

OXY GRAND JUNCTION EBUSINESS
DO NOT MAIL - PO BOX 1767
ADDISON, Texas

Cascade Creek 697-08-08B

H&P Drilling/H&P/353

Post Job Summary **Cement Surface Casing**

Prepared for: Hennry Coombs
Date Prepared: 5.17.2011
Version: 1

Service Supervisor: ARNOLD, EDWARD

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

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Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 8171885
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Silva, Marco	
Well Name: Cascade Creek		Well #: 697-08-08B	API/UWI #: 05-045-18128
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.427 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.995 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DUNNING, DUSTIN		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDREWS, ANTHONY Michael	17.5	321604	ARNOLD, EDWARD John	17.5	439784	BRENNECKE, ANDREW Bailey	17.5	486345
EICKHOFF, ROBERT Edward	17.5	495311	LESTER, LEVI William	17.5	474117	LYNGSTAD, FREDRICK D	1.5	403742
ROMKEE, DALE Alan	17.5	488215						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
	240 mile	10053558	240 mile	10741259	240 mile	10829465	240 mile
10938673	240 mile	10938678	240 mile	10988964	240 mile	10988978	240 mile
11259884	240 mile	11360871	240 mile	11542767	240 mile	6543	240 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5.17.2011	17.5	8						
TOTAL		<i>Total is the sum of each column separately</i>						

Job

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top		Bottom	Called Out	16 - May - 2011	21:30	MST
Form Type	BHST			On Location	17 - May - 2011	01:20	MST
Job depth MD	2706.6 ft		Job Depth TVD	2706.6 ft	Job Started	17 - May - 2011	09:21
Water Depth			Wk Ht Above Floor	3. ft	Job Completed	17 - May - 2011	16:35
Perforation Depth (MD)	From		To		Departed Loc	17 - May - 2011	19:00

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
14 3/4" Open Hole				14.75				.	2730.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2706.7		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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		20.00	bbl	8.33	.0	.0	7.0	
2	Gel Spacer		20.00	bbl	8.4	.0	.0	7.0	
3	Water Spacer		20.00	bbl	8.33	.0	.0	7.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	7.0	12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	7.0	10.67
		10.67 Gal	FRESH WATER						
6	Displacement			bbl	8.33	.0	.0	7.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	117.0	sacks	12.5	1.97	10.96	2.0	10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	205.5	Shut In: Instant		Lost Returns		Cement Slurry	539.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	1	Actual Displacement	205.5	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	804.9
Rates									
Circulating	RIG	Mixing	7	Displacement	7	Avg. Job	7		
Cement Left In Pipe	Amount	47.5 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					

Pre-Planned Job Procedure Single Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
4	FILL LINES	2				
6	Test Lines	2500.0				
9	H2O Spacer	20.0				
10	Gel Spacer	20.0				
9	H2O Spacer	10.0				
13	LEAD CEMENT	435.7	1050	12.3	2.33	12.62
15	TAIL CEMENT	62.1	170	12.8	2.05	10.67
11	SHUTDOWN/WASH LINES					
32	DROP TOP PLUG					
25	DISPLACEMENT	205.6				
1085	SLOW RATE	195.6	4 BBL/MIN			
26	LAND PLUG	542.0				
511	CHECK FLOATS	1042.0				
2	END JOB		Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	FLOAT COLLAR	BBL/FT	H2O REQ.	
205.55	2706.68	47.50	2659.18	0.0773	664	
PSI to Lift	1156.00	4.5" Production				
CALCULATED PSI LAND		542	TOTAL FLUID PUMPED		753	
Collapse	2020	Burst	3520	SO#	8171885	

