

# HALLIBURTON

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 344659		<b>Ship To #:</b> 2879325		<b>Quote #:</b>		<b>Sales Order #:</b> 8497876	
<b>Customer:</b> CHESAPEAKE OPERATING INC EBUSINESS				<b>Customer Rep:</b>			
<b>Well Name:</b> Lindstrom			<b>Well #:</b> 24-8-67 1H			<b>API/UWI #:</b> 05-123-34284	
<b>Field:</b>		<b>City (SAP):</b> NUNN		<b>County/Parish:</b> Weld		<b>State:</b> Colorado	
<b>Lat:</b> N 40.654 deg. OR N 40 deg. 39 min. 12.902 secs.				<b>Long:</b> W 104.842 deg. OR W -105 deg. 9 min. 27.698 secs.			
<b>Contractor:</b> CYCLONE			<b>Rig/Platform Name/Num:</b> Cyclone 11				
<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 #
BARRAS, JOSEPH Corey		405168	BOURGEOIS, KEVIN Paul		459092	BRICKER, DANIEL Z		475710
HUGHES, ERVIN Wayne		100271	MARKOVICH, STEVEN Michael		502964	MEADOWS, DANIEL Graham		500668
MILLER, GEOFFREY Alan		460232	PAUMEN, CORD Anthony		453759	VIGIL, NICHOLAS		443481

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025064	50 mile	10241536C	50 mile	10679720C	50 mile	10824253C	50 mile
10866493C	50 mile	10988836C	50 mile	11019275C	50 mile	11338223	50 mile
11398319	50 mile	11515108C	50 mile	11532299	50 mile	11532305	50 mile
11542778	50 mile	11605599	50 mile	11611900C	50 mile	11630991C	50 mile
11633846	50 mile	11633848	50 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

Formation Name					Job Times			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type		BHST			On Location	04 - Oct - 2011	16:00	MST
Job depth MD	11353. ft	Job Depth TVD	11353. ft		Job Started	04 - Oct - 2011	20:00	MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	05 - Oct - 2011	00:10	MST
Perforation Depth (MD)	From	To			Deparated Loc	05 - Oct - 2011	03:00	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
7 7/8" Open Hole				7.875				7655.	11350.	.	.
8 3/4" Open Hole				8.75				1640.	7655.	.	.
4 1/2" Production Casing	New		4.5	4.	11.6		P-110	6619.	11353.	.	.
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	.	6619.	.	.

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9 5/8" Surface Casing	New		9.625	8.835	40.		J-55	.	1640.				
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>													
<b>Description</b>							<b>Qty</b>	<b>Qty uom</b>	<b>Depth</b>	<b>Supplier</b>			
PLUG,CMTG,TOP,5-1/2 X 4-1/2 HWE,3.65MIN							1	EA					
<b>Tools and Accessories</b>													
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>
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>													
<b>Gelling Agt</b>			<b>Conc</b>		<b>Surfactant</b>			<b>Conc</b>		<b>Acid Type</b>		<b>Qty</b>	
<b>Treatment Fld</b>			<b>Conc</b>		<b>Inhibitor</b>			<b>Conc</b>		<b>Sand Type</b>		<b>Size</b>	<b>Qty</b>
<b>Fluid Data</b>													
<b>Stage/Plug #: 1</b>													
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>				<b>Qty</b>	<b>Qty uom</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sk</b>	<b>Mix Fluid Gal/sk</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal/sk</b>	
1	Water					20.00	bbl	.	.0	.0	.0		
2	Varicem 12#	VARICEM (TM) CEMENT (452009)				540.0	sacks	12.	2.2	12.27	5.0	12.27	
	12.27 Gal	FRESH WATER											
3	Econocem B2 14.6#	EXPANDACEM (TM) SYSTEM (452979)				1160.0	sacks	14.6	1.46	6.1	5.0	6.1	
	6.1 Gal	FRESH WATER											
4	Water Displacement					225.00	bbl	8.33			.0		
<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	85 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							