
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-22A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
26-Oct-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 8551944	Quote #:	Sales Order #: 8551944
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Wylie, Cal		
Well Name: CC	Well #: 697-05-22A	API/UWI #: 05-045-20361	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.	Long: W 108.242 deg. OR W -109 deg. 45 min. 27.756 secs.		
Contractor: H&P Drilling	Rig/Platform Name/Num: H&P353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: HIMES, JEFFREY	Srvc Supervisor: ANDREWS, ANTHONY	MBU ID Emp #: 321604	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANDREWS, ANTHONY Michael		321604	ARNOLD, EDWARD John		439784	MILLER II, MATTHEW Reginald		425164
SPARKS, CLIFFORD Paul		502476						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/26/11	13	8						
TOTAL	Total is the sum of each column separately							

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	25 - Oct - 2011	17:15	MST
Form Type	BHST		Job Started	26 - Oct - 2011	05:30	MST
Job depth MD	2693. ft	Job Depth TVD	Job Completed	26 - Oct - 2011	10:27	MST
Water Depth		Wk Ht Above Floor	Departed Loc	26 - Oct - 2011	16:26	MST
Perforation Depth (MD)	From	To			18:30	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
14 3/4" Open Hole				14.75				.	2750.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2750.		

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

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	bbl	8.33	.0	.0	.0	
2	Gel Spacer		20	bbl	.	.0	.0	.0	
3	Water Spacer		20	bbl	.	.0	.0	.0	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1060	sacks	12.3	2.33	12.62		12.62
12.62 Gal		FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	150	sacks	12.8	2.07	10.67		10.67
10.67 Gal		FRESH WATER							
6	Displacement		204.6	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	50	sacks	12.5	1.97	10.96		10.96
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	204.6	Shut In: Instant		Lost Returns	Y	Cement Slurry	509.3	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	1	Actual Displacement	204.6	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	754
Rates									
Circulating	RIG	Mixing	6	Displacement	6-2	Avg. Job	6		
Cement Left In Pipe	Amount	46 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					

The Road to Excellence Starts with Safety

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Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Wylie, Cal	
Well Name: CC	Well #: 697-05-22A	API/UWI #: 05-045-20361	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.56 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 27.756 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P353	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: HIMES, JEFFREY		Srv Supervisor: ANDREWS, ANTHONY	MBU ID Emp #: 321604

