

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

NRC 4N-4HZ

Majors 42

Post Job Summary **Cement Surface Casing**

Date Prepared: 5/29/2014
Version: 1

Service Supervisor: FANTASIA, JOSEPH

Submitted by: PRUDHOMME, JOSHUA

HALLIBURTON

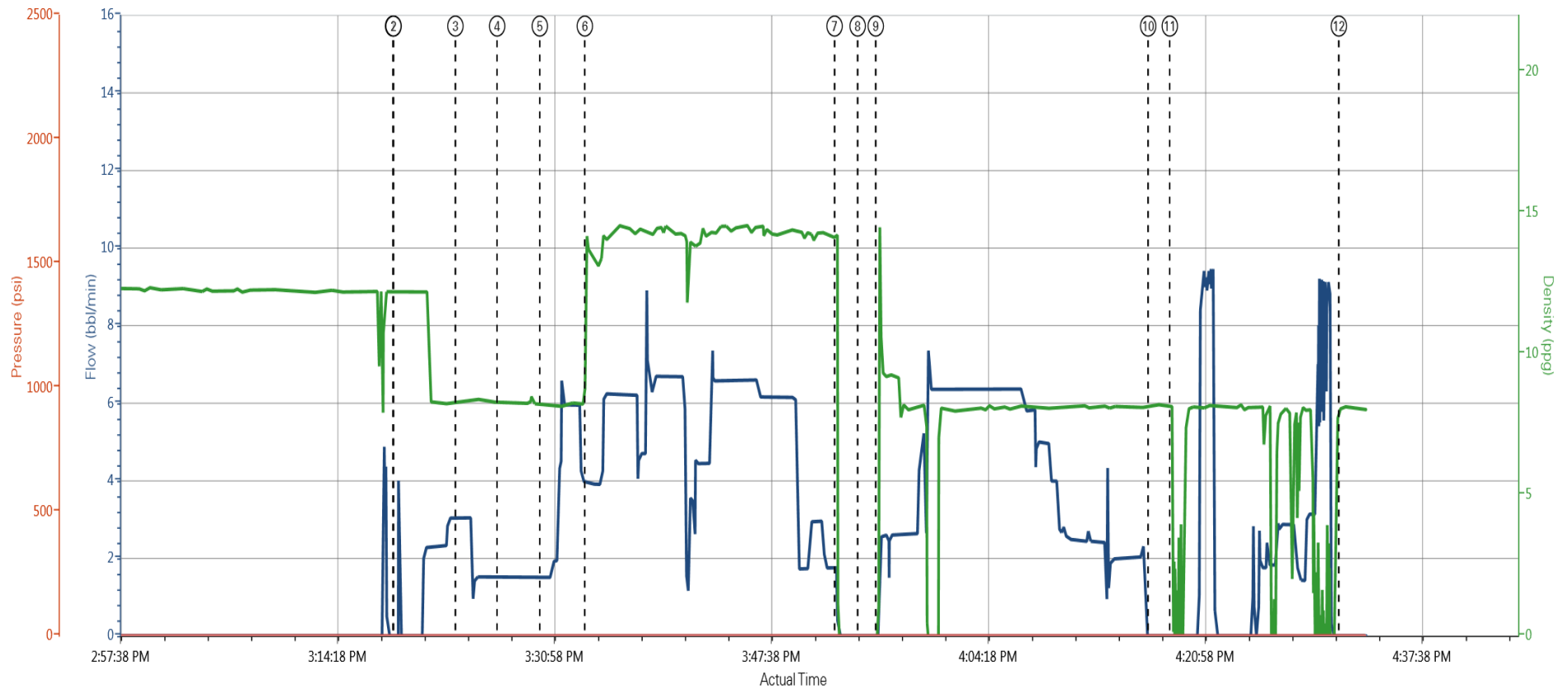
Pumping Schedule

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
1	2	Spacer	Mud Flush	8.40	1.5	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	4.0	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	5.5	383.0 sacks	383.0 sacks

