

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 352220	Ship To #: 2883639	Quote #:	Sales Order #: 8534582
Customer: COMET RIDGE USA INC		Customer Rep: Roe, Duane	
Well Name: King	Well #: 12-28	API/UWI #: 05-043-06211	
Field: VERMEJO RANCH	City (SAP): FLORENCE	County/Parish: Fremont	State: Colorado
Contractor: ?		Rig/Platform Name/Num: ?	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srv 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	2.5	485204	DIRKS, RICHARD E	2.5	485940	KUNERT, RANDY Joe	2.5	477850
WHEELER, JUSTIN W	2.5	196470						

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10948694	142 mile	11019824	142 mile	11064535	142 mile	11542778	142 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-9-11	2.5	2						
TOTAL			Total is the sum of each column separately					

### Job

Formation Name	Formation Depth (MD) Top	Bottom	Job Times	Date	Time	Time Zone
Form Type		BHST	Called Out	09 - Oct - 2011	08:00	MST
Job depth MD	560. ft	Job Depth TVD	On Location	09 - Oct - 2011	15:00	MST
Water Depth		Wk Ht Above Floor	Job Started	09 - Oct - 2011	15:39	MST
Perforation Depth (MD) From		To	Job Completed	09 - Oct - 2011	16:54	MST
			Departed Loc	09 - Oct - 2011	17:30	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
Open Hole				12.25					560.		
Surface Casing	Unknown		8.625	8.097	24.		J-55		560.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	8 5/8"	1	HWE
Float Shoe	8 5/8"	1		663.94'	Bridge Plug					Bottom Plug			
Float Collar	8 5/8"	1			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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk

Stage/Plug #: 1

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Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer		5.00	bbl	8.34	.0	.0	4.0		
2	Trinidad Surface Blend 12#	TRINIDAD SURFACE BLEND - SBM (137081)	180.0	sacks	12.	2.62	14.52	5.0	14.52	
		0.125 lbm	POLY-E-FLAKE (101216940)							
		5 lbm	KOL-SEAL, 50 LB BAG (100064232)							
		14.52 Gal	FRESH WATER							
3	Trinidad Surface Blend 14#	TRINIDAD SURFACE BLEND - SBM (137081)	60.0	sacks	14.	1.67	7.93		7.93	
		0.125 lbm	POLY-E-FLAKE (101216940)							
		5 lbm	KOL-SEAL, 50 LB BAG (100064232)							
		7.93 Gal	FRESH WATER							
<b>Calculated Values</b>		<b>Pressures</b>		<b>Volumes</b>						
Displacement	39.8	Shut In: Instant	150	Lost Returns	No	Cement Slurry	101.8	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	39 bbls	Actual Displacement	39.8	Treatment		
Frac Gradient		15 Min		Spacers	5 bbls	Load and Breakdown		Total Job		
<b>Rates</b>										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	0 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 <i>Quane Rez</i> 10/9/11						

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Well Name: King			Well #: 12-28		API/UWI #: 05-043-06211		
Field: VERMEJO RANCH		City (SAP): FLORENCE		County/Parish: Fremont		State: Colorado	
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: ?			Rig/Platform Name/Num: ?				
Job Purpose: Cement Surface Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Surface Casing				
Sales Person: FLING, MATTHEW			Srcv Supervisor: WHEELER, JUSTIN			MBU ID Emp #: 196470	

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart from Service Center or Other Site	10/09/2011 12:00							
Arrive At Loc	10/09/2011 15:00							
Safety Meeting - Pre Rig-Up	10/09/2011 15:10							
Test Lines	10/09/2011 15:40							
Pump Spacer	10/09/2011 15:43		1	5			.0	Pump Fresh Water
Pump Lead Cement	10/09/2011 15:52		6	84			20.0	Mix and Pump 180 sks Cement @ 12 lb/gal
Pump Tail Cement	10/09/2011 16:20		4	17.8			35.0	Mix and Pump 60 sks Tail Cement @ 14 lb/gal
Clean Lines	10/09/2011 16:29			10				Wash Pumps and Lines to Pit
Drop Top Plug	10/09/2011 16:32							Shut-Down, Drop top Plug
Pump Displacement - Start	10/09/2011 16:36		4	0			10.0	Pump Fresh Water Displacement
Cement Returns to Surface	10/09/2011 16:36							39 bbls Cement To Surface
Pump Displacement - End	10/09/2011 16:48		2	39.8			150.0	Good Returns Throughout Job
Bump Plug	10/09/2011 16:48		2	39.8			755.0	
Check Floats	10/09/2011 16:53							Floats Holding
Safety Meeting - Pre Rig-Down	10/09/2011 17:15							
Safety Meeting - Departing Location	10/09/2011 17:30							