
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-71
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
23-May-2011

Post Job Report

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2855521	Quote #:	Sales Order #: 8190139
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: COOMBS, HENRY		
Well Name: CC	Well #: 697-05-71	API/UWI #: 05-045-20013	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.481 secs.	Long: W 108.238 deg. OR W -109 deg. 45 min. 42.89 secs.		
Contractor: H&P 353	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: ROYSTER, JACOB	Srvc Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
JAMISON, PRICE W	9	229155	JENSEN, SHANE Lynn	9	441759	NICKLE, RYON	9	454759
WADE, LOGAN D	9	488896	WALPOLE, DARREN Livingston	9	485294	WOLFE, JON P	9	485217

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025041	120 mile	10053558	120 mile	10296152C	120 mile	10741119	120 mile
10857016	120 mile	10897797	120 mile	10938658	120 mile	10938673	120 mile
10969711	120 mile	11259881	120 mile	6543	120 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/23/11	4	.5	5/24/11	3				

TOTAL	Total is the sum of each column separately							
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Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	23 - May - 2011	10:45	MST
Form Type		BHST	Job Started	23 - May - 2011	20:00	MST
Job depth MD	2703. ft	Job Depth TVD	Job Started	23 - May - 2011	23:33	MST
Water Depth		Wk Ht Above Floor	Job Completed	24 - May - 2011	02:59	MST
Perforation Depth (MD)	From	To	Departed Loc	24 - May - 2011	05:00	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
OPEN HOLE				14.75				.	2720.	.	2720.
SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2707.	.	2707.

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	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

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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	Water Spacer		20.00	bbl	8.4	.0	.0	6.0	
2	Gel Spacer		20.00	bbl	8.4	.0	.0	6.0	
3	Water Spacer		20.00	bbl	8.4	.0	.0	6.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62	6.0	12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6.0	10.67
	10.67 Gal	FRESH WATER							
6	Displacement		205.6	bbl	8.4	.0	.0	6.0	
Calculated Values		Pressures		Volumes					
Displacement	205.6	Shut In: Instant		Lost Returns	NO	Cement Slurry	498.4	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	180	Actual Displacement	205	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	773
Rates									
Circulating	RIG	Mixing	6	Displacement	6	Avg. Job	6		
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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Pre-Planned Job Procedure Single Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		<div>Max Psi</div>			
6	Test Lines	5000.0				
9	H2O SPACER	20.0				
10	Gel Water Spacer	20.0				
9	H2O SPACER	20.0				
13	LEAD CEMENT	435.7	1050	12.3	2.33	12.62
15	TAIL CEMENT	62.7	170	12.8	2.07	10.67
	Shut down					
	drop plug					
23	Displace with H2O	205.6				
26	Land Plug	600 PSI				
	Check Floats					
6	Casing Test	1500.0				
6	Release Psi					
	Parasight String	10.0				
	END JOB		Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
205.62	2703	43.00		2660.00	0.0773	653
PSI to Lift Pipe		*****Use Mud Scales on Each Tier*****				
Total Displacement	205.62					
CALCULATED DIFFERENTIAL PSI		600		TOTAL FLUID PUMPED		773
Collapse	2020	Burst	3520		SO#	8190139

