

SYNERGY RESOURCES CORPORATION  
20203 HIGHWAY 60  
PLATTEVILLE, Colorado

Margil  
Margil 22-34D

Ensign/33

## Post Job Summary

# Cement Production Casing

Date Prepared: 9/4/11  
Version: 1

Service Supervisor: HUGHES, ERVIN

Submitted by: FRY, DOMINIK

HALLIBURTON

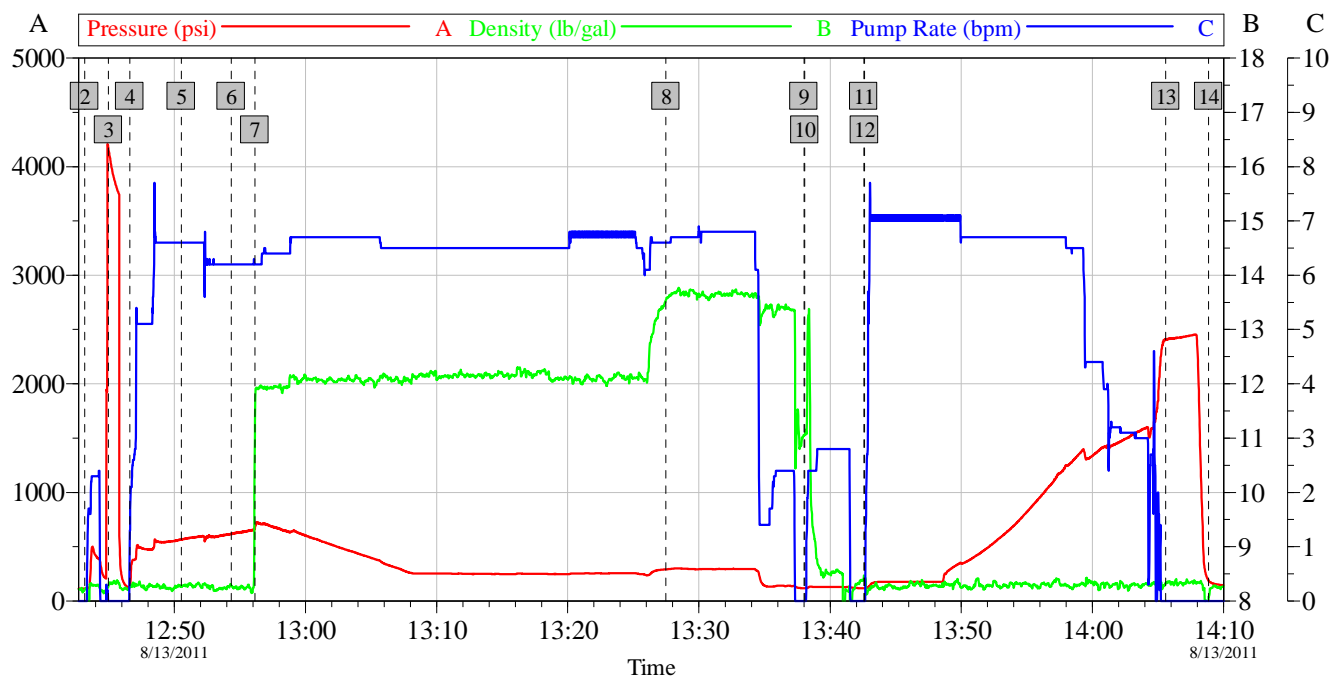
# HALLIBURTON

## ***Pumping Schedule***

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Water Spacer	8.33	5.00	20.0 bbl	20.0 bbl
1	2	Spacer	MUD FLUSH III	8.40	5.00	24.0 bbl	24.0 bbl
1	3	Spacer	Water Spacer	8.33	0.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	Fillcem 12#	12.00	5.00	600.0 sacks	600.0 sacks
1	5	Cement Slurry	13.5# Fraccem	13.50	5.00	200.0 sacks	200.0 sacks
1	6	Spacer	ClaFix III Water Displacement	8.33	7.00	125.0 bbl	125.0 bbl

# HALLIBURTON

## Data Acquisition



### Global Event Log

2 Start Job	12:43:11	3 Test Lines	12:44:59	4 Pump Spacer 1	12:46:37
5 Pump Spacer 2	12:50:33	6 Pump Spacer 1	12:54:20	7 Pump Lead Cement	12:56:09
8 Pump Tail Cement	13:27:29	9 Shutdown	13:38:00	10 Clean Lines	13:38:04
11 Drop Top Plug	13:42:34	12 Pump Displacement	13:42:37	13 Bump Plug	14:05:35
14 End Job	14:08:51				

Customer:  
Well Description:

Job Date: 13-Aug-2011  
UWI:

