

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

Lansdown State 29N-21HZ

Majors 42

Post Job Summary **Cement Surface Casing**

Date Prepared: 4/2/2014
Version: 1

Service Supervisor: WHIPPLE, WESLEY

Submitted by: TRIER, DEREK

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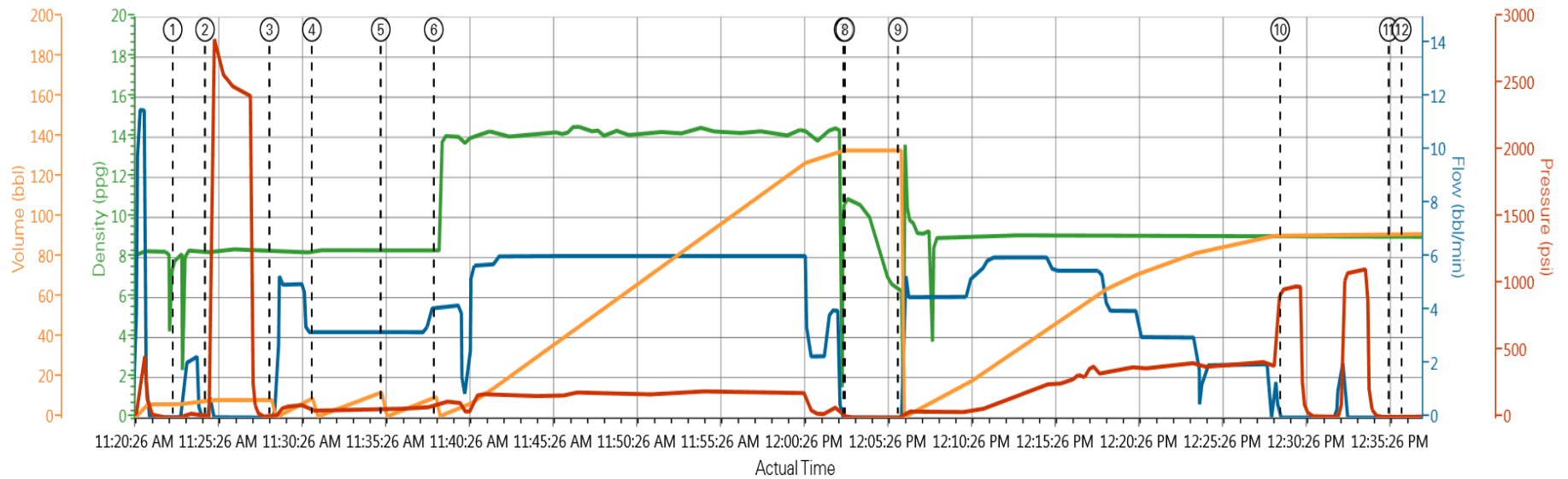
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water	8.33	3.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.50	3.00	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water	8.33	4.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	6.00	480.0 sacks	480.0 sacks

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Data Acquisition

Anadarko Lansdown State 29N-21HZ Surface



DH Density (ppg) 9.03 Comb Pump Rate (bbl/min) 0 Pump Stg Tot (bbl) 91.7 PS Pump Press (psi) 8

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|----------------------------|-------------------------------------|-------------------------------------|---------------------------|
| ① Start Job 786;0;6.7;-1 | ④ Pump Spacer 2 8.31;3.2;0.1;52 | ⑦ Shutdown 10.9;0;133.4;6 | ⑩ Bump Plug 9.05;0;91.962 |
| ② Test Lines 8.24;0;8.7;8 | ⑤ Pump Spacer 1 8.3;3.2;0.1;65 | ⑧ Drop Top Plug 10.89;0;133.4;3 | ⑪ Other 9.05;0;91.7;5 |
| ③ Pump Spacer 1 8.33;0;0;6 | ⑥ Pump Lead Cement 8.37;4.1;10.5;92 | ⑨ Pump Displacement 6.33;0;133.4;-1 | ⑫ End Job 9.03;0;91.7;7 |

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Created: 2014-03-26 10:35:28, Version: 3.0.121