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Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.427 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.995 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 353	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DUNNING, DUSTIN		Srvc Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/16/2011 21:00							
Pre-Convoy Safety Meeting	05/16/2011 23:30							Including entire cement crew
Crew Leave Yard	05/16/2011 23:35							
Arrive At Loc	05/17/2011 02:50							Rig running casing. Approx 25 joints left. Left bottom guard shack at 0120, Arrived at location at 0250.
Assessment Of Location Safety Meeting	05/17/2011 03:00							Water Test: Ph 7 ; KCL 250 ; S04 <200 ; Fe 0 ; Chlorides 0 ; Calcium 50 ;Temp 55 ; 670 TDS .
Pre-Rig Up Safety Meeting	05/17/2011 07:30							Including entire cement crew
Rig-Up Equipment	05/17/2011 07:45							1 Elite # 1; 1 field storage bin; 1 field storage silo; 1 hard line from pump to floor; 1 lines to upright. 9.625" compact head; #0794
Rig-Up Completed	05/17/2011 08:50							
Pre-Job Safety Meeting	05/17/2011 09:00							Including everyone on location
Start Job	05/17/2011 09:21							TD 2730; TP 2706.6; SJ 47.5; OH 14 3/5; CASING 9 5/8 36# J-55; MUD 9 ppg; Parasite String set at 2535.
Other	05/17/2011 09:23		2	2			33.0	Fill lines with fresh water.
Pressure Test	05/17/2011 09:25						3220.0	PSI test good, no leaks.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	05/17/2011 09:30		4	20			110.0	20 BBL fresh water.
Pump Spacer 2	05/17/2011 09:36		4	20			75.0	20 BBL Gel Spacer.
Pump Spacer 1	05/17/2011 09:42		7	20			280.0	20 Fresh Water spacer.
Pump Lead Cement	05/17/2011 09:47		7	435.7			329.0	1050 SKs Lead cement, 12.3 ppg; 2.33 cf3; 12.62 gal/sk. Used 7 boxes of Tuff Fiber in Lead Cement.
Pump Tail Cement	05/17/2011 11:02		7	62			330.0	70 SKs Tail cement, 12.8 ppg; 2.07 cf3; 10.67 gal/sk.
Shutdown	05/17/2011 11:13							
Drop Plug	05/17/2011 11:14							Plug left container.
Pump Displacement	05/17/2011 11:15		7	105.6			840.0	Fresh Water Displacement
Slow Rate	05/17/2011 11:43		4	10			365.0	Slow rate last ten BBLs
Bump Plug	05/17/2011 11:47				205.6		800.0	Bumped plug took 500 psi over.
Check Floats	05/17/2011 11:51							Floats held. 1.5 BBL back. No circulation during job.
Pressure Up Well	05/17/2011 11:55						1525.0	Test Casing for 30 min at 1500 PSI.
Release Casing Pressure	05/17/2011 12:32							
Pump Water	05/17/2011 12:57		2	10			800.0	Pump 10 BBL of water through Parasite String. Plug popped at 800 PSI.
Shutdown	05/17/2011 13:02							
End Job	05/17/2011 13:03							Rig up to Top Out Well.
Start Job	05/17/2011 16:04							Top Out job # 1. Top out truck was paid for on a separate SO#.
Other	05/17/2011 16:05		2	1.5			30.0	Fill lines with fresh water.
Pump Cement	05/17/2011 16:11		2	41			40.0	Top Out cement. 117 sks; 12.5 ppg; 1.97 cf3; 10.96 gal/sk. Got 1 BBL of Cement to surface.

