

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

SRC Pratt 13-2D

Ensign 226

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

Date Prepared: 1/9/2013  
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: KENNEDY, HERRON

**HALLIBURTON**

# HALLIBURTON

## ***Wellbore Geometry***

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Job Tubulars					MD		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	7,789.00	18.00
Open Hole Section	Open Hole		7.875		6.50	7,800.00	
Casing	Surface Casing	8.63	8.097	24.00	0.00	606.00	

# HALLIBURTON

## ***Pumping Schedule***

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Surface Volume	Downhole Volume
1	1	Spacer	MUD FLUSH III	8.40		.0
1	2	Cement Slurry	EXTENDACEM B1	11.50	475.0 sacks	475.0 sacks
1	3	Cement Slurry	FracCem B2	13.50	245.0 sacks	245.0 sacks

## ***Fluids Pumped***

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

Fluid Density:    8.40 lbm/gal

**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: 12.93 Gal  
Surface Volume:  475.0 sacks  
Sacks:            475.0 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  
FRACCCEM (TM) SYSTEM

Fluid Weight:    13.50 lbm/gal  
Slurry Yield:     1.74 ft<sup>3</sup>/sack  
Total Mixing Fluid: 8.30 Gal  
Surface Volume:  245.0 sacks  
Sacks:            245.0 sacks  
Calculated Fill:   1,000.00 ft  
Calculated Top of Fluid: 6,900.00 ft  
Estimated Top of Fluid:

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
12/03/2012 16:30		Arrive At Loc						WELL SITE ASSESMENT,HAZARD HUNT,WATER TEST,RIG UP SAFETY MEETING, WAITED FOR RIG TO FINISH RUNNING CASING
12/03/2012 19:40		Start Job						RIG DOWN SAFETY MEETING
12/03/2012 19:40		Test Lines						PRESSURE TESTED LINES TO 3500 PSI
12/03/2012 19:44		Pump Spacer 1	5	20			280.0	WATER
12/03/2012 19:48		Pump Spacer 2	5	24			316.0	MUDFLUSH
12/03/2012 19:53		Pump Spacer 1	5	20			465.0	WATER
12/03/2012 19:55		Drop Bottom Plug						PLUG WAS PRE LOADED
12/03/2012 19:57		Pump Lead Cement	8	194.5			145.0	11.5 PPG EXTENDACEM (475 SKS)
12/03/2012 20:28		Pump Tail Cement	7	75.9			181.0	13.5 PPG FRACCEM (245 SKS)
12/03/2012 20:42		Shutdown						
12/03/2012 20:42		Clean Lines						
12/03/2012 20:48		Drop Top Plug						LOADED PLUG WHILE WASHING PUMP AND LINES
12/03/2012 20:48		Pump Displacement	10.5	60			830.0	
12/03/2012 21:05		Bump Plug	3.5	120			1462.0	CALCULATED PRESSURE TO LAND WAS 1297 + 1000 OVER
12/03/2012 21:08		Check Floats						FLOATS HELD
12/03/2012 21:09		End Job						RIG DOWN SAFETY MEETING

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915		<b>Ship To #:</b> 2966097		<b>Quote #:</b>		<b>Sales Order #:</b> 900047451	
<b>Customer:</b> SYNERGY RESOURCES CORPORATION				<b>Customer Rep:</b> Montoya, Chris			
<b>Well Name:</b> SRC Pratt			<b>Well #:</b> 13-2D		<b>API/UWI #:</b>		
<b>Field:</b> Wattenberg		<b>City (SAP):</b> JOHNSTOWN		<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> VIGIL, NICHOLAS			<b>MBU ID Emp #:</b> 443481	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BAMMER, JORDAN Blaine	0.0	526575	MARKOVICH, STEVEN Michael	0.0	502964	MULLER, MICHEL B	0.0	529830
OTERI, VAUGHN Steeves	0.0	443828	VIGIL, NICHOLAS	0.0	443481			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	30 mile	10988836C	30 mile	11064535	30 mile	11398319	30 mile
11398490	30 mile	11764739	30 mile	12010168	30 mile		

## Job Hours

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

## Job

Formation Name	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
			BHST	7800. ft	7800. ft				

## Job Times

Date	Time	Time Zone
03 - Dec - 2012	11:30	MST
03 - Dec - 2012	16:30	MST
03 - Dec - 2012	19:40	MST
03 - Dec - 2012	21:09	MST
03 - Dec - 2012	22:00	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				6.5	7800.	.	.
Production Casing	Unknown		4.5	4.	11.6			.	7789.	.	.
Surface Casing	Unknown		8.625	8.097	24.			.	606.	.	.

## 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 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)				bbl	8.4	.0	.0	.0		
2	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)			475.0	sacks	11.5	2.3	12.93		12.93	
12.93 Gal		FRESH WATER										
3	FracCem B2	FRACCEM (TM) SYSTEM (452963)			245.0	sacks	13.5	1.74	8.3		8.3	
8.3 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							

