
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-69
CASCADE CREEK
Garfield County , Colorado**

**Cement Surface Casing
30-May-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2856857		Quote #:		Sales Order #: 8207338	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Adams, Derick			
Well Name: CC			Well #: 697-05-69		API/UWI #: 05-045-20012		
Field: CASCADE CREEK		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.416 secs.				Long: W 108.238 deg. OR W -109 deg. 45 min. 42.84 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: ROYSTER, JACOB			Srvc Supervisor: DANIEL, EVERETT			MBU ID Emp #: 337325	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DANIEL, EVERETT Dean	12	337325	ROSE, BENJAMIN Keith	12	487022	SIMINEO, JEROD M	12	479954
STILLSON, ERIC W	12	393789						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10053558	120 mile	10296152C	120 mile	10783493	120 mile	10822007	120 mile
10897797	120 mile	10951244	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
5/30/11	12	6						
TOTAL	12	6	<i>Total is the sum of each column separately</i>					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	2720. m	2720. m				
						5. m				

Job Times

Date	Time	Time Zone
30 - May - 2011	04:00	MST
30 - May - 2011	09:00	MST
30 - May - 2011	16:27	MST
30 - May - 2011	19:36	MST
30 - May - 2011	21:00	MST

Well Data

Description	New / Used	Max pressure MPa	Size mm	ID mm	Weight kg/m	Thread	Grade	Top MD m	Bottom MD m	Top TVD m	Bottom TVD m
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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	9.625	1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	
Stage Tool										Centralizers		13	

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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne
1	Water Spacer		20	bbl	8.33	.0	.0	.0	
2	Gel Spacer		20	bbl	.	.0	.0	.0	
3	Water Spacer		20	bbl	.	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050	sacks	12.3	2.33	12.62		12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	150	sacks	12.8	2.07	10.67		10.67
		10.67 Gal	FRESH WATER						
6	Displacement		204.4	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	0	sacks	12.5	1.97	10.96		10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	204.4	Shut In: Instant		Lost Returns		Cement Slurry	386.8	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	84	Actual Displacement	204.4	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	48.97 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					

H&P 353

Pre-Planned Job Procedure Single Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job					
6	Test Lines	2000.0				
9	H2O Spacer	20.0				
10	Gel Spacer	20.0				
9	H2O Spacer	20.0				
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	55.3	150	12.8	2.07	10.67
22	Displacement	204.4		Mud Wt.	9.9	
1085	Slow Rate	194.4		Casing	9.625	36
26	Land Plug	555		Open Hole	14.75	
	Release Psi / Job Over	1055				
	Check Floats					
22	END JOB					
				Disp Fluid	8.33	
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		ANN FACTOR	BBL/FT	H2O REQ.
204.38	2693	48.97		0.1214	0.0773	618
PSI to Lift P	1130.9	***** <u>Use Mud Scales on Each Tier</u> *****				
Total Requirement	204.38					
CALCULATED DIFFERENTIAL PSI		555		TOTAL FLUID PUMPED		755
Collapse	1400	Burst	2270		S.O.#	8207338
HOT	424.3	TOT	2268.7	Company Rep: Henry Coombs		
Bbls to Pit	160.3					

The Road to Excellence Starts with Safety

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Well Name: CC	Well #: 697-05-69	API/UWI #: 05-045-20012	
Field: CASCADE CREEK	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.416 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.84 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: ROYSTER, JACOB		Srvc Supervisor: DANIEL, EVERETT	MBU ID Emp #: 337325

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/30/2011 04:00							
Depart Yard Safety Meeting	05/30/2011 05:45							
Depart from Service Center or Other Site	05/30/2011 06:00							Checked out HES pump (Elite 9), Body load, Compressor Trailer
Arrive at Location from Service Center	05/30/2011 09:00							Arrived 3 hr. early. Did not start charging time until 1200
Assessment Of Location Safety Meeting	05/30/2011 09:05							
Consult with Co. Rep.	05/30/2011 09:10							Verified calculations and materials on location including H2O and Cement totals
Safety Meeting - Pre Rig-Up	05/30/2011 09:15							Discussed job procedures and safety issues
Rig-Up Equipment	05/30/2011 09:30							
Rig-Up Completed	05/30/2011 10:30							
Safety Meeting - Pre Job	05/30/2011 16:15							Discussed job procedures and safety issues
Start Job	05/30/2011 16:27							
Prime Pumps	05/30/2011 16:27		2	2			69.0	Fresh Water
Test Lines	05/30/2011 16:31		0.5	0.1			2300.0	Fresh Water
Pump Spacer 1	05/30/2011 16:35		4	20			149.0	Fresh Water
Pump Spacer 2	05/30/2011 16:39		6	20			190.0	LGC Gel Spacer

