

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

KERBS 32C-14HZ

Majors 29

Post Job Summary **Cement Surface Casing**

Date Prepared: 2/20/2014
Version: 1

Service Supervisor: PORTER, MICHAEL

Submitted by: PRUDHOMME, JOSHUA

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	1,069.52	39.88
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,080.00	0.00

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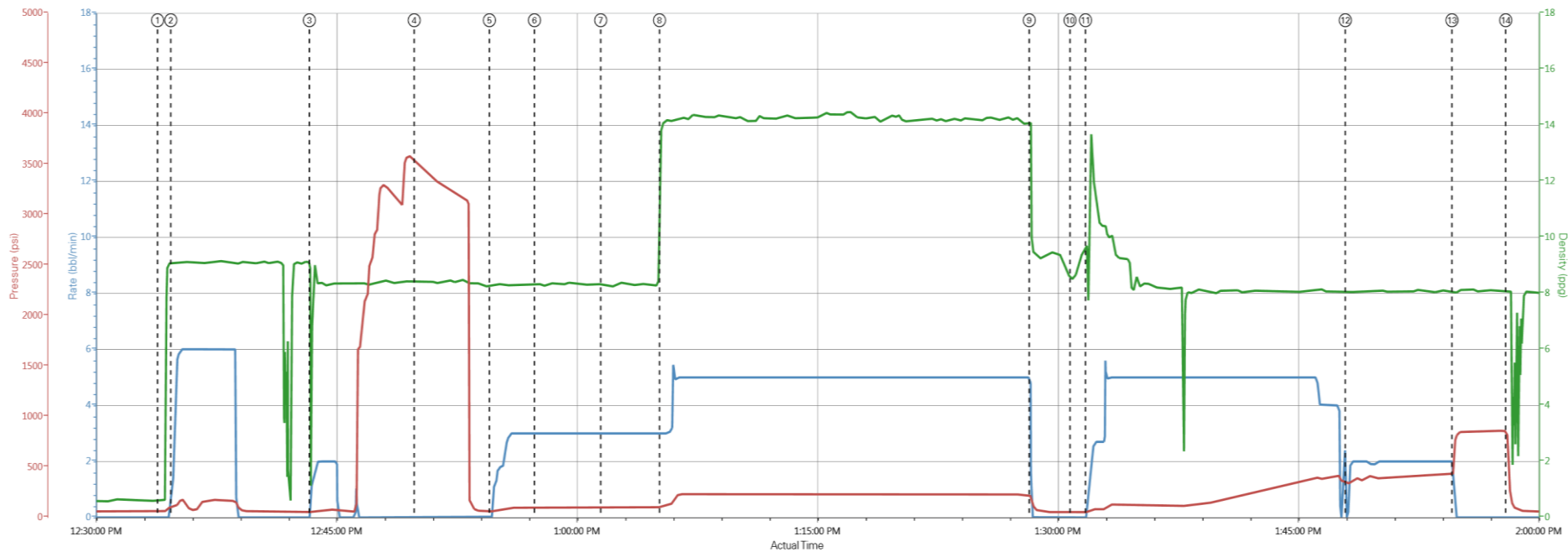
Pumping Schedule

Stage /Plug #	Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Avg Rate bbl/min	Surface Volume	Downhole Volume
1	1	Spacer	Fresh Water Spacer	8.33	3.0	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	3.0	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	3.0	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.2	5.0	423.0 sacks	423.0 sacks

HALLIBURTON

Data Acquisition

Anadarko Surface Kerbs 32C-14HZ



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

① Start Job 0,0,61,59 ⑤ Pump Water 0,8,3,60 ⑨ Shutdown 0,11,08,176 ⑬ Bump Plug 2,8,04,631
 ② Prime Pumps 1,1,9,1,103 ⑥ Pump Mud Flush 3,8,3,98 ⑩ Drop Plug 0,8,49,53 ⑭ Check Floats 0,8,11,766
 ③ Fill Lines 1,2,2,19,55 ⑦ Pump Water 3,8,29,99 ⑪ Pump Displacement 0,9,75,53
 ④ Test Lines 0,8,45,3528 ⑧ Pump Lead Cement 3,14,02,109 ⑫ Slow Rate 0,8,07,334

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Created: 2014-02-04 08:30:58, Version: 3.0.121

