

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

AGGREGATE STATE 36N-16HZ

Majors 42

Post Job Summary

Cement Surface Casing

Prepared for:
Date Prepared: 2/16/2014
Version: 1

Service Supervisor: WHIPPLE, WESLEY

Submitted by: FINNEY, SEAN

HALLIBURTON

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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	1,025.00	44.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,035.00	0.00

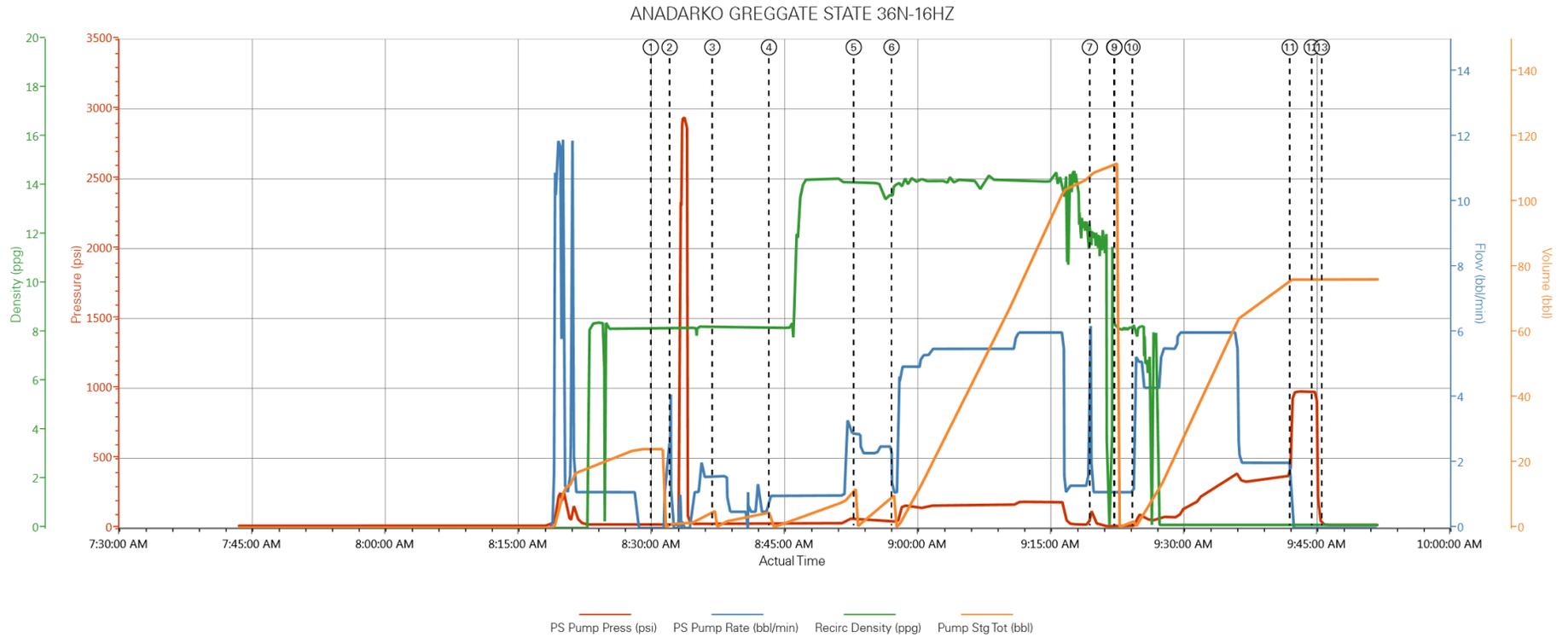
HALLIBURTON

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	0.50	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.00	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	3.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	6.00	386.0 sacks	386.0 sacks

HALLIBURTON

Data Acquisition



- | | | | | |
|------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------|
| ① Start Job 19;0,8.19;24.2 | ④ Pump Spacer 232;1,8.2;0 | ⑦ Shutdown 90;1,1,11.86;108.9 | ⑩ Pump Displacement 22;2,7.95;0 | ⑬ End Job 23.43;0,0.13;76.3 |
| ② Test Lines 34;0,8.15;1.4 | ⑤ Pump Spacer 163;2,9,14,14;0,1 | ⑧ Drop Top Plug 12;1,1,8.24;111.8 | ⑪ Bump Plug 917;0,0.13;76.3 | |
| ③ Pump Spacer 132;1,6,8,18;0 | ⑥ Pump Cement 46;1,1,14,0 | ⑨ Pump Displacement 12;1,1,8.21;0 | ⑫ Other 976;0,0.13;76.3 | |

