

**COMET RIDGE USA INC
600,17TH ST STE 600 S
DENVER, Colorado**

Vortex
Vortex 12-53-3-1

MAJORS/MAJORS/39

Post Job Summary **Cement Surface Casing**

Prepared for:
Date Prepared:
Version: 1

Service Supervisor: FANTASIA, JOSEPH

Submitted by:

HALLIBURTON

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Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Open Hole Section	Open Hole		12.250		0.00	2,250.00
Casing	Surface Casing	8.63	7.921	32.00	0.00	2,250.00

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Clean Spacer III	9.50	5.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	Tuned Light	10.00	5.00	410.0 sacks	410.0 sacks
1	3	Cement Slurry	ExtendaCem B1	12.50		165.0 sacks	165.0 sacks
1	4	Spacer	Displacement Fluid	8.33	5.00		165.0 sacks
1	5	Cement Slurry	HalCem	15.80	5.00		165.0 sacks

Fluids Pumped

Stage/Plug # 1 Fluid 1: Clean Spacer III
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 9.50 lbm/gal
Fluid Volume: 30.00 bbl
Pump Rate: 0.00 bbl/min

Stage/Plug # 1 Fluid 2: Tuned Light
TUNED LIGHT (TM) SYSTEM
0.25 lbm Poly-E-Flake

Fluid Weight: 10.00 lbm/gal
Slurry Yield: 2.25 ft³/sack
Total Mixing Fluid: 8.19 Gal
Surface Volume: 410.0 sacks
Sacks: 410.0 sacks
Calculated Fill: 1,750.00 ft
Calculated Top of Fluid: 0.00 ft
Estimated Top of Fluid:
Pump Rate: 5.00 bbl/min

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Fluid 3: ExtendaCem B1

Stage/Plug # 1

EXTENDACEM (TM) SYSTEM
0.25 lbm Poly-E-Flake

Fluid Weight: 12.50 lbm/gal
Slurry Yield: 1.70 ft³/sack
Total Mixing Fluid: 8.58 Gal
Surface Volume: 165.0 sacks
Sacks: 165.0 sacks
Calculated Fill: 500.00 ft
Calculated Top of Fluid: 1,750.00 ft
Estimated Top of Fluid:

Stage/Plug # 1 Fluid 4: Displacement Fluid
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 5: HalCem
HALCEM (TM) SYSTEM
2 % Calcium Chloride, Pellet

Fluid Weight: 15.80 lbm/gal
Slurry Yield: 1.17 ft³/sack
Total Mixing Fluid: 5.02 Gal
Estimated Top of Fluid:
Pump Rate: 5.00 bbl/min

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The Road to Excellence Starts with Safety

Sold To #: 352220	Ship To #: 3006542	Quote #:	Sales Order #: 900544751
Customer: COMET RIDGE USA INC		Customer Rep: Bengé, Red	
Well Name: Vortex	Well #: 12-53-3-1	API/UWI #: 05-0073-06535	
Field: CLIFFORD	City (SAP): HUGO	County/Parish: Lincoln	State: Colorado
Lat: N 39.037 deg. OR N 39 deg. 2 min. 11.4 secs.		Long: W 103.315 deg. OR W -104 deg. 41 min. 5.388 secs.	
Contractor: MAJORS		Rig/Platform Name/Num: MAJORS 39	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: SCOTT, KYLE		Srvc Supervisor: FANTASIA, JOSEPH	MBU ID Emp #: 485445

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FANTASIA, JOSEPH Brandon	0.0	485445	HALE, ROBERT E	0.0	470588	HINKLE, BRADLEY Dean	0.0	512123
LANGE, TIMOTHY Paul	0.0	520811	MILLS, CHUCK	0.0	123	SIMS, DENNIS A	0.0	158880

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10866493C	135 mile	11338223	135 mile	11542778	135 mile	11562562	135 mile
11566182	135 mile	11808819	135 mile	11923776C	135 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	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location			
Form Type		BHST	Job Started			
Job depth MD	2250. ft	Job Depth TVD	Job Completed			
Water Depth		Wk Ht Above Floor	Departed Loc			
Perforation Depth (MD)	From	To				

Job Times

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				.	2250.		
Surface Casing	Unknown		8.625	7.921	32.		J-55	.	2250.		

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	

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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	Clean Spacer III		30.00	bbl	9.5	.0	.0	.0		
2	Tuned Light	TUNED LIGHT (TM) SYSTEM (452984)	410.0	sacks	10.	2.25	8.19	5.0	8.19	
	0.25 lbm	POLY-E-FLAKE (101216940)								
	8.191 Gal	FRESH WATER								
3	ExtendaCem B1	EXTENDACEM (TM) SYSTEM (452981)	165.0	sacks	12.5	1.7	8.58		8.58	
	0.25 lbm	POLY-E-FLAKE (101216940)								
	8.581 Gal	FRESH WATER								
4	Displacement Fluid			bbl	8.33	.0	.0	5.0		
5	HalCem	HALCEM (TM) SYSTEM (452986)		sacks	15.8	1.17	5.02	5.0	5.02	
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
	5.019 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				
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						