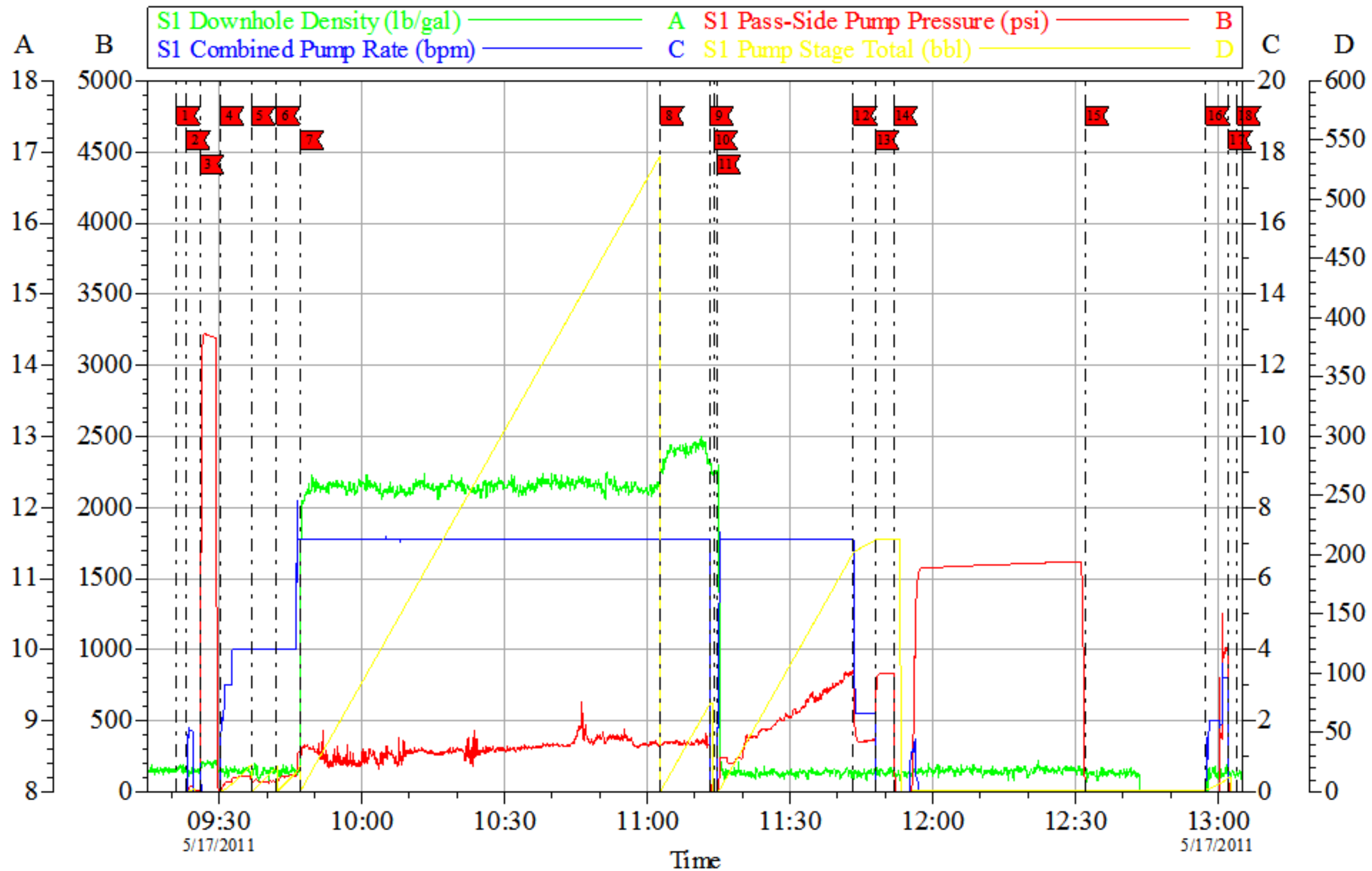
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	05/17/2011 16:33		2	0.5			30.0	Clear lines with 1/2 BBL fresh water.
Shutdown	05/17/2011 16:34							
End Job	05/17/2011 16:35							
Pre-Rig Down Safety Meeting	05/17/2011 16:45							Including entire cement crew.
Rig-Down Equipment	05/17/2011 17:00							
Rig-Down Completed	05/17/2011 18:00							
Pre-Convoy Safety Meeting	05/17/2011 18:30							Including entire cement crew.
Depart Location for Service Center or Other Site	05/17/2011 19:00							
Other	05/17/2011 19:00							Thank You for using Halliburton. Ed Arnold and crew.

