

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

Avex  
Avex 32-10D

Ensign/136

## **Post Job Summary** **Cement Surface Casing**

Date Prepared: 10/16/2012  
Version: 1

Service Supervisor: PICKELL, CHRISTOPHER

Submitted by: MCKAY, ADAM

**HALLIBURTON**

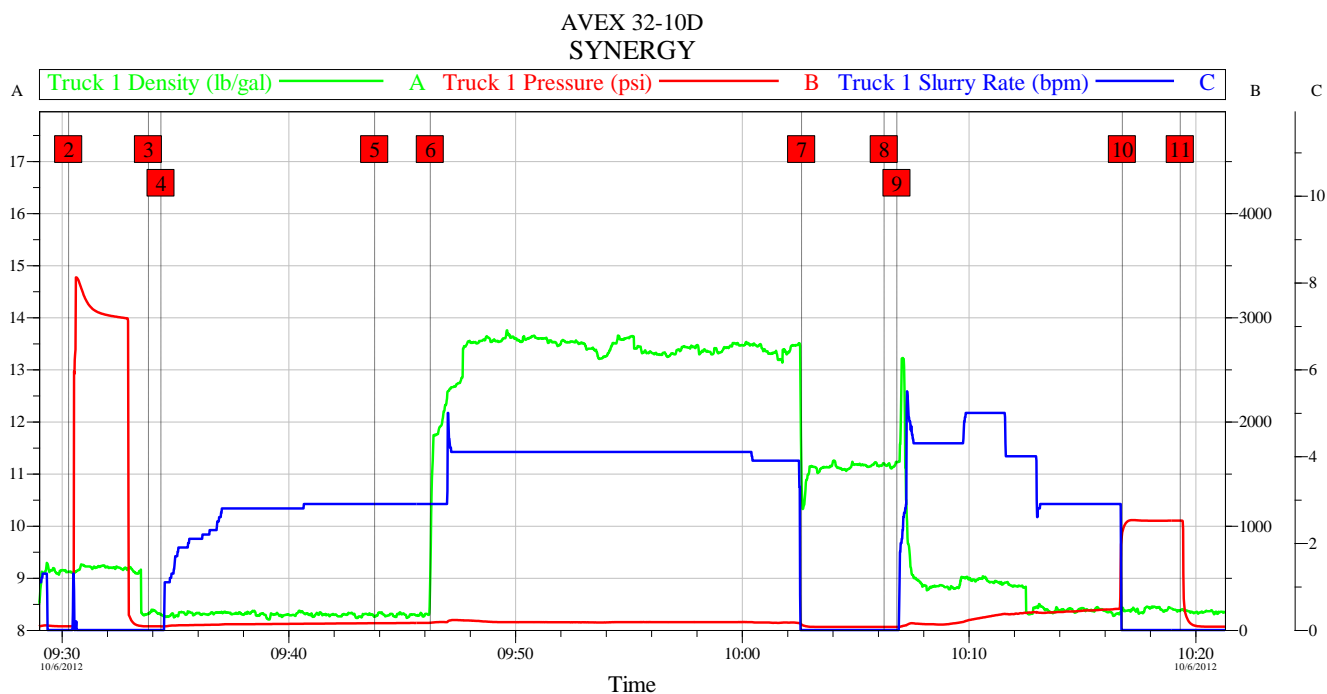
## ***Wellbore Geometry***

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			
Casing	Surface Casing	8.63	8.097	24.00	0.00	607.00	0.00			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	30.0 bbl	30.0 bbl
1	2	Cement Slurry	SWIFTCEM B2	13.40	4.00	175.0 sacks	175.0 sacks

## Data Acquisition



Global Event Log							
Intersection		T1P	Intersection		T1P	Intersection	T1P
2 Test Lines	09:30:18	36.00	3 Start Job	09:33:49	35.00	4 Pump Water	09:34:23 34.09
5 Pump Water W/Dye	09:43:48	65.00	6 Pump Swiftcem 13.4#	09:46:15	69.00	7 Shutdown	10:02:38 51.92
8 Drop Top Plug	10:06:16	29.00	9 Pump Displacement	10:06:50	29.00	10 Bump Plug	10:16:47 940.5
11 Check Floats	10:19:20	1050					

