

HALLIBURTON

ANADARKO PETROLEUM CORP - EBUS

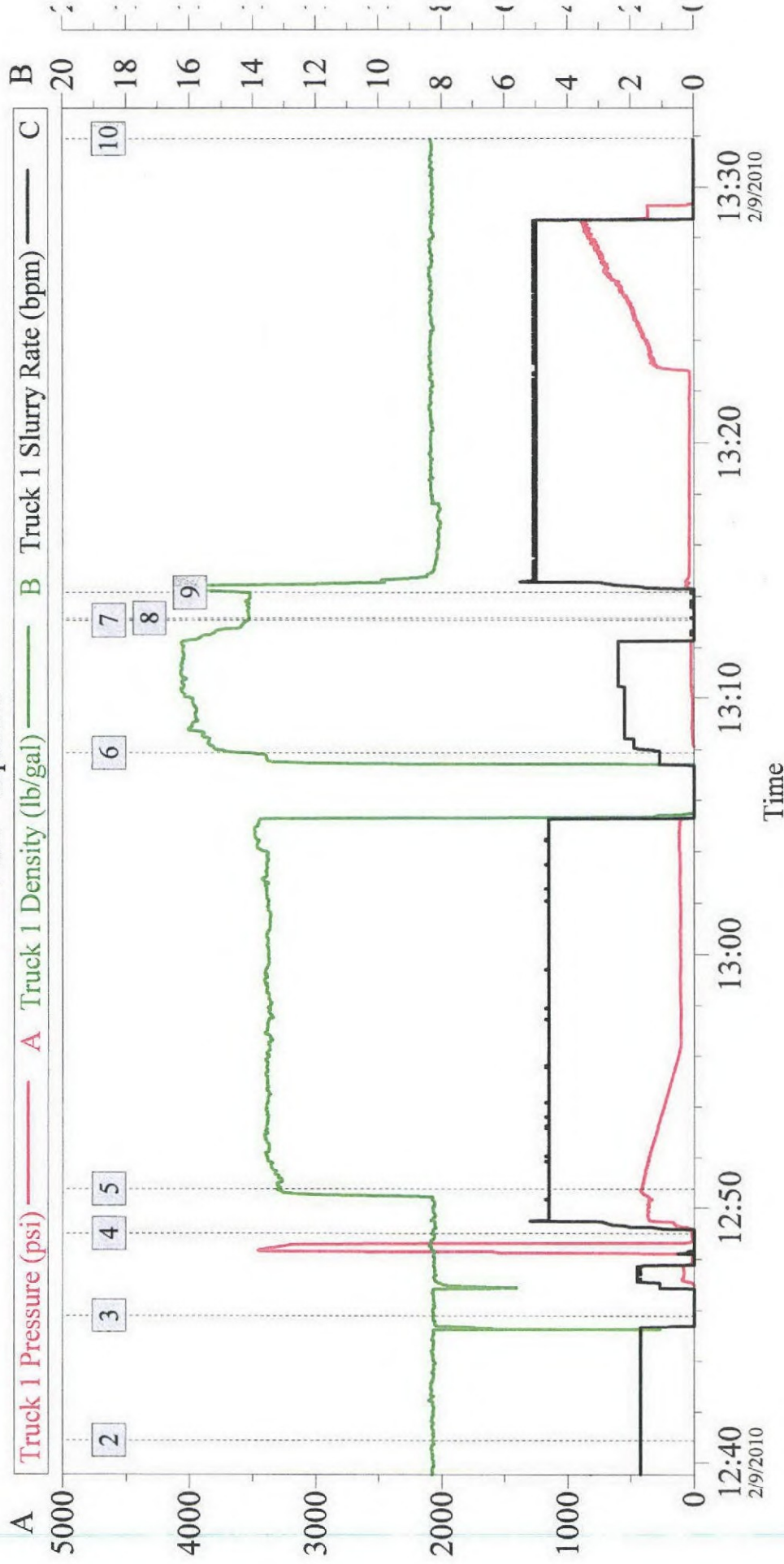
**HSR Loeffler 8-27
WATTENBERG
Weld County , Colorado**

