

MATRIX OIL CORPORATION  
104 W ANAPAMU ST STE C  
SANTA BARBARA, California

Sheridan 11-2

CAPSTAR 312

## **Post Job Summary**

### **Cement Surface Casing**

Date Prepared: May 27, 2012  
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: Charli A Brown

**HALLIBURTON**

# HALLIBURTON

## Wellbore Geometry

Job Tubulars					MD		Excess %	Shoe Joint Length ft
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft		
Open Hole Section	Surface Open Hole		12.250		0.00	600.00	100.00	0.00
Casing	Surface Casing	9.63	8.921	36.00	0.00	600.00		40.00

## Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Density lbm/gal	Avg Rate bbl/min	Volume
1	Spacer	FRESH WATER	8.34	2.00	10.0 bbl
2	Spacer	SUPER FLUSH 101	10.00	2.00	20.0 bbl
3	Spacer	FRESH WATER	8.34	2.00	10.0 bbl
4	Cement Slurry	VariCem V1	12.30	3.00	170.0 sacks
5	Mud	Displacement	8.40	3.00	43.0 bbl

## Fluids Pumped

**Stage/Plug # 1**      **Fluid 1:**      FRESH WATER  
FRESH WATER

Fluid Density: 8.34 lbm/gal  
Fluid Volume: 10.00 bbl  
Pump Rate: 2.00 bbl/min

**Stage/Plug # 1**      **Fluid 2:**      SUPER FLUSH 101  
SUPER FLUSH 101 - SBM (12199)

Fluid Density: 10.00 lbm/gal  
Fluid Volume: 20.00 bbl  
Pump Rate: 2.00 bbl/min

**Stage/Plug # 1**      **Fluid 3:**      FRESH WATER  
FRESH WATER

Fluid Density: 8.34 lbm/gal  
Fluid Volume: 10.00 bbl  
Pump Rate: 2.00 bbl/min

**Stage/Plug # 1**      **Fluid 4:**      VariCem V1  
VARICEM (TM) CEMENT  
0.125 lbm      Poly-E-Flake

Fluid Weight: 12.30 lbm/gal  
Slurry Yield: 2.38 ft<sup>3</sup>/sack  
Total Mixing Fluid: 13.78 Gal  
Volume: 170.0 sacks  
Calculated Fill: 300.00 ft  
Calculated Top of Fluid: 0.00 ft

**Stage/Plug # 1**      **Fluid 5:**      Displacement

Fluid Density: 0.00 lbm/gal  
Fluid Volume: 43.00 bbl  
Pump Rate: 3.00 bbl/min

# HALLIBURTON

## Job Summary

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### Job Information

Job Start Date	5/28/2012 4:45:00 AM
Job MD	610.0 ft
Job TVD	610.0 ft
Height of Plug Container/Swage Above Rig Floor	4.0 ft
Surface Temperature at Time of Job	30 degF
Mud Type	Water Based Mud
Name of Mud Company	HALLIBURTON
Actual Mud Density	8 lbm/gal
Time Circulated before job	2.00 hour(s)
Mud Volume Circulated	600.00 bbl
Rate at Which Well was Circulated	5.000 bbl/min
Pipe Movement During Hole Circulation	Reciprocated
Time From End Mud Circ. to Job Start	30.00 minute
Pipe Movement During Cementing	None
Calculated Displacement	43.29 bbl
Amount of Cement Returns	20.00 bbl
Job Displaced by (rig/halco)	Cement Unit HP Pumps
Annular flow Before Job? (Water/Gas)	Unknown
Annular flow After Job? (Water/Gas)	No
Length of Rat Hole	7.00 ft

### Cementing Equipment

Number of Centralizers Used	5
Pipe Centralization	Bottom Joints (1 TO 10)
Brand of Float Equipment Used	HALLIBURTON
Did Float Equipment Hold?	No
Plug set used?	Yes
Brand of Plug set used?	HALLIBURTON
Did Plugs Bump?	Yes
Calculated Pressure to Bump Plugs	113.0 psig

