

ANADARKO PETROLEUM CORP - EBUS

NRC 27N-8HZ

Majors 29

Post Job Summary
Cement Surface Casing

Date Prepared: 9/24/2015
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: LANSDALE, JUSTIN

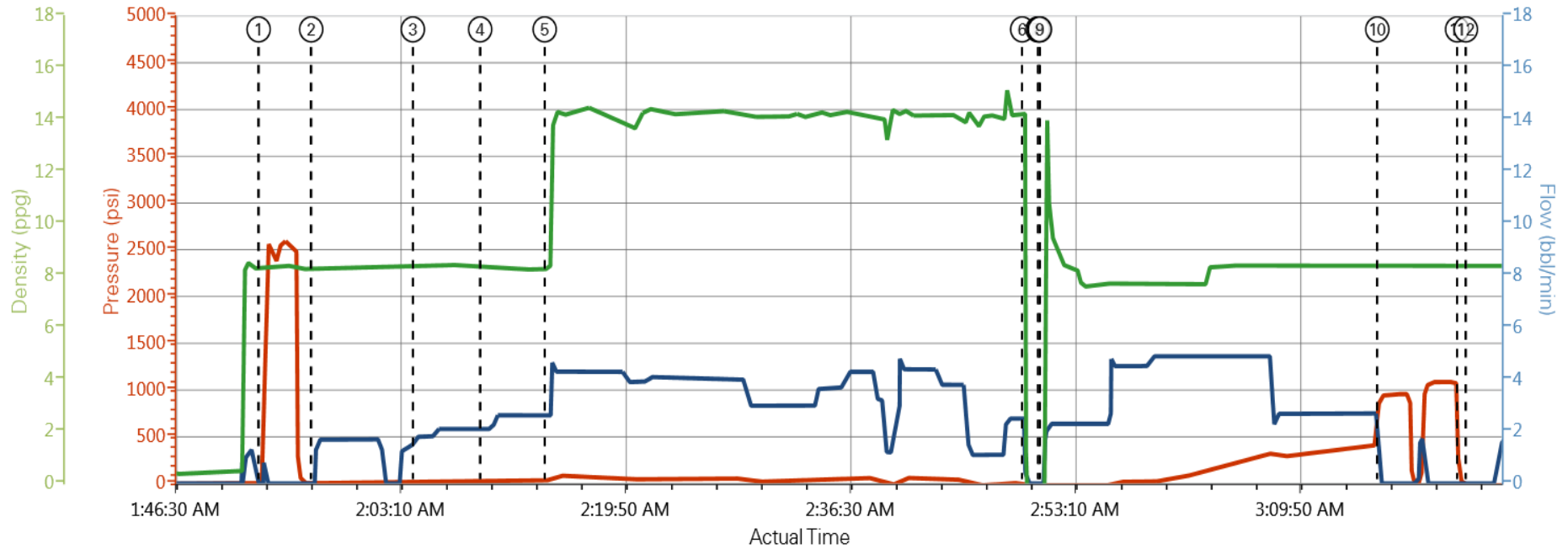
HALLIBURTON

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	2.0	10.0 bbl	10.0 bbl
2	2	Spacer	Mud Flush	8.50	2.0	12.0 bbl	12.0 bbl
3	1	Spacer	Fresh Water Spacer	8.33	2.0	10.0 bbl	10.0 bbl
4	3	Cement Slurry	SwiftCem B2	14.2	4.0	441 sacks	441 sacks

HALLIBURTON

Data Acquisition



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

- ① Test Lines 4;0;8.35 ④ Pump Spacer 1 25;2.1;8.28 ⑦ Clean Lines -21;0;-0.34 ⑩ Bump Plug 931;0;8.4
- ② Pump Spacer 1 -5;0;8.29 ⑤ Pump Lead Cement 35;2.7;8.27 ⑧ Drop Top Plug -21;0;-0.33 ⑪ Check Floats 25;0;8.32
- ③ Pump Spacer 2 18;1.8;8.31 ⑥ Shutdown -8;0;0.59 ⑨ Pump Displacement -21;0;-0.34 ⑫ End Job -21;0;8.42

