

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

AGGREGATE STATE 15N-16HZ

Majors 42

Post Job Summary **Cement Surface Casing**

Date Prepared: 3/20/2014
Version: 1

Service Supervisor: VIGIL, NICHOLAS

Submitted by: TRIER, DEREK

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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	1,034.00	45.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,034.00	0.00

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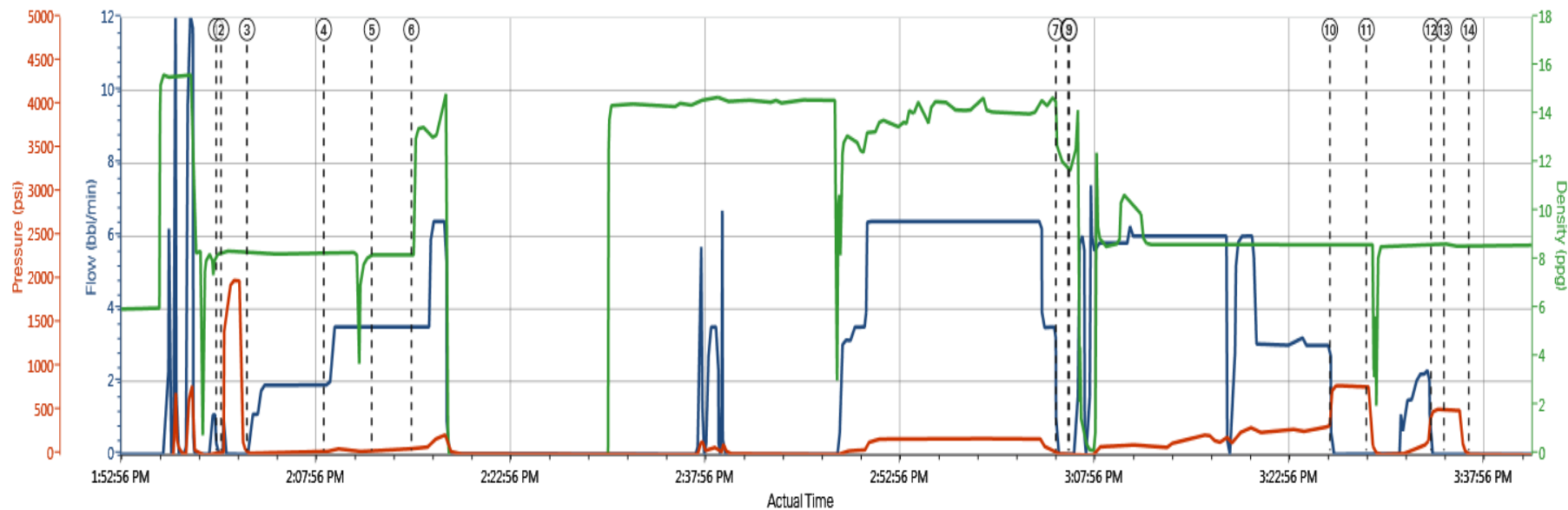
Pumping Schedule

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	10.0bbl
1	2	Spacer	Mud Flush	8.40	3.50	12.0 bbl	12.0bbl
1	1	Spacer	Fresh Water Spacer	8.33	3.50	10.0 bbl	10.0bbl
1	3	Cement Slurry	SwiftCem B2	14.20	6.00	386.0 sacks	386.0 sacks

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Data Acquisition

Anadarko Aggregate State 15N-16HZ



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

① Start Job 0:8.27;13 ④ Mud Flush 1.9;8.31;34 ⑦ Shutdown 0:12.31;10 ⑩ Bump Plug 0:8.6;744 ⑬ Shut in Well 0:8.69;509
 ② Test Lines 0.9;8.32;1382 ⑤ Water Spacer 3.5;8.22;58 ⑧ Drop Top Plug 0:11.7;9 ⑪ Check Floats 0:8.62;779 ⑭ End Job 0:8.61;6
 ③ Water Spacer 0:8.28;8 ⑥ 14.2 ppg SwiftCem 3.5;8.37;64 ⑨ Pump Displacement 0:11.65;9 ⑫ Pressure Up Well 0:8.65;503

