

# HALLIBURTON

iCem<sup>®</sup> Service

## **SYNERGY RESOURCES CORPORATION**

Date: Monday, December 08, 2014

**Synergy SRC Kiehn N-4NHZ Misc. Pump**  
SYNERGY MISC PUMP

Sincerely,  
**Derek Trier**

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## **1.1 Executive Summary**

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Halliburton appreciates the opportunity to perform the cementing services on the **SRC Kiehn N-4NHZ cement Misc. Pump** job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton [Brighton]**

**Job Times**

	<b>Date</b>	<b>Time</b>	<b>Time Zone</b>
<b>Called Out</b>	10/6/14	0200	MTN
<b>On Location</b>	10/7/14	0000	
<b>Job Started</b>	10/7/14	0130	
<b>Job Completed</b>	10/7/14	0242	
<b>Departed Location</b>	10/7/14	0400	

**HALLIBURTON**

*The Road to Excellence Starts with Safety*

last updated on 10/7/2014 2:56:25 AM

**1.3 Job Overview**

		Units	Description
1	Surface temperature at time of job	°F	
2	Mud type (OBM, WBM, SBM, Water, Brine)	-	WBM
3	Actual mud density	lb/gal	
4	Time circulated before job	HH:MM	
5	Mud volume circulated	Bbls	
6	Rate at which well was circulated	Bpm	
7	Pipe movement during hole circulation	Y/N	N
8	Rig pressure while circulating	Psi	
9	Time from end mud circulation to start of job	HH:MM	
10	Pipe movement during cementing	Y/N	N
11	Calculated displacement	Bbls	
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	N
14	Annular flow after job	Y/N	N
15	Length of rat hole	Ft	
16	Units of gas detected while circulating	Units	
17	Was lost circulation experienced at any time ?	Y/N	N

**1.4 Job Event Log**

<b>1.6 Job Event Log</b>										
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	DS Pump Rate (bbl/min)	Comment
Event	1	Start Job	Start Job	10/7/2014	01:30:45	COM8	867.00	8.31	0.10	Crew called out at 2000 rewuested on location at 0000, crew arrived at 2330 nad began rigging up. Rig had about 2000 feet of drill pipe to run in the hole.
Event	2	Start Job	Start Job	10/7/2014	01:32:54	COM8	133.00	8.30	0.00	PUMED 1.5 BBL TO FILL ALL THE LINES
Event	3	Test Lines	Test Lines	10/7/2014	01:37:28	COM8	4206.00	8.40	0.00	TESTED LINES TO 5000 PSI NO VISIBLE LEAKS
Event	4	Pressure Up Well	Pressure Up Well	10/7/2014	01:45:16	COM8	2.00	8.36	0.00	3000 PSI BACKSIDE TEST FOR 10 MINUTES.
Event	5	Clean Hole	Clean Hole	10/7/2014	02:06:00	COM8	-1.00	8.67	0.00	PIMPED 210 BBL FRESH WATER MIXED WITH BIOCIDE AND CLAWEB. PUMPED AT 7 BPM AND 1700 PSI.
Event	6	End Job	End Job	10/7/2014	02:42:55	COM8	20.00	8.29	0.00	

2.0    Appendix

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