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
03/30/2014 16:00		Call Out					Called out for Anadarko NRC 26N-8HZ Surface
03/30/2014 17:00		Wait on Orders - Start Time					Company Rep called and delayed location time rig was having problems
03/30/2014 22:20		Pre-Convoy Safety Meeting					Discuss road and weather conditions, fatigue and following distance
03/30/2014 22:30		Depart from Service Center or Other Site					Call journey management, Depart for location
03/30/2014 23:00		Arrive At Loc					Close journey, talk with company rep on volumes, rates, and depth, rig still running casing
03/30/2014 23:10		Pre-Rig Up Safety Meeting					Discussed rig up, line of fire, slips, and pinch points
03/30/2014 23:15		Rig-Up Equipment					Rig up ground line, and suction hoses
03/31/2014 00:00		Wait on Customer or Customer Sub-Contractor Equip					Wait for rig crew to finish running casing
03/31/2014 00:30		Casing on Bottom					Casing on bottom rig will circulate until HES is rigged up
03/31/2014 01:30		Pre-Job Safety Meeting					Discuss pump schedule, procedure, high pressure iron, and emergency plan
03/31/2014 01:45		Other					Stop circulating, rigged up cement head and tied into stand pipe
03/31/2014 01:50		Other					filled lines to pressure test pump and lines
03/31/2014 01:53		Pressure Test				2760.0	Pressure test pump and lines to 2760 psi held for 2 minutes
03/31/2014 01:56		Pump Spacer	2	10		17.0	Pump 10 bbls Fresh Water Spacer
03/31/2014 02:04		Pump Spacer 1	2	12		28.0	Pump 12 bbls Mud Flush III Spacer
03/31/2014 02:09		Pump Spacer 2	2	10		32.0	Pump 10 bbls Fresh Water Spacer
03/31/2014 02:14		Pump Lead Cement	4	120		80.0	Pump cement at 14.2 ppg Y: 1.54ft ³ /sk W: 7.64gal/sk (441sks)
03/31/2014 02:48		Shutdown					Shutdown to drop top plug
03/31/2014 02:50		Drop Top Plug					Dropped top plug, washed pump and lines on plug
03/31/2014 02:50		Pump Displacement - Start	2				Pump displacement 92.6 bbls water
03/31/2014 02:54		Returns To Surface	2.5	5		10.0	Returns seen at surface with 20 bbls displacement away
03/31/2014 03:01		Displ Reached Cmnt	5	40		90.0	displacement reached cement with 45 bbls away
03/31/2014 03:02		Spacer Returns to Surface	5	46		98.0	With 51 bbls displacement away spacer returns to surface (32 bbls)
03/31/2014 03:10		Cement Returns to Surface	5	78		354.0	With 83 bbls displacement away cement returns to surface (9 bbls)
03/31/2014 03:16		Bump Plug	3	91		420.0	Bumped plug with 91 bbls with 420 psi took pressure to 956 psi held for 2 minutes released pressure
03/31/2014 03:19		Pressure Up				1060.0	Pressured back up to 1060 psi and hold for 2 minutes
03/31/2014 03:21		Check Floats					Checked floats, floats held with 1 bbls back to truck
03/31/2014 03:21		Release Casing Pressure					Released pressure ready for rig down
03/31/2014 03:25		Pre-Rig Down Safety Meeting					Discussed trapped pressure, slips, trips, falls, and overhead loads
03/31/2014 03:30		Rig-Down Equipment					Begin rigging down all iron and suction hoses
03/31/2014 04:15		Pre-Convoy Safety Meeting					Discussed fatigue, wildlife, weather, and journey management
03/31/2014 04:20		Depart Location for Service Center or Other Site					Depart for Halliburton Service Center

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 300466		Quote #:		Sales Order #: 901231733	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Case, Randy			
Well Name: NRC			Well #: 27N-8HZ		API/UWI #: 05-123-39096		
Field:		City (SAP): THE WOODLANDS		County/Parish: Weld		State: Colorado	
Contractor: Majors			Rig/Platform Name/Num: Majors 29				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: GREGORY, JON			Srvc Supervisor: BIRCHELL, DEVIN			MBU ID Emp #: 466993	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BIRCHELL, DEVIN Ray	0.0	466993	MILLER, GEOFFREY Alan	0.0	460232	MYRE, JAMES	0.0	549859

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248053C	30 mile	10982754C	30 mile	11341988C	30 mile	11527037	30 mile
12010171	30 mile						

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	30 - Mar - 2014	16:00 MST
Form Type	BHST			On Location	30 - Mar - 2014	23:00 MST
Job depth MD	1224. ft	Job Depth TVD	1224. ft	Job Started	31 - Mar - 2014	01:53 MST
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	31 - Mar - 2014	03:21 MST
Perforation Depth (MD)	From	To		Departed Loc	31 - Mar - 2014	04:20 MST

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		10.0	bbl	8.33			2.0	
1	Mud Flush		12.0	bbl	8.5			2.0	
1	Fresh Water		10.0	bbl	8.33			2.0	
2	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)	441	sacks	14.2	1.54	7.64	4.0	7.64
7.64 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		9.0	Actual Displacement	92.6	Treatment
Frac Gradient		15 Min		Spacers		32.0	Load and Breakdown	Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount	0 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					

