

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

For:

Date: Wednesday, September 10, 2014

SRC Kiehn 32-4CHZ

Synergy SRC Kiehn 32-4CHZ Misc Pump

Sincerely,
Derek Trier

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **SRC Kiehn 32-4CHZ** 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

Job Times

	Date	Time	Time Zone
Called Out	8/30/14	0000	MST
On Location	8/30/14	0300	MST
Job Started	8/30/14	0525	MST
Job Completed	8/30/14	1056	MST
Departed Location	8/30/14	1200	MST

1.2 Cementing Job Summary

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 359915	Ship To #: 3542581	Quote #:	Sales Order #: 0901619032							
Customer: SYNERGY RESOURCES CORPORATION		Customer Rep: Kevin								
Well Name: SRC KIEHN	Well #: 32-4CHZ	API/UWI #: 05-123-39713-00								
Field: WATTENBERG	City (SAP): JOHNSTOWN	County/Parish: WELD	State: COLORADO							
Legal Description: SW SE-4-4N-68W-201FSL-1783FEL										
Contractor:		Rig/Platform Name/Num: ENSIGN 131								
Job BOM: 7544										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX46524		Srvc Supervisor: Justin Wheeler								
Job										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type		BHST								
Job depth MD	11383ft	Job Depth TVD								
Water Depth		Wk Ht Above Floor 4'								
Perforation Depth (MD)	From	To								
Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		7	6.276	26			0	7537	0	0
Casing		4.5	4	11.6	8 RD	P-110	7000	11383	0	0
Open Hole Section			6.125				7537	11389	0	0
Comment Pump 197 bbls BioCide & ClaWeb water. Rolled mud out of 7" casing hole with 195 bbls BioCide and ClaWeb water.										

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	
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	
11	Calculated displacement	Bbls	
12	Job displaced by	Rig/HES	HES
13	Annular before job)?	Y/N	
14	Annular flow after job	Y/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	No

1.4 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pass-Side Pump Pressure (psf)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comment
Event	1	Safety Meeting - Service Center or other Site	Safety Meeting - Service Center	8/30/2014	02:00:00	USER				Journey Management Meeting With HES Crew, Prior to Departing Service Center
Event	2	Arrive At Loc	Arrive At Loc	8/30/2014	03:00:00	USER				Requested on Location @ 0300, Arrived at 0300. Rig R/H with Liner
Event	3	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	8/30/2014	03:10:00	USER				Pre-Spotting Meeting With HES Crew, Prior to Spotting Trucks
Event	4	Safety Meeting - Pre Job	Safety Meeting - Pre Job	8/30/2014	03:10:01	USER				Pre-Job Safety Meeting With HES, and all 3rd Party Employees
Event	5	Start Job	Start Job	8/30/2014	05:25:24	COM9	-2.00	0.00	7.6	
Event	6	Test Lines	Test Lines	8/30/2014	05:35:03	COM9	4089.00	0.00	10.5	Test Lines, Monitor for Leaks (Notice a leak back to tanks, change-out valve, attempt pressure test once again)
Event	7	Other	Other	8/30/2014	06:21:14	USER	16.00	0.00	11.0	Tool Rep. and Rig Pump Balls to Seat, and Set Liner Hanger
Event	8	Test Lines	Test Lines	8/30/2014	07:20:02	COM9	-3.00	0.00	11.2	Second Valve is leaking back to truck as well
Event	9	Test Lines	Test Lines	8/30/2014	07:30:00	COM9	2980.00	0.00	11.3	Drive to Yard, to get new valves to test against
Event	10	Arrive At Loc	Arrive At Loc	8/30/2014	08:00:29	USER	-12.00	0.00	11.3	Arrive back at Location with New Valves, Swap Out, and Line up for Pressure Test
Event	11	Test Lines	Test Lines	8/30/2014	08:13:50	USER	5020.00	0.00	12.5	Test Lines, Monitor for Leaks, No visible leaks, Pressure is Holding

Event	12	Pump Displacement	Pump Water	8/30/2014	08:24:53	COM9	454.00	1.60	0.4	Pump 197 bbls BioCide & Cla-Web Water
Event	13	Shutdown	Shutdown	8/30/2014	09:20:36	COM9	-2.00	0.00	192.4	
Event	14	Set Packer	Set Packer	8/30/2014	09:20:40	COM9	-2.00	0.00	192.4	Rig set packer.
Event	15	Test Lines	Test Lines	8/30/2014	09:45:43	COM9	3072.00	0.00	197.2	Pump 2 bbls to fill 7 inch casing. Pressure test backside to 3000 PSI for 15 minutes. Total PSI lost during test was 4 PSI.
Event	16	Pump Displacement	Pump Displacement	8/30/2014	10:10:33	COM9	492.00	0.00	0.0	Pump 195 bbls BioCide & Cla-Web Water to clean mud out of 7 inch casing.
Event	17	End Job	End Job	8/30/2014	10:56:49	COM9	-16.00	0.00	199.7	
Event	18	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/30/2014	10:59:00	USER				Perform pre rig down safety meeting with HES personnel.

2.0 Appendix