The Road to Excellence Starts with Safety

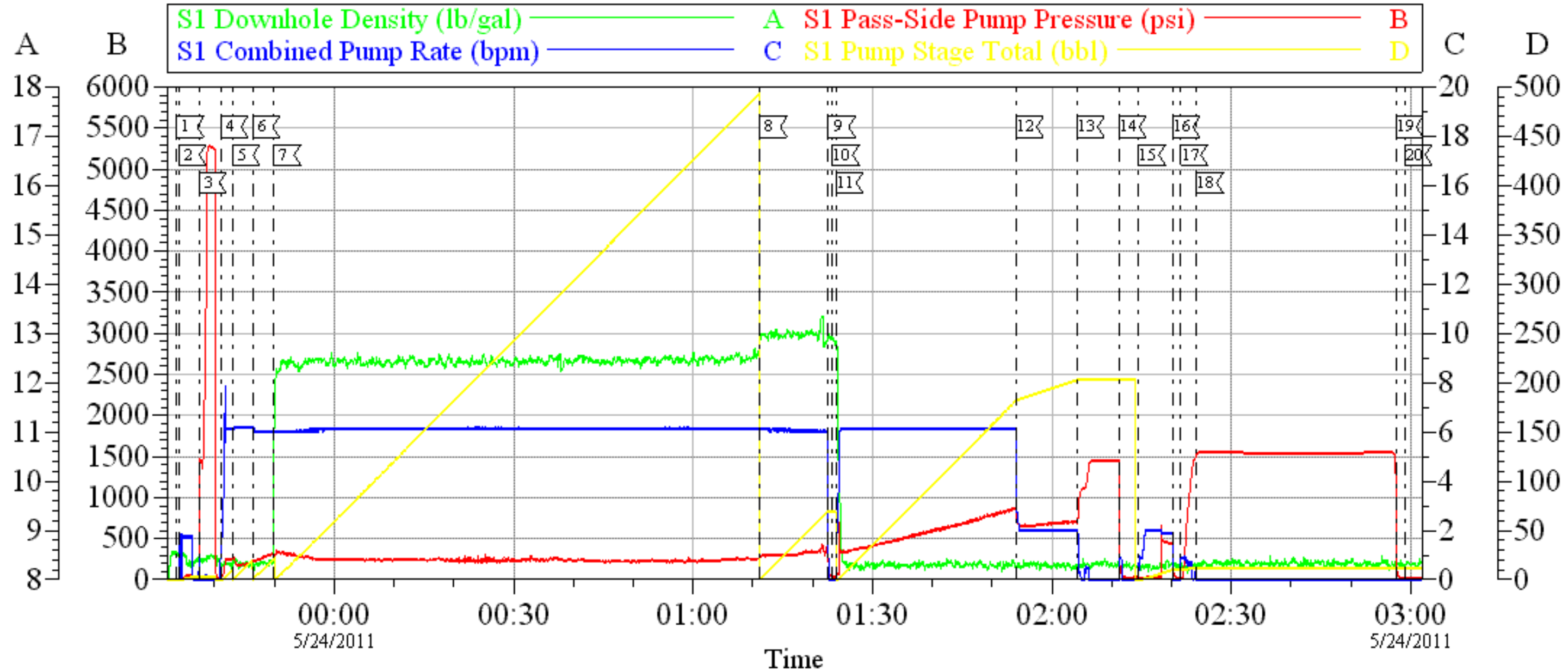
Sold To #: 344034	Ship To #: 2855521	Quote #:	Sales Order #: 8190139
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: COOMBS, HENRY	
Well Name: CC	Well #: 697-05-71	API/UWI #: 05-045-20013	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.481 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.89 secs.	
Contractor: H&P 353		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: ROYSTER, JACOB		Srv Supervisor: JAMISON, PRICE	MBU ID Emp #: 229155

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/23/2011 10:45							TD 2720 TP 2703 SURFACE CASING 9.625 36 PPF J-55 S.J 43 MUD 9.5 PPG HOLE SIZE 14.75 PARASIGHT STRING 2532 T.T.
Depart Yard Safety Meeting	05/23/2011 12:45							NO PRELOAD ALL TRUCKS CALLED OUT AT TIME OF JOB.
Crew Leave Yard	05/23/2011 13:00							
Arrive At Loc	05/23/2011 20:00							
Assessment Of Location Safety Meeting	05/23/2011 20:10							
Pre-Rig Up Safety Meeting	05/23/2011 21:30							
Pre-Job Safety Meeting	05/23/2011 23:00							
Start Job	05/23/2011 23:33							
Prime Pumps	05/23/2011 23:34		2	3			46.0	FRESH WATER
Test Lines	05/23/2011 23:37						5000. 0	
Pump Water	05/23/2011 23:40		6	20			240.0	FRESH WATER
Pump Spacer 1	05/23/2011 23:43		6	20			240.0	GEL WATER SPACER
Pump Water	05/23/2011 23:46		6	20			312.0	FRESH WATER
Pump Lead Cement	05/23/2011 23:49		6	435.7			330.0	MIXED @ 12.3 YIELD 2.33 WAT/REQ 12.62 1050 SKS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	05/24/2011 01:11		6	62.7				MIXED @ 12.8 PPG YIELD 2.07 WAT/REQ 10.67 170 SKS
Shutdown	05/24/2011 01:22							
Drop Plug	05/24/2011 01:23							
Pump Displacement	05/24/2011 01:24		6					FRESH WATER
Slow Rate	05/24/2011 01:54		2	180			871.0	
Bump Plug	05/24/2011 02:04		2	205.6			730.0	PRESSURED UP TO PSI 1452 PSI
Check Floats	05/24/2011 02:11							FLOATS HELD
Pump Water	05/24/2011 02:14		2	10		687.0		CLEAR PARASIGHT STRING WITH SUGER WATER
Shutdown	05/24/2011 02:20							
Release Tubing Pressure	05/24/2011 02:20							CHECK VALVE HOLDING
Pressure Up Well	05/24/2011 02:21							CASING TEST
Monitor Pressure	05/24/2011 02:24						1500.0	WATCH PRESSURE FOR 30 MINUTES
Release Casing Pressure	05/24/2011 02:57						1547.0	FLOATS HELD
End Job	05/24/2011 02:59							CASING WAS NOT MOVED THROUGHOUT JOB
Post-Job Safety Meeting (Pre Rig-Down)	05/24/2011 03:10							GOOD CIRCULATION THROUGHOUT JOB
Depart Location Safety Meeting	05/24/2011 04:50							CEMENT BACK TO SURFACE 180 BBLs
Crew Leave Location	05/24/2011 05:00							THANKS FOR USING HALLIBURTON BILL JAMISON & CREW

