

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

KERBS 31N-14HZ

Majors 29

Post Job Summary **Cement Surface Casing**

Date Prepared: 2/23/2014
Version: 1

Service Supervisor: SMITH, AARON

Submitted by: TRIER, DEREK

HALLIBURTON

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	1,075.00	45.00
Open Hole Section	13 1/2" Open Hole Section		13.500		0.00	1,075.00	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	4.00	10.0 bbl	10.0 bbl
1	2	Spacer	Mud Flush	8.40	4.00	12.0 bbl	12.0 bbl
1	1	Spacer	Fresh Water Spacer	8.33	4.00	10.0 bbl	10.0 bbl
1	3	Cement Slurry	SwiftCem B2	14.20	5.00	405.0 sacks	405.0 sacks

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
01/31/2014 13:00		Arrive at Location from Service Center					WITH ALL EQUIPMENT AND MATERIALS,
01/31/2014 13:15		Assessment Of Location Safety Meeting					
01/31/2014 13:30		Pre-Rig Up Safety Meeting					RIG-UP JSA
01/31/2014 13:35		Rig-Up Equipment					
01/31/2014 13:50		Rig-Up Completed					
01/31/2014 15:00		Casing on Bottom					
01/31/2014 15:00		Circulate Well					
01/31/2014 16:00		Pre-Job Safety Meeting					WITH CUSTOMER REP AND RIG CREW
01/31/2014 16:48		Start Job					
01/31/2014 16:50		Test Lines					FRESH WATER WITH NO ADDITIVES
01/31/2014 16:56		Pump Spacer 1	4	10		120.0	FRESH WATER WITH NO ADDITIVES
01/31/2014 16:59		Pump Spacer 2	4	12		120.0	FRESH WATER WITH MUD FLUSH
01/31/2014 17:02		Pump Spacer 1	4	10		95.0	FRESH WATER WITH NO ADDITIVES
01/31/2014 17:04		Pump Cement	5	111		90.0	405 SKS SWIFTCM B1 @ 14.2 PPG 1.55 YIELD, 7.68 GAL/SK
01/31/2014 17:26		Shutdown					
01/31/2014 17:29		Drop Top Plug					PRE-LOADED HWE TOP PLUG IN PLUG CONTAINER VERIFIED BY CUSTOMER REP
01/31/2014 17:30		Pump Displacement	5	79		396.0	FRESH WATER WITH NO ADDITIVES SLOWED DOWN LAST 20 BBLS
01/31/2014 17:38		Spacer Returns to Surface					@46 BBLS DISPLACEMENT, 32 BBLS TO THE PIT
01/31/2014 17:45		Bump Plug	3			1055.0	FINAL CIRCULATING PRESSURE 396, PSI TO LAND 344, 464 PSI TO LIFT,
01/31/2014 17:46		Cement Returns to Surface					@78 BBLS DISPLACEMENT, 1 BBLS TO THE PIT
01/31/2014 17:50		Check Floats					FLOATS HELD, BBLS BACK
01/31/2014 17:55		End Job					RIG DOWN JSA, JOURNEY MANAGMENT MEETING, THANKS AARON SMITH AND CREW

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3206914	Quote #:	Sales Order #: 901077524
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Case, Randy	
Well Name: KERBS		Well #: 31N-14HZ	API/UWI #: 05-123-38399
Field: WATTENBERG	City (SAP): MEAD	County/Parish: Weld	State: Colorado
Lat: N 40.231 deg. OR N 40 deg. 13 min. 51.946 secs.		Long: W 104.944 deg. OR W -105 deg. 3 min. 21.722 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: 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	6.5	518192	GRIFFITHS, ZACHARY Sakae	6.5	551430	ROOD, TRAVIS James	6.5	561971
SMITH, AARON David	6.5	518187	TOWNSON, JUSTIN T	6.5	555407			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10824253C	20 mile	11106651	20 mile	11360865C	20 mile	11764054C	20 mile
12010173	20 mile						

Job

Formation Name								
Formation Depth (MD)	Top	Bottom			Called Out	Date	Time	Time Zone
Form Type			BHST		On Location	31 - Jan - 2014	10:00	MST
Job depth MD	1075. ft		Job Depth TVD	1075. ft	Job Started	31 - Jan - 2014	16:44	MST
Water Depth			Wk Ht Above Floor		Job Completed	31 - Jan - 2014	17:55	MST
Perforation Depth (MD)	From	To			Departed Loc	31 - Jan - 2014	19:30	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				.	1075.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1075.		

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			4.0	
2	Mud Flush		12.00	bbl	8.4			4.0	
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
42 gal/bbl		MUD FLUSH III - SBM (528788)							
1	Fresh Water Spacer		10.00	bbl	8.33			4.0	
3	SwiftCem B2	SWIFTCM (TM) SYSTEM (452990)	405.0	sacks	14.2	1.54	7.66	5.0	7.66
7.66 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	79.0	Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	1.0	Actual Displacement	79.0	Treatment	
Frac Gradient		15 Min		Spacers	32.0	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement	5.0	Avg. Job			
Cement Left In Pipe	Amount	45 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					

