



SandRidge Energy  
Hawkinson #1823 3-12H  
Ness 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 Hawkinson 1823- 3-12 Surface.

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 10 bbls of preflush spacer. We then mixed and pumped the following cements:

157 Bbls (470 sacks) of 12.7 ppg Lead slurry:  
65:35 Class A:Poz Blend - 1.87 Yield  
6.0% Gel  
2.0%cc  
¼# Floseal

32Bbls (100 sacks) of 15.6 ppg Tail slurry:  
Class A - 1.20 Yield  
2.0%cc  
¼# Floseal

The top plug was then released and displaced with 99 Bbls 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.



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**INVOICE**

DATE	INVOICE #
1/28/2014	4517

<b>BILL TO</b>
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

<b>REMIT TO</b>
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
NESS. KS	1/28/2014	3454	HORIZON 4	HAWKINSON 1823 1-12H	Due on rec...

Description	
DRILLED 60' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 60' OF 20" CONDUCTOR PIPE FURNISHED WELDER AND MATERIALS FURNISHED 6 YARDS OF GRADE A CEMENT DRILL MOUSE HOLE FURNISHED 25' OF 14" CONDUCTOR PIPE  TOTAL BID \$10,250.00	

<b>Sales Tax (6.15%)</b>	\$91.76
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<b>TOTAL</b>	\$10,341.76
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