Edit

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump		Pressure (psig)	Comments
02/04/2014 07:00		Call Out						CALL OUT HES CREW, REQUESTED ON LOCATION AT 11:00
02/04/2014 09:30		Pre-Convoy Safety Meeting						PRE CONVOY SAFETY MEETING TO DISCUSS DIRECTIONS TO LOCATION AND HAZARDS OF DRIVING
02/04/2014 09:45		Depart from Service Center or Other Site						DEPART FOR LOCATION
02/04/2014 10:15		Arrive At Loc						ARRIVE AT LOCATION, RIG RUNNING CASING
02/04/2014 10:25		Assessment Of Location Safety Meeting						SITE ASSESSMENT SAFETY HUDDLE TO DISCUSS HAZARDS ON LOCATION AND WHERE TO SPOT EQUIPMENT
02/04/2014 10:35		Pre-Rig Up Safety Meeting						PRE RIG UP SAFETY MEETING TO DISCUSS HAZARDS OF RIGGING UP
02/04/2014 10:45		Rig-Up Equipment						RIG UP EQUIPMENT
02/04/2014 10:45		Casing on Bottom						CASING ON BOTTOM, RIG BEGNS CIRCULATING
02/04/2014 11:45		Rig-Up Completed						FINISHED RIGGING UP EQUIPMENT
02/04/2014 12:00		Pre-Job Safety Meeting						PRE JOB SAFETY MEETING WITH RIG CREW AND HES CREW TO DISCUSS JOB PROCEDURE, PRESSURE TESTING PROCEDURE AND HAZARDS DURING THE JOB
02/04/2014 12:34		Prime Pumps						PRIME PUMPS
02/04/2014 12:41		Other	3	3			75.0	FILL LINES WITH WATER FOR PRESSURE TEST
02/04/2014 12:49		Pressure Test						PRESSURE TEST HES IRON TO 3300 PSI
02/04/2014 12:53		Pump Water	3	7			98.0	PUMP WATER
02/04/2014 12:57		Pump Spacer	3	12			99.0	PUMP MUD FLUSH
02/04/2014 13:01		Pump Water	3	10			109.0	PUMP WATER
02/04/2014 13:04		Pump Cement	5	116			230.0	PUMP CEMENT, 423 SACKS, 14.2 PPG, 1.54 YIELD, 7.66 WATER REQ
02/04/2014 13:28		Shutdown						SHUTDOWN TO DROP TOP PLUG
02/04/2014 13:30		Drop Plug						DROP PLUG
02/04/2014 13:31		Pump Displacement	5	60			430.0	PUMP WATER DISPLACEMENT, TOTAL DISPLACEMENT 80 BBLS, 15 BBLS CEMENT TO SURFACE
02/04/2014 13:48		Slow Rate	2	20			415.0	SLOW RATE TO KEEP PRESSURE BELOW PSI TO LIFT PIPE
02/04/2014 13:54		Bump Plug					846.0	BUMP PLUG, FINAL CIRCULATING PRESSURE 415 PSI
02/04/2014 13:58		Check Floats						CHECK FLOATS, GOT 1 BBL BACK TO THE TRUCK
02/04/2014 14:00		Pre-Rig Down Safety Meeting						PRE RIG DOWN SAFETY MEETING TO DISCUSS HAZARDS OF RIGGING DOWN EQUIPMENT
02/04/2014 14:15		Rig-Down Equipment						RIG DOWN EQUIPMENT
02/04/2014 15:15		Rig-Down Completed						FINISHED RIGGING DOWN EQUIPMENT
02/04/2014 15:20		Pre-Convoy Safety Meeting						PRE CONVOY SAFETY MEETING TO DISCUSS DIRECTIONS AND HAZARDS OF DRIVING
02/04/2014 15:30		Depart Location for Service Center or Other Site						HES CREW DEPARTS LOCATION

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3206300	Quote #:	Sales Order #: 901088473
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Case, Randy	
Well Name: KERBS		Well #: 32C-14HZ	API/UWI #: 05-123-38184
Field: WATTENBERG	City (SAP): PLATTEVILLE	County/Parish: Weld	State: Colorado
Lat: N 40.228 deg. OR N 40 deg. 13 min. 42.344 secs.		Long: W 104.943 deg. OR W -105 deg. 3 min. 26.075 secs.	
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: PORTER, MICHAEL	MBU ID Emp #: 491145

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEY, JERRY A	5.0	505015	LAWTON, SCOTT C	6.5	482816	PORTER, MICHAEL James	5.0	491145
STIELER, KENT	5.0	554541						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10951248	20 mile	11064046	20 mile	11501021	20 mile	11808819	20 mile
NA	20 mile						

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom	Called Out	04 - Feb - 2014	07:00 MST
Form Type	BHST			On Location	04 - Feb - 2014	10:15 MST
Job depth MD	1079. ft			Job Started	04 - Feb - 2014	12:40 MST
Water Depth	Wk Ht Above Floor 5. ft			Job Completed	04 - Feb - 2014	13:58 MST
Perforation Depth (MD)	From		To	Departed Loc	04 - Feb - 2014	15:30 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				.	1080.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1069.5		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	2	EA		
Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4	1	EA		
CNTRLZR, 9 5/8"x13 3/4',#500-0963-1375	7	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		10.0	bbl	8.33			3.0	
2	Mud Flush		12.0	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		10.0	bbl	8.33			3.0	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	423	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 15.0		Actual Displacement 80.0		Treatment	
Frac Gradient		15 Min		Spacers 32.0		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe		Amount	39.88 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					