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	05/30/2011 16:45		6	20			285.0	Fresh Water
Pump Lead Cement	05/30/2011 16:51		6	331			351.0	1050 sks of VersaCem @ 12.3# - 2.33 yield - 12.62 H2O requirement
Pump Tail Cement	05/30/2011 17:46		6	55.3			325.0	150 sks of VersaCem @ 12.8# - 2.07 yield - 10.67 H2O requirement
Shutdown	05/30/2011 17:56							Cut lead cement short by appx. 100 bbls as per Co. Rep.
Drop Top Plug	05/30/2011 17:56							
Pump Displacement	05/30/2011 17:57		6	204.4			851.0	KCL Displacement
Slow Rate	05/30/2011 18:29		2	194			638.0	Slowed to 4 bpm
Bump Plug	05/30/2011 18:33		2	204.4			1300.0	Bumped Plug @ calculated displacement and 500 psi over
Check Floats	05/30/2011 18:36							Floats Held
Pressure Test	05/30/2011 18:39						1589.0	Casing Pressure Test
Release Casing Pressure	05/30/2011 19:09							Discussed job procedures and safety issues
Pump Down Parasite String	05/30/2011 19:26		1	10			133.0	Pump 10 bbls sugar water down parasite, 4.2 bbls returned to surface
End Job	05/30/2011 19:36							
Safety Meeting - Pre Rig-Down	05/30/2011 19:40							
Rig-Down Equipment	05/30/2011 19:45							
Rig-Down Completed	05/30/2011 20:45							
Safety Meeting - Departing Location	05/30/2011 20:50							
Depart Location for Service Center or Other Site	05/30/2011 21:00							

Total Depth = 2710, Total Casing = 2693, Shoe Joint = 48.97, Mud Weight = 9.9# . Casing remained stationary throughout job and was chained down. 84 bbls of cement returned to surface. 522 bbls of H2O were used for the job and 30 bbls were used for clean up (after the job) The plug landed at calculated displacement and the floats held. Appx. 250 sks lead left in bin.

Thank you for using Grand Junction Halliburton Dean Daniel & Crew

Sold To # : 344034

Ship To # : 2856857

Quote # :

