

**SYNERGY RESOURCES CORPORATION  
20203 HIGHWAY 60  
PLATTEVILLE, Colorado**

Olson  
Olson 3CD

Ensign/226

## **Post Job Summary** **Cement Surface Casing**

Date Prepared: 10/01/2012  
Version: 1

Service Supervisor: PICKELL, CHRISTOPHER

Submitted by: MCKAY, ADAM

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

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Job Tubulars					MD		Excess	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	%	
Open Hole Section	Open Hole		12.250		0.00	1,029.00	-	-
Casing	Surface Casing	8.63	8.097	24.00	0.00	1,020.00	-	-

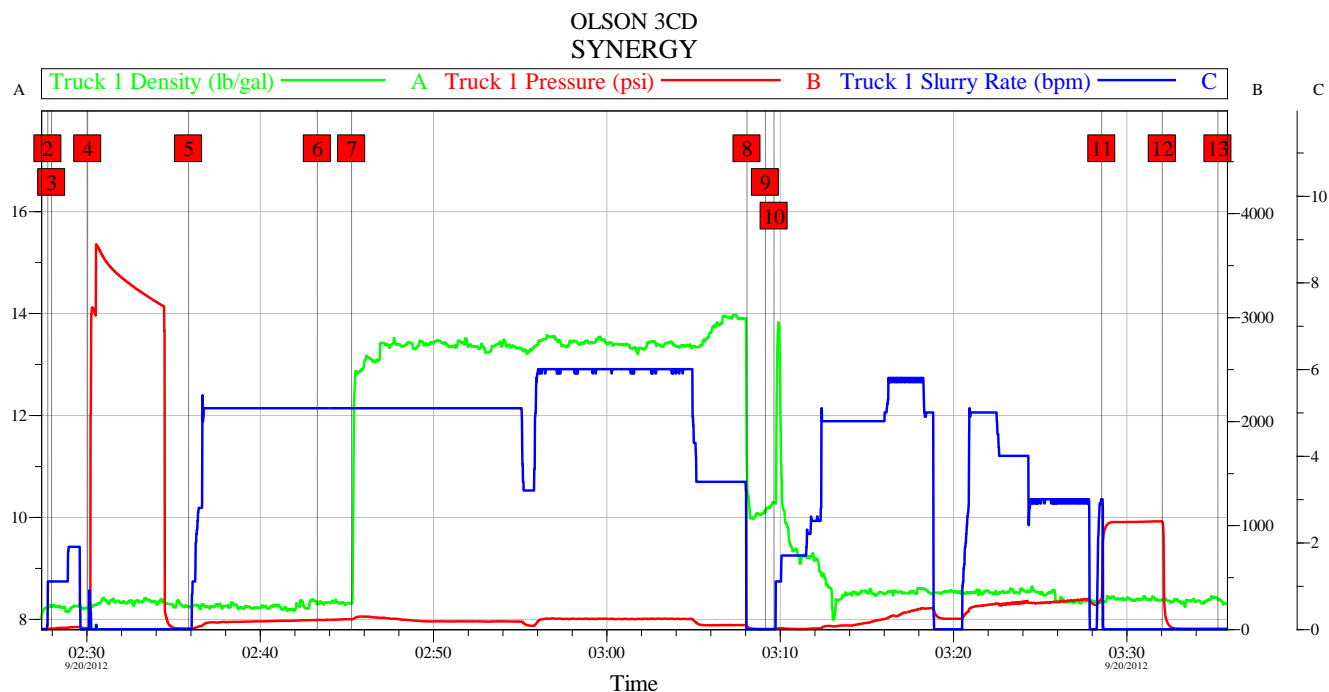
## Pumping Schedule

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Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	5.00	40.0 bbl	40.0 bbl
1	2	Cement Slurry	SwiftCem B2	13.40	5.00	315.0 sacks	315.0 sacks