## Service Supervisor Reports

### Job Log

Date/Time	Activity Code	Pump Rate	Volume	Pressure (psig)	Comments
05/27/2012 15:00	Call Out				Called Out Cement Crew For Matrix Oil Sheridan 11-2
05/27/2012 16:30	Pre-Convoy Safety Meeting				Discussed Hazards On Route To Location
05/27/2012 16:40	Depart from Service Center or Other Site				
05/27/2012 19:30	Wait on Customer or Customer Sub-Contractor Equip				Wait For Rig and Casing Crews to Finish Running Casing
05/27/2012 19:30	Arrive At Loc				Arrived To Location Talked With Company Rep On Volumes, Rates, Depths
05/28/2012 02:25	Pre-Rig Up Safety Meeting				Discussed Hazards For Rigging Up Iron and Water Hoses
05/28/2012 02:30	Other				Casing on bottom, rig will circulate until HES is rigged up and ready
05/28/2012 02:30	Rig-Up Equipment				
05/28/2012 04:15	Pre-Job Safety Meeting				Discussed Job Procedures With Cement and Rig Crews
05/28/2012 04:40	Rig-Up Completed				Finished Rigging Up To The Floor And Well Head
05/28/2012 04:45	Prime Pumps				Primed Pumps and Lines For Pressure Test
05/28/2012 04:47	Pressure Test			2200.0	Test Pump and Lines to 2200PSI
05/28/2012 04:51	Pump Spacer 1	2	10	16.0	Pump Fresh Water Spacer
05/28/2012 04:57	Pump Spacer 2	2	22	31.0	Pump Super Flush at 10PPG
05/28/2012 05:07	Pump Spacer 1	2	10	38.0	Pump Fresh Water Spacer
05/28/2012 05:14	Pump Lead Cement	2.5	70	17.0	Pump Lead Cement at 12.3PPG Y:2.38ft3/sk W: 13.78gal/sk

# HALLIBURTON

Date/Time	Activity Code	Pump Rate	Volume	Pressure (psig)	Comments
05/28/2012 05:15	Other				Issues with downhole densometer reading at 11.3ppg mud scaled at 12.3ppg
05/28/2012 05:39	Clean Lines				Cleaned Pump and Lines
05/28/2012 05:41	Drop Plug				
05/28/2012 05:41	Pump Displacement	3	43.2	50.0	Pump Fresh Water Displacement
05/28/2012 05:48	Slow Rate	2		88.0	Reduced rate to 2BPM unable to get water quick enough. Cement to surface with 20BBLS Pumped
05/28/2012 05:58	Bump Plug			131.0	Bumped plug at 131PSI took to 1200PSI
05/28/2012 06:00	Check Floats				Checked floats; floats not holding pressured back up still not holding
05/28/2012 06:07	Shut In Well			240.0	Floats not holding shutting in well with 240PSI will hold for 6hrs per company
05/28/2012 06:31	Other				Cement has not fallen back, job complete will leave head on and well shut in for the next 6hrs
05/28/2012 06:32	Post-Job Safety Meeting (Pre Rig-Down)				Discuss rig down procedures.
05/28/2012 06:35	Rig-Down Equipment				Rig down all equipment except cement head and manifold
05/28/2012 07:00	Rig-Down Completed				Rig down complete
05/28/2012 07:25	Pre-Convoy Safety Meeting				Discuss fatigue, route, convoy order, and traffic
05/28/2012 07:30	Depart Location for Service Center or Other Site				Depart for Vernal

## The Road to Excellence Starts with Safety

Sold To #: 350361	Ship To #: 350361	Quote #:	Sales Order #: 9546717
Customer: MATRIX OIL CORPORATION	Customer Rep:		
Well Name: Sheridan	Well #: 11-2	API/UWI #:	
Field:	City (SAP): SANTA BARBARA	County/Parish: Rio Blanco	State: Colorado
Legal Description: Section 11 Township 1N Range 94W			
Contractor: WORKOVER	Rig/Platform Name/Num: WORK OVER		
Job Purpose: Cement Surface Casing			
Well Type: Exploratory / Wildcat	Job Type: Cement Surface Casing		
Sales Person: LEHAR, JARED	Srvc Supervisor: BIRCHELL, DEVIN	MBU ID Emp #: 466993	

