

**COMET RIDGE USA INC  
DO NOT MAIL - 1776 LINCOLN ST  
DENVER, Colorado**

Busygully 13-54-12-3A

Patterson 189

## **Post Job Summary** **Cement Intermediate Casing**

Date Prepared: 3/25/2013  
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: WARD, DAVID

# HALLIBURTON

## ***Wellbore Geometry***

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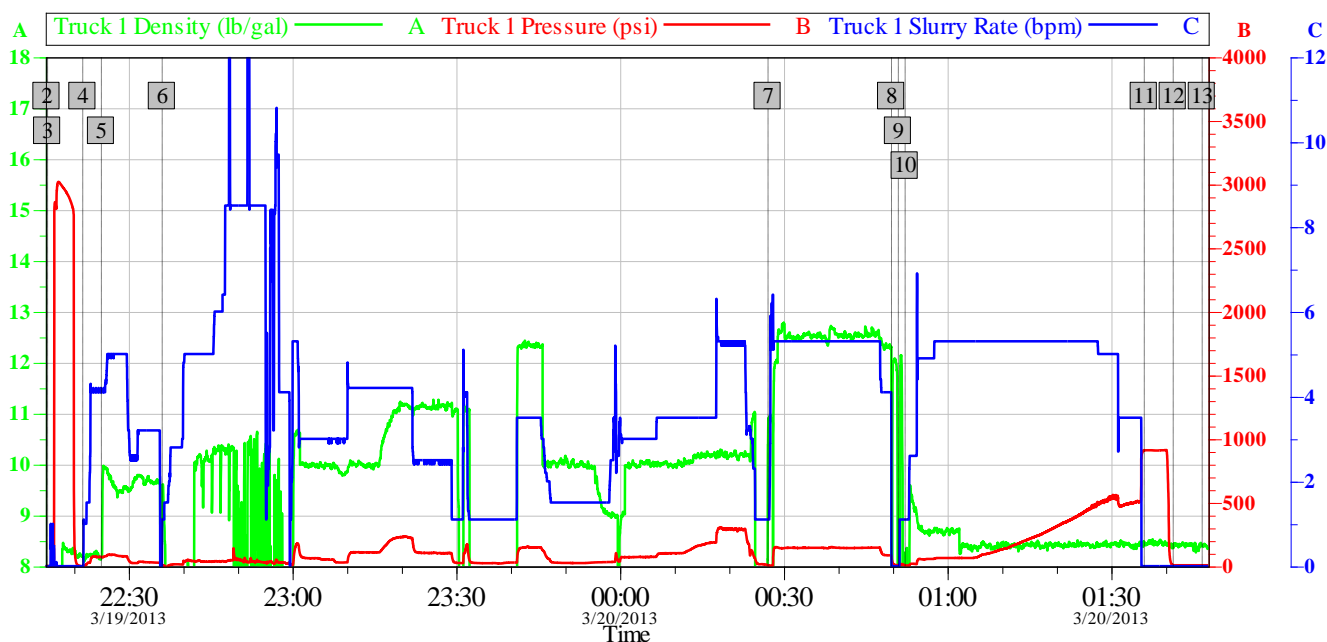
Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	8-5/8" Intermediate Casing	8.63	7.921	32.00	0.00	3,400.00	45.00
Casing	13-3/8" Casing	13.38	12.715	48.00	0.00	447.00	45.00
Open Hole Section	12-1/4" Intermediate Open Hole		12.250		447.00	3,400.00	0.00

# HALLIBURTON

## Pumping Schedule

Stage / Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Downhole Volume
1	1	Spacer	Clean Spacer III	9.50	4.00	30.0 bbl
1	2	Cement Slurry	Tuned Light	10.00	6.00	595.0 sacks
1	3	Cement Slurry	EXTENDACEM B1	12.50	5.00	340.0 sacks
1	4	Spacer	Displacement Fluid	8.33	5.00	100 bbl

## Data Acquisition



### Global Event Log

2	Start Job	3/19/2013 22:15:04	3	Test Lines	3/19/2013 22:15:11
4	Dye Water	3/19/2013 22:21:38	5	9.5 ppg Clean Spacer	3/19/2013 22:25:02
6	10 ppg Tuned Light	3/19/2013 22:36:11	7	12.5 ppg ExtendaCem	3/20/2013 00:27:09
8	Shutdown	3/20/2013 00:49:47	9	Drop Plug	3/20/2013 00:51:02
10	Pump Displacement	3/20/2013 00:52:16	11	Bump Plug	3/20/2013 01:36:05
12	Check Floats	3/20/2013 01:41:23	13	End Job	3/20/2013 01:46:41