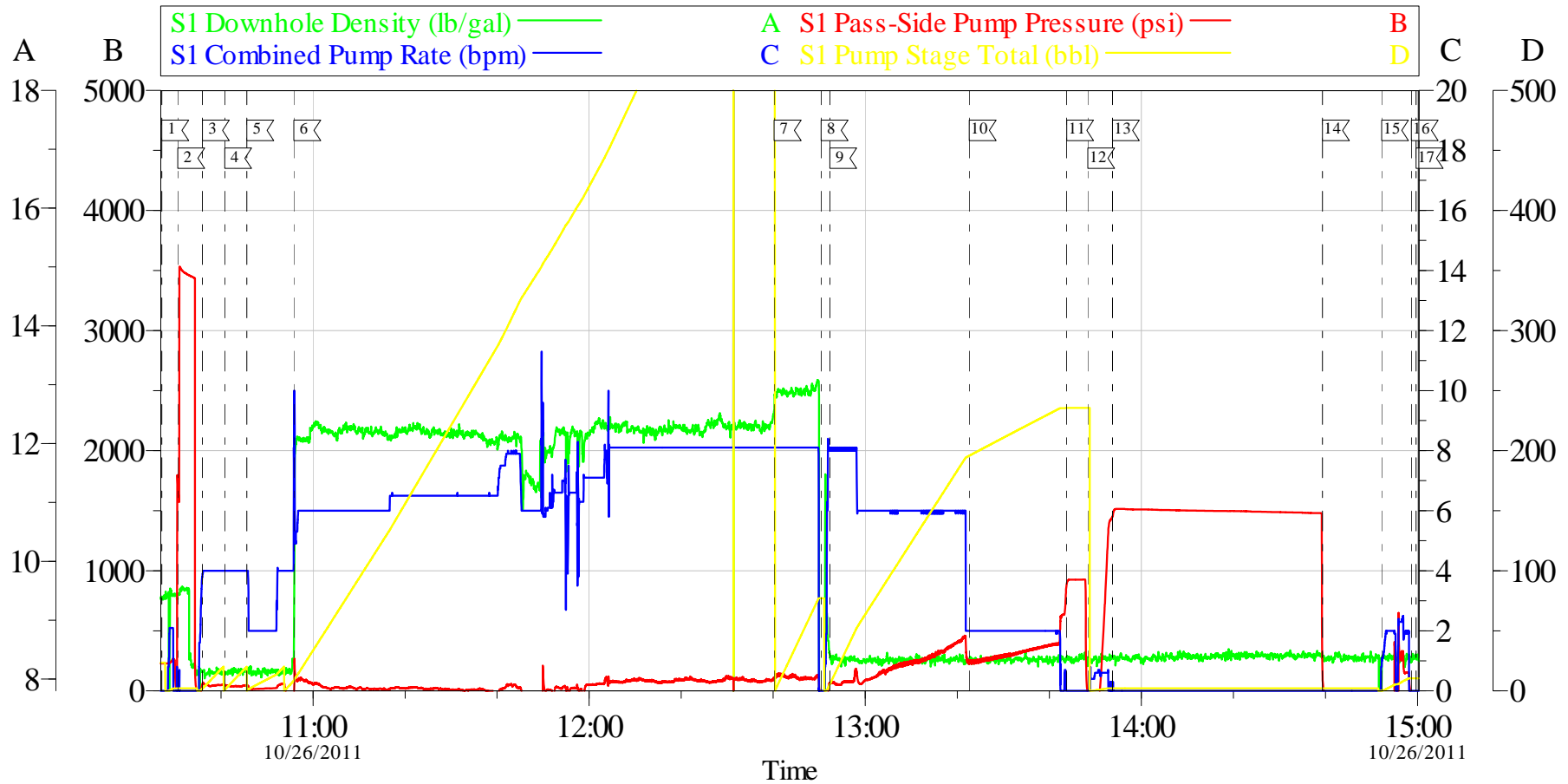
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/25/2011 17:15							
Pre-Convoy Safety Meeting	10/25/2011 19:30							
Crew Leave Yard	10/25/2011 20:00							
Arrive At Loc	10/26/2011 05:30							CREW WAS REQUESTED TO BE ON LOCATION AT 0200 11/26/11 BUT WAS LATE DUE TO ADVERSE WEATHER/ROAD CONDITIONS, CREW ARRIVED ON LOCATION @ 0530 11/26/11 RIG WAS STILL RUNNING CASING NO DELAY CAUSED BY HES TARDINESS.
Assessment Of Location Safety Meeting	10/26/2011 05:45							
Other	10/26/2011 08:40							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	10/26/2011 08:50							
Rig-Up Equipment	10/26/2011 09:00							
Pre-Job Safety Meeting	10/26/2011 10:00							
Start Job	10/26/2011 10:27							TD: 2715 TP: 2693 SJ: 46' MW: 9.7 9.625" 36#/FT CSG IN 14.75" OH