OXY

SURFACE CASING 9.625



Local Event Log					
1	START JOB	5/23/2011 23:33:39	2	PRIME LINES	5/23/2011 23:34:02
3	TEST LINES	5/23/2011 23:37:23	4	START FRESH WATER SPACER	5/23/2011 23:41:00
5	START GEL WATER SPACER	5/23/2011 23:43:02	6	START FRESH WATER SPACER	5/23/2011 23:46:20
7	START LEAD CEMENT	5/23/2011 23:49:54	8	START TAIL CEMENT	5/24/2011 01:11:09
9	SHUT DOWN	5/24/2011 01:22:37	10	DROP PLUG	5/24/2011 01:23:16
11	START DISPLACEMENT	5/24/2011 01:23:53	12	SLOW RATE	5/24/2011 01:54:03
13	BUMP PLUG	5/24/2011 02:04:14	14	CHECK FLOATS	5/24/2011 02:11:11
15	START WATER DOWN PARASIGHT STRING	5/24/2011 02:14:27	16	SHUT DOWN	5/24/2011 02:20:09
17	START CASING TEST	5/24/2011 02:21:32	18	WATCH PRESSURE	5/24/2011 02:24:08
19	RELEASE PRESSURE	5/24/2011 02:57:30	20	END JOB	5/24/2011 02:59:00

