	TVD (Drill Floor) : 5250.00 US ft		
	SS : -3438.00 US ft		
Orientation	Azimuth : 0.00°	Inclination : 0.00°	
Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Survey Name :Definitive Survey

Date : Survey Tool : Comment : Company :

Magnetic Model
Model Name: BGGM Date: 30/Nov/2014 Field Strength: 51435.2 nT Declination: 5.36° Dip: 65.04°

Survey Tool Ranges			
Name	Start MD (us ft)	End MD (us ft)	Source Survey
MWD	5824.00	10293.00	WFT/MWD Svys

Well path created using minimum curvature

Survey Points (Relative to Site centre, TVD relative to Drill Floor.)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	
249.00	0.20	249.88	249.00	-0.15	-0.41	0.14	0.08	
490.00	0.30	249.88	490.00	-0.51	-1.40	0.49	0.04	
882.00	0.42	249.88	881.99	-1.36	-3.71	1.31	0.03	First WFT/MWD Svy
1386.00	0.85	178.71	1385.96	-5.73	-5.36	5.66	0.16	
1938.00	0.91	42.32	1937.94	-6.58	-2.31	6.55	0.30	
2426.00	0.22	81.96	2425.91	-3.59	1.22	3.60	0.15	
2910.00	0.41	139.68	2909.90	-4.78	3.26	4.82	0.07	
2970.00	0.76	348.65	2969.90	-4.55	3.32	4.59	1.89	
3031.00	1.77	341.19	3030.89	-3.26	2.94	3.30	1.67	
3091.00	2.62	343.41	3090.84	-1.07	2.25	1.10	1.42	
3150.00	4.70	351.62	3149.72	2.61	1.51	-2.59	3.63	
3212.00	5.43	353.73	3211.48	8.04	0.82	-8.03	1.21	