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	10/26/2011 10:30							3000 PSI TEST
Pump Spacer	10/26/2011 10:35		4	20			58.0	FRESH H2O SPACER 1
Pump Spacer	10/26/2011 10:40		4	20			50.0	LGC SPACER
Pump Spacer	10/26/2011 10:45		4	20			43.0	FRESH H2O SPACER 2
Pump Lead Cement	10/26/2011 10:55		6	440			89.0	1060 SKS @ 12.3 PPG 2.33 YLD 12.62 GAL/SK H2O. TUFF FIBER CAUSED PUMPS TO CAVITATE, CAUSING PUMP VOLUME TO BE OFF OF ACTUAL. GAINED RETURNS @ +/- 300 BBLs AWAY ON LEAD
Pump Tail Cement	10/26/2011 12:40		6	55.3			102.0	150 SKS @ 12.8 PPG 2.07 YLD 10.67 GAL/SK H2O
Shutdown	10/26/2011 12:50							
Drop Plug	10/26/2011 12:50							PLUG AWAY
Pump Displacement	10/26/2011 12:52		6		204.6		476.0	FRESH H2O DISPLACEMENT, LOST RETURNS AS SOON AS WE STARTED DISPLACEMENT, HAD NO RETURNS FOR THE REMAINDER OF THE JOB.
Slow Rate	10/26/2011 13:22		2	170			229.0	
Bump Plug	10/26/2011 13:43		2	204.6			889.0	PLUG BUMPED @ CALCULATED DISPLACEMENT
Check Floats	10/26/2011 13:48							FLOATS HELD
Pressure Test	10/26/2011 13:53		1	1.5			1511.0	30 MINUTE CASING PRESSURE TEST. TEST HELD
Release Casing Pressure	10/26/2011 14:39							
Other	10/26/2011 14:52		2	10			400.0	PUMP SUGAR WATER DOWN PARASITE
Shutdown	10/26/2011 14:58							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	10/26/2011 14:59							
Other	10/26/2011 15:45							PREPARE FOR TOPOUT
Start Job	10/26/2011 16:04							
Pump Water	10/26/2011 16:05		1.5	2		.0		PUMP WATER AHEAD TO VERIFY LINES ARE CLEAR
Pump Cement	10/26/2011 16:05		3	8		70.0		APPROX 23 SKS (8BBLs) TOPOUT CEMENT USED TO TOPOUT CC 697-05- 22A
Shutdown	10/26/2011 16:09							AT 8 BBL AWAY GAINED CMT CIRCULATION TO SURFACE
Pump Cement	10/26/2011 16:17		3	6		75.0		CUSTOMER REQUESTED THAT WE TOP OUT A PREVIOUS WELL, PUMPED APPROX 18 SKS (6 BBLs) CMT TO TOPOUT THE WELL.
Pump Water	10/26/2011 16:22		1.5	2		.0		PUMPED H2O INTO CELLAR TO CLEAR LINES
Shutdown	10/26/2011 16:26							MIXED A TOTAL OF APPROX 50 SKS TOPOUT CEMENT OUT OF THE 352 SKS THAT WAS IN 1200FT3 SILO ON LOCATION.
End Job	10/26/2011 16:26							
Post-Job Safety Meeting (Pre Rig-Down)	10/26/2011 17:25							
Rig-Down Equipment	10/26/2011 17:30							
Pre-Convoy Safety Meeting	10/26/2011 18:25							
Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Crew Leave Location	10/26/2011 18:30							THANK YOU FOR CHOOSING HALLIBURTON CEMENTING OF GRAND JUNCTION, COLORADO ANTHONY ANDREWS AND CREW
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OXY - HP 353
9 5/8" SURFACE

