

**ANADARKO PETROLEUM CORP - EBUS
DO NOT MAIL - PO BOX 4995
THE WOODLANDS, Texas**

Howard 27C-33HZ

Major 29

Post Job Summary **Cement Surface Casing**

Prepared for:
Date Prepared: 1/20/2014
Version: 1

Service Supervisor: SMITH, AARON

Submitted by: FINNEY, SEAN

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD		Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft	
Casing	9 5/8" Surface Casing	9.63	8.921	36.00	0.00	1,012.00	42.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,022.00	0.00

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	Fresh Water Spacer	8.33	2.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	2.00	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	2.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	5.00	386.0 sacks	386.0 sacks

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
09/12/2013 04:00		Arrive at Location from Service Center						WITH ALL EQUIPMENT AND MATERIALS, CASING ON BOTTOM @ 0615.
09/12/2013 04:30		Assessment Of Location Safety Meeting						
09/12/2013 06:30		Pre-Rig Up Safety Meeting						DISCUSSED RIG UP JSA WITH CREW
09/12/2013 06:35		Rig-Up Equipment						HAD TO PULL OUT TRUCKS THAT WERE STUCK
09/12/2013 07:30		Rig-Up Completed						
09/12/2013 08:00		Pre-Job Safety Meeting						WITH CUSTOMER REP AND RIG CREW
09/12/2013 08:31		Start Job						
09/12/2013 08:34		Test Lines						@ 2500 PSI
09/12/2013 08:40		Pump Spacer 1	2	10			25.0	FRESH WATER WITH NO ADDITIVES
09/12/2013 08:45		Pump Spacer 2	2	12			25.0	FRESH WATER WITH MUD FLUSH
09/12/2013 08:50		Pump Spacer 1	2	10			29.0	FRESH WATER WITH NO ADDITIVES
09/12/2013 08:55		Pump Cement	5	106			80.0	385 SKS SWIFTCM B1 , @ 14.2 PPG, 1.54 YIELD, 7.66 GAL/SK
09/12/2013 09:19		Shutdown						
09/12/2013 09:20		Drop Top Plug						PRE-LOADED HWE TOP PLUG IN PLUG CONTAINER. VERIFIED BY CUSTOMER REP
09/12/2013 09:22		Clean Lines	2	10			25.0	WASHED PUMPS AND LINES ON TOP OF PLUG
09/12/2013 09:32		Pump Displacement	5	66			380.0	FRESH WATER WITH NO ADDITIVES
09/12/2013 09:37		Spacer Returns to Surface						@ 32 BBLS DISPLACEMENT 32 BBLS TO THE PIT
09/12/2013 09:44		Cement Returns to Surface						@ 64 BBLS DISPLACEMENT, 12 BBLS TO THE PIT
09/12/2013 09:50		Bump Plug	2				1080.0	FINAL CIRCULATING PRESSURE 380
09/12/2013 09:55		Check Floats						FLOATS GOOD .5 BBLS BACK
09/12/2013 09:58		End Job						RIG-DOWN SAFETY MEETING, JOURNEY MANAGEMENT, THANKS AARON SMITH AND CREW

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3005208	Quote #:	Sales Order #: 900735644
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Balkenbush, Bob	
Well Name: Howard	Well #: 27C-33HZ	API/UWI #:	
Field: WATTENBURG	City (SAP): DACONO	County/Parish: Weld	State: Colorado
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: PLIENESS, RYAN		Srvc Supervisor: SMITH, AARON	MBU ID Emp #: 518187

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DODSON, RICHARD Bryan	6.0	518192	SMITH, AARON David	6.0	518187			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11410470C	7 mile	11562546C	7 mile	11566182	7 mile	12010173	7 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	12 - Sep - 2013	04:00	MST
Form Type		BHST	Job Started	12 - Sep - 2013	08:31	MST
Job depth MD	1022. ft	Job Depth TVD	Job Completed	12 - Sep - 2013	09:56	MST
Water Depth		Wk Ht Above Floor	Departed Loc	12 - Sep - 2013	10:30	MST
Perforation Depth (MD)	From	To				

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
13 1/2" Open Hole Section				13.5				.	1022.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1012.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
MILEAGE FOR CEMENTING CREW,ZI	30	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	30	MI		
KIT,HALL WELD-A	1	EA		
CNTRLZR, 9 5/8x13 3/4,#500-0963-1375	7	EA		
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	2	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4	1	EA		

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	Fresh Water Spacer		10.00	bbl	8.33			2.0	
2	Mud Flush		12.00	bbl	8.4			2.0	
3.33 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
42 gal/bbl		MUD FLUSH III - SBM (528788)							
1	Fresh Water Spacer		10.00	bbl	8.33			2.0	
3	SwiftCem B2	SWIFTCEN (TM) SYSTEM (452990)	386.0	sacks	14.2	1.53	7.63	5.0	7.63
7.63 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		66	Treatment
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
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					

