

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

3D 36N-21HZ

Majors 41

Post Job Summary

Cement Surface Casing

Date Prepared: 11/4/2013
Version: 1

Service Supervisor: Congdon, Rick

Submitted by: GROVES, COREY

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	1,043.00	41.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,053.00	0.00

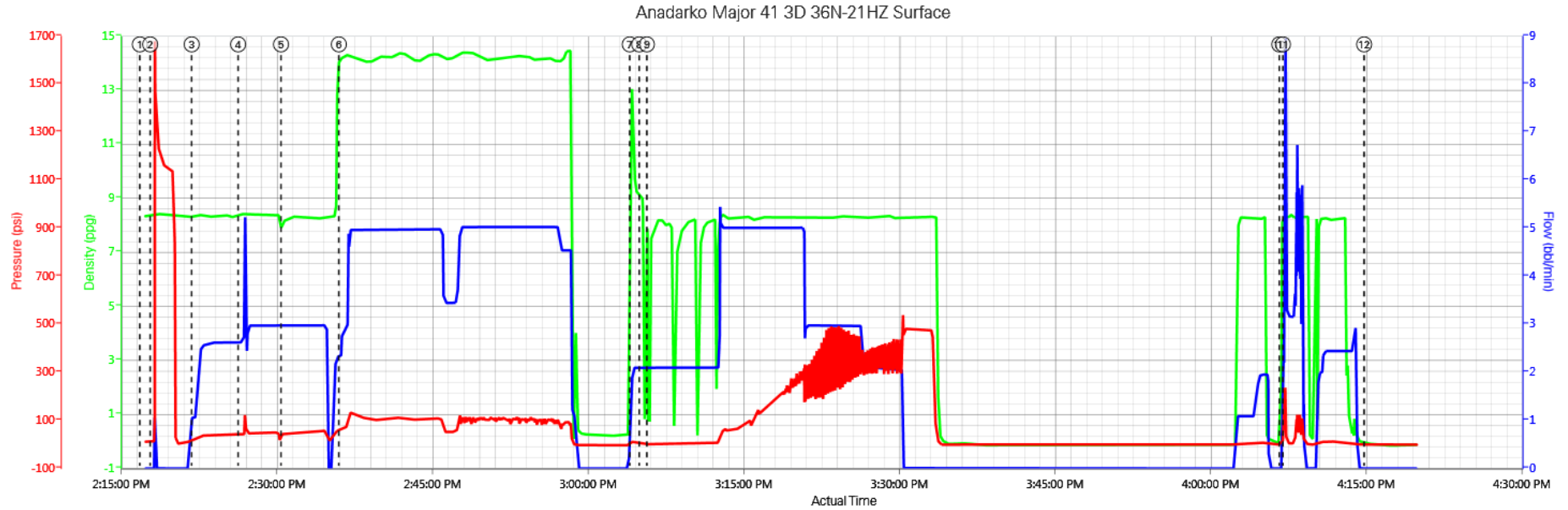
HALLIBURTON

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	3.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.00	12.0 bbl	12.0 bbl
1	3	Spacer	Fresh Water Spacer	8.33	3.00	10.0 bbl	10.0 bbl
1	4	Cement Slurry	SwiftCem B2	14.20	5.00	396.0 sacks	396.0 sacks

HALLIBURTON

Data Acquisition



DH Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi)

- ① Start Job n/a;n/a;n/a
- ② Pump Spacer 1 8.34;0;11.93
- ③ Pump Spacer 1 8.36;1.04;22.24
- ④ Pump Spacer 2 8.33;2.63;41
- ⑤ Pump Spacer 1 8.15;2.97;45.68
- ⑥ Pump Spacer 1 14.16;2.61;73.81
- ⑦ Shutdown 12.61;2.03;19.43
- ⑧ Drop Top Plug 9.02;2.1;5.37
- ⑨ Pump Displacement 0.68;2.1;-0.26
- ⑩ Bump Plug 7.82;0;15.68
- ⑪ Check Floats 8.31;8.95;72.87
- ⑫ End Job -0.07;0;-0.26