Edit

Customer: ANADARKO PETROLEUM CORP -
EBUS

Job Date: 3/26/2014 10:46:50 AM

Well: Lansdown State 29N-21HZ

Representative: W.Whipple/ K.Broom

Sales Order #: 901211392

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)		Comments
03/26/2014 05:30		Call Out							Crew called out by ARS office and requested on location at 1100.
03/26/2014 10:00		Crew Leave Yard							Crew pre-tripped all equipment prior to departure to ensure working quality. Held a pre-journey safety meeting to discuss route being traveled, weather conditions and potential driving hazards. All drivers fit for duty.
03/26/2014 10:10		Arrive At Loc							Crew arrived on location and met with company rep
03/26/2014 10:15		Rig-Up Equipment							Crew performed site assessment and hazard hunt. Commenced rig-up of all equipment.
03/26/2014 10:20		Casing on Bottom							Rig landed casing on bottom and began circulating
03/26/2014 11:00		Rig-Up Completed							Rig-up of all equipment completed
03/26/2014 11:10		Safety Meeting							Held a pre job safety meeting with all hands on location to discuss job process, procedures and potential dangers that could occur while pumping.
03/26/2014 11:27		Start Job							Start Job
03/26/2014 11:29		Test Lines						2500.0	Pressure test pumps and lines to 2500 psi. Found no leaks in iron and pressure held.
03/26/2014 11:33		Pump Spacer 1	3	10				53.0	Pump Fresh Water spacer
03/26/2014 11:35		Pump Spacer 2	3	12				65.0	Pump Mud Flush Spacer
03/26/2014 11:39		Pump Spacer 1	4	10				100.0	Pump Fresh Water Spacer
03/26/2014 11:43		Pump Cement	6	131.65				190.0	Mix and Pump 480 sks of SwiftCem @ 14.2 ppg. Density verified by pressurized mud scales.
03/26/2014 11:58		Shutdown							Shut down to wash out Cement Mixing System
03/26/2014 11:59		Drop Top Plug							Drop top plug from HES plug container. Witnessed by Company Rep
03/26/2014 12:02		Pump Displacement	5.5	91.34				270.0	Pump Fresh Water Displacement. Received Cement 70bbls into displacement for a total of 23bbls of cement returns
03/26/2014 12:24		Bump Plug						900.0	Bump plug 500psi over final pumping pressure.
03/26/2014 12:31		Check Floats							Released pressure back to pump truck. Floats held and received 1.5bbls back
03/26/2014 12:32		End Job							End Job
03/26/2014 12:40		Rig-Down Equipment							Crew held rig-down safety meeting to discuss rig-down process and safety. Commenced rig-down of all equipment
03/26/2014 13:30		Crew Leave Location							Crew held a pre-journey safety meeting to discuss route being traveled, weather conditions and potential driving hazards. All drivers fit for duty.

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3360548	Quote #:	Sales Order #: 901211392
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Hersch, Larry	
Well Name: Lansdown State		Well #: 29N-21HZ	API/UWI #: 05-123-39044
Field:	City (SAP): IONE	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: 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 #
BROOM, KENDALL L	3.3	524682	MASTEL, RYAN Eugene	3.3	561732	Peterson, Tyler	3.3	561807
VIATOR, JASON R.	3.3	550394	WHIPPLE, WESLEY Morgan	3.3	518611			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11036298	8 mile	11605599	8 mile	11808819	8 mile	11812069C	8 mile
11923776C	8 mile						

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	26 - Mar - 2014	05:30 MST
Form Type	BHST			On Location	26 - Mar - 2014	10:10 MST
Job depth MD	12332. ft	Job Depth TVD	1232. ft	Job Started	26 - Mar - 2014	11:27 MST
Water Depth		Wk Ht Above Floor	5. ft	Job Completed	26 - Mar - 2014	12:32 MST
Perforation Depth (MD)	From	To		Departed Loc	26 - Mar - 2014	13:30 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
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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		10.00	Bbl	8.33			3.0	
1	Mud Flush		12.00	bbl	8.5			3.0	
	3.33 lbm/bbl	MUD FLUSH III, 40 LB SACK (101633304)							
	0 gal/bbl	FRESH WATER							
1	Fresh Water		10.00	Bbl	8.33			4.0	
2	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	480.0	sacks	14.2	1.54	7.64	6.0	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	23	Actual Displacement	91.34	Treatment	
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	

Rates											
Circulating		Mixing		Displacement	5.5	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							

