
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-28A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
21-Oct-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2884985	Quote #:	Sales Order #: 8474641
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Kneese, Jeremy		
Well Name: CC	Well #: 697-05-28A	API/UWI #: 05-045-20374	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.38 secs.	Long: W 108.242 deg. OR W -109 deg. 45 min. 27.576 secs.		
Contractor: H&P 330	Rig/Platform Name/Num: H&P 330		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: ROYSTER, JACOB	Srv 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	26	337325	HUGENTOBLE, LOGAN Mark	26	447333	POLLOCK, GARETH	14	498459
ROSE, BENJAMIN Keith	26	487022	SIMINEO, JEROD M	26	479954			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10713212	120 mile	10744648C	120 mile	10867304	120 mile	10897849	120 mile
10998054	120 mile	10998508	120 mile	11583932	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
10/20/11	20	6	10/21/11	6	3			

TOTAL	26	9	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	19 - Oct - 2011	21:30	MST
Form Type	BHST		Job Started	20 - Oct - 2011	04:00	MST
Job depth MD	2700. m	Job Depth TVD	Job Started	20 - Oct - 2011	12:06	MST
Water Depth		Wk Ht Above Floor	Job Completed	21 - Oct - 2011	04:14	MST
Perforation Depth (MD)	From	To	Departed Loc	21 - Oct - 2011	06:00	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			
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 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)	1069	sacks	12.3	2.33	12.62		12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	177	sacks	12.8	2.07	10.67		10.67
		10.67 Gal	FRESH WATER						
6	Displacement		201	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	414	sacks	12.5	1.97	10.96		10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	201	Shut In: Instant		Lost Returns		Cement Slurry	654.9	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	8	Actual Displacement	201	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 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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Well Name: CC	Well #: 697-05-28A	API/UWI #: 05-045-20374	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.38 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 27.576 secs.	
Contractor: H&P 330		Rig/Platform Name/Num: H&P 330	
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	10/19/2011 21:30							
Depart Yard Safety Meeting	10/20/2011 00:00							
Depart from Service Center or Other Site	10/20/2011 00:30							Checked out HES pump (Elite 6), 660
Arrive at Location from Service Center	10/20/2011 04:00							Arrived 1 hr. early. Did not start charging time until 0600
Assessment Of Location Safety Meeting	10/20/2011 04:00							
Consult with Co. Rep.	10/20/2011 04:05							Verified calculations and materials on location including H2O and Cement totals
Safety Meeting - Pre Rig-Up	10/20/2011 04:15							Discussed job procedures and safety issues
Rig-Up Equipment	10/20/2011 04:30							
Rig-Up Completed	10/20/2011 05:30							
Safety Meeting - Pre Job	10/20/2011 11:45							Discussed job procedures and safety issues
Start Job	10/20/2011 12:06							
Prime Pumps	10/20/2011 12:06		2	2			17.0	Fresh Water
Test Lines	10/20/2011 12:08		0.5	0.1			2300.0	Fresh Water
Pump Spacer 1	10/20/2011 12:15		3	20			23.0	Fresh Water
Pump Spacer 2	10/20/2011 12:22		6	20			71.0	LGC Gel Spacer