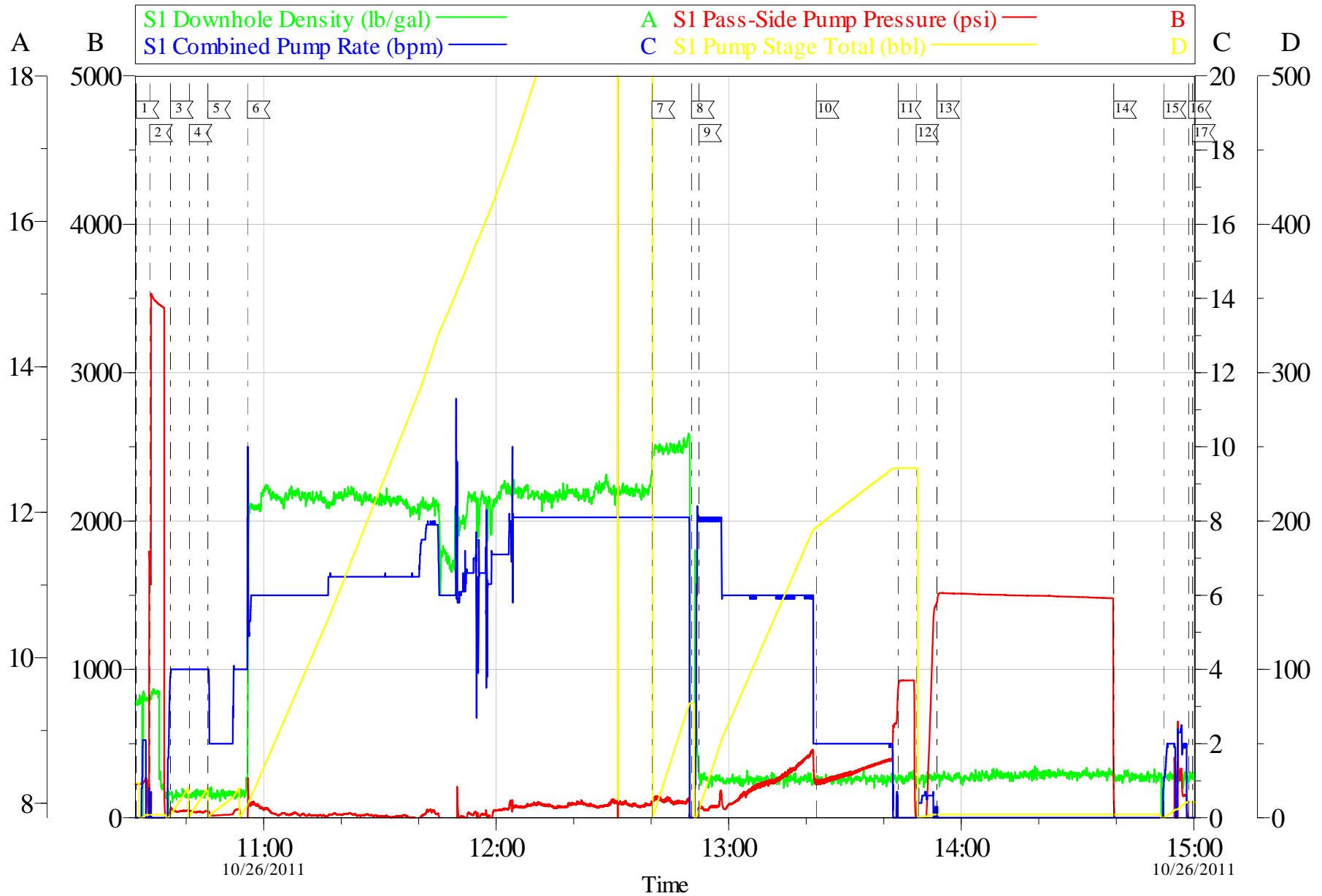


Local Event Log			
Intersection	SPPP	Intersection	SPPP
[1] START JOB	10:27:08 229.0	[2] TEST LINES	10:30:37 1723
[4] PUMP GEL SPACER	10:40:49 50.00	[5] PUMP H2O SPACER 2	10:45:38 43.93
[7] PUMP TAIL CEMENT	12:40:12 102.1	[8] SHUTDOWN/DROP PLUG	12:50:24 -35.24
[10] SLOW RATE	13:22:35 229.0	[11] BUMP PLUG	13:43:47 889.6
[13] PRESSURE TEST CSG	13:53:43 1451	[14] RELEASE PSI	14:39:21 164.3
[16] SHUTDOWN	14:58:40 -17.11	[17] END JOB	14:59:43 -26.00
		[3] PUMP H2O SPACER 1	10:35:58 58.00
		[6] PUMP LEAD CEMENT	10:55:50 -24.64
		[9] PUMP DISPLACEMENT	12:52:17 65.11
		[12] CHECK FLOATS	13:48:21 -15.08
		[15] PUMP DOWN PARASITE	14:52:13 -29.00

Customer: OXY	Job Date: 26-Oct-2011	Sales Order #: 8551944
Well Description: CC 697-05-22A	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VILLEGAS	Cement Supervisor: ANTHONY ANDREWS	Elite #: 1/ REGGIE MILLER

