

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

Avex  
Avex 41-10D

Ensign/136

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

Date Prepared: 10/01/2012  
Version: 1

Service Supervisor: CLEMONS, WILLIAM

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	650.00	0.00	650.00		
Casing	Surface Casing	8.63	8.097	24.00	0.00	650.00	0.00	650.00		

## ***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	6.00	10.0 bbl	10.0 bbl
1	2	Cement Slurry	SWIFTCEM B2	13.40	5.00	175.0 sacks	175.0 sacks

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
09/23/2012 02:05		Test Lines						PSI TESTED LINES TO 2000 PSI NO VISIBLE LEAKS
09/23/2012 02:06		Pump Spacer 1	2	40			20.0	RIG WATER
09/23/2012 02:19		Pump Spacer 2	6	10			110.0	RIG WATER WITH 2 BOTTLES OF DYE MIXED
09/23/2012 02:22		Pump Cement	5	57			113.0	175 SKS SWIFTCM B2 MIXED @ 13.4 # WITH RIG WATER
09/23/2012 02:34		Shutdown						SHUTDOWN WITH 57 BBLS OF CEMENT PUMPED
09/23/2012 02:35		Drop Top Plug						PLUG PRE LOADED WITNESSED BY COMPANY REP
09/23/2012 02:37		Pump Displacement	4	38.5			45.0	STARTED H2O DISPLACEMENT
09/23/2012 02:51		Bump Plug					200.0	BUMPED PLUG WITH 38.5 BBLS PUMPED & BROUGHT PSI TO 900 PER CoMan
09/23/2012 02:53		Check Floats					.0	FLOATS HELD WITH 1/2 BBL BACK TO TRUCK
09/23/2012 02:54		End Job						SUCCEFULLY PUMPED SURFACE WITH 5 BBLS BACK TO SURFACE, PLUG BUMPED, AND FLOATS HELD WITH 1/2 BBL BACK TO TRUCK. COMPANY MAN REQUESTED THAT WE TAKE 4 OF THE 8 CENTRALIZERS BACK AND THAT THE BE TAKEN OFF THE TICKET.

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 359915		<b>Ship To #:</b> 2953220		<b>Quote #:</b>		<b>Sales Order #:</b> 9836668	
<b>Customer:</b> SYNERGY RESOURCES CORPORATION				<b>Customer Rep:</b> Weitzel, Craig			
<b>Well Name:</b> Avex			<b>Well #:</b> 41-10D			<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> 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> CLEMONS, WILLIAM			<b>MBU ID Emp #:</b> 407973	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOURGEOIS, KEVIN Paul	0.0	459092	BROOM, KENDALL L	0.0	524682	CLEMONS, WILLIAM Edward	0.0	407973
NIELSON, BRANDON K	0.0	479703						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	30 mile	10824253C	30 mile	10951212	30 mile	11142999	30 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					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	22 - Sep - 2012	21:30 MST
Form Type		BHST			On Location	22 - Sep - 2012	23:30 MST
Job depth MD	653. ft	Job Depth TVD	653. ft		Job Started	23 - Sep - 2012	02:02 MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	23 - Sep - 2012	02:53 MST
Perforation Depth (MD)	From		To		Departed Loc	23 - Sep - 2012	04:00 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				.	650.	.	650.
Surface Casing	Mixed		8.625	8.097	24.			.	650.	.	650.

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

Description	Qty	Qty uom	Depth	Supplier
SHOE,GID,8-5/8 8RD	1	EA		
CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	4	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT,HALL WELD-A	1	EA		

## 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						
<b>Miscellaneous Materials</b>																
Gelling Agt			Conc		Surfactant			Conc		Acid Type		Qty	Conc %			
Treatment Fld			Conc		Inhibitor			Conc		Sand Type		Size	Qty			
<b>Fluid Data</b>																
<b>Stage/Plug #: 1</b>																
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk					
1	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	.0						
2	SWIFCEM B2	SWIFCEM (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>								
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	0 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											