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
02/01/2014 01:30		Call Out					CREW CALLED OUT BY ARS OFFICE. REQUESTED ON LOCATION @ 0530
02/01/2014 05:00		Crew Leave Yard					CREW PRETRIPPED ALL EQUIPMENT PRIOR TO DEPARTURE, HELD PRE JOURNEY SAFETY MEETING WITH CREW TO DISCUSS ROUTE BEING TRAVELED, POTENTIAL DRIVING HAZARDS, AND WEATHER CONDITIONS. ALL DRIVERS FIT FOR DUTY
02/01/2014 05:30		Arrive At Loc					ARRIVED ON LOCATION, MET WITH COMPANY REP TO DISCUSS JOB DETAILS
02/01/2014 05:50		Rig-Up Equipment					CREW HELD PRE RIG UP SAFETY MEETING TO DISCUSS RIG UP PROCESS AND POTENTIAL RIG UP HAZARDS. RIG UP COMPLETED. RIG LANDED CASING @ 0700
02/01/2014 08:00		Safety Meeting					HELD A PRE JOB SAFETY MEETING WITH ALL HANDS ON LOCATION TO DISCUSS JOB PROCESS, PROCEDURES AND POTENTIAL RISKS THAT COULD OCCUR WHILE CEMENTING.
02/01/2014 08:25		Start Job					
02/01/2014 08:27		Test Lines				3000.0	PRESSURE TEST PUMPS AND LINES TO 3000PSI, FOUND NO LEAKS IN IRON AND PRESSURE HELD.
02/01/2014 08:32		Pump Spacer 1	0.5	10		62.0	PUMP FRESH WATER SPACER
02/01/2014 08:39		Pump Spacer 2	3	12		62.0	MIX AND PUMP MUD FLUSH WITH FRESH WATER
02/01/2014 08:48		Pump Spacer 1	3	10		72.0	PUMP FRESH WATER SPACER
02/01/2014 08:52		Pump Cement	6	105.8		190.0	MIX AND PUMP 386 SKS OF SWIFCEM @ 14.2 PPG. DENSITY VERIFIED BY PRESSURIZED MUD SCALES
02/01/2014 09:19		Shutdown					SHUTDOWN TO WASH UP CEMENT MIXING SYSTEM.
02/01/2014 09:22		Drop Top Plug					DROP TOP PLUG FROM HES PLUG CONTAINER, WITNESSED BY COMPANY REP
02/01/2014 09:24		Pump Displacement	6	79.8		320.0	PUMP FRESH WATER DISPLACEMENT, RECIEVED CEMENT TO SURFACE @62 BBLS AWAY
02/01/2014 09:37		Bump Plug				950.0	BUMP PLUG 500 PSI OVER FINAL PUMPING PRESSURE. HELD PRESSURE @ 950PSI
02/01/2014 09:40		Check Floats				950.0	RELEASE PRESSURE BACK TO PUMP TRUCK, RECIEVED .5BBLS BACK AND FLOATS HELD
02/01/2014 09:41		End Job					COMMENCE RIG DOWN OF ALL EQUIPMENT, WET AND DRY CEMENT SAMPLES WERE LEFT ON LOCATION WITH COMPANY REP

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3275794		Quote #:		Sales Order #: 901087635	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Porter, Bob			
Well Name: AGGREGATE STATE			Well #: 36N-16HZ		API/UWI #: 05-123-38678		
Field: WATTENBERG		City (SAP): IONE		County/Parish: Weld		State: Colorado	
Lat: N 40.152 deg. OR N 40 deg. 9 min. 6.923 secs.				Long: W 104.784 deg. OR W -105 deg. 12 min. 57.467 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: WHIPPLE, WESLEY			MBU ID Emp #: 518611	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
Rodriguez, Israel	5.0	77775	TAUILILI, SAIAIGA	5.0	545471	WHIPPLE, WESLEY Morgan	5.0	518611

Equipment

HES Unit #	Distance-1 way						
10866497C	10 mile	11542778	10 mile	11562570C	10 mile	11605599	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

Job Times

Formation Name	Formation Depth (MD) Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Wk Ht Above Floor	Perforation Depth (MD) From	To	Called Out	Date	Time	Time Zone
			BHST	1025. ft	1025. ft		3. ft			01 - Feb - 2014	01:30	MST	
										01 - Feb - 2014	05:30	MST	
										01 - Feb - 2014	08:25	MST	
										01 - Feb - 2014	09:41	MST	
										01 - Feb - 2014	10:30	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				.	1035.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1025.		

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		
Description	Qty	Qty uom	Depth	Supplier

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			
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		10.00	bbl	8.33			0.5	
2	Mud Flush		12.00	bbl	8.4			3.0	
		3.5 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			3.0	
3	SwiftCem B2	SWIFTCEM (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
Top Of Cement			5 Min			Cement Returns	17.8	Actual Displacement	79.8
Frac Gradient			15 Min			Spacers	32	Load and Breakdown	
								Total Job	
Rates									
Circulating			Mixing			Displacement			Avg. Job
Cement Left In Pipe		Amount	44 ft	Reason	Shoe Joint				
Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 4 @	
The Information Stated Herein Is Correct					Customer Representative Signature				