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARCHULETA, JACOB Joshua	11.0	491140	BIRCHELL, DEVIN Ray	11.0	466993	BROWN, CHARLI Anne	11.0	490285
HAMMOND, QUINN R	11.0	472403	JUTSUM, TIMOTHY	11.0	510127			

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10261036	110 mile	10872435	110 mile	10973575	110 mile	11259880	110 mile
11277046	110 mile	11338211	110 mile				

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/27/2012	4	0	5/28/2012	7	3.5			
TOTAL	Total is the sum of each column separately							

## Job

## Job Times

Formation Name						Date	Time	Time Zone	
Formation Depth (MD)	Top			Bottom		Called Out			
Form Type			BHST			On Location	27 - May - 2012	19:30	MST
Job depth MD	610. ft		Job Depth TVD		610. ft	Job Started	28 - May - 2012	04:45	MST
Water Depth			Wk Ht Above Floor		4. ft	Job Completed	28 - May - 2012	06:07	GMT
Perforation Depth (MD)	From			To		Departed Loc	28 - May - 2012	07:30	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
Surface Open Hole				12.25				.	600.		
Surface Casing	Unknown		9.625	8.921	36.		K-55	.	600.		

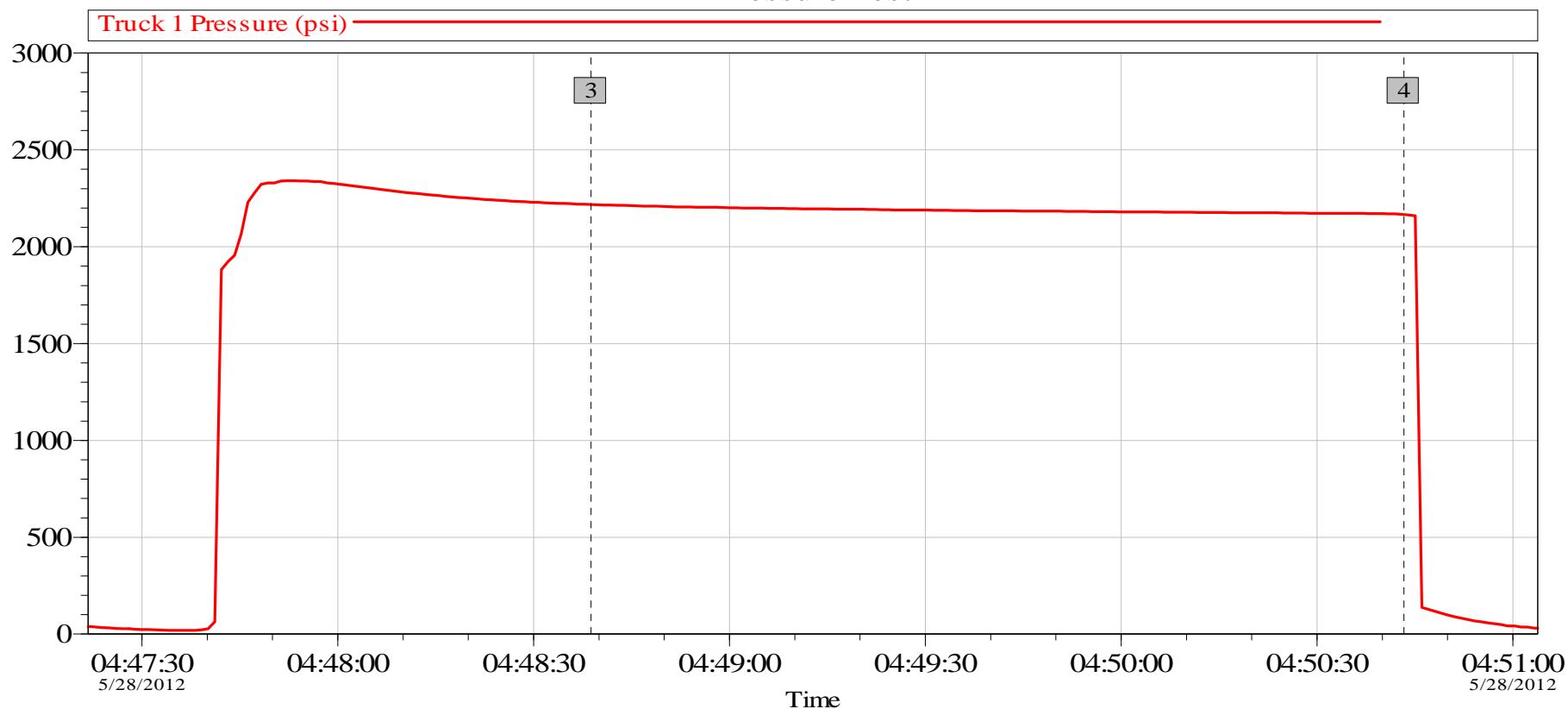
Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CLR,FLT,9-5/8 8RD 29.3-40PPF,2-3/4	1	EA		
SHOE,GID,9-5/8 8RD	1	EA		
COLLAR-STOP-9 5/8"-FRICTION-HINGED	1	EA		
CENTRALIZER-9-5/8"-CSG-12 1/4"-HINGED	5	EA		
KIT,HALL WELD-A	1	EA		
Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	140	MI		

ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON										140	MI				
<b>Tools and Accessories</b>															
<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>	<b>Depth</b>	<b>Type</b>	<b>Size</b>	<b>Qty</b>	<b>Make</b>		
Guide Shoe					Packer					Top Plug	9.625	1	HES		
Float Shoe	9.625	1	HES	603	Bridge Plug					Bottom Plug					
Float Collar	9.625	1	HES	559	Retainer					SSR plug set					
Insert Float										Plug Container	9.625	1	HES		
Stage Tool										Centralizers	9.635	1	HES		
<b>Miscellaneous Materials</b>															
Gelling Agt			Conc		Surfactant			Conc		Acid Type			Qty	Conc	%
Treatment Fld			Conc		Inhibitor			Conc		Sand Type			Size	Qty	
<b>Fluid Data</b>															
<b>Stage/Plug #: 1</b>															
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty uom</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft3/sk</b>	<b>Mix Fluid Gal/sk</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal/sk</b>				
1	FRESH WATER				10.00	bbl	8.34	.0	.0	.0					
2	SUPER FLUSH 101	SUPER FLUSH 101 - SBM (12199)			20.00	bbl	10.	2.11	13.09	.0					
3	FRESH WATER				10.00	bbl	8.34	.0	.0	.0					
4	VariCem V1	VARICEM (TM) CEMENT (452009)			170.0	sacks	12.3	2.38	13.78		13.78				
0.125 lbm		POLY-E-FLAKE (101216940)													
13.78 Gal		FRESH WATER													
5	Displacement				43.00	bbl	.			.0					
6	HalCem TopOut	HALCEM (TM) SYSTEM (452986)				sacks	14.8	1.32	6.3		6.3				
2 %		CALCIUM CHLORIDE - HI TEST PELLET (100005053)													
6.3 Gal		FRESH WATER													
<b>Calculated Values</b>		<b>Pressures</b>				<b>Volumes</b>									
Displacement		Shut In: Instant		240PSI		Lost Returns		0		Cement Slurry		70		Pad	
Top Of Cement		Surface		5 Min		Cement Returns		20		Actual Displacement		43		Treatment	
Frac Gradient				15 Min		Spacers		40		Load and Breakdown				Total Job	
<b>Rates</b>															
Circulating		600		Mixing		112		Displacement		43		Avg. Job		3.0BPM	
Cement Left In Pipe		Amount		44 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									

## Data Acquisition

### Matrix Oil Company Sheridan 11-2 9.625" Surface Pressure Test



Global Event Log					
Intersection		PSI		Intersection	
3	Pressure Test	04:48:39	2218	4	Test Lines
				04:50:43	2166