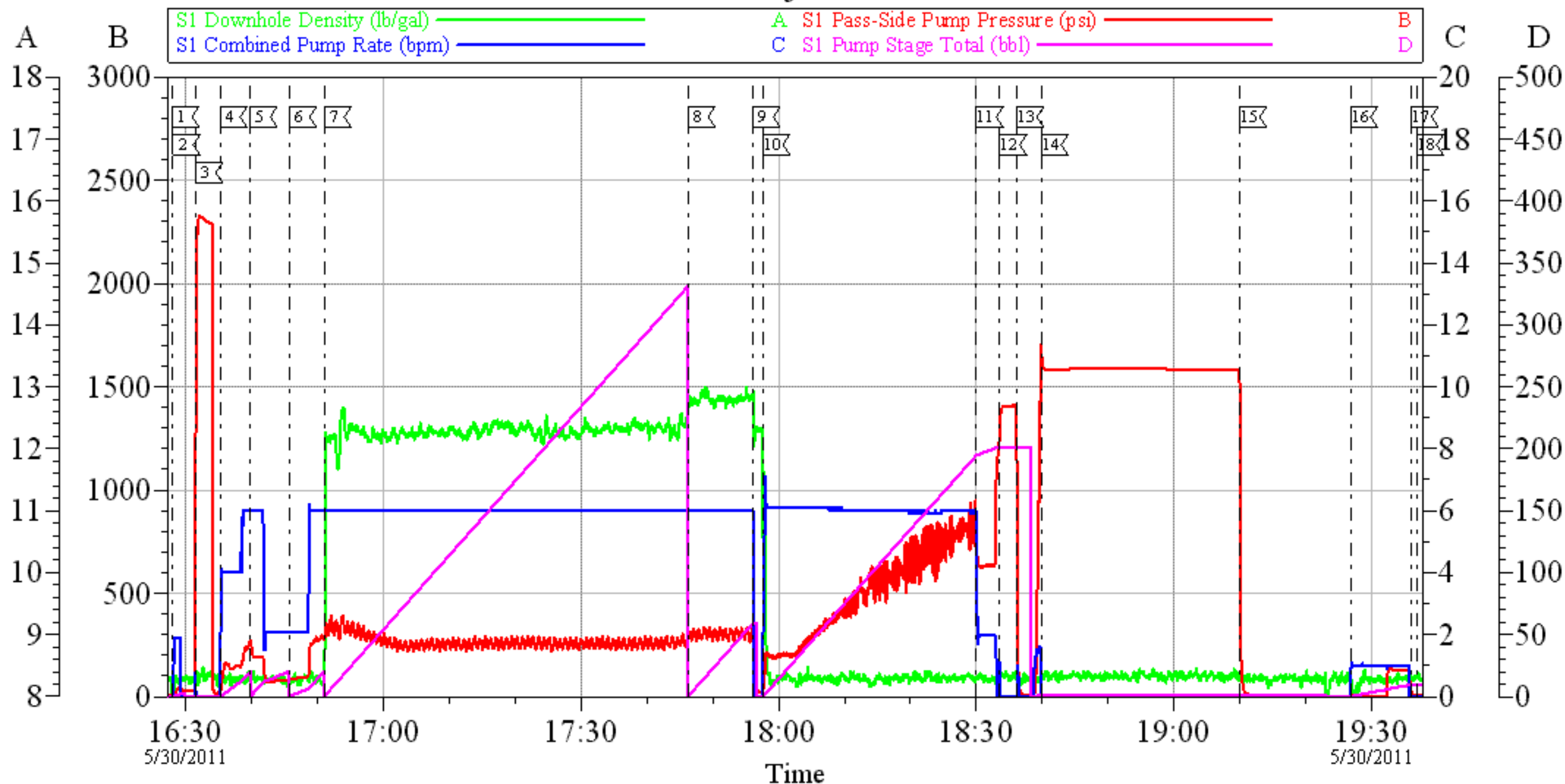
Sales Order # :

8207338

SUMMIT Version: 7.20.130

Thursday, June 02, 2011 10:20:00

OXY Surface



Local Event Log					
1 Start Job	16:27:53	2 Prime Lines	16:28:04	3 Test Lines	16:31:30
4 Pump H2O Spacer	16:35:11	5 Pump Gel Spacer	16:39:46	6 Pump H2O Spacer	16:45:44
7 Pump Lead Cement	16:51:01	8 Pump Tail Cement	17:46:14	9 Shut Down/Drop Top Plug	17:56:08
10 Pump H2O Displacement	17:57:35	11 Slow Rate	18:29:58	12 Bump Plug	18:33:33
13 Check Floats	18:36:06	14 Pressure Test Casing	18:39:49	15 Release Casing Pressure	19:09:56
16 Pump Down Parasite	19:26:47	17 End Job	19:36:02	18 Shut Down	19:36:49