Sales Order #: 8389859

OptiCem v6.4.10  
06-Sep-11 09:16

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
08/13/2011 06:00		Call Out						Crew Called Out
08/13/2011 09:00		Depart from Service Center or Other Site						Depart for Location
08/13/2011 10:15		Arrive At Loc						Crew Arrived on Location
08/13/2011 11:15		Pre-Rig Up Safety Meeting						Pre Rig Up Safety Huddle
08/13/2011 11:30		Rig-Up Equipment						Spot and Rig Up Equipment
08/13/2011 12:00		Pre-Job Safety Meeting						Pre Job Safety Meeting with Rig Crew
08/13/2011 12:44		Test Lines						Test Lines to 3500 psi
08/13/2011 12:46		Pump Spacer 1	6	20			130.0	Pump Fresh Water Spacer @ 8.33 ppg
08/13/2011 12:50		Pump Spacer 2	6	24			565.0	Pump Mudflush Spacer @ 8.4 ppg
08/13/2011 12:54		Pump Spacer 1	6	10			617.0	Pump Fresh Water Spacer @ 8.33 ppg
08/13/2011 12:56		Pump Lead Cement	6	207			670.0	Pump 600 sks Fillcem Lead Cmt @ 12.0 ppg mixed with rig water
08/13/2011 13:27		Pump Tail Cement	6	60			292.0	Pump 200 sks Fracem @ 13.5 ppg mixed with rig water
08/13/2011 13:38		Clean Lines						Wash Pumps and Lines
08/13/2011 13:42		Drop Top Plug						Drop Top Plug
08/13/2011 13:42		Pump Displacement	6	125			1500.0	Pump Clayfix Water Displacement @ 8.33 ppg.
08/13/2011 14:05		Bump Plug					2500.0	Land Plug with 1000 psi over Differential - Calculated Differential Pressure of 1380 psi.
08/13/2011 14:08		Release Casing Pressure					.0	Bleed Off Casing Pressure
08/13/2011 14:10		Check Floats					.0	Check Floats
08/13/2011 14:15		Post-Job Safety Meeting (Pre Rig-Down)						Safety Meeting
08/13/2011 14:20		Rig-Down Equipment						Rig Down Equipment and Prepare to Depart Location
08/13/2011 15:00		Depart Location for Service Center or Other Site						Depart Location

# HALLIBURTON

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915		<b>Ship To #:</b> 2871683		<b>Quote #:</b>		<b>Sales Order #:</b> 8389859	
<b>Customer:</b> SYNERGY RESOURCES CORPORATION				<b>Customer Rep:</b>			
<b>Well Name:</b> Margil			<b>Well #:</b> 22-34D			<b>API/UWI #:</b> 05-123-33842	
<b>Field:</b>		<b>City (SAP):</b> MEAD		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Lat:</b> N 40.273 deg. OR N 40 deg. 16 min. 24.236 secs.				<b>Long:</b> W 104.994 deg. OR W -105 deg. 0 min. 20.736 secs.			
<b>Contractor:</b> Ensign			<b>Rig/Platform Name/Num:</b> 33				
<b>Job Purpose:</b> Cement Production Casing							
<b>Well Type:</b> Development Well			<b>Job Type:</b> Cement Production Casing				
<b>Sales Person:</b> FLING, MATTHEW			<b>Srvc Supervisor:</b> HUGHES, ERVIN			<b>MBU ID Emp #:</b> 100271	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHAVEZ, JEROME Christophe		458298	HALE, ROBERT E		470588	HUGHES, ERVIN Wayne		100271
MILLER, GEOFFREY Alan		460232						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10804557C	30 mile	10857012C	30 mile	10866497C	30 mile	10972458	30 mile
11362287C	30 mile	11605599	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					<b>Job Times</b>			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
<b>Form Type</b>	BHST				<b>On Location</b>	13 - Aug - 2011	11:00	MST
<b>Job depth MD</b>	8108. ft		<b>Job Depth TVD</b>	8108. ft	<b>Job Started</b>	13 - Aug - 2011	12:44	MST
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	3. ft	<b>Job Completed</b>	13 - Aug - 2011	14:05	MST
<b>Perforation Depth (MD)</b>	From	To			<b>Departed Loc</b>	13 - Aug - 2011	15:00	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				687.	8144.	.	.
Production Casing	New		4.5	4.	11.6			.	8108.		
Surface Casing	Used		8.625	8.097	24.		J-55	.	687.	.	.

### Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLT,4-1/2 8RD,2-3/4 SSII	1	EA		
CLR,FLT,4-1/2 8RD,9.5-13.5PPF,2-3/4	1	EA		
CENTRALIZER ASSY - API - 4-1/2 CSG X	36	EA		
CLAMP - LIMIT - 4-1/2 - HINGED -	1	EA		
Description	Qty	Qty uom	Depth	Supplier
KIT,HALL WELD-A	1	EA		
PLUG ASSY - 3W LATCHDOWN - 4-1/2 IN	1	EA		

# HALLIBURTON

BAFFLE ASSY - 4-1/2 8RD LATCHDOWN PLUG										1	EA			
<b>Tools and Accessories</b>														
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	
Guide Shoe					Packer					Top Plug				
Float Shoe					Bridge Plug					Bottom Plug				
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container				
Stage Tool										Centralizers				
<b>Miscellaneous Materials</b>														
Gelling Agt			Conc		Surfactant			Conc		Acid Type			Qty	
Treatment Fld			Conc		Inhibitor			Conc		Sand Type			Size	
<b>Fluid Data</b>														
<b>Stage/Plug #: 1</b>														
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty uom</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sk</b>	<b>Mix Fluid Gal/sk</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal/sk</b>			
1	Water Spacer				20.00	bbl	8.33	.0	.0	5.0				
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)			24.00	bbl	8.4	.0	.0	5.0				
3	Water Spacer				10.00	bbl	8.33	.0	.0	.0				
4	Fillcem 12#	EXTENDACEM (TM) SYSTEM (452981)			600.0	sacks	12.	1.94	10.42	5.0	10.42			
0.1 %		SUPER CBL, 50 LB PAIL (100003668)												
10.42 Gal		FRESH WATER												
5	13.5# Fraccem	FRACCEN (TM) SYSTEM (452963)			200.0	sacks	13.5	1.69	8.04	5.0	8.04			
8.04 Gal		FRESH WATER												
6	ClaFix III Water Displacement				125.00	bbl	8.33	.0	.0	7.0				
2.5 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)												
<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	14 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									