HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 304535	**Ship To #:** 2270029	**Quote #:**	**Sales Order #:** 9702147
Customer: PDC ENERGY EBUS		**Customer Rep:** SAILORS, CHAD	
Well Name: Hoff	**Well #:** 33-6		**API/UWI #:** 05-123-21304
Field: WATTENBERG	**City (SAP):** GREELEY	**County/Parish:** Weld	**State:** Colorado
Lat: N 40.426 deg. OR N 40 deg. 25 min. 32.765 secs.		**Long:** E 104.59 deg. OR E 104 deg. 35 min. 24.288 secs.	
Job Purpose: Recement Service			
Well Type: Development Well	**Job Type:** Recement Service		
Sales Person: AARON, WESLEY	**Srvc Supervisor:** SNYDER, JONATHAN	**MBU ID Emp #:** 435616	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
KUNERT, RANDY Joe	4.0	477850	SANSONI, NICHOLAS Sterling J	4.0	502962	SMITH, AARON David	4.0	518187
SNYDER, JONATHAN Leroy	4.0	435616						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10246780C	35 mile	10248053C	35 mile	11362287C	35 mile	11518548	35 mile
11562544C	35 mile						

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
7/30/2012	4	2.5						
TOTAL								

Total is the sum of each column separately

Job

Formation Name			
Formation Depth (MD)	**Top**	**Bottom**	
Form Type		**BHST**	
Job depth MD	3230. ft	**Job Depth TVD**	3230. ft
Water Depth		**Wk Ht Above Floor**	
Perforation Depth (MD)	*From*	**To**	

Job Times

	Date	Time	Time Zone
Called Out	30 - Jul - 2012	04:00	MST
On Location	30 - Jul - 2012	07:00	MST
Job Started	30 - Jul - 2012	08:00	MST
Job Completed	30 - Jul - 2012	10:21	MST
Departed Loc	30 - Jul - 2012	11:00	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
1 1/4" Tubing	Unknown							.	3222.		
Open Hole Section				8.				.	3150.	.	3150.
Production Casing	Used		4.5	4.052	10.5		P-110	.	7336.	.	7336.
Surface Casing	Used		8.625	8.097	24.		J-55	.	366.	.	451.

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

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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	ClayWeb Water Spacer		10	bbl	8.33	.0	.0	2.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	12	bbl	8.4	.0	.0	2.0	
3	ClayWeb Water Spacer		10	bbl	8.33	.0	.0	2.0	
59.525 gal/Mgal		CLA-WEB - TOTE (101985045)							
4	Varicem 12#	VARICEM (TM) CEMENT (452009)	500	sacks	12.	2.18	12.34	2.0	12.34
12.34 Gal		FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement	2.5	Shut In: Instant		Lost Returns		Cement Slurry	161	Pad	
Top Of Cement	0	5 Min		Cement Returns	21	Actual Displacement	2.5	Treatment	
Frac Gradient		15 Min		Spacers	32	Load and Breakdown		Total Job	

Rates							
Circulating	2	Mixing	2	Displacement	2	Avg. Job	2

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

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Well Name: Hoff	**Well #:** 33-6		**API/UWI #:** 05-123-21304
Field: WATTENBERG	**City (SAP):** GREELEY	**County/Parish:** Weld	**State:** Colorado
Legal Description:			
Lat: N 40.426 deg. OR N 40 deg. 25 min. 32.765 secs.		**Long:** E 104.59 deg. OR E 104 deg. 35 min. 24.288 secs.	
Contractor:	**Rig/Platform Name/Num:**		
Job Purpose: Recement Service			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Recement Service		
Sales Person: AARON, WESLEY	**Srvc Supervisor:** SNYDER, JONATHAN		**MBU ID Emp #:** 435616

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl Stage	Volume bbl Total	Pressure psig Tubing	Pressure psig Casing	Comments
Arrive at Location from Service Center	07/30/2012 07:00							ARRIVED AND CONDUCTED A HAZARD HUNT AND FOUND NO HAZARDS THAT CONFLICT WITH US RIGGING UP EQUIPMENT.
Pre-Job Safety Meeting	07/30/2012 07:45							HELD SAFETY MEETING WITH ALL EMPLOYEES AND ALL THIRD PARTY PERSONEL PRIOR TO PUMPING THE CEMENT JOB.
Start Job	07/30/2012 08:00							
Test Lines	07/30/2012 08:06							PRESSURE TEST LINES TO 3718 PSI
Pump Spacer 1	07/30/2012 08:08		2	10			1522.0	RIG WATER MIXED W/ CLAY-WEB III
Pump Spacer 2	07/30/2012 08:14		2.3	12			1799.0	RIG WATER MIXED W/ MUD FLUSH III
Pump Spacer 1	07/30/2012 08:19		2.3	10			1876.0	RIG WATER MIXED W/ CLAY-WEB III
Pump Cement	07/30/2012 08:24		2.2	97			1985.0	250 SKS VARICEM CMT MIXED @ 12 PPG W/ RIG WATER
Pump Displacement	07/30/2012 09:14		2.2	1.5			2009.0	W/ RIG WATER
Shutdown	07/30/2012 09:15							
Pump Cement	07/30/2012 09:44		2	64			1085.0	165 SKS VARICEM CMT MIXED @ 12 PPG W/ RIG WATER
Pump Displacement	07/30/2012 10:20		2	1			1097.0	RIG WATER MIXED W/ CLAY-WEB III

