

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

Olson  
Olson 3CD

Ensign/226

## **Post Job Summary** **Cement Production Casing**

Date Prepared: 10/01/2012  
Version: 1

Service Supervisor: SIPNEFSKI, ROBERT

Submitted by: MCKAY, ADAM

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

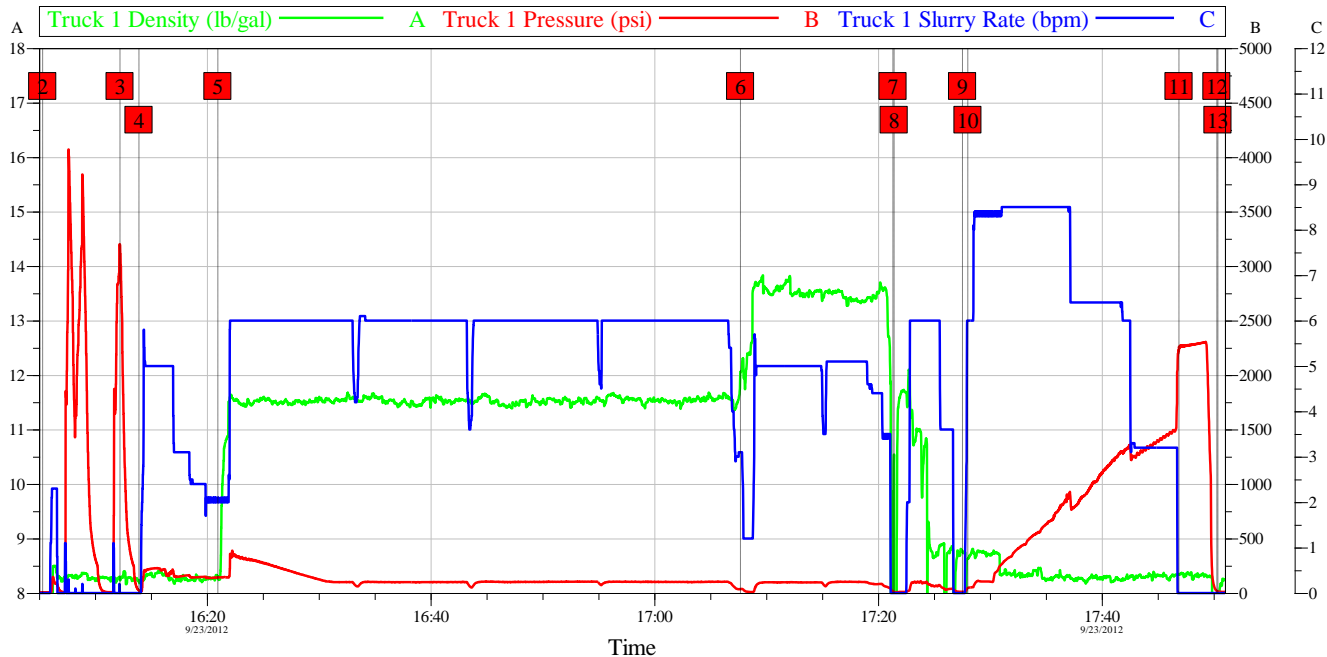
Job Tubulars					MD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft		
Casing	Production Casing	4.50	4.000	11.60	0.00	8,339.00		18.00
Open Hole Section	Open Hole		7.875		1,024.00	8,339.00		
Casing	Surface Casing	8.63	8.097	24.00	0.00	1,024.00		

## Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	MUD FLUSH III	8.40	5.00	24.0 bbl	24.0 bbl
1	2	Cement Slurry	EXTENDACEM B1	11.50	6.00	578.0 sacks	578.0 sacks
1	3	Cement Slurry	FracCem B2	13.50	5.00	175.0 sacks	175.0 sacks

