

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 344659		Ship To #: 2871267		Quote #:		Sales Order #: 8414735	
Customer: CHESAPEAKE OPERATING INC EBUSINESS				Customer Rep: Coen, Craig			
Well Name: Loveland			Well #: 12-9-67-1H			API/UWI #: 05-123-34046	
Field:		City (SAP): GREELEY		County/Parish: Weld		State: Colorado	
Lat: N 40.755 deg. OR N 40 deg. 45 min. 18.709 secs.				Long: W 104.842 deg. OR W -105 deg. 9 min. 29.743 secs.			
Contractor: CYCLONE			Rig/Platform Name/Num: Cyclone 26				
Job Purpose: Cement Production Casing							
Well Type: Development Well			Job Type: Cement Production Casing				
Sales Person: FLING, MATTHEW			Srvc Supervisor: HUGHES, ERVIN			MBU ID Emp #: 100271	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE		372277	BARRAS, JOSEPH Corey		405168	BOURGEOIS, KEVIN Paul		459092
CHAVEZ, JEROME Christophe		458298	CONGDON, RICHARD S.		320306	DILLON, ALAN Davis		484871
DIRKS, RICHARD E		485940	HUGHES, ERVIN Wayne		100271	JEWELL, WILLIAM Uris		503358
MAHONEY, KELLAN Carl		476531	MILLER, GEOFFREY Alan		460232	OTERI, VAUGHN Steeves		443828
SINCLAIR, RICHARD		368195	THOMPSON, STEVEN Darrin		445340	VIGIL, NICHOLAS		443481

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	55 mile	10824253C	55 mile	10829457	55 mile	10857080C	55 mile
10866493C	55 mile	10982754C	55 mile	11019824C	55 mile	11360865C	55 mile
11362287C	55 mile	11398319	55 mile	11526488	55 mile	11532299	55 mile
11605599	55 mile	11606995	55 mile	11611898C	55 mile	11633848	55 mile
11645063	55 mile	11645065	55 mile	6522C	55 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	29 - Aug - 2011	12:00 MST
Form Type		BHST	177 degF		On Location	29 - Aug - 2011	16:00 MST
Job depth MD	11750. ft	Job Depth TVD	7636. ft		Job Started	29 - Aug - 2011	19:45 MST
Water Depth		Wk Ht Above Floor	4. ft		Job Completed	29 - Aug - 2011	22:15 MST
Perforation Depth (MD)	From	To			Departed Loc	29 - Aug - 2011	23:30 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				7955.	11755.	7462.	7636.
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
8 3/4" Open Hole				8.75				1250.	7955.	1250.	7462.

HALLIBURTON

4 1/2" Production Casing	New		4.5	4.	11.6		P-110	6914.	11750.	6914.	7636.
5 1/2" Production Casing	New		5.5	4.67	23.		P-110	.	6914.	.	6914.
9 5/8" Surface Casing	Used		9.625	8.835	40.		J-55	.	1250.		

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	.0	
2	Varicem 12#	VARICEM (TM) CEMENT (452009)	540.0	sacks	12.	2.19	12.24		12.24
	12.24 Gal	FRESH WATER							
3	ExpandaCem B2 14.6#	EXPANDACEM (TM) SYSTEM (452979)	1160.0	sacks	14.6	1.46	6.1		6.1
	6.1 Gal	FRESH WATER							
4	Water Displacement		234.00	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	90 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