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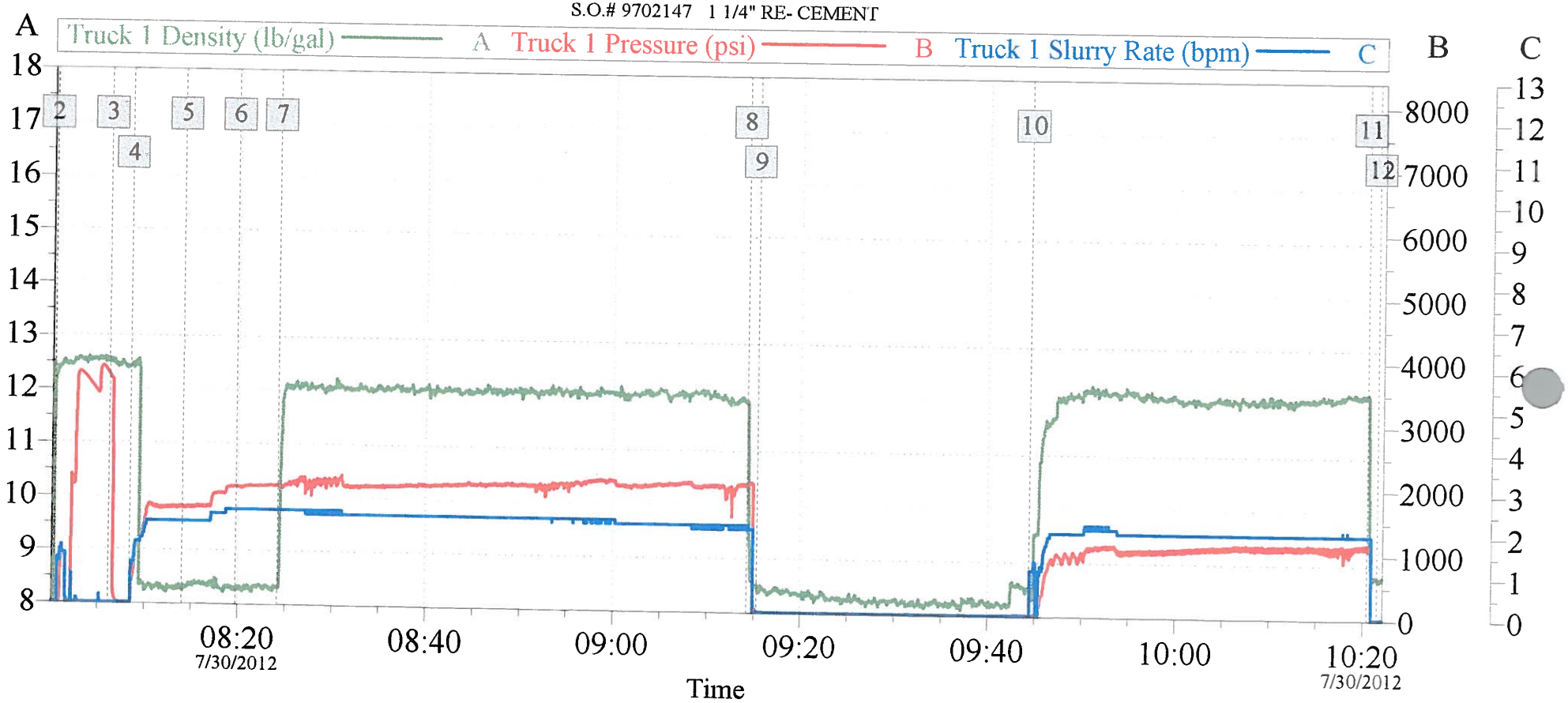
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	07/30/2012 10:21							WE GOT 21 BBLS OF CEMENT BACK TO SURFACE. WE DID NOT MIX ALL THE CEMENT SO WE BROUGHT 83 SKS BACK TO THE YARD
Pre-Rig Down Safety Meeting	07/30/2012 10:25							HELD SAFETY MEETING WITH ALL EMPLOYEES PRIOR TO RIGGING DOWN AND DISCUSSED ALL HAZARDS WHILE RIGGING DOWN EQUIPMENT.
Depart Location for Service Center or Other Site	07/30/2012 11:00							HELD SAFETY MEETING PRIOR TO LEAVING LOCATION AND DISCUSSED ALL POTENTIAL HAZARDS WHILE DRIVING BACK TO THE SERVICE CENTER.

PDC HOFF 33-6

S.O.# 9702147 1 1/4" RE- CEMENT



Global Event Log

	Intersection		T1D	T1P		Intersection		T1D	T1P
2	Start Job	08:00:23	7.336	3.297	3	Test Lines	08:06:13	12.56	3590
4	Pump 10 BBL Clay-Web Spacer	08:08:27	12.42	7.000	5	Pump 12 BBL Mud-Flush Spacer	08:14:05	8.249	1519
6	Pump 10 BBL Clay-Web Spacer	08:19:48	8.250	1843	7	Pump Cement @ 12 #	08:24:11	8.317	1867
8	Pump Displacement	09:14:16	11.89	1984	9	Shutdown	09:15:19	8.520	25.05
10	Pump Cement @ 12 #	09:44:24	8.530	19.00	11	Pump Displacement	10:20:27	12.13	1150
12	End Job	10:21:31	8.760	13.00					

Customer: Well Description:	Job Date: 30-Jul-2012 UWI:	Sales Order #: 9702147

OptiCem v6.4.10
30-Jul-12 10:31