SD Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment
3272.00	4.49	346.10	3271.25	13.14	-0.05	-13.14	1.91	
3334.00	5.27	350.85	3333.03	18.31	-1.09	-18.32	1.42	
3395.00	5.43	355.67	3393.76	23.95	-1.75	-23.97	0.78	
3458.00	5.32	354.92	3456.48	29.84	-2.24	-29.86	0.21	
3521.00	5.22	354.27	3519.22	35.60	-2.78	-35.63	0.18	
3584.00	5.90	2.15	3581.92	41.68	-2.95	-41.72	1.62	
3647.00	6.38	4.30	3644.56	48.41	-2.56	-48.44	0.84	
3710.00	6.34	5.24	3707.17	55.36	-1.98	-55.39	0.18	
3773.00	5.81	3.96	3769.82	62.01	-1.44	-62.02	0.87	
3836.00	5.01	1.30	3832.54	67.94	-1.16	-67.95	1.33	
3898.00	4.39	356.98	3894.33	73.02	-1.22	-73.03	1.15	
3962.00	4.22	349.94	3958.15	77.78	-1.76	-77.80	0.87	
4025.00	4.01	345.54	4020.99	82.20	-2.72	-82.23	0.60	
4089.00	4.05	356.68	4084.83	86.62	-3.41	-86.66	1.22	
4152.00	3.99	358.19	4147.67	91.03	-3.61	-91.07	0.19	
4215.00	4.13	356.75	4210.52	95.49	-3.81	-95.53	0.27	
4279.00	4.53	0.63	4274.33	100.32	-3.91	-100.36	0.77	
4342.00	3.92	355.47	4337.16	104.95	-4.05	-104.99	1.14	
4374.00	3.64	354.87	4369.09	107.05	-4.23	-107.10	0.88	
4406.00	3.38	354.38	4401.03	109.00	-4.41	-109.05	0.82	
4437.00	2.35	352.08	4431.99	110.54	-4.59	-110.59	3.34	
4468.00	0.60	317.64	4462.98	111.29	-4.79	-111.34	6.08	
4500.00	1.72	174.03	4494.98	110.94	-4.85	-110.99	6.97	
4531.00	3.98	152.99	4525.94	109.52	-4.31	-109.56	7.91	
4563.00	6.56	156.68	4557.80	106.85	-3.08	-106.88	8.13	
4594.00	8.85	162.18	4588.52	102.95	-1.65	-102.96	7.75	
4626.00	10.89	166.35	4620.04	97.67	-0.19	-97.66	6.75	
4658.00	13.38	169.67	4651.33	91.09	1.19	-91.07	8.08	
4689.00	15.68	171.88	4681.33	83.41	2.43	-83.37	7.63	
4721.00	18.31	171.86	4711.93	74.15	3.75	-74.10	8.22	
4753.00	21.14	172.32	4742.05	63.46	5.23	-63.39	8.86	
4784.00	23.32	172.80	4770.75	51.83	6.75	-51.74	7.06	
4816.00	24.66	170.63	4799.98	38.96	8.63	-38.84	5.01	
4848.00	26.30	170.24	4828.87	25.38	10.92	-25.24	5.15	
4879.00	28.93	170.50	4856.34	11.22	13.32	-11.05	8.49	
4911.00	31.43	172.11	4884.00	-4.68	15.74	4.68	8.21	
4942.00	33.70	172.86	4910.12	-21.23	17.92	21.45	7.44	
4974.00	35.42	175.47	4936.47	-39.28	19.76	39.53	7.09	
5006.00	37.57	178.23	4962.20	-58.28	20.79	58.54	8.45	
5037.00	40.31	180.78	4986.31	-77.76	20.95	78.02	10.24	
5069.00	43.27	181.43	5010.17	-99.08	20.53	99.33	9.35	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment
5100.00	47.13	181.16	5032.01	-121.06	20.04	121.31	12.47	
5131.00	49.75	180.87	5052.57	-144.25	19.63	144.49	8.48	
5163.00	52.69	181.45	5072.61	-169.19	19.12	169.42	9.30	
5194.00	55.37	182.27	5090.82	-194.26	18.30	194.48	8.91	
5226.00	58.37	182.89	5108.31	-221.03	17.10	221.23	9.51	
5257.00	61.50	181.91	5123.83	-247.83	15.98	248.02	10.46	
5289.00	64.65	182.47	5138.32	-276.34	14.88	276.51	9.97	
5320.00	66.95	181.83	5151.03	-304.59	13.82	304.74	7.65	
5351.00	69.22	180.79	5162.60	-333.34	13.17	333.48	7.96	
5383.00	71.37	180.85	5173.39	-363.46	12.74	363.60	6.72	
5414.00	73.25	180.45	5182.81	-393.00	12.40	393.12	6.19	
5446.00	75.16	180.58	5191.52	-423.78	12.13	423.90	5.98	
5477.00	77.10	180.22	5198.95	-453.88	11.92	453.99	6.36	
5510.00	79.46	180.41	5205.65	-486.19	11.74	486.30	7.17	
5541.00	81.51	181.01	5210.78	-516.76	11.36	516.86	6.88	
5572.00	83.56	180.42	5214.80	-547.49	10.98	547.59	6.88	
5604.00	85.10	180.69	5217.96	-579.33	10.67	579.42	4.89	
5636.00	85.60	181.31	5220.56	-611.22	10.11	611.30	2.48	
5667.00	85.94	181.37	5222.85	-642.13	9.39	642.20	1.11	
5698.00	86.09	181.55	5225.00	-673.04	8.60	673.10	0.75	
5730.00	86.29	181.21	5227.13	-704.96	7.83	705.01	1.23	
5761.00	86.64	180.70	5229.04	-735.90	7.32	735.93	1.99	
5793.00	87.20	180.95	5230.76	-767.85	6.86	767.87	1.92	
5824.00	87.63	180.57	5232.16	-798.82	6.44	798.83	1.85	
5947.00	88.64	178.15	5236.16	-921.73	7.82	921.76	2.13	First WFT-ST01/MWD Svy
6042.00	88.21	171.59	5238.77	-1016.26	16.30	1016.39	6.92	
6106.00	88.71	171.89	5240.49	-1079.58	25.50	1079.81	0.91	
6169.00	89.51	171.49	5241.47	-1141.91	34.60	1142.25	1.42	
6232.00	88.46	168.77	5242.59	-1203.96	45.40	1204.44	4.63	
6294.00	87.97	165.34	5244.52	-1264.34	59.28	1265.00	5.59	
6357.00	88.95	162.28	5246.21	-1324.82	76.83	1325.69	5.10	
6420.00	89.88	158.42	5246.86	-1384.13	98.01	1385.27	6.30	
6483.00	90.74	158.02	5246.52	-1442.63	121.39	1444.06	1.51	
6547.00	89.94	154.19	5246.14	-1501.13	147.31	1502.89	6.11	
6610.00	90.06	152.31	5246.14	-1557.39	175.66	1559.50	2.99	
6672.00	90.62	151.25	5245.77	-1612.02	204.98	1614.50	1.93	
6736.00	90.92	150.90	5244.91	-1668.03	235.93	1670.90	0.72	
6799.00	91.29	150.73	5243.69	-1723.02	266.64	1726.28	0.65	
6870.00	91.23	147.78	5242.13	-1784.02	302.93	1787.74	4.15	
6931.00	90.56	149.52	5241.18	-1836.11	334.66	1840.22	3.06	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)									
ND (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment	
6991.00	90.06	150.08	5240.85	-1887.96	364.84	1892.46	1.25		
7053.00	90.12	149.99	5240.76	-1941.67	395.81	1946.56	0.17		
7114.00	90.37	152.52	5240.50	-1995.15	425.14	2000.41	4.17		
7177.00	90.80	154.23	5239.85	-2051.47	453.37	2057.08	2.80		
7239.00	90.06	158.32	5239.39	-2108.21	478.31	2114.14	6.70		
7301.00	88.70	161.55	5240.06	-2166.44	499.58	2172.63	5.65		
7365.00	89.75	162.15	5240.92	-2227.25	519.51	2233.68	1.89		
7428.00	88.89	162.27	5241.67	-2287.23	538.76	2293.91	1.38		
7491.00	89.20	162.54	5242.72	-2347.27	557.80	2354.19	0.65		
7555.00	90.19	162.34	5243.06	-2408.29	577.11	2415.45	1.58		
7618.00	89.51	163.08	5243.23	-2468.44	595.83	2475.83	1.60		
7681.00	89.38	163.45	5243.84	-2528.77	613.97	2536.39	0.62		
7744.00	89.14	165.22	5244.65	-2589.42	630.98	2597.25	2.83		
7806.00	90.12	166.94	5245.05	-2649.60	645.89	2657.61	3.19		
7842.00	90.00	168.43	5245.01	-2684.77	653.57	2692.88	4.15		
7905.00	89.72	169.56	5245.17	-2746.61	665.60	2754.87	1.85		
7968.00	89.58	170.68	5245.55	-2808.67	676.41	2817.06	1.79		
8031.00	89.30	171.41	5246.17	-2870.90	686.21	2879.41	1.24		
8093.00	89.23	172.14	5246.96	-2932.26	695.08	2940.87	1.18		
8156.00	89.51	173.26	5247.66	-2994.74	703.09	3003.46	1.83		
8220.00	88.25	174.55	5248.91	-3058.37	709.88	3067.16	2.82		
8283.00	88.88	176.14	5250.48	-3121.14	714.99	3129.99	2.71		
8346.00	90.00	178.56	5251.10	-3184.06	717.90	3192.95	4.23		
8408.00	90.14	178.19	5251.02	-3246.03	719.66	3254.94	0.64		
8471.00	89.65	181.02	5251.14	-3309.03	720.10	3317.93	4.56		
8534.00	90.07	181.77	5251.29	-3372.01	718.56	3380.89	1.36		
8597.00	89.30	181.13	5251.64	-3434.98	716.97	3443.84	1.59		
8660.00	89.44	181.55	5252.33	-3497.96	715.50	3506.80	0.70		
8724.00	89.93	180.85	5252.68	-3561.95	714.16	3570.76	1.34		
8787.00	89.30	181.85	5253.11	-3624.93	712.67	3633.71	1.88		
8850.00	89.23	182.05	5253.92	-3687.89	710.53	3696.64	0.34		
8913.00	89.02	181.74	5254.88	-3750.84	708.44	3759.57	0.59		
8976.00	89.02	181.89	5255.96	-3813.80	706.45	3822.49	0.24		
9039.00	88.18	181.69	5257.50	-3876.75	704.48	3885.41	1.37		
9102.00	88.53	183.04	5259.30	-3939.67	701.88	3948.29	2.21		
9165.00	89.16	183.16	5260.57	-4002.57	698.48	4011.14	1.02		
9230.00	89.86	182.48	5261.13	-4067.48	695.28	4076.01	1.50		
9293.00	89.86	182.43	5261.28	-4130.43	692.58	4138.92	0.08		
9355.00	90.49	180.65	5261.09	-4192.40	690.92	4200.86	3.05		
9419.00	91.26	180.54	5260.12	-4256.39	690.25	4264.84	1.22		
9482.00	90.91	180.57	5258.92	-4319.38	689.64	4327.81	0.56		