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pressure (psig)	Comments
10/30/2013 12:30		Arrive at Location from Service Center				Customer Requested on Location of 1200. Rig Running Casing when we arrived on Location.
10/30/2013 12:35		Assessment Of Location Safety Meeting				Conducted Hazard Hunt with HES personell.
10/30/2013 13:15		Rig-Up Equipment				Rigged up according to Customer and Rig specifications
10/30/2013 14:00		Pre-Job Safety Meeting				Held Pre-job Safety Meeting with all third party personnel
10/30/2013 14:19		Start Job				
10/30/2013 14:22		Test Lines			1140.0	Customer approved. No Visible leaks on surface.
10/30/2013 14:23		Pump Spacer 1	3	10	39.0	Fresh Water Supplied by Frac Tank on Edge of location.
10/30/2013 14:28		Pump Spacer 2	3	12	41.0	40# Mudflush mixed with Fresh Water
10/30/2013 14:33		Pump Spacer 1	3	10	44.0	Fresh Water
10/30/2013 14:38		Pump Cement	5	108	125.0	396 Sacks of 14.2ppg SwiftCem Mixed with Fresh Water. 1.54 Yeild and 7.65 Water requirement
10/30/2013 15:01		Shutdown				
10/30/2013 15:06		Drop Top Plug				Top Plug Preloaded. Witnessed by Driller and R. Congdon.
10/30/2013 15:07		Pump Displacement	5	77.5	289.0	Fresh Water
10/30/2013 15:22		Cement Returns to Surface	3		340.0	Cement returned to surface with 67.5 bbl displacement away.
10/30/2013 15:30		Bump Plug	2		385.0	Plug landed at calculated displacement away.
10/30/2013 15:35		Check Floats			476.0	Floats Held. All Spacers and 10bbl Cement to Surface
10/30/2013 16:00		Rig-Down Equipment				Rigged down partiallly. Customer had not released us, so as to confirm a top out job was not needed.
10/30/2013 16:15		End Job				Customer released HES.
10/30/2013 16:30		Depart Location for Service Center or Other Site				Rig Down Safety Meeting was conducted and Rig-down completed. Held Pre-Journey safety huddle and returned to yard.

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3182343		Quote #:		Sales Order #: 900860710	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Seacrest, Allen			
Well Name: 3D			Well #: 36N-21HZ		API/UWI #: 05-123-38102		
Field: WATTENBERG		City (SAP): FORT LUPTON		County/Parish: Weld		State: Colorado	
Legal Description: Section NENE21 Township 2N Range 66W							
Lat: N 40.13 deg. OR N 40 deg. 7 min. 48.734 secs.				Long: W 104.777 deg. OR W -105 deg. 13 min. 24.071 secs.			
Contractor: Majors			Rig/Platform Name/Num: Majors 41				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: FLING, MATTHEW			Srvc Supervisor: Congdon, Rick			MBU ID Emp #: 320306	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
Congdon, Rick	0.0	320306	Harrah, Thaddeus	0.0	552592	Muller, Mike	0.0	529830
Scillepi, Joe	0.0	555492	Trier, Derek	0.0	546461			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

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

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	30 - Oct - 2013	09:00	MST
Form Type		BHST	Job Started	30 - Oct - 2013	12:30	MST
Job depth MD	1043. ft	Job Depth TVD	1043. ft	Job Started	30 - Oct - 2013	14:19
Water Depth		Wk Ht Above Floor		Job Completed	30 - Oct - 2013	15:36
Perforation Depth (MD)	From	To	Departed Loc	30 - Oct - 2013	16:30	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				.	1053.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	1043.		

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			5.0	
2	Mud Flush		12.00	bbl	8.4			5.0	
	3.33 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
	42 gal/bbl	MUD FLUSH III - SBM (528788)							
3	Fresh Water Spacer		10.00	bbl	8.33			5.0	
4	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	396.0	sacks	14.2	1.53	7.63	5.0	7.63
	7.63 Gal	FRESH WATER							
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	41 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					