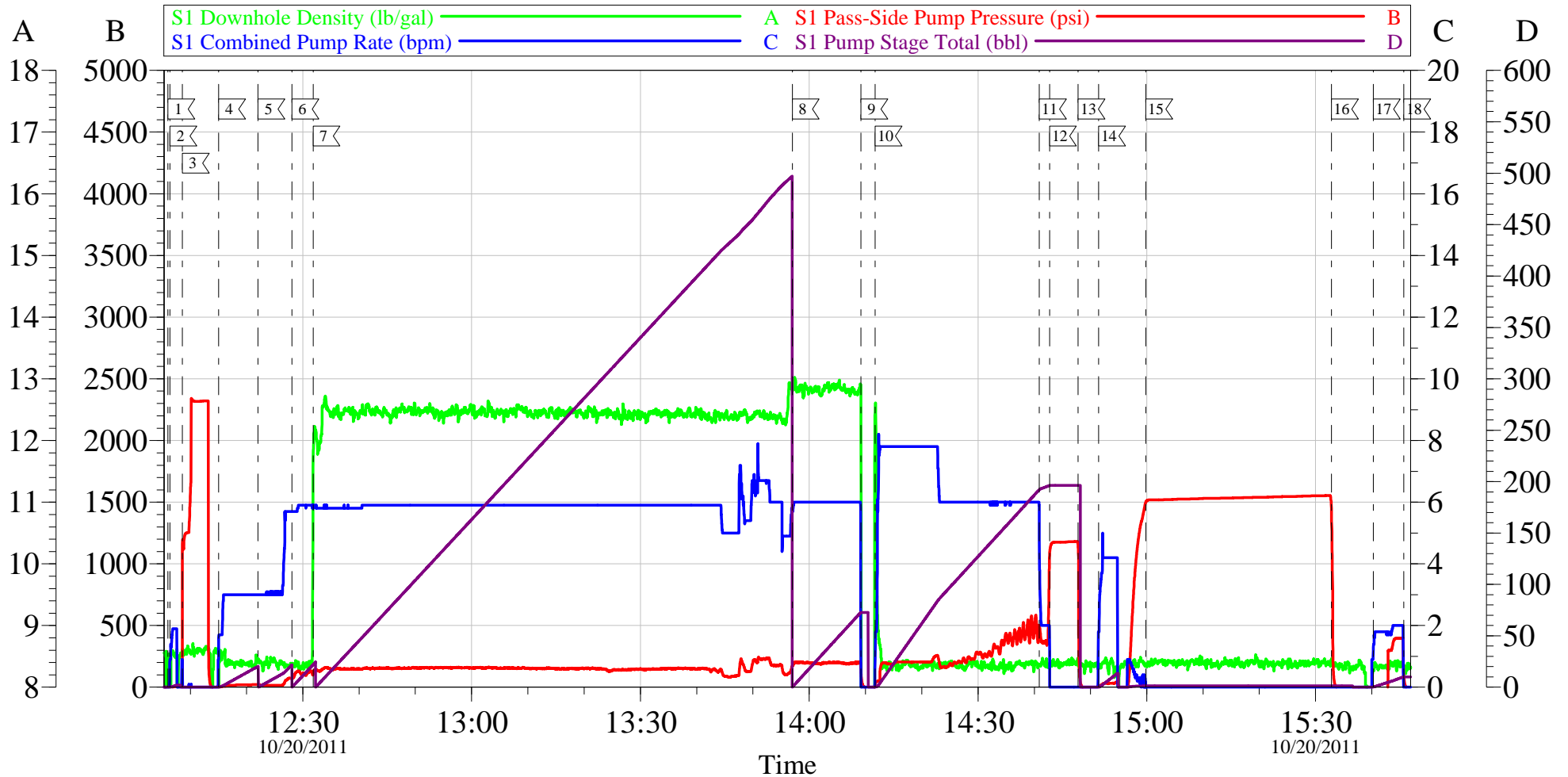
Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	10/20/2011 12:28		6	20			131.0	Fresh Water
Pump Lead Cement	10/20/2011 12:33		6	443.6			180.0	1069 sks of VersaCem @ 12.3# - 2.33 yield - 12.62 H2O requirement
Pump Tail Cement	10/20/2011 13:57		6	65.3			200.0	177 sks of VersaCem @ 12.8# - 2.07 yield - 10.67 H2O requirement
Shutdown	10/20/2011 14:10							
Drop Top Plug	10/20/2011 14:12							
Pump Displacement	10/20/2011 14:13		6	201			515.0	Fresh Water
Slow Rate	10/20/2011 14:40		2	191			420.0	
Bump Plug	10/20/2011 14:42		2	201			870.0	Bumped Plug @ calculated displacement and 500 psi over
Check Floats	10/20/2011 14:47							Floats Held
Pressure Test	10/20/2011 14:59						1500.0	Pressure Test Casing
Release Casing Pressure	10/20/2011 15:32							
Comment	10/20/2011 15:40							Pump Down Parasite w/ Sugar Water
Shutdown	10/20/2011 15:45							
Start Job	10/20/2011 17:17							Discussed job procedures and safety issues
Pump Top Out Cement	10/20/2011 17:18		2.2	50			52.0	142.5 sks HalCem@12.5#-1.97 Yield-10.96 H2O Requirement@12.5#-1.97 Yield-10.96 H2O Requirement
Shutdown	10/20/2011 17:43							
Pump Top Out Cement	10/20/2011 18:33		2.5	76.3			80.0	217.5 sks HalCem@12.5#-1.97 Yield-10.96 H2O Requirement
Shutdown	10/20/2011 19:02							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Top Out Cement	10/21/2011 03:56		2.5	24			80.0	68.5sks HalCem@12.5#-1.97 Yield-10.96 H2O Requirement
Shutdown	10/21/2011 04:13							8 bbls cement to surface
End Job	10/21/2011 04:14							
Pre-Rig Down Safety Meeting	10/21/2011 04:30							
Rig-Down Equipment	10/21/2011 04:45							
Rig-Down Completed	10/21/2011 05:45							
Pre-Convoy Safety Meeting	10/21/2011 05:45							
Depart Location for Service Center or Other Site	10/21/2011 06:00							

OXY

Surface



Local Event Log

1<	Start Job	12:06:02	2<	Prime Lines	12:06:23	3<	Test Lines	12:08:35
4<	Pump H2O Spacer	12:15:02	5<	Pump Gel Spacer	12:22:01	6<	Pump H2O Spacer	12:28:04
7<	Pump Lead Cement	12:31:50	8<	Pump Tail Cement	13:57:00	9<	Shut Down/Drop Top Plug	14:09:12
10<	Pump H2O Displacement	14:11:43	11<	Slow Rate	14:40:54	12<	Bump Plug	14:42:43
13<	Check Floats	14:47:48	14<	Clean Lines	14:51:27	15<	Casing Pressure Test	14:59:49
16<	Release Pressure	15:32:49	17<	Pump Down Parasite	15:40:17	18<	Shut Down	15:45:40

