

**COMET RIDGE USA INC
DO NOT MAIL - 1775 SHERMAN ST
DENVER, Colorado**

Busygully 13-54-12-3A

Patterson 189

Post Job Summary **Cement Multiple Stages**

Date Prepared: 4/8/2013
Version: 1

Service Supervisor: LAVALLEY, LARRY

Submitted by: GROVES, COREY

HALLIBURTON

Wellbore Geometry

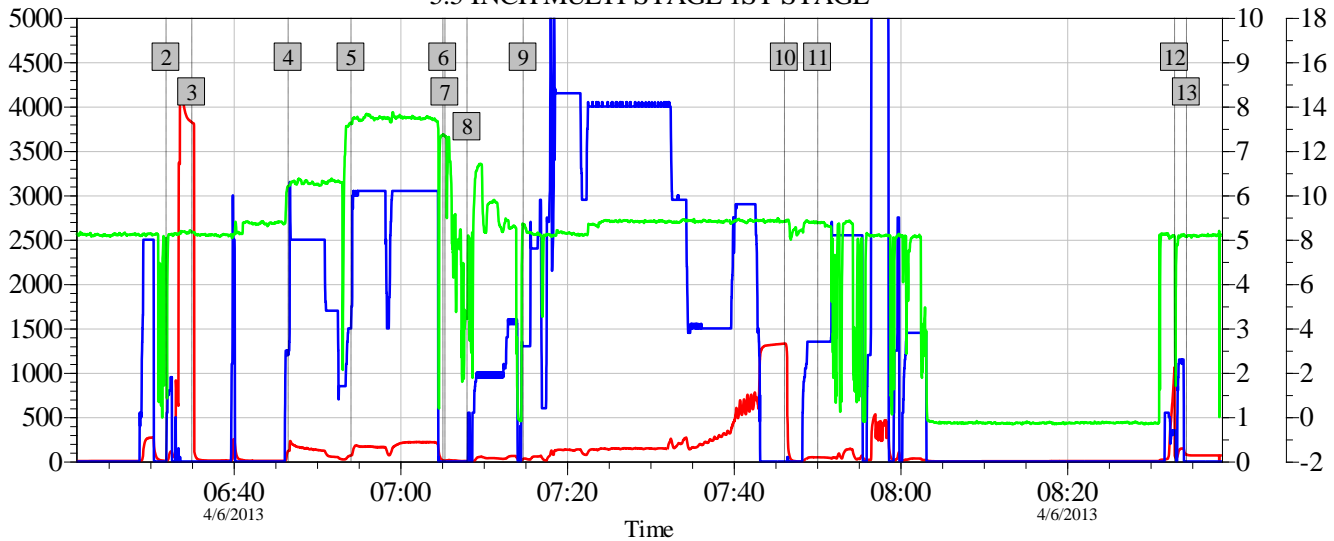
Job Tubulars					MD		Excess	Shoe Joint Length
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	%	ft
Open Hole Section	7-7/8" Production Open Hole		7.875		3,386.00	7,120.00	35.00	
Casing	5-1/2" Production String	5.50	4.892	17.00	0.00	7,111.00		45.00
Casing	8-5/8" Intermediate Casing	8.63	7.921	32.00	0.00	3,386.00		45.00
Cement Stage Tool	Multiple Stage Cementer		.000		5,649.00	5,651.00		0.00

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	10.50	5.00	30.0 bbl	30.0 bbl
1	2	Cement Slurry	FracCem	13.50	6.00	200.0 sacks	200.0 sacks
1	3	Spacer	Treated Displacement	8.33	8.00	82.0 bbl	82.0 bbl
1	4	Mud	Mud Displacement	9.00	8.00	82.0 bbl	82.0 bbl
2	1	Spacer	Clean Spacer III	10.50	5.00	30.0 bbl	30.0 bbl
2	2	Cement Slurry	EXTENDACEM B1	11.50	6.00	380.0 sacks	380.0 sacks
2	3	Cement Slurry	ExtendaCem B1 Tail	12.50	6.00	100.0 sacks	100.0 sacks
2	4	Spacer	Treated Displacement	8.33	8.00	131.0 bbl	131.0 bbl