# HALLIBURTON

## Data Acquisition



### Global Event Log

Intersection	T1P	Intersection	T1P	Intersection	T1P
2 Start Job	02:27:46 3.000	3 Prime Pumps	02:27:59 5.000	4 Test Lines	02:30:04 9.000
5 Pump Water	02:35:53 7.000	6 Pump Water W/Red Dye	02:43:19 88.00	7 Pump Swiftcem 13.4#	02:45:18 96.00
8 Shutdown	03:08:06 25.96	9 Drop Top Plug	03:09:10 2.000	10 Pump Displacement	03:09:40 2.000
11 Bump Plug	03:28:34 293.8	12 Check Floats	03:32:04 1036	13 End Job	03:35:17 4.000

Customer: SYNERGY  
Well Description: OLSON 3CD  
SERVICE SUPERVISOR CHRISTOPHER PICKELL

Job Date: 20-Sep-2012  
UWI: 05-123-35920  
SERVICE OPERATOR VAUGHN OTERI

Sales Order #: 9830712

OptiCem v6.4.10  
20-Sep-12 03:47

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
09/20/2012 02:27		Start Job					
09/20/2012 02:30		Test Lines	1			3000.0	PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
09/20/2012 02:35		Pump Spacer 1	5	40		80.0	PUMP 40 BBL OF WATER. THE LAST 10 WITH RED DYE
09/20/2012 02:45		Pump Cement	6	103		60.0	PUMP SWIFTCES CEMENT 315 SKS 13.4 PPG 1.84 CUFT/SK 9.73 GAL/SK MIXED WITH RIG WATER
09/20/2012 03:08		Shutdown					WASH PUMPS AND LINES ON TOP OF THE PLUG
09/20/2012 03:09		Drop Top Plug					PLUG PRELOADED. WITNESSED BY COMPANY MAN
09/20/2012 03:09		Pump Displacement	6	62.3		300.0	PUMP DISPLACEMENT USING RIG WATER
09/20/2012 03:28		Bump Plug	3			293.0	CALCULATED PRESSURE TO LAND WAS 259. PLUG LANDED WITH 293 PSI GOING 500 PSI OVER FINAL LIFT
09/20/2012 03:32		Check Floats					PRESSURE WAS HELD 4 MINUTES THEN RELEASED. FLOATS HELD 1/2 BBL BACK TO TANKS
09/20/2012 03:35		End Job					25 BBL OF CEMENT TO SURFACE ON DISPLACEMENT

# HALLIBURTON

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915		<b>Ship To #:</b> 2952446		<b>Quote #:</b>		<b>Sales Order #:</b> 9830712	
<b>Customer:</b> SYNERGY RESOURCES CORPORATION				<b>Customer Rep:</b> Weitzel, Charlie			
<b>Well Name:</b> Olson			<b>Well #:</b> 3CD			<b>API/UWI #:</b> 05-123-35920-00	
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> MEAD		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Contractor:</b> Ensign			<b>Rig/Platform Name/Num:</b> 226				
<b>Job Purpose:</b> Cement Surface Casing							
<b>Well Type:</b> Development Well			<b>Job Type:</b> Cement Surface Casing				
<b>Sales Person:</b> AARON, WESLEY			<b>Srv Supervisor:</b> PICKELL, CHRISTOPHER			<b>MBU ID Emp #:</b> 396838	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
OTERI, VAUGHN Steeves	0.0	443828	PICKELL, CHRISTOPHER Lee	0.0	396838	SMITH, AARON David	0.0	518187

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10948694	25 mile	11360865C	25 mile	11566182	25 mile	11667703C	25 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
<b>TOTAL</b>			<i>Total is the sum of each column separately</i>					

### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	1029. ft	1029. ft				
						5. ft				

### Job Times

Called Out	Date	Time	Time Zone
	19 - Sep - 2012	20:30	MST
On Location	19 - Sep - 2012	23:30	MST
Job Started	20 - Sep - 2012	02:27	MST
Job Completed	20 - Sep - 2012	03:35	MST
Departed Loc	20 - Sep - 2012	04:30	MST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole				12.25				.	1029.	.	.
Surface Casing	Mixed		8.625	8.097	24.			.	1020.	.	.

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### 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/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	

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1	Fresh Water Spacer		40.00	bbl	8.33				
2	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	315.0	sacks	13.4	1.84	9.73		9.73
9.73 Gal		FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					