

# HALLIBURTON

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 344659		<b>Ship To #:</b> 2875796		<b>Quote #:</b>		<b>Sales Order #:</b> 8464065	
<b>Customer:</b> CHESAPEAKE OPERATING INC EBUSINESS				<b>Customer Rep:</b> EVANS, JAMES			
<b>Well Name:</b> Hediger			<b>Well #:</b> 24-9-67			<b>API/UWI #:</b> 05-123-34095	
<b>Field:</b>		<b>City (SAP):</b> GREELEY		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Lat:</b> N 40.727 deg. OR N 40 deg. 43 min. 35.648 secs.				<b>Long:</b> W 104.847 deg. OR W -105 deg. 9 min. 12.06 secs.			
<b>Contractor:</b> CYCLONE			<b>Rig/Platform Name/Num:</b> Cyclone26				
<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> LAVALLEY, LARRY			<b>MBU ID Emp #:</b> 419296	

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L		485204	BARRAS, JOSEPH Corey		405168	BOURGEOIS, KEVIN Paul		459092
BRICKER, DANIEL Z		475710	DIRKS, RICHARD E		485940	FLYNN, SHAD Michael		476484
IOERGER, TODD A		485941	KENNEDY, HERRON		498356	LAVALLEY, LARRY P		419296
MEADOWS, DANIEL Graham		500668	OZBUN, RYAN Jacob		475709	PAUMEN, CORD Anthony		453759
SANSONI, NICK		502962	TAYLOR, JOSHUA Lin		485939			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	59 mile	10804557C	59 mile	10822531C	59 mile	10824253C	59 mile
10857080C	59 mile	10866497C	59 mile	10977079C	59 mile	10988836C	59 mile
11338223	59 mile	11360865C	59 mile	11398319	59 mile	11488570C	59 mile
11518549	59 mile	11527037	59 mile	11532299	59 mile	11532305	59 mile
11611898C	59 mile	6444C	59 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

### Job Times

Formation Name						Date	Time	Time Zone	
Formation Depth (MD)	Top			Bottom		Called Out	15 - Sep - 2011	06:00	MST
Form Type			BHST			On Location	15 - Sep - 2011	10:00	MST
Job depth MD	11485. ft		Job Depth TVD		11485. ft	Job Started	15 - Sep - 2011	11:30	MST
Water Depth			Wk Ht Above Floor		6. ft	Job Completed	15 - Sep - 2011	14:30	MST
Perforation Depth (MD)	From			To		Departed Loc	15 - Sep - 2011	15:15	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
7 7/8" Open Hole				7.875				8000.	11485.	.	.
8 3/4" Open Hole				8.75				.	8000.	.	.
4 1/2" Production Casing	New		4.5	4.	11.6		P-110	8000.	11500.	.	.

# HALLIBURTON

Description	New / Used	Max pressure	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
5 1/2" Production Casing	New		5.5	4.892	17.		P-110	.	6688.	.	
9 5/8" Surface Casing	New		9.625	8.835	40.		J-55	.	1300.		

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

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,5-1/2 X 4-1/2 HWE,3.65MIN	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			

## 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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water		40.00	bbl	.	.0	42.0	5.0	
2	Varicem 12#	VARICEM (TM) CEMENT (452009)	613.0	sacks	12.	2.2	12.27	5.0	12.27
	12.27 Gal	FRESH WATER							
3	Econocem B2 14.6#	EXPANDACEM (TM) SYSTEM (452979)	1005.0	sacks	14.6	1.46	6.1	5.0	6.1
	6.1 Gal	FRESH WATER							
4	Water Displacement		228.00	bbl	8.33			8.0	

### 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	84 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
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