OXY

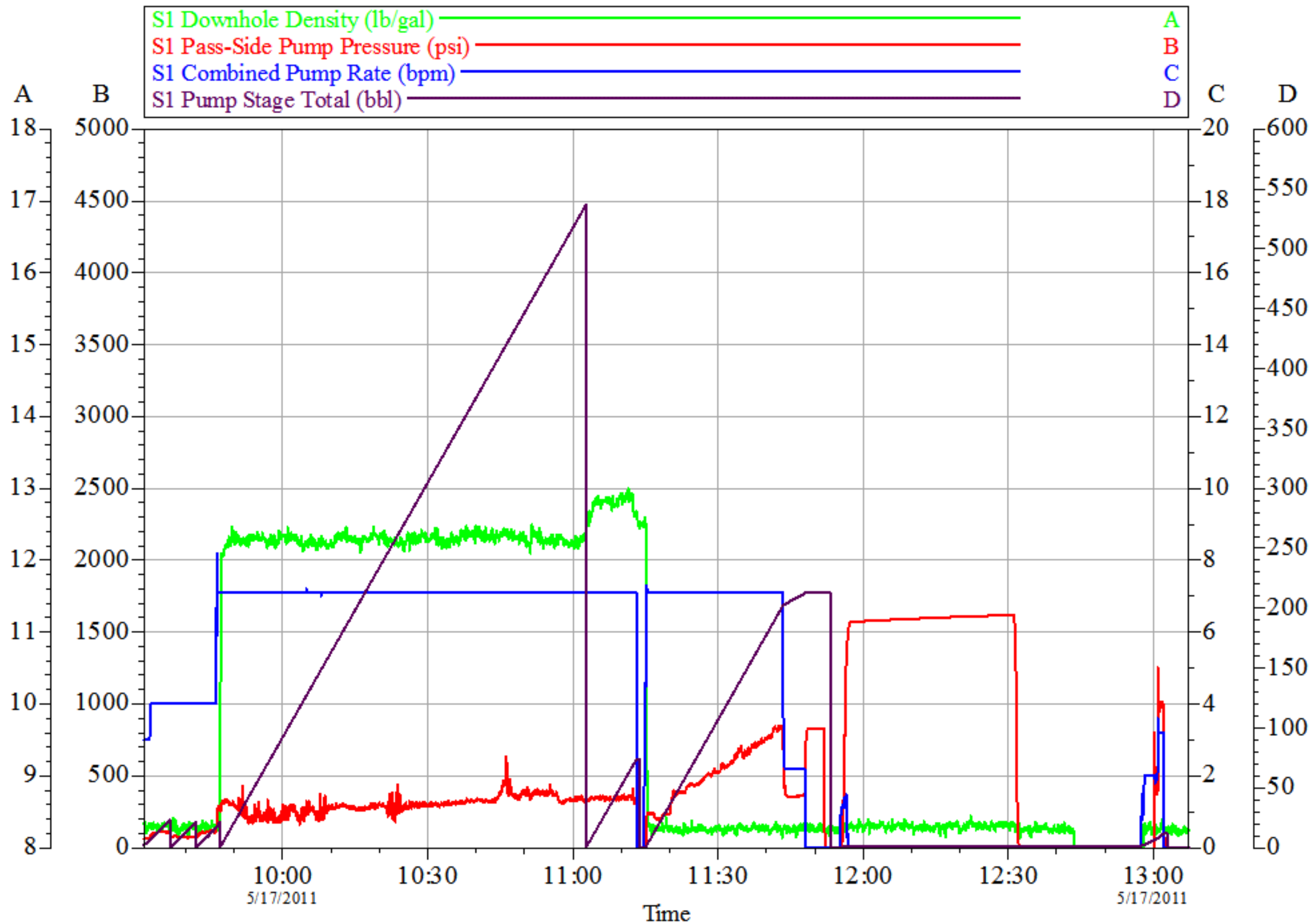
9.625 Surface

CC 697-08-08B



Customer: OXY	Job Date: 17-May-2011	Sales Order #: 8171885	OptiCem v6.4.8 17-May-11 13:42
Well Description: CC 697-08-08B	Job Type: 9.625 Surface	ADC Used: Yes	
Company Rep: Alex Villegas	Cement Supervisor: Ed Arnold	Elite # 1: Anthony Andrews	

