

# 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> 8464071
<b>Customer:</b> CHESAPEAKE OPERATING INC EBUSINESS		<b>Customer Rep:</b>	
<b>Well Name:</b> Eichheim		<b>Well #:</b> 18-9-66 1H	<b>API/UWI #:</b> 05-123-34080
<b>Field:</b>	<b>City (SAP):</b> GREELEY	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Lat:</b> N 40.741 deg. OR N 40 deg. 44 min. 26.182 secs.		<b>Long:</b> E 104.813 deg. OR E 104 deg. 48 min. 45.274 secs.	
<b>Contractor:</b> CYCLONE		<b>Rig/Platform Name/Num:</b> Cyclone 26	
<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 #
BARNES, BRIAN L		485204	BOURGEOIS, KEVIN Paul		459092	BRICKER, DANIEL Z		475710
HOLLOWAY, DUSTIN Craig		504032	HUGHES, ERVIN Wayne		100271	MILLER, GEOFFREY Alan		460232
RAMOS, REFUGIO Castro		435413	SINCLAIR, RICHARD		368195	STOEBER, KEITH A		486734

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025042	55 mile	10824253C	55 mile	10829457	55 mile	10866493C	55 mile
10982754C	55 mile	11488570C	55 mile	11526488	55 mile	11562544C	55 mile
11566182	55 mile	11605599	55 mile	11611896C	55 mile	11645065	55 mile
5707C	55 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								
Formation Depth (MD)	Top		Bottom		Called Out	Date	Time	Time Zone
Form Type		BHST			On Location	16 - Sep - 2011	15:00	MST
Job depth MD	11517. ft	Job Depth TVD	11517. ft		Job Started	16 - Sep - 2011	18:05	MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	16 - Sep - 2011	21:00	MST
Perforation Depth (MD)	From		To		Departed Loc	16 - Sep - 2011	22:30	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.	11525.	.	.
8 3/4" Open Hole				8.75				.	8000.	.	.
4 1/2" Production Casing	New		4.5	4.	11.6		P-110	6812.	11517.	.	.
5 1/2" Production Casing	New		5.5	4.892	17.		P-110	.	6812.	.	.

# 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
9 5/8" Surface Casing	New		9.625	8.835	40.		J-55	.	1250.		

## 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		20.00	bbl	8.33	.0	.0	6.0	
2	Varicem 12#	VARICEM (TM) CEMENT (452009)	531.0	sacks	12.	2.2	12.27	5.0	12.27
	12.27 Gal	FRESH WATER							
3	Econocem B2 14.6#	EXPANDACEM (TM) SYSTEM (452979)	1127.0	sacks	14.6	1.46	6.1	5.0	6.1
	6.1 Gal	FRESH WATER							
4	Water Displacement		230.00	bbl	8.33			6.0	

### 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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