

**COMET RIDGE USA INC**  
**1050 17th Street, Ste 500-DO NOT MA**  
**DENVER, Colorado**

Surprise 12-54-36-6

Extreme 11

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: 7/23/13  
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: LANSDALE, JUSTIN

# HALLIBURTON

## Wellbore Geometry

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Job Tubulars					MD		TVD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	Top ft	Bottom ft	
Casing	8-5/8" Surface Casing	8.63	7.921	32.00	0.00	2,297.00	0.00	8,520.00	46.00
Casing	13-3/8" Casing	13.38	12.715	48.00	0.00	90.00			45.00
Open Hole Section	12-1/4" Surface Open Hole		12.250		90.00	2,308.00	534.00	8,534.00	0.00

# HALLIBURTON

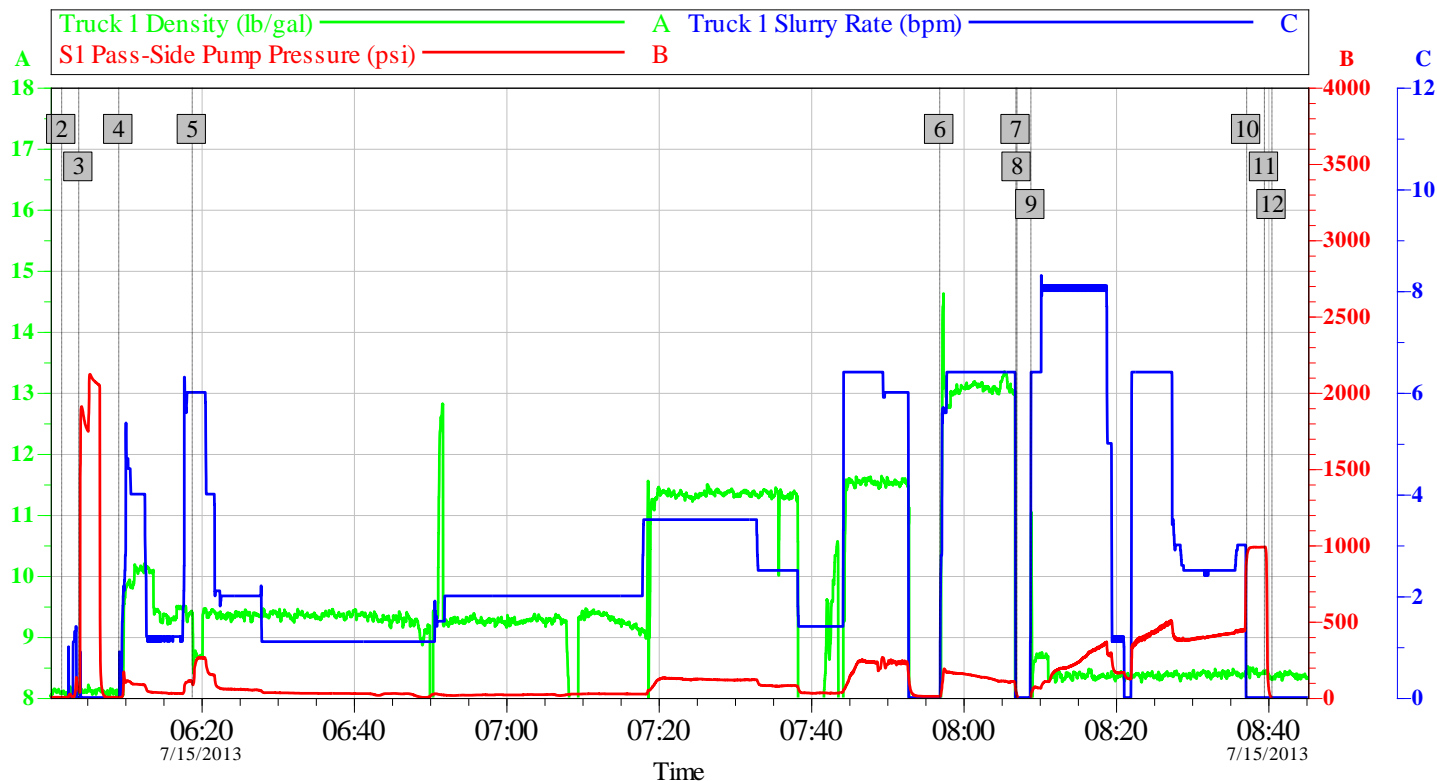
## ***Pumping Schedule***

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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	6.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	Tuned Light	10.00	3.50	415.0 sacks	166.3 bbl
1	3	Cement Slurry	SwiftCem B2	13.00	6.50	145.0 sacks	52.0 bbl
1	4	Spacer	Displacement	8.33	8.00	207.0 bbl	207.0 bbl

# HALLIBURTON

## Data Acquisition



### Global Event Log

2 Start Job	06:01:43	3 Test Lines	06:03:58	4 9.5 ppg Clean Spacer	06:09:12
5 10 ppg Tuned Light	06:18:51	6 13 ppg SwiftCem	07:56:56	7 Shutdown	08:06:57
8 Drop Top Plug	08:07:05	9 Pump Displacement	08:08:53	10 Bump Plug	08:37:13
11 Check Floats	08:39:33	12 End Job	08:40:32		

