

# HALLIBURTON

iCem<sup>®</sup> Service

## **SYNERGY RESOURCES CORPORATION**

Date: Tuesday, November 17, 2015

### **SRC Vista 44-2N-A**

Surface

Job Date: Saturday, November 07, 2015

Sincerely,

**Justin Lansdale**

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **SRC Vista 44-2N-A** cement **Surface** casing 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 [Fort Lupton]**

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*Cementing Job Summary*

*The Road to Excellence Starts with Safety*

Sold To #: 359915	Ship To #: 3700825	Quote #:	Sales Order #: 0902875398							
Customer: SYNERGY RESOURCES CORPORATION	Customer Rep: SEAN									
Well Name: SRC VISTA	Well #: 44-2N-A	API/UWI #: 05-123-41055								
Field:	City (SAP): JOHNSTOWN	County/Parish: WELD	State: COLORADO							
Legal Description:	Rig/Platform Name/Num: ENSIGN 131									
Contractor: ENSIGN DRLG	Job BOM: 7521									
Well Type: GAS	Sales Person: HALAMERICA\HX37727									
		Srvc Supervisor: Joseph Scileppi								
Job										
Formation Name										
Formation Depth (MD)	Top	0	Bottom							
Form Type			BHST							
Job depth MD	652ft		Job Depth TVD							
Water Depth			652							
Perforation Depth (MD)	From		Wk Ht Above Floor							
		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		9.625	8.921	36			0	639		0
Open Hole Section			13.5				0	652		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe	9.625			639	Top Plug	9.625	1	HES		
Float Shoe	9.625				Bottom Plug	9.625		HES		
Float Collar	9.625				SSR plug set	9.625		HES		
Insert Float	9.625				Plug Container	9.625	1	HES		
Stage Tool	9.625				Centralizers	9.625		HES		
Miscellaneous Materials										
Gelling Agt	Conc		Surfactant	Conc	Acid Type	Qty	Conc			
Treatment Fld	Conc		Inhibitor	Conc	Sand Type	Size	Qty			
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4					
42 gal/bbl		FRESH WATER								

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*Cementing Job Summary*

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
2	SwiftCem B2	SWIFTCEM (TM) SYSTEM	215	sack	13.4	1.79		4	9.5
9.50 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	Displacement	Displacement	47	bbl	8.33				
<b>Cement Left In Pipe</b>	<b>Amount</b>	32 ft			<b>Reason</b>			<b>Shoe Joint</b>	
<b>Mix Water:</b>	<b>pH ##</b>	<b>Mix Water:</b> ## ppm			<b>Mix Water Temperature:</b> ## °F °C				
		<b>Chloride:</b>							
<b>Cement Temperature:</b> ## °F °C	<b>Plug Displaced by:</b> ## lb/gal kg/m3 XXXX			<b>Disp. Temperature:</b> ## °F °C					
<b>Plug Bumped?</b> Yes/No	<b>Bump Pressure:</b> ##### psi MPa			<b>Floats Held?</b> Yes/No					
<b>Cement Returns:</b> ## bbl m3	<b>Returns Density:</b> ## lb/gal kg/m3			<b>Returns Temperature:</b> ## °F °C					
<b>Comment</b> GOT 6 BBLs OF CMT BACK TO SURFACE									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	11/7/2015	05:00:00	USER	CREW CALLED OUT FOR ON LOCATION AT 1000
Event	2	Crew Leave Yard	Crew Leave Yard	11/7/2015	08:00:00	USER	
Event	3	Arrive At Loc	Arrive At Loc	11/7/2015	09:00:00	USER	UPON ARRIVAL RIG JUST STARTED RUNNING CASING, MET W/ COMPANY REP TO DISCUSS JOB PROCEDURES
Event	4	Rig-up Lines	Rig-up Lines	11/7/2015	10:00:00	USER	PRE RIG UP JSA W/ CREW
Event	5	Safety Meeting - Pre Job	Safety Meeting - Pre Job	11/7/2015	11:40:00	USER	JSA W/ ALL INVOLVED PERSONNEL
Event	6	Start Job	Start Job	11/7/2015	11:59:46	COM5	
Event	7	Test Lines	Test Lines	11/7/2015	12:02:01	COM5	TESTED LINES TO 2500 PSI, NO VISIBLE LEAKS
Event	8	Pump Spacer 1	Pump Spacer 1	11/7/2015	12:07:05	COM5	PUMPED 5 BBLS OF DYE WATER AT 2.5 BPM AND 2 PSI
Event	9	Pump Spacer 2	Pump Spacer 2	11/7/2015	12:09:37	COM5	PUMPED 20 BBLS OF MUD FLUSH AT 2.7 BPM AND 3 PSI
Event	10	Pump Lead Cement	Pump Lead Cement	11/7/2015	12:17:33	COM5	PUMPED 215 SKS OR 68.5 BBLS OF 13.4 CMT AT 6 BPM AND 46 PSI
Event	11	Check Weight	Check weight	11/7/2015	12:20:59	COM5	WEIGHT VERIFIED W/ SCALES
Event	12	Check Weight	Check weight	11/7/2015	12:26:24	COM5	WEIGHT VERIFIED W/ SCALES

Event	13	Check Weight	Check weight	11/7/2015	12:28:24	COM5	WEIGHT VERIFIED W/ SCALES
Event	14	Shutdown	Shutdown	11/7/2015	12:32:19	COM5	
Event	15	Drop Top Plug	Drop Top Plug	11/7/2015	12:32:32	COM5	PLUG PRE LOADED AND WITNESSED BY COMPANY REP
Event	16	Pump Displacement	Pump Displacement	11/7/2015	12:32:38	COM5	PUMPED 47 BBLS OF H2O AT 3.5 BPM AND 82 PSI, GOT 6 BBLS OF CMT BACK TO SURFACE
Event	17	Bump Plug	Bump Plug	11/7/2015	12:51:29	COM5	145 PSI WAS FINAL CIRCULATING PRESSURE AND LANDED AT 565 PSI
Event	18	Other	Other	11/7/2015	12:56:00	COM5	FLOATS HELD, GOT .5 BBLS BACK TO TRUCK
Event	19	End Job	End Job	11/7/2015	13:01:43	COM5	

2.2 Custom Graph

