

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

Olson 31-3D

Ensign 226

## **Post Job Summary**

# **Cement Production Casing**

Prepared for: 09/09/2012  
Date Prepared:  
Version: 1

Service Supervisor: SIPNEFSKI, ROBERT

Submitted by: PLIENESS, RYAN

# HALLIBURTON

## Wellbore Geometry

Job Tubulars					MD		TVD		Excess	Shoe Joint Length
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	%	ft
Casing	Production Casing	4.50	4.000	11.60	0.00	7,704.00	0.00	0.00		18.00
Open Hole Section	Open Hole		7.875		1,023.00	7,719.00	0.00	0.00		
Casing	Surface Casing	8.63	8.097	24.00	0.00	1,023.00	0.00	0.00		

# HALLIBURTON

## 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	0.00	24.0 bbl	24.0 bbl
1	2	Cement Slurry	EXTENDACEM B1	11.50		535.0 sacks	535.0 sacks
1	3	Cement Slurry	FracCem B2	13.50		185.0 sacks	185.0 sacks

## Fluids Pumped

**Stage/Plug # 1 Fluid 1:** MUD FLUSH III  
MUD FLUSH III - SBM (528788)

Fluid Density: 8.40 lbm/gal  
Fluid Volume: 24.00 bbl  
Pump Rate: 0.00 bbl/min

**Stage/Plug # 1 Fluid 2:** EXTENDACEM B1  
EXTENDACEM (TM) SYSTEM

Fluid Weight: 11.50 lbm/gal  
Slurry Yield: 2.30 ft<sup>3</sup>/sack  
Total Mixing Fluid: 12.94 Gal  
Surface Volume: 535.0 sacks  
Sacks: 535.0 sacks  
Calculated Fill: 5,300.00 ft  
Calculated Top of Fluid: 1,600.00 ft  
Estimated Top of Fluid:

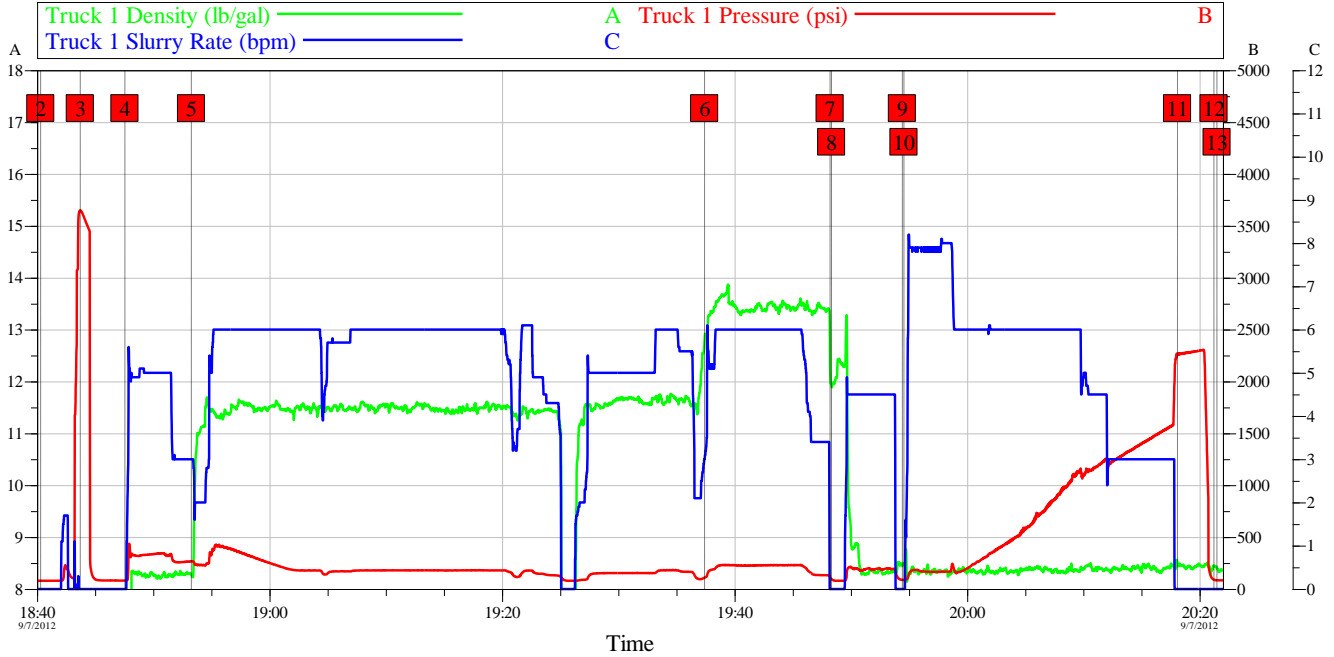
**Stage/Plug # 1 Fluid 3:** FracCem B2  
FRACCEN (TM) SYSTEM