## Data Acquisition

### SYNERGY RESOURCES CORP. 4.5 PRODUCTION OLSON 3CD



#### Global Event Log

Intersection	TIP	Intersection	TIP	Intersection	TIP
2 Start Job	16:05:19 7.000	3 Test Lines	16:12:14 3200	4 Pump Spacer 1	16:13:56 23.57
5 Pump Lead Cement	16:20:58 143.0	6 Pump Tail Cement	17:07:42 35.29	7 Shutdown	17:21:19 14.21
8 Clean Lines	17:21:25 9.114	9 Drop Top Plug	17:27:32 11.00	10 Pump Displacement	17:28:01 47.00
11 Bump Plug	17:46:53 2241	12 Other	17:50:16 18.30	13 End Job	17:50:22 14.61

Customer:	Job Date: 23-Sep-2012	Sales Order #: 9837001
Well Description:	UWI:	

OptiCem v6.4.10  
23-Sep-12 17:55

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
09/23/2012 13:14		Arrive at Location from Service Center						
09/23/2012 14:50		Rig-Up Equipment						PERFORMED LOCATION ASSESSMENT PRIOR TO RIG UP.
09/23/2012 15:30		Safety Meeting						HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
09/23/2012 16:05		Start Job						
09/23/2012 16:12		Test Lines					3200.0	
09/23/2012 16:13		Pump Spacer 2	5	24			198.0	PUMP 24BBL OF MUDFLUSHII MIXED WITH WATER SUPPLIED BY RIG.
09/23/2012 16:20		Pump Lead Cement	6	237			105.0	578SKS OF EXTENDACEM CMT. @ 11.5PPG MIXED WITH WATER SUPPLIED BY RIG.
09/23/2012 17:07		Pump Tail Cement	5	54			94.0	175SKS OF FRACCEM CMT. @ 13.5PPG MIXED WITH WATER SUPPLIED BY RIG.
09/23/2012 17:21		Shutdown						
09/23/2012 17:21		Clean Lines						
09/23/2012 17:27		Drop Top Plug						
09/23/2012 17:28		Pump Displacement	8	120			1382.0	PUMPED 120BBL OF CLA-WEB WATER, WATER SUPPLIED BY RIG.
09/23/2012 17:46		Bump Plug	3				2241.0	
09/23/2012 17:50		Other						CHECK FLOATS, FLOATS HELD.
09/23/2012 17:50		End Job						HELD PRE-RIG DOWN SAFETY MEETING, PREPARE FOR DEPARTURE.

# 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> 9837001
<b>Customer:</b> SYNERGY RESOURCES CORPORATION		<b>Customer Rep:</b>	
<b>Well Name:</b> Olson		<b>Well #:</b> 3CD	<b>API/UWI #:</b>
<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 Production Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Production Casing	
<b>Sales Person:</b> AARON, WESLEY		<b>Srv Supervisor:</b> SIPNEFSKI, ROBERT	<b>MBU ID Emp #:</b> 419391

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BURGESS, CODY Alan	0.0	511446	DIRKS, RICHARD E	0.0	485940	HALE, ROBERT E	0.0	470588
JEWELL, WILLIAM Uris	0.0	503358	SIPNEFSKI, ROBERT Anthony	0.0	419391			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	25 mile	10866493C	25 mile	10951208	25 mile	10977079C	25 mile
10982754C	25 mile	11341988C	25 mile	11532305	25 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

**TOTAL** Total is the sum of each column separately

### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	8339. ft				
						Wk Ht Above Floor			
					8339. ft	4. ft			
							Deparated Loc		

### Job Times

Date	Time	Time Zone
23 - Sep - 2012	09:30	MST
23 - Sep - 2012	13:14	MST
23 - Sep - 2012	16:05	MST
23 - Sep - 2012	17:50	MST
23 - Sep - 2012	19:00	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				7.875				1024.	8339.	.	.
Production Casing	Unknown		4.5	4.	11.6			.	8339.	.	.
Surface Casing	Unknown		8.625	8.097	24.			.	1024.	.	.

### 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

# HALLIBURTON

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0		
2	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)	578.0	sacks	11.5	2.3	12.93		12.93	
12.93 Gal		FRESH WATER								
3	FracCem B2	FRACCEM (TM) SYSTEM (452963)	175.0	sacks	13.5	1.74	8.29		8.29	
8.289 Gal		FRESH WATER								
Calculated Values		Pressures		Volumes						
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		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	18 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						