Data Acquisition

COMET RIDGE BUSYGULLY 13-54-12-3A 5.5 INCH MULTI STAGE 1ST STAGE



Global Event Log

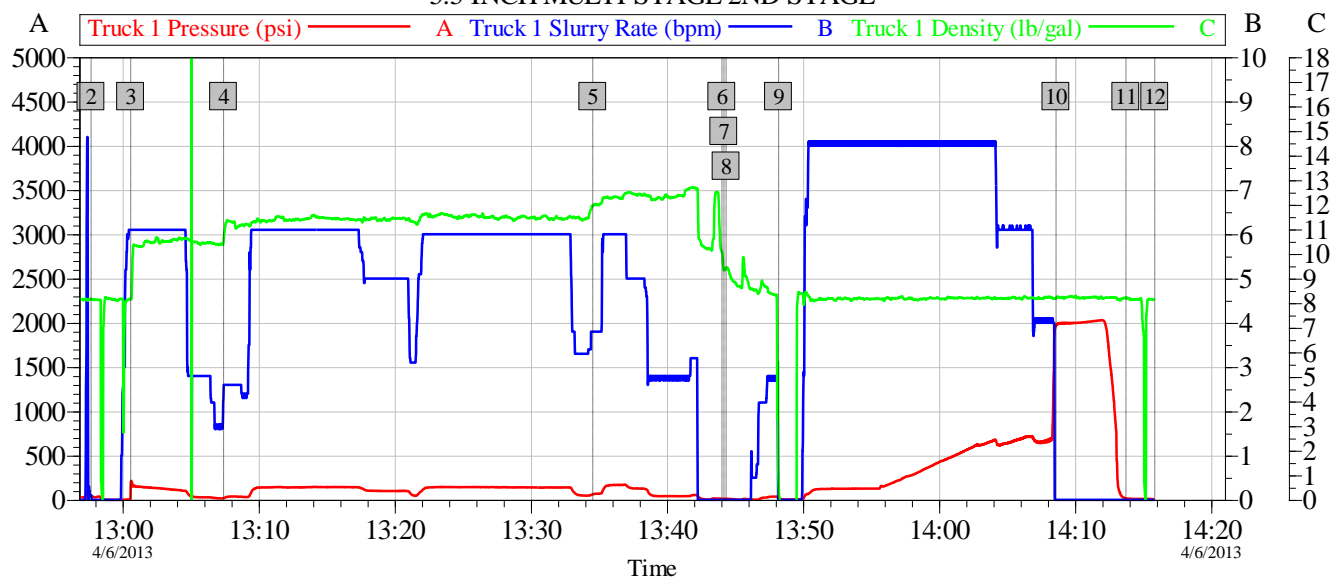
Intersection		TIP	TISR	TID	Intersection		TIP	TISR	TID
1 Starting Job	05:29:16	50.00	0.100	1.580	2 Start Job	06:31:54	8.000	0.000	7.980
3 Test Lines	06:34:58	3823	0.000	8.355	4 Pump Spacer	06:46:33	120.9	2.413	10.41
5 Pump Lead Cement	06:54:05	68.00	3.000	13.21	6 Shutdown	07:05:06	14.00	0.000	12.73
7 Clean Lines	07:05:21	10.000	0.000	12.68	8 Drop Plug	07:08:01	6.000	0.000	4.464
9 Pump Displacement	07:14:44	29.58	2.600	8.676	10 Bump Plug	07:46:05	1329	0.000	8.830
11 Drop Opening Tool	07:50:05	47.00	2.700	8.750	12 Open Multiple Stage Cementer	08:32:53	1050	0.700	8.142
13 End Job	08:34:19	78.62	0.000	8.130	14 Ending Job	08:40:12	69.00	0.000	8.210

Customer: COMET RIDGE	Job Date: 06-Apr-2013	Sales Order #: 900337977	OptiCem v6.4.10
Well Description: 5.5 INCH MULTI STAGE	THANKS LARRY LAVALLEY AND CREW		06-Apr-13 08:40

