

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300466	<b>Ship To #:</b> 3117345	<b>Quote #:</b>	<b>Sales Order #:</b> 900923938
<b>Customer:</b> ANADARKO PETROLEUM CORP - EBUS		<b>Customer Rep:</b> Heresh, Larry	
<b>Well Name:</b> Pettinger		<b>Well #:</b> 2C-18HZ	<b>API/UWI #:</b> 05-123-38016
<b>Field:</b> WATTENBERG	<b>City (SAP):</b> BRIGHTON	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Contractor:</b> Majors		<b>Rig/Platform Name/Num:</b> Majors 42	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> PLIENESS, RYAN		<b>Srvc Supervisor:</b> BONE, JEFFERSON	<b>MBU ID Emp #:</b> 491216

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BONE, JEFFERSON Eldon	4	491216	EAVES, WESTON	4	539193	KAISA, BRADLEY Mike	4	528102
SCOTT, BRANDON Weston	4	534182						

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10951248	10 mile	11501021	10 mile	10822531	10 MILE	11036295	10 MILE

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/1/13	4	1						

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					01 - Dec - 2013	13:00	MST
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	01 - Dec - 2013	17:00	MST
<b>Job depth MD</b>	1. ft		<b>Job Depth TVD</b>	1. ft	<b>Job Started</b>	01 - Dec - 2013	19:31
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>		<b>Job Completed</b>	01 - Dec - 2013	20:50
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>		<b>Departed Loc</b>	01 - Dec - 2013	22:00

**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				.	1261.		
9 5/8" Surface Casing	Unknown		9.625	8.921	36.		J-55	.	1261.		

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
CMT CASING EQUIPMENT BOM	1	JOB		
MILEAGE FOR CEMENTING CREW,ZI	20	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	20	MI		
KIT,HALL WELD-A	1	EA		
CNTRLZR, 9 5/8"x13 3/4',#500-0963-1375	9	EA		
BASKET - CEMENT - 9-5/8 CSG X 12-1/4	1	EA		
PLUG,CMTG, TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	2	EA		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials												
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size	Qty	
Fluid Data												
Stage/Plug #: 1												
Fluid #	Stage Type	Fluid Name			Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Fresh Water Spacer				10.00	bbl	8.33	.0	.0	.0		
2	Mud Flush				12.00	bbl	8.4	.0	.0	.0		
3.5 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)										
42 gal/bbl		MUD FLUSH III - SBM (528788)										
3	SwiftCem B2	SWIFTCEM (TM) SYSTEM (452990)			444.0	sacks	14.2	1.54	7.66		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		Actual Displacement		Treatment				
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job				
Rates												
Circulating			Mixing			Displacement			Avg. Job			
Cement Left In Pipe		Amount	43 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								

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<b>Well Name:</b> Pettinger		<b>Well #:</b> 2N-18HZ	<b>API/UWI #:</b> 05-123-38016
<b>Field:</b> WATTENBERG	<b>City (SAP):</b> BRIGHTON	<b>County/Parish:</b> Weld	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Majors		<b>Rig/Platform Name/Num:</b> Majors 42	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> PLIENESS, RYAN		<b>Srv Supervisor:</b> BONE, JEFFERSON	<b>MBU ID Emp #:</b> 491216

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/01/2013 13:00							
Safety Meeting - Departing Location	12/01/2013 16:45							ROAD HAZARDS, ROUTE, CONVOY, FIT FOR DUTY
Arrive at Location from Service Center	12/01/2013 17:00							ARRIVED ON LOCATION, RIG WAS RUNNING CASING
Safety Meeting - Pre Rig-Up	12/01/2013 17:10							PINCH POINTS, LINE OF FIRE, LIFTING, OVERHEAD LOADS, RED ZONES
Rig-Up Equipment	12/01/2013 17:20							
Rig-Up Completed	12/01/2013 17:45							
Safety Meeting - Pre Job	12/01/2013 19:00							CONTINGENCIES, PRESSURE TESTING, MUSTER AREAS, STOP WORK AUTHORITY
Start Job	12/01/2013 19:31							
Test Lines	12/01/2013 19:31							PRESSURE TEST LINES TO 3000 PSI
Pump Spacer 1	12/01/2013 19:36		3	10			51.0	RIG WATER
Pump Spacer 2	12/01/2013 19:39		3	12			53.0	MUD FLUSH
Pump Cement	12/01/2013 19:43		4	122			58.0	444 SKS 14.2 PPG 1.54 Y 7.66 W MIXED WITH RIG WATER
Shutdown	12/01/2013 20:17							
Drop Top Plug	12/01/2013 20:17							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	12/01/2013 20:24		5	84			330.0	RIG WATER, WASHED UP ON TOP OF PLUG WITH FIRST 20 BBLS, 15 BBLS OF CEMENT BACK TO SURFACE
Bump Plug	12/01/2013 20:45		2				500.0	
Check Floats	12/01/2013 20:50						1550.0	1 BBL BACK TO TRUCK
Safety Meeting - Pre Rig-Down	12/01/2013 21:00							LINE OF FIRE, PINCH POINTS, LIFTING, RED ZONES, OVERHEAD LOADS
Rig-Down Equipment	12/01/2013 21:10							
Rig-Down Completed	12/01/2013 21:30							
Safety Meeting - Departing Location	12/01/2013 21:45							ROUTE, CONVOY, FIT FOR DUTY, ROAD HAZARDS
Depart Location for Service Center or Other Site	12/01/2013 22:00							

## HALLIBURTON ENERGY SERVICES

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### M. S. D. S. RECEIPT DOCUMENT

This receipt page is intended for use with Material Safety Data Sheets supplied by Halliburton Energy Services. The recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

This document provides the customer the instructions necessary to utilize the M. S. D. S. Safety Sheets and confirms that Halliburton Energy Services offers the Customer the communication for discussion on Chemical Safety of the provided materials.

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Customer Signature

Company : ANADARKO PETROLEUM CORP - EBUS

Lease, Well Name, Nbr : PETTINGER, PETTINGER, 2N-18HZ

Ticket # : 900923938

Location : FORT LUPTON, CO, USA

(To be completed by Service Supervisor)