Squeeze Hole in Casing **09-Feb-2010**

Job Site Documents

Anadarko HSR Loeffler 8-27

4 1/2" Squeeze



Global Event Log

Intersection	T1P	Intersection	T1P
2 Start Job	12:40:52 -7.000	3 Test Lines	12:45:47-10.000
5 Pump Lead Cement	12:50:44 413.4	6 Pump Tail Cement	13:07:53 -12.00
8 Drop Top Plug	13:13:09 -17.00	9 Pump Displacement	13:14:10 2.106
		4 Pump Spacer 1	12:49:00 19.00
		7 Shutdown	13:13:05 -17.00
		10 Ending Job	13:31:54 -9.000

Customer: Anadarko
Well Description: 4.5" Squeeze

Job Date: 09-Feb-2010
UWI: 05-123-16749-00

Sales Order #: 7172310

HALLIBURTON
OptiCem v6.4.
09-Feb-10 13:00

Safety Meeting Sign Up

Sales Order #: 7172310

AFE #:

WO #:

PO #:

Job Date: 09-Feb-2010

The Road to Excellence Starts with Safety

Customer:	ANADARKO PETROLEUM CORP - EBUS	Field:	Wattenberg	Job Type:	CMT SQUEEZE HOLE IN CASING BOM
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UWI / API Number: 05-123-16749-00

County/Parish: Weld

HES Employee:

Well Name: HSR Loeffler

State: Colorado

Well No: 8-27

Latitude: North 0deg. 0min 0sec

Formation:

Longitude: East 0deg. 0min 0sec

Customer Name: Lewis Camp

Sect / Twn / Rng: 27 / 5 North / 65 West

Customer Phone #:

HALLIBURTON ONSITE SAFETY PERSON JASON GIBBS

Employee's Name & Emp #	Company	Location	Pre-Rig-Up	Pre-Job	Post-Job
James Wiley (00440080)					
Jason Gibbs (00300487)					
David Huff (00468612)					
	TOTAL HALLIBURTON			TOTAL OTHER	

Water Analysis For Cement Mixing Water

Company:	ANADARKO PETROLEUM CORP - EBUS	Lease:	HSR Loeffler	Well Name, Nbr:	HSR Loeffler, 8-27
Rig Name/Nbr:	.	API No. /UWI	05-123-16749-00		
County:	Weld	State:	Colorado	Country:	United States of America

FIELD TEST KIT

NOTE: These tests are an indication of POTENTIAL contamination and are not conclusive.

For more comprehensive results, a sample should be submitted to the Local Area Lab

Date 09-Feb-2010
Service Supervisor GIBBS, JASON

Ticket Number 7172310
Water Source H2O Truck

Temperature 36

pH. 7

Specific Gravity _____

Chart in Kit shows comparisons of: Chlorides
Calcium

PASS	FAIL	<u>Chloride</u>	<u>0</u>
<input type="checkbox"/>	<input type="checkbox"/>		
		<u>Carbonate</u>	<u>8</u>
<input type="checkbox"/>	<input type="checkbox"/>		
		<u>Sulfate</u>	<u>Below 200</u>
<input type="checkbox"/>	<input type="checkbox"/>		
		<u>Iron (Fe)</u>	<u>0</u>
<input type="checkbox"/>	<input type="checkbox"/>		

Material Roll Up

Sales Order #: 7172310

AFE #:

WO #:

PO #:

Crew: Blak Crew

Requested Job Start Date: 02/08/10

Colorado Oil and Gas Commission Wellsite Form

Customer: Anadarko

Field: Wattenberg

Job Type: Squeeze

UWI / API Number: 05-123-16749-00

County/Parish: WELD

Service Supervisor: Jason E Gibbs

Well Name: HSR Loeffler

State: COLORADO

Well No: 8-27

Latitude:

Stage / Zone:

Longitude:

Cust Rep Name: Lewis Camp

Formation:

Sect / Twn / Rng: 27 5N 65W

Cust Rep Phone #: 970 590 3332

Do Not leave the yard without the proper MSDS documentation for All chemicals.**Colorado Oil and Gas Commission**

Material	Delivered to Location	UOM	Specific Gravity	Weight (lbs)	Comment
PREMIUM		LB		15510	
POZ-MIX		LB		8050	
SSA-1		LB		3772	
GEL		LB		377	
HALAD-344		LB		38	
ECONOLITE		LB		38	
FE-2		LB		19	
SILICALITE		LB		700	
CAL CHLORIDE		LB		100	
POLY FLAKE		LB		29	

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Operator provided all Material Safety Data Sheets (MSDS) related to material listed above.
Operator representative will check box to designate he/she has received all MSDS documentation.