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor.)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Comment
9545.00	90.21	180.13	5258.31	-4382.37	689.26	4390.80	1.31	
9608.00	89.09	180.25	5258.69	-4445.37	689.05	4453.79	1.79	
9670.00	89.02	180.26	5259.72	-4507.36	688.77	4515.77	0.11	
9733.00	89.23	180.49	5260.68	-4570.35	688.36	4578.75	0.49	
9796.00	89.51	180.65	5261.37	-4633.34	687.73	4641.73	0.51	
9859.00	89.58	180.33	5261.87	-4696.34	687.19	4704.71	0.52	
9922.00	90.49	181.70	5261.83	-4759.33	686.08	4767.68	2.61	
9985.00	91.05	181.60	5260.99	-4822.29	684.26	4830.62	0.90	
10048.00	90.63	181.53	5260.06	-4885.26	682.54	4893.56	0.68	
10111.00	90.14	182.14	5259.64	-4948.23	680.53	4956.50	1.24	
10174.00	89.72	181.69	5259.72	-5011.19	678.42	5019.43	0.98	
10233.00	89.30	182.10	5260.22	-5070.16	676.47	5078.37	0.99	Last WFT-ST01/MWD Svy
10293.00	89.30	182.10	5260.95	-5130.12	674.27	5138.29	0.00	Proj to TD