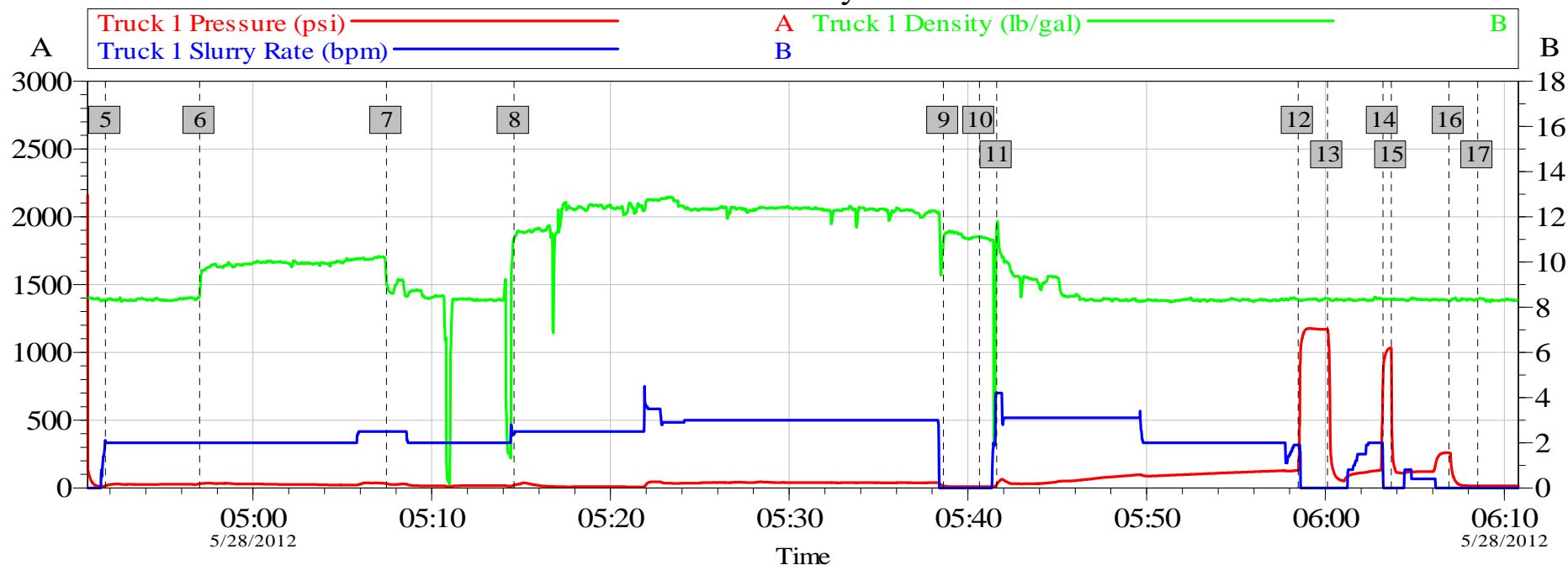
Customer: Matrix Oil	Job Date: 28-May-2012	Sales Order #: 9546717
Job Description: Surface	UWI:	Elite #: 10872435
Service Supervisor: Devin Birchell	Service Operator: Quinn Hammond	Service Leader: N/A

OptiCem v6.4.10  
28-May-12 04:51



## Matrix Oil Company Sheridan 11-2 9.625" Surface

### Job Summary Chart



### Global Event Log

Intersection	PSI	Intersection	PSI	Intersection	PSI
5 Pump Spacer 1	04:51:45 16.43	6 Pump Spacer 2	04:57:01 31.00	7 Pump Spacer 1	05:07:28 33.08
8 Pump Cement	05:14:36 21.60	9 Shutdown	05:38:37 15.57	10 Drop Plug	05:40:38 9.643
11 Pump Displacement	05:41:36 25.16	12 Bump Plug	05:58:28 131.9	13 Check Floats	06:00:07 1169
14 Pressure Up	06:03:13 782.5	15 Check Floats	06:03:41 1034	16 Shut In Well	06:06:54 259.0
17 Job Complete	06:08:31 16.00				

Customer: Matrix Oil  
Job Description: Surface  
Service Supervisor: Devin Birchell

