

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

Howard 15C-33HZ

MAJORS 29

Post Job Summary **Cement Surface Casing**

Prepared for:
Date Prepared: 10/4/2013
Version: 1

Service Supervisor: LAVALLEY, LARRY

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	1,013.00	42.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,021.00	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	5.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	5.00	12.0 bbl	12.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	5.00	385.0 sacks	385.0 sacks

Fluids Pumped

Stage/Plug # 1 Fluid 1: Fresh Water Spacer
DUMMY MUD / FLUSH / SPACER SBC MATERIAL

Fluid Density: 8.33 lbm/gal
Fluid Volume: 10.00 bbl
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 2: Mud Flush
DUMMY MUD / FLUSH / SPACER SBC MATERIAL
42 gal/bbl Mud Flush III
3.5 lbm/bbl Mud Flush III

Fluid Density: 8.40 lbm/gal
Fluid Volume: 12.00 bbl
Pump Rate: 5.00 bbl/min

Stage/Plug # 1 Fluid 3: SwiftCem B2
SWIFTCM (TM) SYSTEM

Fluid Weight: 14.20 lbm/gal
Slurry Yield: 1.55 ft³/sack
Total Mixing Fluid: 7.68 Gal
Surface Volume: 385.0 sacks
Sacks: 385.0 sacks
Calculated Fill: 900.00 ft
Calculated Top of Fluid: 0.00 ft
Pump Rate: 5.00 bbl/min

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
09/29/2013 14:55		Start Job						ARRIVED LOCATION AND DID SITE ASSESSMENT. STILL RUNNING CASING
09/29/2013 14:55		Test Lines					1936.0	FRESH WATER WITH NO ADDITIVES
09/29/2013 14:56		Pump Spacer 1	5	10			24.0	FRESH WATER WITH NO ADDITIVES
09/29/2013 15:00		Pump Spacer 2	5	12			21.0	FRESH WATER WITH MUDFLUSH III ADDED
09/29/2013 15:06		Pump Spacer 1	5	10			22.0	FRESH WATER WITH NO ADDITIVES
09/29/2013 15:10		Pump Lead Cement	5	107			80.0	385 SKS SWIFTCM B2 MIXED @ 14.2 PPG YIELD 1.54 FT3/FT AND 7.66 GAL/SK
09/29/2013 15:31		Shutdown						LOAD PLUG IN CASING DUE TO PUMPING THRU SWADGE NO CEMENT HEAD IN YARD.
09/29/2013 15:36		Drop Top Plug						HWE TOP PLUG
09/29/2013 15:37		Pump Displacement	5	75			397.0	FRESH WATER WITH NO ADDITIVES. CAUGHT CEMENT @ 40 BBLS AWAY AND SPACER RETURNED TO SURFACE @33 BBLS AWAY AND 22 BBLS CEMENT BACK TO SURFACE
09/29/2013 15:53		Bump Plug	3				1502.0	CALCULATED PRESSURE TO LAND WAS 375 AND PRESSURE TO LIFT WAS 410
09/29/2013 16:09		Other					1180.0	FLOATS DID NOT HOLD SHUT IN WELL WITH 1180 PSI
09/29/2013 16:10		End Job						HELD SAFETY MEETING TO RIG DOWN AND DEPART LOCATION

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3107570	Quote #:	Sales Order #: 900767433
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Balkenbush, Bob	
Well Name: Howard		Well #: 15C-33HZ	API/UWI #: 05-123-38033
Field: WATTENBERG	City (SAP): DACONO	County/Parish: Weld	State: Colorado
Lat: N 40.019 deg. OR N 40 deg. 1 min. 9.876 secs.		Long: W 104.891 deg. OR W -105 deg. 6 min. 31.324 secs.	
Contractor: MAJORS		Rig/Platform Name/Num: majors29	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: GREGORY, JON		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 #
BROOM, KENDALL L	0.0	524682	LAVALLEY, LARRY P	0.0	419296	WILEY, JAMES A	0.0	440080

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11488570C	10 mile	11518549	10 mile	11566182	10 mile	11645065	10 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	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	1015. ft	1015. ft				
							Wk Ht Above Floor			
						6. ft				

Job Times

Date	Time	Time Zone
29 - Sep - 2013	01:00	MST
29 - Sep - 2013	05:00	MST
29 - Sep - 2013	14:55	MST
29 - Sep - 2013	16:10	MST
29 - Sep - 2013	17:00	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
13 1/2" Open Hole Section				13.5				.	1021.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1013.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
MILEAGE FOR CEMENTING CREW,ZI	20	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	20	MI		
KIT,HALL WELD-A	1	EA		
CNTRLZR, 9 5/8"x13 3/4',#500-0963-1375	7	EA		
Description	Qty	Qty uom	Depth	Supplier

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	.0	42.0	5.0	
2	Mud Flush		12.00	bbl	8.4	.0	42.0	5.0	
42 gal/bbl		MUD FLUSH III - SBM (528788)							
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	385.0	sacks	14.2	1.55	7.68	5.0	7.68
7.68 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		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					