OptiCem v6.4.10
26-Oct-11 15:29

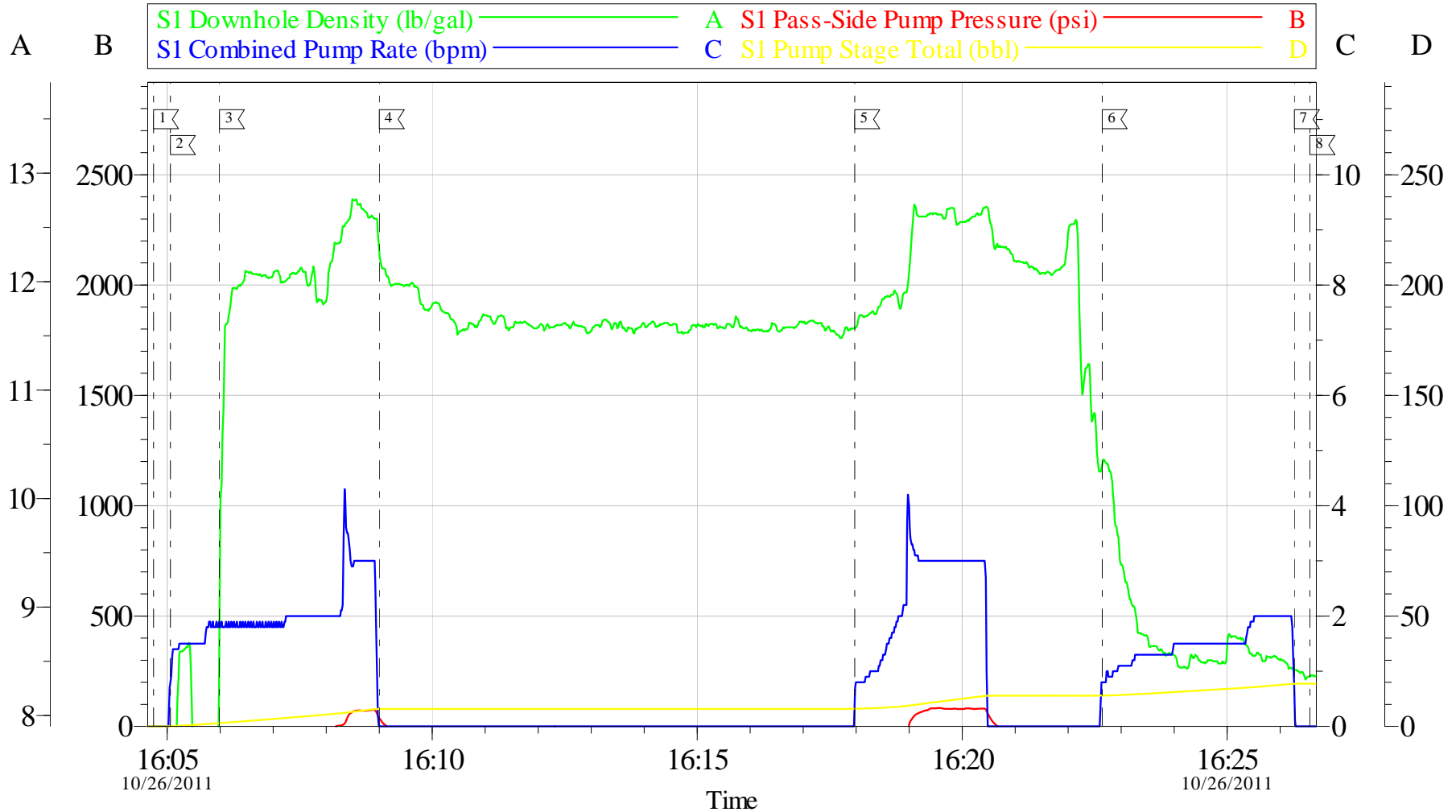
OXY - HP 353
9 5/8" SURFACE



Customer: OXY	Job Date: 26-Oct-2011	Sales Order #: 8551944
Well Description: CC 697-05-22A	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VILLEGAS	Cement Supervisor: ANTHONY ANDREWS	Elite #: 1/ REGGIE MILLER

OptiCem v6.4.10
26-Oct-11 15:30

OXY- HP 353 TOPOUT



Local Event Log								
Intersection		SPPP	Intersection		SPPP	Intersection		SPPP
1	START JOB	16:04:45 -35.00	2	PUMP WATER	16:05:04 -32.11	3	PUMP CEMENT	16:05:59 -32.00
4	SHUTDOWN	16:09:00 38.07	5	PUMP CEMENT	16:17:58 -33.00	6	PUMP WATER	16:22:39 -4.980
7	SHUTDOWN	16:26:16 -25.00	8	END JOB	16:26:34 -28.00			

Customer: OXY	Job Date: 26-Oct-2011	Sales Order #: 8551944
Well Description: CC 697-05-22A	Job Type: SURFACE/ TOPOUT	ADC Used: YES
Company Rep: ALEX VILLEGAS	Cement Supervisor: ANTHONY ANDREWS	Elite #: 1/ REGGIE MILLER

OptiCem v6.4.10
26-Oct-11 16:40

Sales Order #: 8551944	Line Item: 10	Survey Conducted Date: 10/26/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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	10/26/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ANTHONY ANDREWS (HAM3833)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N	
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 #: 8551944	Line Item: 10	Survey Conducted Date: 10/26/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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	10/26/2011
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	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	8
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)	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	7
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 #: 8551944	Line Item: 10	Survey Conducted Date: 10/26/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-20361
Well Name: CC		Well Number: 697-05-22A
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	90
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	90
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