

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

Avex  
Avex 31-10D

Ensign/136

## **Post Job Summary**

# **Cement Surface Casing**

Date Prepared: 11/02/2012  
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: MCKAY, ADAM

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

Job Tubulars					MD		TVD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft		
Open Hole Section	Open Hole		12.250		0.00	617.00	0.00	650.00		
Casing	Surface Casing	8.63	8.097	24.00	0.00	607.00	0.00	650.00		44.00

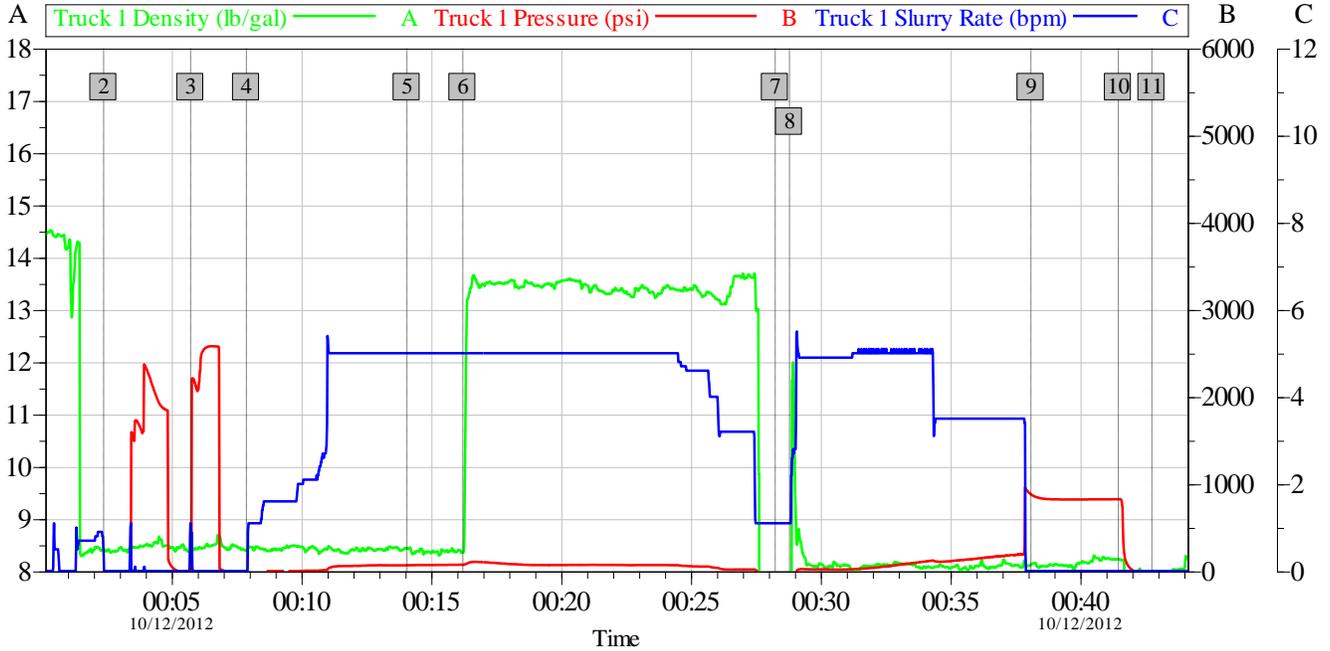
## Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	3.00	30 bbl	30 bbl
1	2	Cement Slurry	SwiftCem B2	13.40	5.00	175.0 sacks	175.0 sacks

# HALLIBURTON

## Data Acquisition

### Synergy Avex 31-10D Surface



2	Start Job	00:02:24	3	Test Lines	00:05:45	4	20 Water	00:07:53
5	10 Dye	00:14:04	6	13.4 ppg SwiftCem	00:16:13	7	Drop Top Plug	00:28:16
8	Pump Displacement	00:28:48	9	Bump Plug	00:38:06	10	Check Floats	00:41:28
11	End Job	00:42:46						

Customer:	Job Date: 11-Oct-2012	Sales Order #: 9884663
Well Description:	UWI:	

OptiCem v6.4.10  
12-Oct-12 00:49

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
10/11/2012 21:00		Arrive At Loc					WELL SITE ASSESMENT, HAZARD HUNT, WATER TEST, HAD TO RUN BACK TO YARD AND GET A NEW FLOAT COLLAR
10/12/2012 00:02		Start Job					PRE JOB SAFETY MEETING
10/12/2012 00:05		Test Lines					PRESSURE TESTED LINES TO 2000 PSI
10/12/2012 00:07		Pump Spacer 1	5				RIG WATER
10/12/2012 00:14		Pump Spacer 2	5				DYE WATER
10/12/2012 00:16		Pump Cement	5				13.4 PPG SWIFTCEM (175 SKS)
10/12/2012 00:28		Drop Top Plug					PLUG WAS PRE LOADED
10/12/2012 00:28		Pump Displacement	5				DISPLACED USING RIG WATER
10/12/2012 00:38		Bump Plug	3.4				CALCULATED PRESSURE TO LAND WAS 148 PSI + 500 OVER 5 BBL CEMENT TO SURFACE
10/12/2012 00:41		Check Floats					FLOATS HELD
10/12/2012 00:42		End Job					RIG DOWN SAFETY MEETING

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915	<b>Ship To #:</b> 2956332	<b>Quote #:</b>	<b>Sales Order #:</b> 9884663
<b>Customer:</b> SYNERGY RESOURCES CORPORATION		<b>Customer Rep:</b> Weitzel, Charlie	
<b>Well Name:</b> Avex		<b>Well #:</b> 31-10D	<b>API/UWI #:</b> 05-123-34995-00
<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> 136	
<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>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 #
BURGESS, CODY Alan	0.0	511446	MILLER, GEOFFREY Alan	0.0	460232	VIGIL, NICHOLAS Joseph	0.0	443481

### Equipment

HES Unit #	Distance-1 way						
10829456	25 mile	11036301	25 mile	11398490	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

### Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	11 - Oct - 2012	18:00	MST
Form Type	BHST		On Location	11 - Oct - 2012	21:00	MST
Job depth MD	650. ft	Job Depth TVD	Job Started	12 - Oct - 2012	00:02	MST

# HALLIBURTON

Water Depth		Wk Ht Above Floor		Job Completed	12 - Oct - 2012	00:42	MST
Perforation Depth (MD)	From	To		Departed Loc	12 - Oct - 2012	02:00	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				12.25				.	617.	.	650.
Surface Casing	Mixed		8.625	8.097	24.			.	607.	.	650.

### 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	Fresh Water Spacer			bbl	8.33	.0	.0	.0	
2	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	175.0	sacks	13.4	1.84	9.73		9.73
		9.73 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	44 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	<b>Customer Representative Signature</b>
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