Customer: Comet Ridge  
Well Description: Surprise 12-54-36-6

Job Date: 15-Jul-2013  
Job Type: Surface

Sales Order #: 900588479  
Supervisor: N. VIGIL

OptiCem v6.4.10  
15-Jul-13 08:53

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
07/15/2013 01:00		Arrive At Loc						Well site assesment,Hazard hunt,Water test,Rig up safety meeting.Waited for rig to finish running casing
07/15/2013 05:30		Pre-Job Safety Meeting						Held pre job safety meeting with all personel present
07/15/2013 06:01		Start Job						
07/15/2013 06:03		Test Lines						Pressure tested lines to 2000 psi
07/15/2013 06:09		Pump Spacer 1	6	30			108.0	9.5 ppg Clean Spacer
07/15/2013 06:18		Pump Lead Cement	3.5	166.3			120.0	10 ppg Tuned Light (415 sks), weight verified by scale. Down hole was all over the place but all cement was scaled on the truck prior to being pumped.
07/15/2013 07:56		Pump Tail Cement	6.4	52			145.0	13 ppg SwiftCem (145 sks), weight verified by scale
07/15/2013 08:06		Shutdown						
07/15/2013 08:07		Drop Top Plug						Plug was pre loaded
07/15/2013 08:08		Pump Displacement	8	70			340.0	Displaced using rig water as per company man
07/15/2013 08:37		Bump Plug	3	137			447.0	Calculated pressure to bumo plug was 292 psi + 500 over final lift
07/15/2013 08:39		Check Floats						Floats held
07/15/2013 08:40		End Job						Rig down safety meeting

## The Road to Excellence Starts with Safety

Sold To #: 352220	Ship To #: 352220	Quote #:	Sales Order #: 900588479
Customer: COMET RIDGE USA INC		Customer Rep: Benge, Red	
Well Name: Surprise	Well #: 12-54-36-6	API/UWI #: 05-073-06540	
Field: WILDCAT	City (SAP): DENVER	County/Parish: Denver	State: Colorado
Lat: N 38.961 deg. OR N 38 deg. 57 min. 40.212 secs.		Long: W 103.4 deg. OR W -104 deg. 36 min. 0.828 secs.	
Job Purpose: Cement Surface Casing			
Well Type: Exploratory / Wildcat		Job Type: Cement Surface Casing	
Sales Person: PLIENESS, RYAN		Srvc Supervisor: VIGIL, NICHOLAS	MBU ID Emp #: 443481

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BOURGEOIS, KEVIN Paul	0.0	459092	DEY, JERRY A	0.0	505015	FANTASIA, JOSEPH Brandon	0.0	485445
MAYFIELD, BYRON L	0.0	528751	ROMERO, JOSEPH M	0.0	512137	VIGIL, NICHOLAS Joseph	0.0	443481

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10857080C	140 mile	10977079C	140 mile	11106651	140 mile	11338223	140 mile
11398319	140 mile	11398490	140 mile	11527041C	140 mile	11562544C	140 mile
11764052	140 mile	11764739	140 mile	12010168	140 mile		

## Job

## Job Times

Formation Name							
Formation Depth (MD)	Top	Bottom		Called Out	Date	Time	Time Zone
Form Type		BHST		On Location	14 - Jul - 2013	19:00	MST
Job depth MD	2250. ft	Job Depth TVD	2308. ft	Job Started	15 - Jul - 2013	01:00	MST
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	15 - Jul - 2013	06:01	MST
Perforation Depth (MD)	From	To		Job Completed	15 - Jul - 2013	08:40	MST
				Departed Loc	15 - Jul - 2013	10:00	MST

## Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
12-1/4" Surface Open Hole				12.25				90.	2308.	534.	8534.
13-3/8" Casing	Unknown		13.375	12.715	48.		J-55	.	90.		
8-5/8" Surface Casing	Unknown		8.625	7.921	32.		J-55	.	2297.	.	8520.

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER ASSY - API - 8-5/8 CSG X	10	EA		
CLR,FLT,8-5/8 8RD 24-44PPF,2-3/4SSII	1	EA		
Description	Qty	Qty uom	Depth	Supplier
SHOE,FLT,8-5/8 8 RD,2-3/4 SUPER SEAL	1	EA		
KIT,HALL WELD-A	2	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	270	MI		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		

BASKET-CMT-8-5/8 CSG-SLIP-ON-S						3	EA		
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
1	Clean Spacer III		30.00	bbl	9.5	7.2	49.19	6.0	
2	Tuned Light	TUNED LIGHT (TM) SYSTEM (452984)	415.0	sacks	10.	2.25	8.19	3.5	8.19
	0.25 lbm	POLY-E-FLAKE (101216940)							
	8.191 Gal	FRESH WATER							
3	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	145.0	sacks	13.	2.01	10.96	6.5	10.96
	0.25 lbm	POLY-E-FLAKE (101216940)							
	10.96 Gal	FRESH WATER							
4	Displacement		207	bbl	8.33			8.0	
5	HalCem TopOut	HALCEM (TM) SYSTEM (452986)	100.0	sacks	15.8	1.15	5.0	-	5.0
	5 Gal	FRESH WATER							
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount	46 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					