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Created: 2014-02-08 12:59:36, Version: 3.0.121

Edit

Customer: ANADARKO PETROLEUM CORP - EBUS

Job Date: 2/8/2014 1:10:07 PM

Well: Aggregate State 15N-16HZ

Representative: Nicholas Vigil

Sales Order #: 901105005

Job Type: 9 5/8 Surface

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Service Supervisor Reports

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
02/08/2014 10:45		Arrive At Loc							
02/08/2014 10:55		Assessment Of Location Safety Meeting							Hazard hunt, Rig up safety meeting, Water test
02/08/2014 11:05		Rig-Up Equipment							We rigged up what we could without getting in the way of the rig operations
02/08/2014 1:09		Rig-Up Completed							Rig had to circulate for a while still
02/08/2014 20:20		Pre-Job Safety Meeting							Held safety meeting with all personnel on location
02/08/2014 20:42		Start Job							
02/08/2014 20:43		Test Lines							Pressure tested lines to 3000 psi
02/08/2014 20:47		Pump Spacer 1	2	10				22.0	Water Spacer
02/08/2014 20:53		Pump Spacer 2	3.5	12				30.0	Mud Flush
02/08/2014 21:01		Pump Spacer 1	3.5	10				30.0	Water Spacer
02/08/2014 21:04		Pump Cement	6.0	102.0				152.0	14.2 ppg SwiftCem (386 sks), weight was verified by scale
02/08/2014 21:25		Shutdown							
02/08/2014 21:27		Drop Top Plug							Plug was pre loaded
02/08/2014 21:27		Pump Displacement	6					120.0	Displaced using fresh water
02/08/2014 21:45		Bump Plug	2	76.7				142.0	Bumped plug 500 psi over final lift bringing our pressure up to 800 psi
02/08/2014 21:49		Check Floats							Floats held
02/08/2014 21:50		End Job							Rig down safety meeting
02/08/2014 22:00		Rig-Down Equipment							
02/08/2014 22:45		Rig-Down Completed							

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3205509		Quote #:		Sales Order #: 901105005					
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Porter, Bob							
Well Name: AGGREGATE STATE		Well #: 15N-16HZ		API/UWI #: 05-123-38329							
Field: WATTENBERG		City (SAP): IONE		County/Parish: Weld		State: Colorado					
Lat: N 40.152 deg. OR N 40 deg. 9 min. 7.2 secs.				Long: W 104.776 deg. OR W -105 deg. 13 min. 26.4 secs.							
Contractor: Majors		Rig/Platform Name/Num: Majors 42									
Job Purpose: Cement Surface Casing											
Well Type: Development Well		Job Type: Cement Surface Casing									
Sales Person: GREGORY, JON		Srvc Supervisor:			MBU ID Emp #:						
Job Personnel											
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #				
Equipment											
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way				
Job				Job Times							
Formation Name				Date		Time	Time Zone				
Formation Depth (MD)		Top	Bottom	Called Out							
Form Type		BHST		On Location							
Job depth MD		1034. ft	Job Depth TVD	1034. ft	Job Started						
Water Depth		Wk Ht Above Floor		Job Completed							
Perforation Depth (MD)		From	To	Departed Loc							
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				.	1034.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1034.		
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						9	EA				
BASKET - CEMENT - 9-5/8 CSG X 12-1/4						1	EA				
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA						1	EA				
Description						Qty	Qty uom	Depth	Supplier		
COLLAR-STOP-9 5/8"-FRICTION-HINGED						2	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		10.0	bbl	8.33			2.0	
2	Mud Flush		12.0	bbl	8.4			3.5	
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
42 gal/bbl		MUD FLUSH III - SBM (528788)							
1	Fresh Water Spacer		10.0	bbl	8.33			3.5	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	386.0	sacks	14.2	1.54	7.66	6.0	7.66
7.66 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 76.7		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		6.0		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					

