

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

Wirkner Vance 34N-1HZ

MAJORS 42

Post Job Summary **Cement Surface Casing**

Date Prepared: 1/22/2014
Version: 1

Service Supervisor: SMITH, AARON

Submitted by: TRIER, DEREK

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	44.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,012.00	0.00

HALLIBURTON

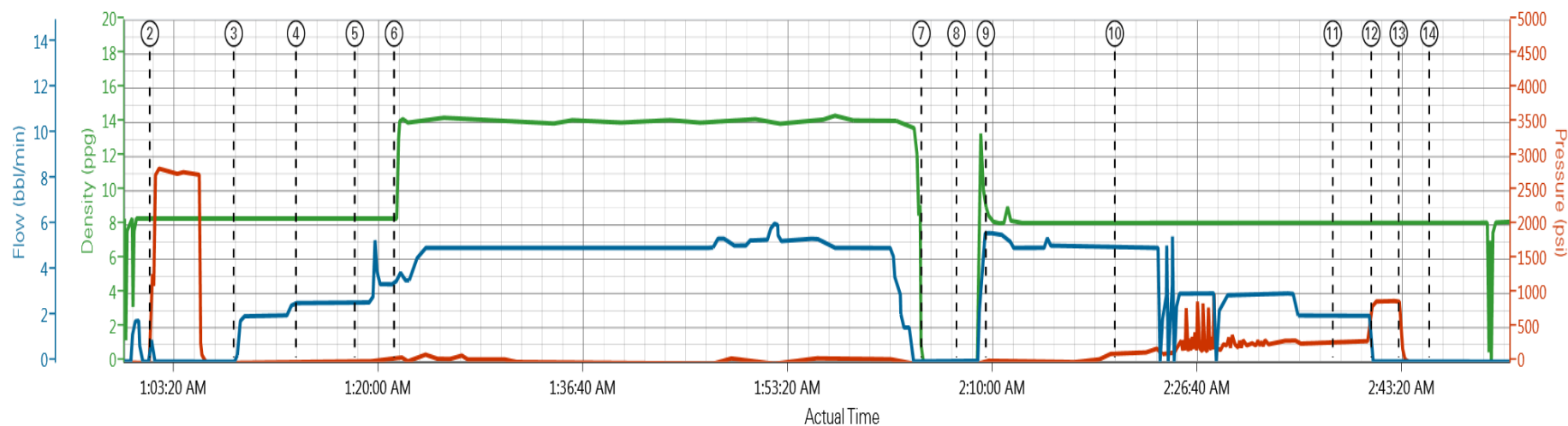
Pumping Schedule

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	1	Spacer	Fresh Water Spacer	8.33	5.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	5.00	382.0 sacks	382.0 sacks

HALLIBURTON

Data Acquisition

Anadarko Petroleum Wirkner Vance 34N-1HZ Surface



DH Density (ppg) 0.11 PS Pump Press (psi) -6 Comb Pump Rate (bbl/min) 1.6

- | | | | | |
|----------------------------|----------------------------|---------------------------------|--|---------------------------|
| ① Start Job 8.31;-8;0 | ④ Pump Spacer 2 8.31;3;2.6 | ⑦ Shutdown -0.29;-33;0 | ⑩ Spacer Returns to Surface 8.13;112;5 | ⑬ Check Floats 8.24;395;0 |
| ② Test Lines 8.35;1239;0 | ⑤ Pump Spacer 1 8.35;6;2.6 | ⑧ Drop Top Plug -0.32;-33;0 | ⑪ Cement Returns to Surface 8.2;284;2 | ⑭ End Job 8.12;-1;0 |
| ③ Pump Spacer 1 8.34;-24;0 | ⑥ Pump Cement 8.38;28;3.7 | ⑨ Pump Displacement 8.54;14;5.7 | ⑫ Bump Plug 8.19;866;0 | |

