

**BILL BARRETT CORPORATION E-BILL
DO NOT MAIL-1099 18TH ST,STE 2300W
DENVER, Colorado**

Pappenheim 6-62-23-0164BH

Nabors M 37

Post Job Summary **Cement Intermediate Casing**

Date Prepared: 8/20/2013
Version: 1

Service Supervisor: FANTASIA, JOSEPH

Submitted by: LANSDALE, JUSTIN

HALLIBURTON

Wellbore Geometry

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	9 5/8" Surface Casing	9.63	8.921	36.00	0.00	842.00			
Open Hole Section	8 3/4" Open Hole		8.750		842.00	6,850.00	842.00	6,341.00	
Casing	7" Intermediate Casing	7.00	6.276	26.00	0.00	6,850.00			42.00

HALLIBURTON

Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	TUNED SPACER III	11.50	5.00	40.0 bbl	40.0 bbl
1	2	Cement Slurry	12.5# EconoCem B2	12.50	5.00	400.0 sacks	400.0 sacks
1	3	Cement Slurry	13.5# FracCem Tail	13.50	5.00	190.0 sacks	190.0 sacks
1	4	Mud	MUD DISPLACEMENT	9.00	6.00	182.4 bbl	182.4 bbl

HALLIBURTON

Fluids Pumped

Stage/Plug # 1 Fluid 1: TUNED SPACER III
TUNED SPACER III - SBM (483826)
117.6 Barite
lbm/bbl

Fluid Density: 11.50 lbm/gal
Fluid Volume: 40.00 bbl
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 2: 12.5# EconoCem B2
ECONOCEM (TM) SYSTEM
5 lbm Silicalite Compacted

Fluid Weight: 12.50 lbm/gal
Slurry Yield: 1.97 ft³/sack
Total Mixing Fluid: 10.72 Gal
Surface Volume: 400.0 sacks
Sacks: 400.0 sacks
Calculated Fill: 4,340.00 ft
Calculated Top of Fluid: 1,200.00 ft
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 3: 13.5# FracCem Tail
FRACCEN (TM) SYSTEM

Fluid Weight: 13.50 lbm/gal
Slurry Yield: 1.74 ft³/sack
Total Mixing Fluid: 8.30 Gal
Surface Volume: 190.0 sacks
Sacks: 190.0 sacks
Calculated Fill: 2,000.00 ft
Calculated Top of Fluid: 5,540.00 ft
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 4: MUD
DISPLACEMENT

Fluid Density: 9.00 lbm/gal
Pump Rate: 6.00 bbl/min

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
08/13/2013 04:19		Arrive at Location from Service Center						ARRIVE AT LOCATION AND PERFORM HAZARD HUNT AND SITE ASSESSMENT WITH CREW.
08/13/2013 04:19		Assessment Of Location Safety Meeting						
08/13/2013 04:19		Start Job						PERFORM PRE JOB SAFETY MEETING WITH ALL PRESENT PERSONELL.
08/13/2013 04:19		Test Lines						PRESSURE TEST LINES TO 4000 PSI.
08/13/2013 04:19		Pump Spacer 1	5	40				40 BBLS TUNED SPACER MIXED AT 11.5 PPG
08/13/2013 04:19		Pump Lead Cement	6	140				400 SKS ECONOCHEM MIXED AT 12.5 PPG USING RIG WATER
08/13/2013 04:19		Pump Tail Cement	6	58				190 SKS FRACCEM MIXED AT 13.5 PPG USING RIG WATER
08/13/2013 04:19		Shutdown						
08/13/2013 04:19		Drop Top Plug						TOP PLUG PRELOADED
08/13/2013 04:19		Pump Displacement	8					GOOD RETURNS THROUGHOUT.
08/13/2013 04:19		Bump Plug	3					PLUG LANDED AT
08/13/2013 04:19		Check Floats						FLOATS HELD
08/13/2013 04:19		Pressure Test						PRESSURE UP ON CASING FOR CASING PRESSURE TEST. 3000 PSI FOR 15 MIN.
08/13/2013 04:19		End Job						
08/13/2013 04:19		Post-Job Safety Meeting (Pre Rig-Down)						PERFORM PRE RIG DOWN SAFETY MEETING WITH CREW PRIOR TO RIGGING DOWN.

The Road to Excellence Starts with Safety

Sold To #: 343492	Ship To #: 3093206	Quote #:	Sales Order #: 900660725
Customer: BILL BARRETT CORPORATION E-BILL		Customer Rep: Bill Barrett Corp., Curtis	
Well Name: Pappenheim		Well #: 6-62-23-0164BH	API/UWI #: 05-123-37266
Field: WATTENBURG	City (SAP): BRIGGSDALE	County/Parish: Weld	State: Colorado
Lat: N 40.48 deg. OR N 40 deg. 28 min. 46.596 secs.		Long: W 104.292 deg. OR W -105 deg. 42 min. 29.448 secs.	
Contractor: Nabors		Rig/Platform Name/Num: Nabors M 37	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: PLIENESS, RYAN		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 #
ALVARADO, JOSE	0.0	123456	FANTASIA, JOSEPH Brandon	0.0	485445	HINKLE, BRADLEY Dean	0.0	512123
LANGE, TIMOTHY Paul	0.0	520811	REED, PAUL	0.0	123456			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11106651	70 mile	11410470C	70 mile	11764737	70 mile	11808819	70 mile
11923776C	70 mile						

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	6850. ft	6341. ft				

Job Times

Called Out	Date	Time	Time Zone
	13 - Aug - 2013	02:00	MST
On Location	13 - Aug - 2013	00:00	MST
Job Started	13 - Aug - 2013	00:00	MST
Job Completed	13 - Aug - 2013	00:00	MST
Departed Loc	13 - Aug - 2013	00:00	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
8 3/4" Open Hole				8.75				842.	6850.	842.	6341.
7" Intermediate Casing	New		7.	6.276	26.	LTC	HCP110	.	6850.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	842.		

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	TUNED SPACER III	TUNED SPACER III - SBM (483826)	40.00	bbl	11.5	7.21	53.96	5.0	
2	12.5# EconoCem B2	ECONOCЕМ (TM) SYSTEM (452992)	400.0	sacks	12.5	1.97	10.72	5.0	10.72
5 lbm		SILICALITE - COMPACTED, 50 LB SK (100012223)							
10.72 Gal		FRESH WATER							
3	13.5# FracCem Tail	FRACCЕМ (TM) SYSTEM (452963)	190.0	sacks	13.5	1.74	8.3	5.0	8.3
8.3 Gal		FRESH WATER							
4	MUD DISPLACEMENT		182.4	bbl	9.			6.0	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount	42 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					

