

SandRidge Energy Bascom Farms 3408 1-4H33 Harper 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 Bascom Farms 3408 1-4H33 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 3500 psi. After a successful test we began the job by pumping 10 bbls of preflush spacer. We then mixed and pumped the following cements:

80.72 bbl

245 Sacks of 13.2 ppg

1.85 Yield

Class A Slurry -

2% Calcium Chloride

2% Gypsum 2% NAMS

.25 lb/sk Flocele

32.06 bbl

150 Sacks of 15.6 ppg

Class A Slurry -

1.2 Yield

2% Calcium Chloride

.25 lb/sk Flocele

The top plug was then released and displaced with 57.5 Bbls of fresh water. The plug bumped and pressured up to 1000 psi. Pressure was released and floats held with .75 bbl back. 30 Bbl circulated to the pit.

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.

Operator Name: Well Name: May 13, 2015 SANDRIDGE ENERGY INC EBUSINESS

Bascom Farms 3408 1-4H33



Pump Schedule

## 7 " Intermediate

Fluid #	Fluid Type - Name	Surface Density (lb/gal)	Estimated Avg. Rate (bbl/min)		Water Required (bbl.)
Spacer 1	Super Flush	8.34	5	30.0	30.0
Lead 1	ALLIED 50/50 POZ BLEND - CLASS A	13.60	5	42.4	27.3
Tail 1	CLASS A COMMON	15.60	5	21.1	12.3
Displacement 1	Displacement	8.33	5	190.3	190.3

TOTALS 283.8 259.9 Estimated pump time @ 4 bpm 1.18 hrs Estimated pump time @ 8 bpm 0.59 hrs

Fluids Design 7	" Inter	mediate		
Spacer 1 Super Flush		Fluid Density:	8.34 lb/gal	
		Fluid Volume:	30.0 bbls	
Lead 1 ALLIED 50/50 POZ BLEND - CLASS A				
50:50 Class A:Poz blend, 2% Gel				
0.4% BWOC Fluid Loss -FL-160		Slurry Density:	13.60 lb/gal	
0.1% BWOC Suspension Agent - SA51		Slurry Yield:	1.40 ft <sup>3</sup> /sk	
		Mixing Water	6.75 gal/sk	
		Total sacks	170 sks	
		Total barrels	42.4 bbls	
				(8)
Tail 1 CLASS A COMMON				
100% Class A - Neat				
0.8% BWOC Fluid Loss -FL-160		Slurry Density:	15.60 lb/gal	
0.2% BWOC Dispersant		Slurry Yield:	1.18 ft <sup>3</sup> /sk	
		Mixing Water	5.16 gal/sk	
		Total sacks	100 sks	
		Total barrels	21.1 bbls	
Displacement 1 Displacement		Fluid Density:	8.33 lb/gal	
		Fluid Volume:	190.3 bbls	



				Slurry	Details				
SPACER			Water R	eg gal/sk	0	Yield ft <sup>3</sup> /sk	0	# Sacks	0
Fluid Con	nposition								
Super spa	acer								
Total	Average	Average	Average	Max Rate	Max	Planned	Density	Start	End
BBL	Dens PPG	Rate Bpm	Press PSI	Bpm	Press PSI	Dens PPG	Accuracy %	Time	Time
31.3	8.9	5.94	275	9.47	358	0	0	3:53 PM	3:58 PM
LEAD OF	dense		187-t D		6.75	V: 1.1 (+3 /-1-	1.4	# Sacks	170
LEAD CE			Water Reg gal/sk		0.75	Yield ft <sup>3</sup> /sk 1.4		# 3acks 170	
Lead cen	nposition								
Total	Average	Average	Average	Max Rate	Max	Planned	Density	Start	End
BBL		Rate Bpm		Bpm	Press PSI		Accuracy %	Time	Time
42.5	13.4	280	6	0	6	0	0	3:58 PM	4:04 PM
TAIL CEN	IENT		Water R	eq gal/sk	5.16	Yield ft <sup>3</sup> /sk	1.19	# Sacks	100
Fluid Cor	nposition						100 mg		
Tail ceme	ent				_				
Total	Average	Average	Average	Max Rate	Max	Planned	Density	Start	End
BBL	Dens PPG	Rate Bpm	Press PSI	Bpm	Press PSI	Dens PPG	Accuracy %	Time	Time
22	15.5	6.64	211	11.96	325	0	0	4:11 PM	4:22 PM
FW			Water R	eg gal/sk	0	Yield ft <sup>3</sup> /sk	0	# Sacks	0
Fluid Cor	nposition								
Displacm	and with the party of the party	· · · · · · · · · · · · · · · · · · ·	ACTION DESCRIPTION OF ACTION OF ACTION OF ACTION	*******************	**********	######################################			and the second of the second o
Total	Average	Average	Average	Max Rate	Max	Planned	Density	Start	End
	Done DDG	Rate Bpm	Press PSI	Bpm	Press PSI	Dens PPG	Accuracy 9	Time	Time
BBL	Inclis LLO								

Event Summary							
Activity Description (Job Marker)	Dens PPG	Press PSI	Rate bpm	Total bbl	Time		
PRESSURE TEST	9.17	1919.00	0.00	6.30	3:51:20 PM		
PUMP SPACER	9.06	6.00	0.00	0.00	3:58:30 PM		
PUMP LEAD	14.38	281.00	4.38	8.00	4:08:00 PM		
PUMP TAIL	13.54	194.00	6.00	0.00	4:16:06 PM		
DISPLACMENT	10.08	-6.00	1.40	0.00	4:25:42 PM		
Paused 17:16:18	0.11	-11.00	0.00	197.80	5:16:17 PM		