Invoice

P.O. Box 1105
 Woodward, OK 73802
 Phone: (580)254-5400
 Fax: (580)254-3242

Date	Invoice #
10/27/2014	3196

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
Carl Miller	Net 30	10/27/2014	Ransom 3419 2-18H, Comanche Cnty, KS	Nomac 52

Item	Quantity	Description	
Conductor Hole	120	Drilled 120 ft. conductor hole.	
20" Pipe	120	Furnished 120 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.	
Transport Truck - Conductor	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.	
Fence Panels	1	Furnished and set safety netting around holes.	
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	
			Subtotal \$20,500.00
			Sales Tax \$0.00
			Total \$20,500.00



SandRidge Energy
Ransom 3419 #2-18H
Comanche 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 Ransom 3419 #2-18H 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 1000 psi. After a successful test we began the job by pumping 10 bbls of fresh water spacer. We then mixed and pumped the following cements:

76.60 Bbls (230 sacks) of 12.7 ppg Lead slurry:
65:35 Class A:Poz Blend – 1.87 Yield
6.0% Gel
2.0% Calcium Chloride
0.25# Flocele

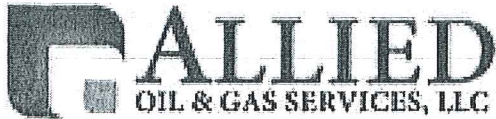
31.52 Bbls (150 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
2.0% Calcium Chloride
0.25# Flocele

The top plug was then released and displaced with 53 Bbls of fresh water. The plug bumped and pressured up to 870 psi. Pressure was released and floats held. 30 bbl cement circulated to the pit.