▼ **HALLIBURTON** | iCem® Service

Created: 2013-10-14 00:24:46, Version: 2.0.606

Edit

Customer: ANADARKO PETROLEUM CORP -
EBUS

Job Date: 10/14/2013 12:32:53 AM

Well: Wirkner Vance 34N-1HZ

Representative: Aaron Smith

Sales Order #: 900820026

Thanks: Aaron Smith and Crew

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
10/13/2013 23:45		Arrive at Location from Service Center							WITH ALL EQUIPMENT AND MATERIALS, RIG HAD TWO JOINTS LEFT WHEN CREW ARRIVED ON LOCATION
10/13/2013 23:50		Assessment Of Location Safety Meeting							
10/14/2013 00:00		Pre-Rig Up Safety Meeting							RIG-UP JSA
10/14/2013 00:05		Casing on Bottom							
10/14/2013 00:05		Circulate Well							
10/14/2013 00:05		Rig-Up Equipment							
10/14/2013 00:30		Rig-Up Completed							
10/14/2013 00:35		Pre-Job Safety Meeting							WITH CUSTOMER REP AND RIG CREW
10/14/2013 00:58		Start Job							
10/14/2013 01:01		Test Lines					2500.0		FRESH WATER WITH NO ADDITIVES
10/14/2013 01:08		Pump Spacer 1	5	10			50.0		FRESH WATER WITH NO ADDITIVES
10/14/2013 01:13		Pump Spacer 2	5	12			50.0		FRESH WATER WITH MUD FLUSH
10/14/2013 01:18		Pump Spacer 1	5	10			50.0		FRESH WATER WITH NO ADDITIVES
10/14/2013 01:21		Pump Cement	5	104			50.0		382 SKS SWIFTCM B1 @ 14.2 PPG 1.55 YIELD, 7.68 GAL/SK.
10/14/2013 02:04		Shutdown							
10/14/2013 02:07		Drop Top Plug							REMOVED QUICK LATCH SWAGE DROPPED TOP PLUG BY HAND VERIFIED BY DRILLER
10/14/2013 02:09		Pump Displacement	5	75			300.0		FRESH WATER WITH NO ADDITIVES
10/14/2013 02:20		Spacer Returns to Surface							@ 38 BBLS DISPLACEMENT, 32 BBLS TO THE PIT
10/14/2013 02:37		Cement Returns to Surface							@ 70 BBLS DISPLACEMENT, 5 BBLS TO THE PIT
10/14/2013 02:41		Bump Plug	2	75			890.0		FINAL CIRCULATING PRESSURE 300, PSI TO LAND 296, PSI TO 434
10/14/2013 02:43		Check Floats							FLOATS HELD, BBLS BACK
10/14/2013 02:45		End Job							RIG DOWN JSA, JOURNEY MANAGMENT MEETING, THANKS AARON SMITH AND CREW
10/14/2013 03:22		Comment							WELL WAS ON A LARGE VACUME THROUGHOUT CEMENT CAUSING TRUCK TO LOSE PRIME SEVERAL TIMES WHILE PUMPING.

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3110494	Quote #:	Sales Order #: 900820026
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Balkenbush, Bob	
Well Name: Wirkner Vance		Well #: 34N-1HZ	API/UWI #: 05-123-37884
Field: Wattenberg	City (SAP): FORT LUPTON	County/Parish: Weld	State: Colorado
Contractor: MAJORS		Rig/Platform Name/Num: MAJORS 42	
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	4.5	518192	GRIFFITHS, ZACHARY Sakae	4.5	551430	SMITH, AARON David	4.5	518187

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11398319	15 mile	11488570C	15 mile	11764739	15 mile	12010173	15 mile

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					13 - Oct - 2013	18:30	MST
Form Type			BHST	On Location	13 - Oct - 2013	23:30	MST
Job depth MD	1012. ft		Job Depth TVD	1012. ft	Job Started	14 - Oct - 2013	00:58
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	14 - Oct - 2013	02:45
Perforation Depth (MD)	From		To		Departed Loc	14 - Oct - 2013	04:00

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				.	1012.		
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 5/8"x13 3/4',#500-0963-1375	7	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		10.00	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)							
1	Fresh Water Spacer		10.00	bbl	8.33			5.0	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	382.0	sacks	14.2	1.54	7.66	5.0	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 5		Actual Displacement 75		Treatment	
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 # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