Customer: OXY
 Well Description: CC 697-05-71
 Company Rep: HENRY COOMBS

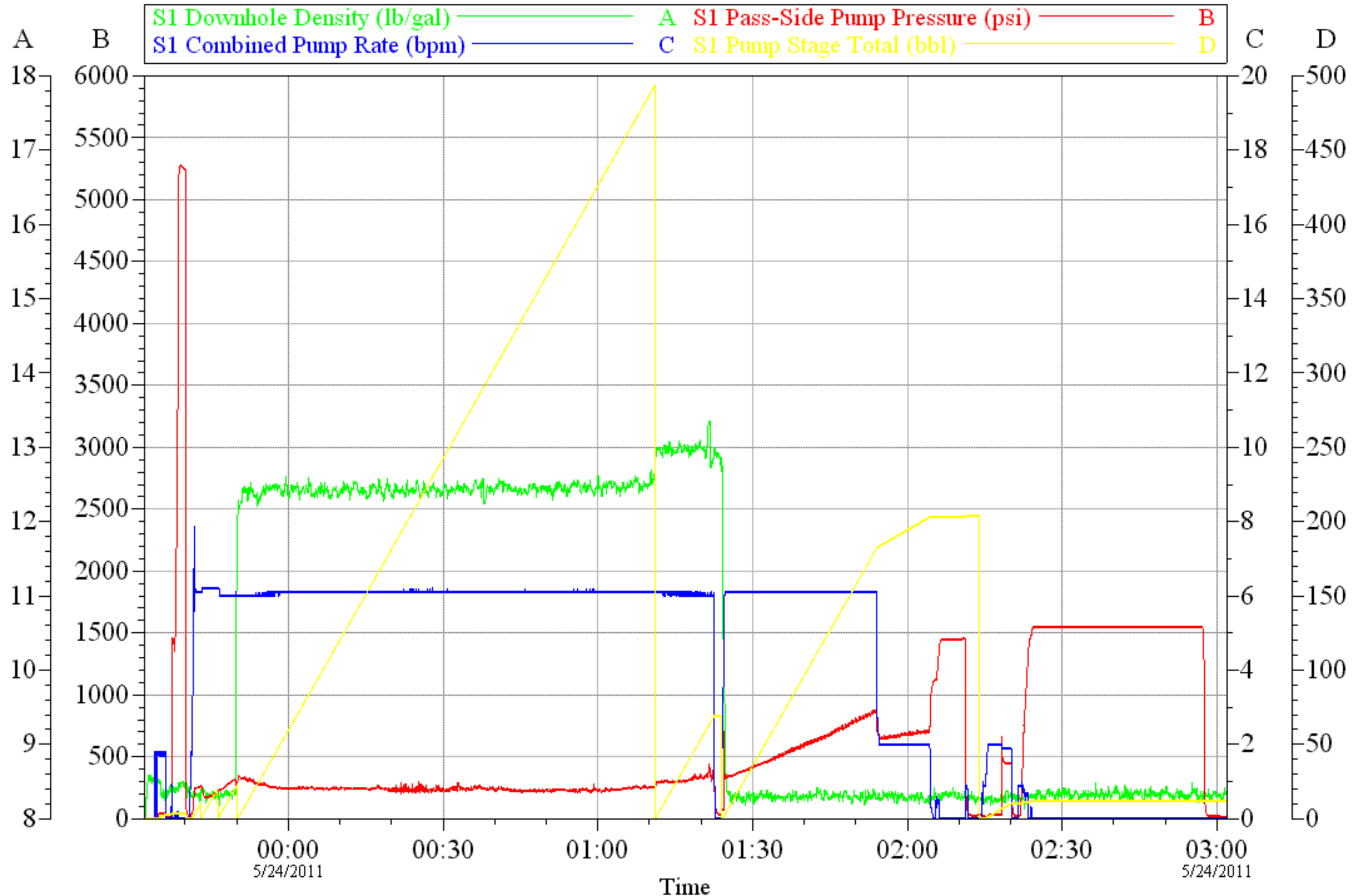
Job Date: 23-May-2011
 Job Type: CEMENT
 Cement Supervisor: BILL JAMISON

Sales Order #: 8190139
 ADC Used: YES
 Elite #9: SHANE JENSEN

OptiCem v6.4.9
 24-May-11 03:49

OXY

SURFACE CASING 9.625



Customer: OXY	Job Date: 23-May-2011	Sales Order #: 8190139
Well Description: CC 697-05-71	Job Type: CEMENT	ADC Used: YES
Company Rep: HENRY COOMBS	Cement Supervisor: BILL JAMISON	Elite #9: SHANE JENSEN

OptiCem v6.4.9
24-May-11 03:50

Water Analysis Report

Company: OXY
Submitted by: BILL JAMISON
Attention: J.Trout
Lease: C.C.
Well #: 697-05-71

Date: 5/23/2011
Date Rec.: 5/23/2011
S.O.#: 8190139
Job Type: SURFACE

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6.9</i>
Potassium (K)	<i>5000</i>	<i>400</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>250</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>-200</i> Mg / L
Chlorine (Cl ₂)		<i>0</i> Mg / L
Temp	<i>40-80</i>	<i>55</i> Deg
Total Dissolved Solids		<i>650</i> Mg / L

Respectfully: BILL JAMISON

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

Sales Order #: 8190139	Line Item: 10	Survey Conducted Date: 5/24/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20013
Well Name: CC		Well Number: 697-05-71
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	5/24/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	PRICE JAMISON (HAL9235)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HENRY 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	GOOD JOB
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 #: 8190139	Line Item: 10	Survey Conducted Date: 5/24/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20013
Well Name: CC		Well Number: 697-05-71
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/24/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	3.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	0
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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

Sales Order #: 8190139	Line Item: 10	Survey Conducted Date: 5/24/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20013
Well Name: CC		Well Number: 697-05-71
Well Type: Development Well	Well Country: United States of America	
H2S Present:	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	98
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