Fluid Weight: 13.50 lbm/gal  
Slurry Yield: 1.74 ft<sup>3</sup>/sack  
Total Mixing Fluid: 8.29 Gal  
Surface Volume: 185.0 sacks  
Sacks: 185.0 sacks  
Calculated Fill: 1,000.00 ft  
Calculated Top of Fluid: 6,900.00 ft  
Estimated Top of Fluid:

# HALLIBURTON

## Data Acquisition

### SYNERGY RESOURCES 4.5 PRODUCTION OLSON 31-3D



Global Event Log					
Intersection	TIP	Intersection	TIP	Intersection	TIP
2 Start Job	18:40:19 79.00	3 Test Lines	18:43:43 3650	4 Pump Spacer 1	18:47:33 81.00
5 Pump Lead Cement	18:53:16 266.0	6 Pump Tail Cement	19:37:25 109.2	7 Shutdown	19:48:12 113.1
8 Clean Lines	19:48:20 93.55	9 Drop Top Plug	19:54:25 88.00	10 Pump Displacement	19:54:33 86.17
11 Bump Plug	20:18:05 2265	12 Other	20:21:13 89.25	13 End Job	20:21:29 84.00

Customer:	Job Date: 07-Sep-2012	Sales Order #: 9801412
Well Description:	UWI:	

OptiCem v6.4.10  
07-Sep-12 20:27

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
09/07/2012 12:28		Arrive at Location from Service Center					
09/07/2012 17:12		Rig-Up Equipment					PERFORMED LOCATION ASSESSMENT PRIOR TO RIG UP.
09/07/2012 18:15		Safety Meeting					HELD SAFETY MEETING WITH ALL 3RD PARTY PERSONNEL.
09/07/2012 18:40		Start Job					
09/07/2012 18:43		Test Lines				3650.0	
09/07/2012 18:47		Pump Spacer 1	5	24		332.0	PUMP 24BBL OF MUDFLUSHII MIXED WITH WATER SUPPLIED BY RIG.
09/07/2012 18:53		Pump Lead Cement	7	219		266.0	535SKS OF EXTENDACEM CMT. @ 11.5PPG MIXED WITH WATER SUPPLIED BY RIG.
09/07/2012 19:37		Pump Tail Cement	7	57		109.0	185SKS OF FRACCEN CMT. @ 13.5PPG MIXED WITH WATER SUPPLIED BY RIG.
09/07/2012 19:48		Shutdown					
09/07/2012 19:48		Clean Lines					
09/07/2012 19:54		Drop Top Plug					
09/07/2012 19:54		Pump Displacement	6	121		1681.0	PUMPED 121BBL OF CLA-WEB WATER, WATER SUPPLIED BY RIG.
09/07/2012 20:18		Bump Plug	3			2265.0	
09/07/2012 20:21		Other					CHECK FLOATS, FLOATS HELD.
09/07/2012 20:21		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> 2949492		<b>Quote #:</b>		<b>Sales Order #:</b> 9801412	
<b>Customer:</b> SYNERGY RESOURCES CORPORATION				<b>Customer Rep:</b> Weitzel, Charlie			
<b>Well Name:</b> Olson			<b>Well #:</b> 31-3D			<b>API/UWI #:</b> 05-123-35923-00	
<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 Production Casing							
<b>Well Type:</b> Development Well				<b>Job Type:</b> Cement Production Casing			
<b>Sales Person:</b> AARON, WESLEY			<b>Srvc 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 #
HALE, ROBERT E	0.0	470588	HINKLE, BRADLEY Dean	0.0	512123	RICHEY, JESSICA L	0.0	525703
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
10025030	28 mile	10679720C	28 mile	10857012C	28 mile	10951208	28 mile
11341988C	28 mile	11562562	28 mile				

### Job Hours

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

### Job

### Job Times

Formation Name					Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom			Called Out	07 - Sep - 2012	08:29	MST
Form Type	BHST				On Location	07 - Sep - 2012	12:28	MST
Job depth MD	7900. ft		Job Depth TVD	8025. ft	Job Started	07 - Sep - 2012	18:40	MST
Water Depth			Wk Ht Above Floor	4. ft	Job Completed	07 - Sep - 2012	20:21	MST
Perforation Depth (MD)	From	To			Departed Loc	07 - Sep - 2012	21:30	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				7.875				1023.	7719.	.	.
Production Casing	Unknown		4.5	4.	11.6			.	7704.	.	.
Surface Casing	Unknown		8.625	8.097	24.			.	1023.	.	.

### 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	Conc	Qty

# HALLIBURTON

Fluid Data										
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)	535.0	sacks	11.5	2.3	12.94		12.94	
		12.942 Gal	FRESH WATER							
3	FracCem B2	FRACCEM (TM) SYSTEM (452963)	185.0	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						