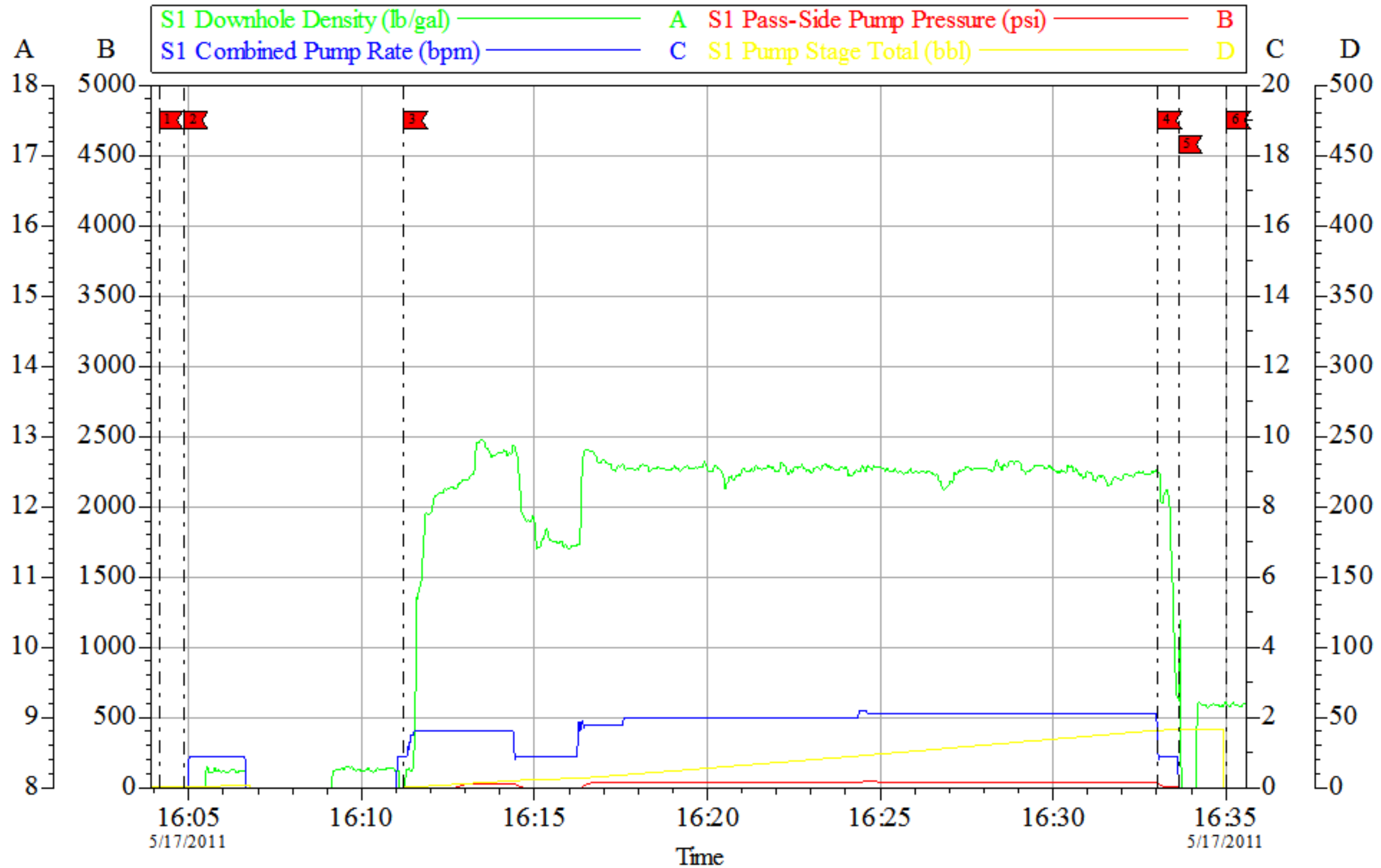
OXY



OXY

TOP OUT

CC 697-08-08B



Customer: OXY
 Well Description: CC 697-08-08B
 Company Rep: Henry Coombs

Job Date: 17-May-2011
 Job Type: TOP UOT
 Cement Supervisor: Ed Arnold

Sales Order #: 8171885
 ADC Used: YES
 Elite # 1: Anthony Andrews

OptiCem v6.4.8
 17-May-11 16:53

Sales Order #: 8171885	Line Item: 10	Survey Conducted Date: 5/17/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENNRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18128
Well Name: Cascade Creek		Well Number: 697-08-08B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

CATEGORY	CUSTOMER SATISFACTION RESPONSE	
Survey Conducted Date	The date the survey was conducted	5/17/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EDWARD ARNOLD (HX46731)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HENNRY COOMBS
HSE	Was our HSE performance satisfactory? Circle Y or N	Yes
Equipment	Were you satisfied with our Equipment? Circle Y or N	Yes
Personnel	Were you satisfied with our people? Circle Y or N	Yes
Customer Comment	Customer's Comment	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	No
Time	Please enter hours in decimal format to nearest quarter hour.	
Other	Enter short text for other efficiencies gained.	
Customer Initials	Customer's Initials	
Please provide details	Please describe how the job efficiencies were gained.	

CUSTOMER SIGNATURE

Sales Order #: 8171885	Line Item: 10	Survey Conducted Date: 5/17/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENNRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18128
Well Name: Cascade Creek		Well Number: 697-08-08B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/17/2011

Cementing KPI Survey	
Type of Job Select the type of job. (Cementing or Non-Cementing)	0
Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	8
HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only.	No
Was the job purpose achieved? Was the job delivered correctly as per customer agreed design?	Yes
Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format.	5
Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none.	0
Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
Number Of JSAs Performed Number Of Jsas Performed	5
Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time.	0
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8171885	Line Item: 10	Survey Conducted Date: 5/17/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENNRY COOMBS		API / UWI: (leave blank if unknown) 05-045-18128
Well Name: Cascade Creek		Well Number: 697-08-08B
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Top
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
Was Automated Density Control Used? Was Automated Density Control (ADC) Used ?	Yes
Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100	100
Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0