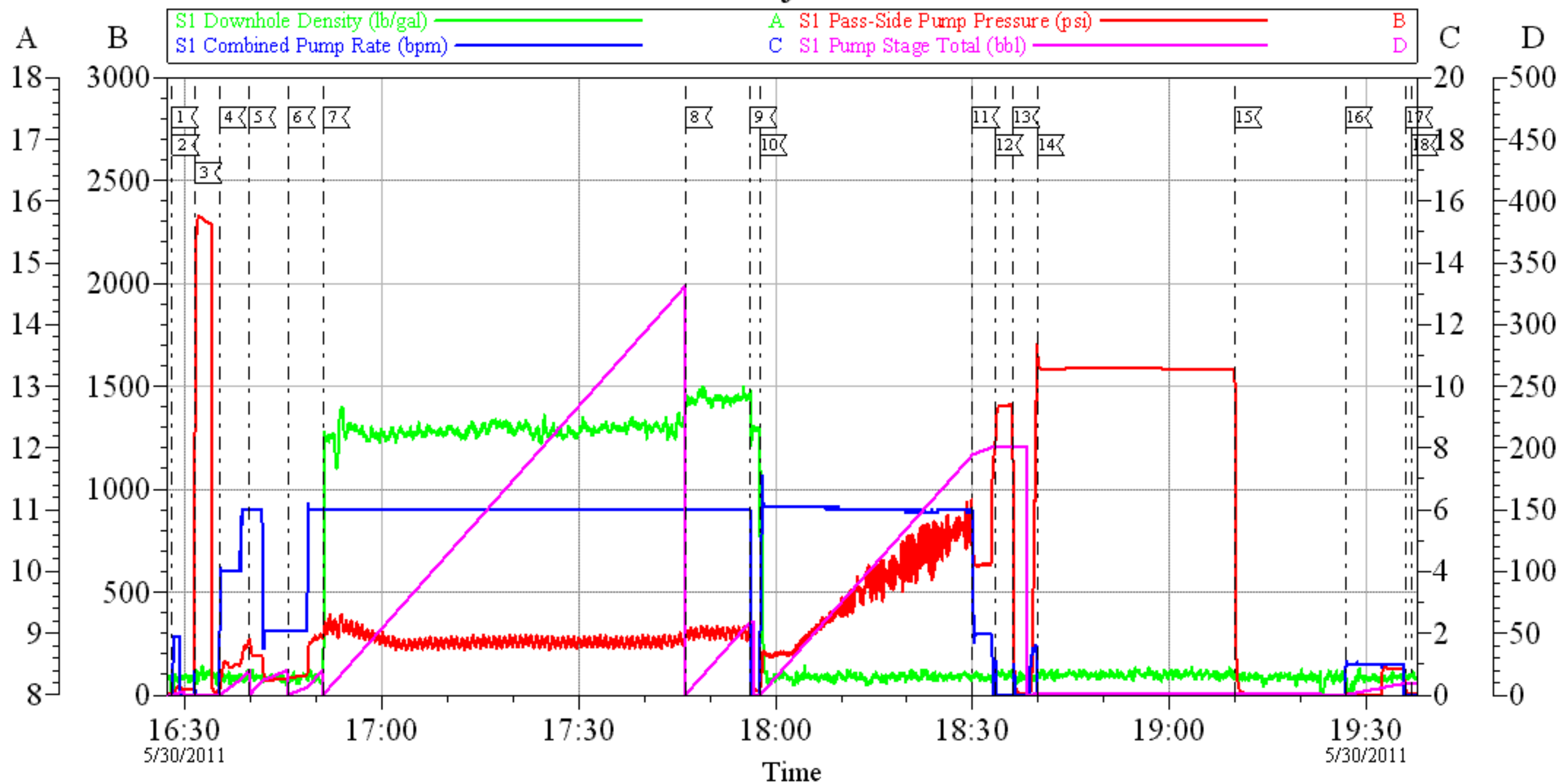
Customer: Oxy
Well Description: CC-697-05-69
Company Rep: Henry Coombs

Job Date: 30-May-2011
Job Type: Surface
Cement Supervisor: Dean Daniel

Sales Order #: 8207338
ADC Used: Yes
Elite #/Operator: 9/Eric Stillson

OptiCem v6.4.10
30-May-11 19:37

OXY Surface



HALLIBURTON

Water Analysis Report

Company: LARAMIE

Date: 5/18/2008

Submitted by: STAN GATLIN

Date Rec.: 5/18/2008

Attention: J.Trout

S.O.# 5896011

Lease

Job Type: SURFACE

Well #

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>7</i>
Potassium (K)	<i>5000</i>	<i>220</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>200</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>60</i> Deg
Total Dissolved Solids		<i>380</i> Mg / L

Respectfully: STAN GATLIN

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

Sales Order #: 8207338	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20012
Well Name: CC		Well Number: 697-05-69
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	5/30/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	EVERETT DANIEL (HX13055)
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	
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 #: 8207338	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20012
Well Name: CC		Well Number: 697-05-69
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	5/30/2011

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.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	6
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.	3
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	7
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 #: 8207338	Line Item: 10	Survey Conducted Date: 5/30/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COOMBS		API / UWI: (leave blank if unknown) 05-045-20012
Well Name: CC		Well Number: 697-05-69
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	95
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