

# HALLIBURTON

iCem<sup>®</sup> Service

**SYNERGY RESOURCES CORPORATION**

Date: Wednesday, August 06, 2014

**SRC Kiehn C-4CHZ**

Sincerely,  
**Joshua Prudhomme**

## Table of Contents

---

1.1	Executive Summary	3
1.2	Cementing Job Summary	4
1.4	Job Event Log	6
2.0	Custom Graphs	7
2.1	Custom Graph	7

---

## **1.1** Executive Summary

---

Halliburton appreciates the opportunity to perform the cementing services on the **SRC Kiehn C-4CHZ 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**

<b>Job Times</b>			
	<b>Date</b>	<b>Time</b>	<b>Time Zone</b>
<b>On Location</b>	8/5/2014	08:00:00	MST
<b>Job Started</b>	8/6/2014	02:34:18	MST
<b>Job Completed</b>	8/6/2014	06:45:30	MST

## 1.2 Cementing Job Summary

<i>The Road to Excellence Starts with Safety</i>					
Sold To #: <b>359915</b>		Ship To #: <b>3542580</b>		Primary Sales Order #: <b>0901559664</b>	
Customer: <b>SYNERGY RESOURCES CORPORATION</b>			Job Purpose: <b>7544 CMT MISCELLANEOUS PUMPING BOM</b>		
Well Name: <b>SRC KIEHN</b>		Well #: <b>C-4CHZ</b>		API/UWI #: <b>05-123-39718-00</b>	
Field: <b>WATTENBERG</b>		City: <b>JOHNSTOWN</b>		Country/Parish: <b>WELD</b> State/Prov: <b>COLORADO</b>	
Legal Description:					
Rig Name & Number / Phone Number: <b>ENSIGN 131 / 970-986-9097</b>				Location: <b>LAND</b>	
myCem id# :		Job Criticality Status: <b>GREEN</b>		iFacts Request id #:	
Contacts					
Type	Name	Email	Phone		
<b>Company Man</b>					
<b>Account Rep</b>	<b>Jon Gregory</b>	<b>Jon.Gregory@Halliburton.com</b>	<b>+19702104722</b>		
<b>Service Coordinator</b>	<b>Ryan Wyckoff</b>	<b>Ryan.Wyckoff@halliburton.com</b>	<b>+17205386044</b>		
<i>PPE, Safety Huddles, JSA's, HOC &amp; Near Miss Reporting, BBP Observations</i>					
Distance/Mileage(1 way)		<b>35 mile</b>		Distance/Mileage(1 way) <b>35 mile</b>	
Srvcs:				Mtls:	
				Rqstd Job Start Date/Time: <b>08/01/2014</b>	
HSE Information					
H2S Present:				CO2 Present:	
<b>Drive Safely. Lights On for Safety. Wear Seat Belts. Observe all HES / Customer Safety Policies.</b>					
Directions:					
I-25 North to Johnson town exit to HWY 60 west on HWY 60 "CR 48" .9 miles to CR 7 South over ditch TR after ditch to location					
Instruction					
General Equipment					
3rd Party / Inventory Items					
SAP Number	Description	Quantity	UoM	Pricing Enabled	
Job Info / Well Data					
Job Depth (MD)	Job Depth (TVD)	Well Fluid Type	Well Fluid Weight <b>lbm/gal</b>	Displacement Fluid	Displ Fluid Weight <b>lbm/gal</b>

<b>BHST degF</b>	<b>BHCT degF</b>	<b>Log Temp degF</b>				<b>Time Since Circ Stopped HH:MM:SS</b>					
<b>Job Tubulars/Tools</b>											
Description	Size in	Weight	ID in	Thread	Grade	Top MD	Btm MD	Top TVD	Btm TVD	Shoe Jnt	% Excess
<b>Mud conditioning plan</b>											
<p>The condition of the drilling fluid is one of the most important variables in achieving a cement barrier. Prior to cementing, circulate the mud at the planned highest displacement rate for the cement job for at least 2 bottoms-up until the well is clean, mud is free of gas and pump pressures have stabilized.</p>											
<b>Materials</b>											
<p><b>Caution: Displacement quantities and densities are estimates ONLY! Do not use them for the actual job.</b></p>											
<b>Packaged Materials</b>											
<b>Casing Equipment</b>											

## 1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Combined Pump Rate (bbl/min)	Driv-Side Pump Pressure (psi)	Comment
Event	1	Other	Other	8/5/2014	08:00:00	USER			On Location . Requested on location 1000
Event	2	Other	Other	8/5/2014	08:05:00	USER			Review Rig Layout and perform hazard hunt
Event	3	Other	Other	8/5/2014	08:10:00	USER			Discuss fluid sources and rig in
Event	4	Other	Other	8/5/2014	08:15:00	USER			Rig up equipment
Event	5	Other	Other	8/5/2014	09:10:00	USER			Rig Up Completed
Event	6	Other	Casing on Bottom	8/6/2014	01:30:00	USER			
Event	7	Other	Circulate Well	8/6/2014	01:35:00	USER			4bpm @ 850psi
Event	8	Other	Pre Job Safety Meeting	8/6/2014	02:00:00	USER	2.06	-12.31	With Customer and all 3rd Parties Involved
Event	9	Start Job	Start Job	8/6/2014	02:34:18	COM6	0.00	-36.74	
Event	10	Test Lines	Test Lines	8/6/2014	02:39:38	USER	0.00	5081.36	4987psi
Event	11	Other	Pump Balls Down	8/6/2014	02:42:58	USER	0.95	-10.36	209bbbls FW w/ ClayWeb. Ball to Seat around 140-150bbbls with Free Fall
Event	12	Other	Ball On Seat	8/6/2014	02:53:09	USER	4.06	996.07	Ball Seated @ 25bbbls
Event	13	Other	Comment	8/6/2014	02:58:19	USER	0.00	-38.69	Push Pull Set Hanger
Event	14	Other	Blow Out Ball Seat	8/6/2014	03:31:23	USER	0.63	2976.67	3480blow Pressure
Event	15	Other	Circulate Mud out With FW	8/6/2014	03:44:55	USER	0.79	795.76	209bbbls Total
Event	16	Other	Pressure Test Backside	8/6/2014	05:12:21	USER	0.00	3005.00	3000psi 10 mintes Start Pressure 3002
Event	17	Other	Sting Out	8/6/2014	05:28:00	USER	0.00	752.76	
Event	18	Other	Circulate Well	8/6/2014	05:36:24	USER	0.00	688.28	Fresh Water and Clayfix
Event	19	End Job	End Job	8/6/2014	06:45:30	COM6	0.00	-39.67	

## 2.0 Custom Graphs

### 2.1 Custom Graph