Customer: OXY
Well Description: CC-697-05-28A
Company Rep: CAL WYLIE

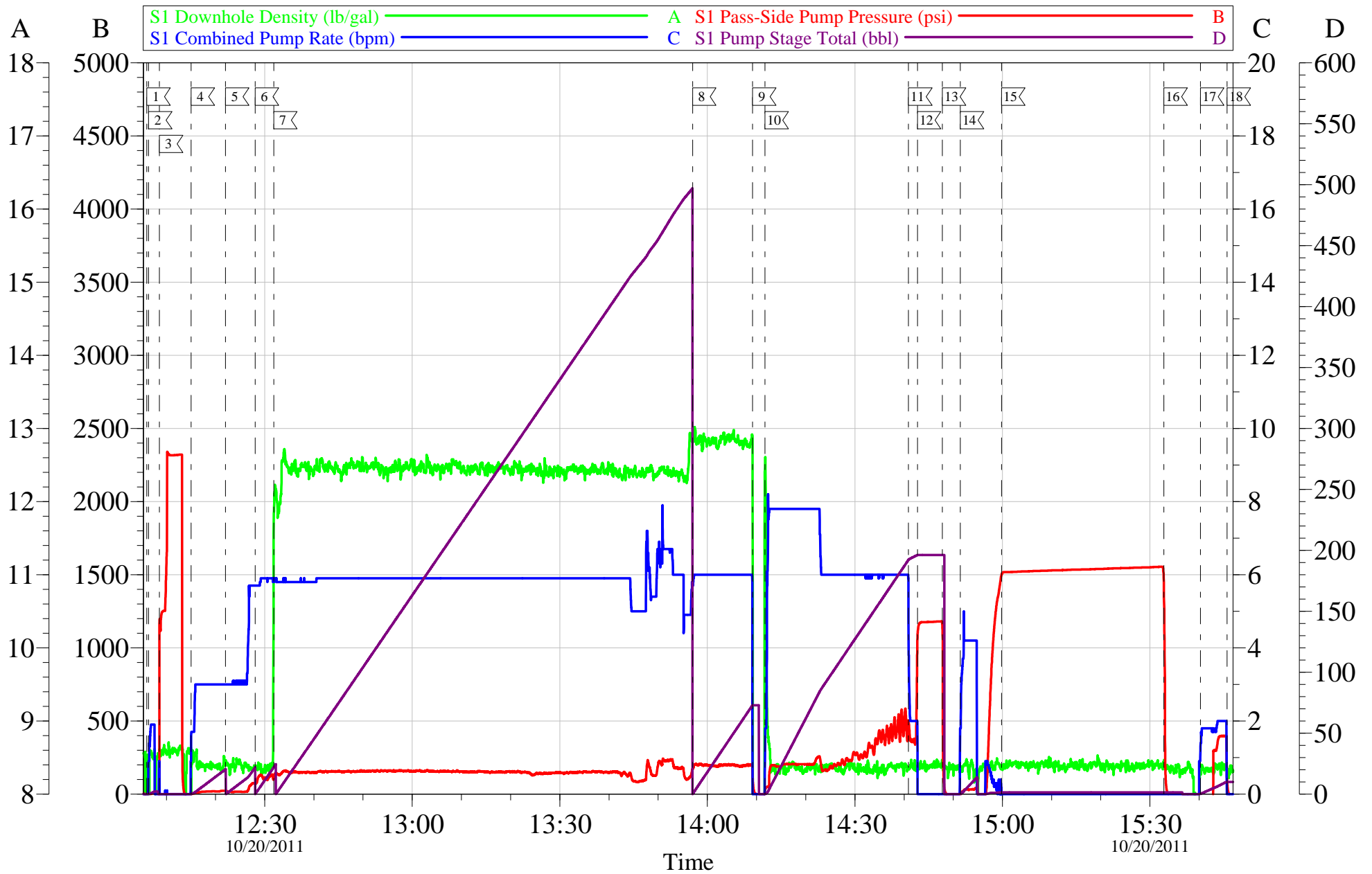
Job Date: 20-Oct-2011
Job Type: SURFACE
Cement Supervisor: DEAN DANIEL

Sales Order #: 8474641
ADC Used: YES
Elite #/Operator: 6/JEROD SIMINEO

OptiCem v6.4.10
20-Oct-11 15:54

OXY

Surface



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Company Rep: CAL WYLIE

Job Date: 20-Oct-2011
Job Type: SURFACE
Cement Supervisor: DEAN DANIEL

Sales Order #: 8474641
ADC Used: YES
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OptiCem v6.4.10
20-Oct-11 15:54

Sales Order #: 8474641	Line Item: 10	Survey Conducted Date: 10/21/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20374
Well Name: CC		Well Number: 697-05-28A
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	10/21/2011
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	CAL WYLIE
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 #: 8474641	Line Item: 10	Survey Conducted Date: 10/21/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20374
Well Name: CC		Well Number: 697-05-28A
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 The date the survey was conducted	10/21/2011

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.	9
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.	6
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	12
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

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Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20374
Well Name: CC		Well Number: 697-05-28A
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	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