HALLIBURTON

COMET RIDGE BUSYGULLY 13-54-12-3A

5.5 INCH MULTI STAGE 2ND STAGE



Global Event Log

Intersection				T1P	T1SR	T1D	Intersection				T1P	T1SR	T1D
1	Starting Job	12:40:21	77.00	0.000	8.170	2	Start Job	12:57:41	47.89	0.100	8.170		
3	Pump Spacer	13:00:36	166.2	6.100	8.170	4	Pump Lead Cement	13:07:25	20.63	2.488	10.54		
5	Pump Tail Cement	13:34:33	63.71	3.800	11.95	6	Shutdown	13:44:03	12.00	0.000	10.09		
7	Clean Lines	13:44:12	11.13	0.000	9.340	8	Drop Top Plug	13:44:21	13.00	0.000	9.446		
9	Pump Displacement	13:48:12	20.43	0.000	0.694	10	Close Multiple Stage Cementer	14:08:36	1981	0.000	8.190		
11	End Job	14:13:44	18.17	0.000	8.208	12	Ending Job	14:15:51	8.000	0.000	8.120		

Customer: COMET RIDGE USA
Well Description: 5.5 INCH MULTI STAGE

Job Date: 06-Apr-2013
THANKS LARRY LAVALLEY AND CREW

Sales Order #: 900337977

OptiCem v6.4.10
06-Apr-13 14:19

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
04/05/2013 16:30		Arrive at Location from Service Center				WAITED ON LOCATION WHILE MSC TOOL WAS RAN WITH CASING.
04/06/2013 06:31		Start Job				
04/06/2013 06:34		Test Lines			3823.0	RIG WATER WITH NO ADDITIVES
04/06/2013 06:46		Pump Spacer 1	5	30	120.0	30 BBLS CLEAN SPACER III MIXED @ 10.5 PPG
04/06/2013 06:54		Pump 1st Stage Lead Slurry	6	66	68.0	200 SKS FRACCEM MIXED @ 13.5 PPG YIELD 1.84 FT3/SK AND 8.66 GAL/SK
04/06/2013 07:05		Shutdown				
04/06/2013 07:05		Clean Lines				
04/06/2013 07:08		Drop Plug				SHUTDOWN TO LOAD HALLIBURTON SHUTOFF PLUG
04/06/2013 07:14		Pump Displacement	8	164	130.0	RIG WATER WITH CLA-WEBB AND GASPERM 1ST 40BBLS THEN DRILLING MUD, SLOWED RATE TO 3BBL TO PASS THRU TOOL.CAUGHT CEMENT @ 113 BBLS AWAY
04/06/2013 07:46		Bump Plug	3		1329.0	CALCULATED PRESSURE TO LAND PLUG WAS 1308 PSI.FLOATS HELD.
04/06/2013 07:50		Drop Opening Device For Multiple Stage Cementer				DROP HALLIBURTON OPENING TOOL FOR MSC. WASHED UP PUMP AND LINES.
04/06/2013 08:32		Open Multiple Stage Cementer			1065.0	WAITED 40 MIN FOR OPENING TOOL TO SEAT, PRESSURE UP TO OPEN TOOL, TOOL OPENED @ 1065 PSI
04/06/2013 08:35		Circulate Well				TURNUED OVER TO RIG TO CIRCULATE FOR 4 HOURS AND 20 MIN
04/06/2013 13:00		Pump Spacer 1	5	30	166.0	30 BBLS CLEAN SPACER MIXED @ 10.5 PPG
04/06/2013 13:07		Pump 2nd Stage Lead Slurry	6	152	186.0	380 SKS EXTENDACEM B1 MIXED @ 11.5 PPG YIELD 2.25 FT3/SK AND 12.7 GAL/SK
04/06/2013 13:34		Pump 2nd Stage Tail Slurry	6	31	63.0	100 SKS EXTENDACEM B1 MIXED @ 12.5 PPG YIELD 1.71 FT3/SK AND 8.62 GAL/SK
04/06/2013 13:44		Shutdown				
04/06/2013 13:44		Clean Lines				
04/06/2013 13:44		Drop Top Plug				SHUTDOWN TO LOAD HWE TOP PLUG
04/06/2013 13:48		Pump Displacement	8	131	670.0	RIG WATER WITH CLA-WBB AND GASPERM ADDED
04/06/2013 14:08		Close Multiple Stage Cementer	3		1981.0	CALCULATED PRESSURE TO LAND PLUG WAS 1137 PSI. CAUGHT CEMENT @ 53 BBLS AWAY AND SPACER RETURNED TO SURFACE @ BBLS AWAY
04/06/2013 14:12		Other				CHECKED FLOATS AND HAD RIG DOWN SAFETY MEETING. GOT 1 BBL BACK
04/06/2013 14:15		End Job				