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Data Acquisition

ANADARKO NRC 4N-4HZ SURFACE



① Start Job 0;12.17;0;-0.05 ④ Pump Mudflush 1.55;8.33;0;-0.05 ⑦ Shutdown 1.65;14.22;0;-0.05 ⑩ Bump Plug 0;8.19;0;-0.05
 ② Test Lines 0;12.22;0;-0.05 ⑤ Pump Water 1.5;8.29;0;-0.05 ⑧ Drop Top Plug 0;-0.5;0;-0.05 ⑪ Check Floats 0;6.49;0;-0.05
 ③ Pump Water 3.05;8.33;0;-0.05 ⑥ Pump Cement 4;13.82;0;-0.05 ⑨ Pump Displacement 0;-0.38;0;-0.05 ⑫ End Job 0;8.07;0;-0.05

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Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
02/11/2014 13:00		Arrive at Location from Service Center						REQUESTED ON LOCATION @ 1100. CEMENTER AND PUMP ARRIVE AT LOCATION @ 1300. RIG RUNNING CASING APPROX 3 JOINTS TO GO WHEN ARRIVING. NOTIFY CUSTOMER BULK PLANT WAS LOADING CEMENT SHOULD ARRIVE AROUND 1500.
02/11/2014 13:15		Assessment Of Location Safety Meeting						CASING ON BOTTOM @ 1400. PERFORM SITE ASSESSMENT AND HAZARD HUNT WITH CREW PRIOR TO SPOTTING EQUIPMENT AND1 RIGGING UP. RIG UP IRON @ 1345 FINISH @ 1415. BULK TRUCK ARRIVED @ 1500.
02/11/2014 15:18		Start Job						PERFROM PRE-JOB SAFETY MEETING WITH ALL PRESENT PERSONELL PRIOR TO JOB
02/11/2014 15:19		Test Lines					2020.0	PRESSURE TEST LINES TO 2000 PSI
02/11/2014 15:23		Pump Spacer 1	2.0	10			150.0	PUMP 10 BBLS WATER
02/11/2014 15:26		Pump Spacer 2	1.5	12			200.0	PUMP 12 BBLS MUDFLUSH
02/11/2014 15:30		Pump Spacer 1	4.0	10			210.0	PUMP 10 BBLS WATER
02/11/2014 15:33		Pump Cement	5.5	105			150.0	383 SKS SWIFTCCEM MIXED AT 14.2 PPG USING RIG WATER
02/11/2014 15:52		Shutdown						
02/11/2014 15:55		Drop Top Plug						PLUG PRELOADED
02/11/2014 15:55		Pump Displacement	6	79			400.0	GOOD RETURNS THROUGHOUT. CEMENT TO SURFACE AT 60 BBLS INTO 79 BBLS DISPLACEMENT. APPROX 19 BBLS TO SURFACE.
02/11/2014 16:16		Bump Plug	3				440.0	PLUG LANDED AT 440 PSI. PRESSURE ROUGHT TO 800 PSIAND HELD 2 MIN.
02/11/2014 16:18		Check Floats						FLOATS HELD. 1 BBL BACK.
02/11/2014 16:30		End Job						PERFROM PRE RIG DOWN SAFETY MEETING

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3274233		Quote #:		Sales Order #: 901110025	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Porter, Bob			
Well Name: NRC			Well #: 4N-4HZ		API/UWI #:		
Field: WATTENBERG		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			Srv Supervisor: FANTASIA, JOSEPH			MBU ID Emp #: 485445	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FANTASIA, JOSEPH Brandon	3.0	485445	MARKOVICH, STEVEN Michael	3.0	502964	TAMEZ, ENRIQUE	3.0	1

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10866497C	20 mile	11562570C	20 mile				

Job**Job Times**

Formation Name					Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	11 - Feb - 2014	07:00 MST
Form Type		BHST			On Location	11 - Feb - 2014	14:00 MST
Job depth MD	1060. ft	Job Depth TVD	1060. ft		Job Started	11 - Feb - 2014	15:00 MST
Water Depth		Wk Ht Above Floor			Job Completed	11 - Feb - 2014	16:30 MST
Perforation Depth (MD)	From		To		Departed Loc	11 - Feb - 2014	17:00 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 Spacer		10.00	bbl	8.33			2.0	
2	Mud Flush		12.00	bbl	8.4			1.5	
1	Fresh Water Spacer		10.00	bbl	8.33			4.0	
3	SwiftCem B2	SWIFTCem (TM) SYSTEM (452990)	383.0	sacks	14.2	1.54	7.66	5.5	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		19.0		Actual Displacement 79.0	
Frac Gradient		15 Min		Spacers		32.0		Load and Breakdown	
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					

