

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #:	Ship To #:	Quote #:	Sales Order #: 9161775
Customer: CHESAPEAKE OPERATING INC EBUSINESS		Customer Rep:	
Well Name: Brent		Well #: 20-8-66 1H	API/UWI #: 05-123-64670
Field:	City (SAP):	County/Parish: Weld	State: Colorado
Contractor: SST		Rig/Platform Name/Num: 53	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: WHEELER, JUSTIN	MBU ID Emp #: 196470

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L		485204	CARPENTER, JACOB Paul		499500	DIRKS, RICHARD E		485940
IPSON, TIMOTHY J		485018	KUNERT, RANDY Joe		477850	LYNCH, JACK William		483039
MARKOVICH, STEVEN Michael		502964	PAUMEN, CORD Anthony		453759	RAMOS, REFUGIO Castro		435413
WHEELER, JUSTIN W		196470						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	50 mile	10679720C	50 mile	10754575C	50 mile	10822531C	50 mile
11036301	50 mile	11341988C	50 mile	11532299	50 mile	11532305	50 mile
11542778	50 mile	11562570C	50 mile	11566182	50 mile	11605599	50 mile
11608503C	50 mile	11633846C	50 mile	6522C	50 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Job				Job Times			
Formation Depth (MD)	Top	Bottom	Form Type	BHST	Called Out	Date	Time	Time Zone
Job depth MD	11250. ft	Job Depth TVD	11250. ft		On Location	28 - Dec - 2011	10:30	MST
Water Depth		Wk Ht Above Floor			Job Started	28 - Dec - 2011	12:12	MST
Perforation Depth (MD)	From	To			Job Completed	28 - Dec - 2011	14:39	MST
					Departed Loc	28 - Dec - 2011	16:00	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				7.875				6385.	11250.	.	.
Open Hole				8.75				.	6385.	.	.
Production Casing	New		4.5	4.	11.6		P-110	6385.	11250.	.	.
Production Casing	Unknown		5.5	4.892	17.		P-110	.	6385.	.	.
Surface Casing	New		9.625	8.835	40.		J-55	.	906.		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			

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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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk			
1	Water		40.00	bbl	8.33	.0	.0	.0				
2	Varicem 12.0#	VARICEM (TM) CEMENT (452009)	460.0	sacks	12.	2.2	12.27	5.0	12.27			
		12.27 Gal FRESH WATER										
3	EXPANDACEM B2	EXPANDACEM (TM) SYSTEM (452979)	1325.0	sacks	14.6	1.46	6.1	5.0	6.1			
		6.1 Gal FRESH WATER										

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	
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Cement Left In Pipe	Amount	91 ft	Reason	Shoe Joint
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Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID
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The Information Stated Herein Is Correct	Customer Representative Signature
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