Customer: SYNERGY	Job Date: 06-Oct-2012	Sales Order #: 9872680
Well Description: AVEX 32-10D	UWI: 05-123-34999	
SERVICE SUPERVISOR CHRISTOPHER PICKELL	SERVICE OPERATOR JEROME CHAVEZ	

OptiCem v6.4.10  
06-Oct-12 10:45

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
10/06/2012 09:30		Start Job					
10/06/2012 09:30		Test Lines	1	1		3000.0	PRESSURE TEST LINES TO 3000 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
10/06/2012 09:34		Pump Spacer 1	3	20		70.0	PUMP RIG WATER
10/06/2012 09:43		Pump Spacer 2	3	10		70.0	PUMP RIG WATER WITH RED DYE
10/06/2012 09:46		Pump Cement	4	57.4		80.0	PUMP SWIFCEM CEMENT 175 SKS 13.4 PPG 1.84 CUFT/SK 9.73 GAL/SK MIXED WITH RIG WATER
10/06/2012 10:02		Shutdown					WASH LINES ON TOP OF THE PLUG
10/06/2012 10:06		Drop Top Plug					PLUG PRELOADED. WITNESSED BY COMPANY MAN
10/06/2012 10:06		Pump Displacement	5	36.5		150.0	PUMP DISPLACEMENT USING RIG WATER. CALCULATED DISPLACEMENT WAS 35.9. PLUG BUMPED WITH 36.5 AWAY
10/06/2012 10:16		Bump Plug	3			200.0	CALCULATED PRESSURE TO LAND WAS 147. PLUG LANDED AT 203 PSI AND KICKED OUT AT 1000 PSI
10/06/2012 10:19		Check Floats					PRESSURE WAS HELD FOR 2 MINUTES THEN RELEASED. FLOATS HELD. .5 BBL BACK TO OUR TANKS
10/06/2012 10:25		End Job					14.5 BBL OF CEMENT TO SURFACE

# HALLIBURTON

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915	<b>Ship To #:</b> 2955013	<b>Quote #:</b>	<b>Sales Order #:</b> 9872680
<b>Customer:</b> SYNERGY RESOURCES CORPORATION		<b>Customer Rep:</b> Weitzel, Craig	
<b>Well Name:</b> Avex		<b>Well #:</b> 32-10D	<b>API/UWI #:</b> 05-123-34999-00
<b>Field:</b> Wattenberg	<b>City (SAP):</b> JOHNSTOWN	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Legal Description:</b> Section SWNE10 Township 4N Range 68W			
<b>Lat:</b> N 40.331 deg. OR N 40 deg. 19 min. 52.831 secs.		<b>Long:</b> W 104.985 deg. OR W -105 deg. 0 min. 53.86 secs.	
<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> PICKELL, CHRISTOPHER	<b>MBU ID Emp #:</b> 396838

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHAVEZ, JEROME Christophe	0.0	458298	EDWARDS, MICHEAL H	0.0	522592	PICKELL, CHRISTOPHER Lee	0.0	396838

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	30 mile	10866497C	30 mile	10948694	30 mile	11667703C	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	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	06 - Oct - 2012	08:00	MST
Form Type	BHST		Job Started	06 - Oct - 2012	09:30	MST
Job depth MD	617. ft	Job Depth TVD	617. ft	Job Completed	06 - Oct - 2012	10:25
Water Depth		Wk Ht Above Floor	3. ft	Departed Loc	06 - Oct - 2012	11:30
Perforation Depth (MD)	From	To				

### 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.	.	
Surface Casing	Mixed		8.625	8.097	24.			.	607.	.	

### 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

# HALLIBURTON

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		30.00	bbl	8.33				
2	SWIFTCEM B2	SWIFTCEM (TM) SYSTEM (452990)	175.0	sacks	13.4	1.84	9.73		9.73
9.73 Gal		FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>					
<i>Displacement</i>		Shut In: Instant		Lost Returns		<i>Cement Slurry</i>		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
<b>Rates</b>									
<i>Circulating</i>		<i>Mixing</i>		<i>Displacement</i>		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				Customer Representative Signature					