Customer: Comet Ridge	Job Date: 19-Mar-2013	Sales Order #: 900293836
Well Description: Busygully 13-54-12-3A	Job Type: Intermediate	Supervisor: N. VIGIL

OptiCem v6.4.10  
20-Mar-13 01:57

# HALLIBURTON

## Service Supervisor Reports

### Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
03/19/2013 20:30		Arrive At Loc						Well site assesment,Hazard hunt,Water test,Rig up safety meeting
03/19/2013 22:15		Start Job						Pre job safety meeting
03/19/2013 22:15		Test Lines						Pressure tested lines to 3000 psi
03/19/2013 22:21		Pump Spacer 1	4	10			73.0	Dye Water
03/19/2013 22:25		Pump Spacer 2	5	30			89.0	9.5 Clean Spacer
03/19/2013 22:36		Pump Lead Cement	3.5	232			152.0	10 ppg Tuned Light (595 sks), weight verified by scale
03/20/2013 00:27		Pump Tail Cement	5	102.9			155.0	12.5 ppg ExtendaCem (340 sks), weight verified by scale
03/20/2013 00:49		Shutdown						
03/20/2013 00:51		Drop Top Plug						Plug was pre loaded
03/20/2013 00:52		Pump Displacement	5	100			187.0	Rig water
03/20/2013 01:36		Bump Plug	3	203.4			517.0	Calculated pressure to land was 459 psi + 500 over final lift, 30 bbl cement to surface
03/20/2013 01:41		Check Floats						Floats held
03/20/2013 01:46		End Job						Rig down safety meeting

## The Road to Excellence Starts with Safety

Sold To #: 352220	Ship To #: 2986985	Quote #:	Sales Order #: 900293868
Customer: COMET RIDGE USA INC		Customer Rep: Bengé, Red	
Well Name: Busygully		Well #: 13-54-12-3A	API/UWI #: 05-073-06494
Field:	City (SAP): LIMON	County/Parish: Lincoln	State: Colorado
Lat: N 38.934 deg. OR N 38 deg. 56 min. 1.324 secs.		Long: W 103.4 deg. OR W -104 deg. 36 min. 1.026 secs.	
Job Purpose: Cement Intermediate Casing			
Well Type: Exploratory / Wildcat		Job Type: Cement Intermediate Casing	
Sales Person: SCOTT, KYLE	Srv 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 #
BANUELOS, GUADALUPE	0.0	372277	BROOM, KENDALL L	0.0	524682	CHISLUM, DENNIS	0.0	512130
CONGDON, RICHARD S.	0.0	320306	HOLMES, ANDREW Malcom	0.0	520802	MEADOWS, DANIEL Graham	0.0	500668
NESBITT, ROY Iverson	0.0	537416	OTERI, VAUGHN Steeves	0.0	443828	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
10679720C	135 mile	10857080C	135 mile	10977079	135 mile	11362287C	135 mile
11518550	135 mile	11532305	135 mile	11542577	135 mile	11562544C	135 mile
11633846C	135 mile	11645065	135 mile	11808819C	135 mile	11923776C	135 mile
12010168	135 mile	53301	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					Job Times			
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type	BHST				On Location	19 - Mar - 2013	20:45	MST
Job depth MD	3400. ft		Job Depth TVD	3400. ft	Job Started	19 - Mar - 2013	00:00	MST
Water Depth			Wk Ht Above Floor		Job Completed	19 - Mar - 2013	02:00	MST
Perforation Depth (MD)	From	To			Departed Loc	20 - Mar - 2013	03:15	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
12-1/4" Intermediate Open Hole				12.25				447.	3400.		
13-3/8" Casing	Unknown		13.375	12.715	48.		J-55	.	447.		
8-5/8" Intermediate Casing	Unknown		8.625	7.921	32.		J-55	.	3400.		

Sales/Rental/3 <sup>rd</sup> Party (HES)														
Description										Qty	Qty uom	Depth	Supplier	
CENTRALIZER ASSY - API - 8-5/8 CSG X										5	EA			
CLR,FLT,8-5/8 8RD 24-44PPF,2-3/4SSII										1	EA			
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			
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	Clean Spacer III				30.00	bbl	9.5	5.57	41.66	4.0				
	0 lbm/bbl	SA-1015, 50 LB SACK (102077046)												
2	Tuned Light	TUNED LIGHT (TM) SYSTEM (452984)			595.0	sacks	10.	2.19	7.58	5.0	7.58			
	7.58 Gal	FRESH WATER												
3	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)			340.0	sacks	12.5	1.7	8.58	5.0	8.58			
	0.25 lbm	POLY-E-FLAKE (101216940)												
	8.581 Gal	FRESH WATER												
4	Displacement Fluid				100	bbl	8.33	.0	.0	5.0				
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	45 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									