All real time data can be review in the chart section of the report.

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.

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.

Ransom 3419 2-18H L2 Perforations

Stage Nbr	Date	Type	Top		Top Depth (TVD)	Bottom		Shot Density	Wellbore	String Perforated	Fluid Type
			Depth	Top Depth (TVD)		Depth	Bottom Depth (TVD)				
29	16-Dec-14	Frac Sleeve	6,207.00	5,241.70	5,241.70	6,209.00	5,241.70	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
28	16-Dec-14	Frac Sleeve	6,358.00	5,245.90	5,245.90	6,360.00	5,245.90	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
27	16-Dec-14	Frac Sleeve	6,513.00	5,245.90	5,245.90	6,515.00	5,245.90	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
26	16-Dec-14	Frac Sleeve	6,628.00	5,245.80	5,245.80	6,630.00	5,245.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
25	16-Dec-14	Frac Sleeve	6,825.00	5,242.80	5,242.80	6,827.00	5,242.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
24	16-Dec-14	Frac Sleeve	6,990.00	5,240.50	5,240.50	6,992.00	5,240.50	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
23	16-Dec-14	Frac Sleeve	7,151.00	5,239.90	5,239.90	7,153.00	5,239.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
22	16-Dec-14	Frac Sleeve	7,303.00	5,239.80	5,239.80	7,305.00	5,239.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
21	16-Dec-14	Frac Sleeve	7,463.00	5,242.00	5,242.00	7,465.00	5,242.00	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
20	16-Dec-14	Frac Sleeve	7,630.00	5,243.00	5,243.00	7,632.00	5,243.00	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
19	16-Dec-14	Frac Sleeve	7,786.00	5,244.70	5,244.70	7,788.00	5,244.70	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
18	16-Dec-14	Frac Sleeve	7,942.00	5,245.10	5,245.10	7,944.00	5,245.10	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
17	16-Dec-14	Frac Sleeve	8,112.00	5,246.90	5,246.90	8,114.00	5,246.90	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
16	16-Dec-14	Frac Sleeve	8,274.00	5,250.00	5,250.00	8,276.00	5,250.00	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
15	16-Dec-14	Frac Sleeve	8,426.00	5,250.70	5,250.70	8,428.00	5,250.70	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
14	16-Dec-14	Frac Sleeve	8,583.00	5,251.20	5,251.20	8,585.00	5,251.20	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
12	16-Dec-14	Frac Sleeve	8,924.00	5,254.70	5,254.70	8,926.00	5,254.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
11	16-Dec-14	Frac Sleeve	9,042.00	5,257.30	5,257.30	9,044.00	5,257.30	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
10	16-Dec-14	Frac Sleeve	9,157.00	5,260.10	5,260.10	9,159.00	5,260.20	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
9	16-Dec-14	Frac Sleeve	9,235.00	5,260.80	5,260.80	9,237.00	5,260.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
8	16-Dec-14	Frac Sleeve	9,385.00	5,260.40	5,260.40	9,387.00	5,260.40	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
7	15-Dec-14	Frac Sleeve	9,508.00	5,258.30	5,258.30	9,510.00	5,258.20	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
6	15-Dec-14	Frac Sleeve	9,589.00	5,258.10	5,258.10	9,591.00	5,258.20	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
5	15-Dec-14	Frac Sleeve	9,740.00	5,260.50	5,260.50	9,742.00	5,260.50	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
4	15-Dec-14	Frac Sleeve	9,818.00	5,261.20	5,261.20	9,820.00	5,261.30	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
3	15-Dec-14	Frac Sleeve	9,975.00	5,260.80	5,260.80	9,977.00	5,260.80	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
2	15-Dec-14	Frac Sleeve	10,092.00	5,259.40	5,259.40	10,094.00	5,259.40	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water
1	15-Dec-14	Frac Sleeve	10,206.00	5,259.60	5,259.60	10,208.00	5,259.60	1	Leg 2	Production Liner, 10,257 ft KB	Fresh Water