Operator Representative Signature

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 2767840		Quote #:		Sales Order #: 7172310	
Customer: ANADARKO PETROLEUM CORP - EBUS				Customer Rep: Camp, Lewis			
Well Name: HSR Loeffler			Well #: 8-27		API/UWI #: 05-123-16749-00		
Field: WATTENBERG		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Legal Description: Section 27 Township 5N Range 65W							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: Eastern Colorado Well Service			Rig/Platform Name/Num: .				
Job Purpose: Squeeze Hole in Casing						Ticket Amount:	
Well Type: Producing Well			Job Type: Squeeze Hole in Casing				
Sales Person: FLING, MATTHEW			Srv Supervisor: GIBBS, JASON			MBU ID Emp #: 300487	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	02/09/2010 09:30							
Assessment Of Location	02/09/2010 09:45							
Safety Meeting	02/09/2010 12:20							
Start Job	02/09/2010 12:40							
Test Lines	02/09/2010 12:45							Test Lines 4700 psi
Pump Spacer 1	02/09/2010 12:49		5	10			87.0	H2O supplied by the rig.
Pump Lead Cement	02/09/2010 12:50		5	70			413.0	230 sks @ 13.5 #/gal mixed with H2O supplied by rig.
Pump Tail Cement	02/09/2010 13:07		5	10			75.0	50 sks @ 15.8 #/gal mixed with H2O supplied by rig.
Drop Top Plug	02/09/2010 13:13							
Pump Displacement	02/09/2010 13:14		5	71			887.0	H2O supplied by the rig.
Shut In Well	02/09/2010 13:29						458.0	
End Job	02/09/2010 13:31							

The Road to Excellence Starts with Safety

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Well Name: HSR Loeffler			Well #: 8-27		API/UWI #: 05-123-16749-00		
Field: WATTENBERG		City (SAP): PLATTEVILLE		County/Parish: Weld		State: Colorado	
Legal Description: Section 27 Township 5N Range 65W							
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Job Purpose: Squeeze Hole in Casing							
Well Type: Producing Well				Job Type: Squeeze Hole in Casing			
Sales Person: FLING, MATTHEW			Srv Supervisor: GIBBS, JASON			MBU ID Emp #: 300487	
Job Personnel							
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #
GIBBS, JASON Edwin		4.5	300487	HUFF, DAVID Randall		4.5	440080
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10829457	35 mile	10857012C	35 mile	10866497C	35 mile	10248053	35 mile
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
TOTAL			<i>Total is the sum of each column separately</i>				
Job				Job Times			
Formation Name				Date			
Formation Depth (MD) Top				Time			
Bottom				Time Zone			
Form Type				Called Out			
Job depth MD				On Location			
Water Depth				Job Started			
Perforation Depth (MD) From				Job Completed			
To				Departed Loc			
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				
Surface Casing	Used		8.625	8.097	24.		
Production Casing	Unknown		4.5	4.052	10.5		
Sales/Rental/3rd Party (HES)							
Description						Qty	Qty uom
PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 MA						1	EA
Tools and Accessories							
Type	Size	Qty	Make	Depth	Type	Size	Qty
Guide Shoe					Top Plug		
Float Shoe					Bottom Plug		
Float Collar					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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		10.00	bbl	8.34	.0	.0	.0	
2	Cement 13.5#	FRACCEM (TM) SYSTEM (452963)	230.0	sacks	13.5	1.7	8.16	4.0	8.16
	8.162 Gal	FRESH WATER							
3	Tail 15.8#	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	50.0	sacks	15.8	1.15	5.0	3.0	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	5 Gal	FRESH WATER							
4	Displacement		71.00	bbl	8.33	.0	.0	.0	
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	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					