The Road to Excellence Starts with Safety

Sold To #: 352220	Ship To #: 2986985	Quote #:	Sales Order #: 900337977
Customer: COMET RIDGE USA INC		Customer Rep: HOPE, CRAIG	
Well Name: Busygully		Well #: 13-54-12-3A	API/UWI #: 05-073-06494
Field: WILD CAT	City (SAP): LIMON	County/Parish: Lincoln	State: Colorado
Legal Description: Section 12 Township 13S Range 54W			
Contractor: Patterson UTI		Rig/Platform Name/Num: #189	
Job Purpose: Cement Multiple Stages			
Well Type: Exploratory / Wildcat		Job Type: Cement Multiple Stages	
Sales Person: FLING, MATTHEW		Srvc Supervisor: LAVALLEY, LARRY	MBU ID Emp #: 419296

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEY, JERRY A	8.0	505015	HALE, ROBERT E	8.0	470588	LAVALLEY, LARRY P	8.0	419296
MARKOVICH, STEVEN Michael	8.0	502964	MULLER, MICHEL B	8.0	529830	SMITH, AARON David	8.0	518187

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	131 mile	10866493C	131 mile	11019824	131 mile	11106651	131 mile
11410470C	131 mile	11518549	131 mile	11562562	131 mile		

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	05 - Apr - 2013	12:00 MST
Form Type	BHST			On Location	05 - Apr - 2013	16:00 MST
Job depth MD	7120. ft	Job Depth TVD	7120. ft	Job Started	06 - Apr - 2013	06:30 MST
Water Depth		Wk Ht Above Floor	189. ft	Job Completed	06 - Apr - 2013	14:15 MST
Perforation Depth (MD)	From	To		Departed Loc	06 - Apr - 2013	15:00 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
Multiple Stage Cementer	Used			.				5649.	5651.		
7-7/8" Production Open Hole				7.875				3386.	7120.		
5-1/2" Production String	Unknown		5.5	4.892	17.		L-80	.	7111.		
8-5/8" Intermediate Casing	Unknown		8.625	7.921	32.		J-55	.	3386.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CENTRALIZER SLIDER II,#0700-0978S	30	EA		
Description	Qty	Qty uom	Depth	Supplier
CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED	30	EA		
CMTR,FO,5 1/2 8RD,14-17#,SUITABLE F/	1	EA		
KIT,HALL WELD-A	2	EA		
SHOE,FLOAT,5 1/2 8RD,2 3/4 SUPER SEAL	1	EA		
CLR,FLT,5-1/2 8RD,14-23PPF,2-3/4	1	EA		

CLAMP - LIMIT - 5-1/2 - HINGED -	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	270	MI		
CEMENTER - MULT STAGE - 5-1/2 8RD	1	EA		
PLUG SET - FREE FALL - 5-1/2 8RD &	1	EA		

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	10.5		42.0	5.0	
2	FracCem	FRACCCEM (TM) SYSTEM (452963)	200.0	sacks	13.5	1.84	8.66	6.0	8.66
		0.125 lbm							
		POLY-E-FLAKE (101216940)							
		8.66 Gal							
		FRESH WATER							
3	Treated Displacement		82.00	bbl	8.33		42.0	8.0	
		0.4 gal/Mgal							
		CLA-WEB - TOTE (101985045)							
		2 gal/Mgal							
		GASPERM 1100, 5 GAL PAIL (101770758)							
4	Mud Displacement		82.00	bbl	9			8.0	

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Clean Spacer III		30.00	bbl	10.5		42.0	5.0	
2	EXTENDACEM B1	EXTENDACEM (TM) SYSTEM (452981)	380.0	sacks	11.5	2.25	12.7	6.0	12.7
		0.25 lbm							
		POLY-E-FLAKE (101216940)							
		12.7 Gal							
		FRESH WATER							
3	ExtendaCem B1 Tail	EXTENDACEM (TM) SYSTEM (452981)	100.0	sacks	12.5	1.71	8.62	6.0	8.62
		0.125 lbm							
		POLY-E-FLAKE (101216940)							
		8.622 Gal							
		FRESH WATER							
4	Treated Displacement		131.00	bbl	8.33		42.0	8.0	
		0.4 gal/Mgal							
		CLA-WEB - TOTE (101985045)							
		2 gal/Mgal							
		GASPERM 1000, 5 GAL PAIL (101514103)							

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
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