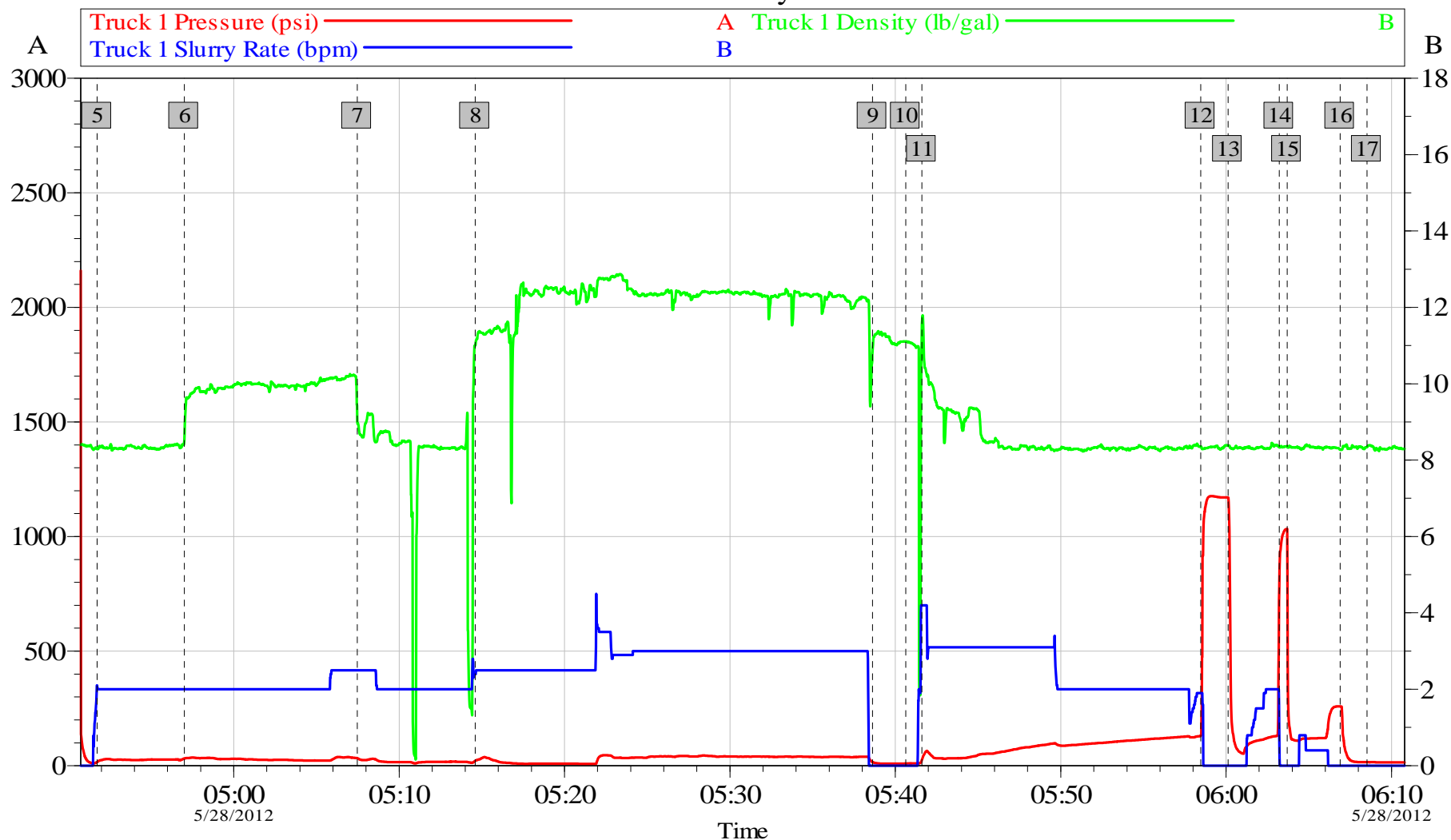
Job Date: 28-May-2012  
UWI:  
Service Operator: Quinn Hammond

Sales Order #: 9546717  
Elite #: 10872435  
Service Leader: N/A

OptiCem v6.4.10  
28-May-12 06:46

## Matrix Oil Company Sheridan 11-2 9.625" Surface

### Job Summary Chart



Customer: Matrix Oil	Job Date: 28-May-2012	Sales Order #: 9546717
Job Description: Surface	UWI:	Elite #: 10872435
Service Supervisor: Devin Birchell	Service Operator: Quinn Hammond	Service Leader: N/A

OptiCem v6.4.10  
28-May-12 06:47



