
OXY GRAND JUNCTION EBUSINESS

**CC 697-08-41B
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
04-Sep-2011

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2876604		Quote #:		Sales Order #: 8440781	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep:			
Well Name: CC			Well #: 697-08-41B			API/UWI #: 05-045-20087	
Field: GRAND VALLEY		City (SAP): UNKNOWN		County/Parish: Garfield		State: Colorado	
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.263 secs.				Long: W 108.242 deg. OR W -109 deg. 45 min. 29.372 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: CARTER, ERIC			MBU ID Emp #: 345598	
Job Personnel							
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs
ANGLESTEIN, TROY Edward WM	18	436099	CARTER, ERIC Earl	18	345598	MCKAY, PATRICK Joseph	18
VANALSTYNE, TROY L	18	420256	WALPOLE, DARREN Livingston	18	485294		
Equipment							
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	120 mile	10784080	120 mile	10804579	120 mile	10897909	120 mile
10938657	120 mile	10951251	120 mile	10969711	120 mile	10973571	120 mile
Job Hours							
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours
9/4/11	18	4					
TOTAL		Total is the sum of each column separately					
Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top	0	Bottom	2750 FT.	Called Out	03 - Sep - 2011	23:00
Form Type	BHST			On Location	04 - Sep - 2011	05:00	MST
Job depth MD	2750. ft	Job Depth TVD	2750. ft	Job Started	04 - Sep - 2011	11:40	MST
Water Depth	Wk Ht Above Floor			5. ft	Job Completed	04 - Sep - 2011	20:35
Perforation Depth (MD)	From		To		Departed Loc	04 - Sep - 2011	23:00
Well Data							
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade
OPEN HOLE				14.75			
SURFACE CASING	Unknown		9.625	8.921	36.		J-55
Sales/Rental/3rd Party (HES)							
Description					Qty	Qty uom	Depth
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
Guide Shoe					Packer	9.625"	1
Float Shoe					Bridge Plug		
Float Collar					Retainer		
Insert Float							
Stage Tool							
Miscellaneous Materials							
Gelling Agt		Conc		Surfactant		Conc	Acid Type
Treatment Fld		Conc		Inhibitor		Conc	Sand Type
							Qty
							Conc
							%
							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	4		
2	Gel Spacer		20.00	bbl	.	.0	.0	4		
3	Water Spacer		20.00	bbl	.	.0	.0	6		
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1048.0	sacks	12.3	2.33	12.62	8	12.62	
12.62 Gal		FRESH WATER								
5	VariCemTail Cement	VERSACEM (TM) SYSTEM (452010)	169.0	sacks	12.8	2.07	10.67	8	10.67	
10.67 Gal		FRESH WATER								
6	Displacement		204.2	bbl	8.33	.0	.0	8		
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	274	sacks	12.5	1.97	10.96	2.5	10.96	
10.96 Gal		FRESH WATER								
Calculated Values		Pressures		Volumes						
Displacement	204.2	Shut In: Instant		Lost Returns	YES	Cement Slurry	593.4	Pad		
Top Of Cement	SURFACE	5 Min		Cement Returns	10	Actual Displacement	204.2	Treatment		
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	855.8	
Rates										
Circulating	RIG	Mixing	8	Displacement	8	Avg. Job	8			
Cement Left In Pipe	Amount	45.7 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

Sold To #: 344034	Ship To #: 2876604	Quote #:	Sales Order #: 8440781
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep:	
Well Name: CC	Well #: 697-08-41B	API/UWI #: 05-045-20087	
Field: GRAND VALLEY	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.263 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 29.372 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: CARTER, ERIC	MBU ID Emp #: 345598

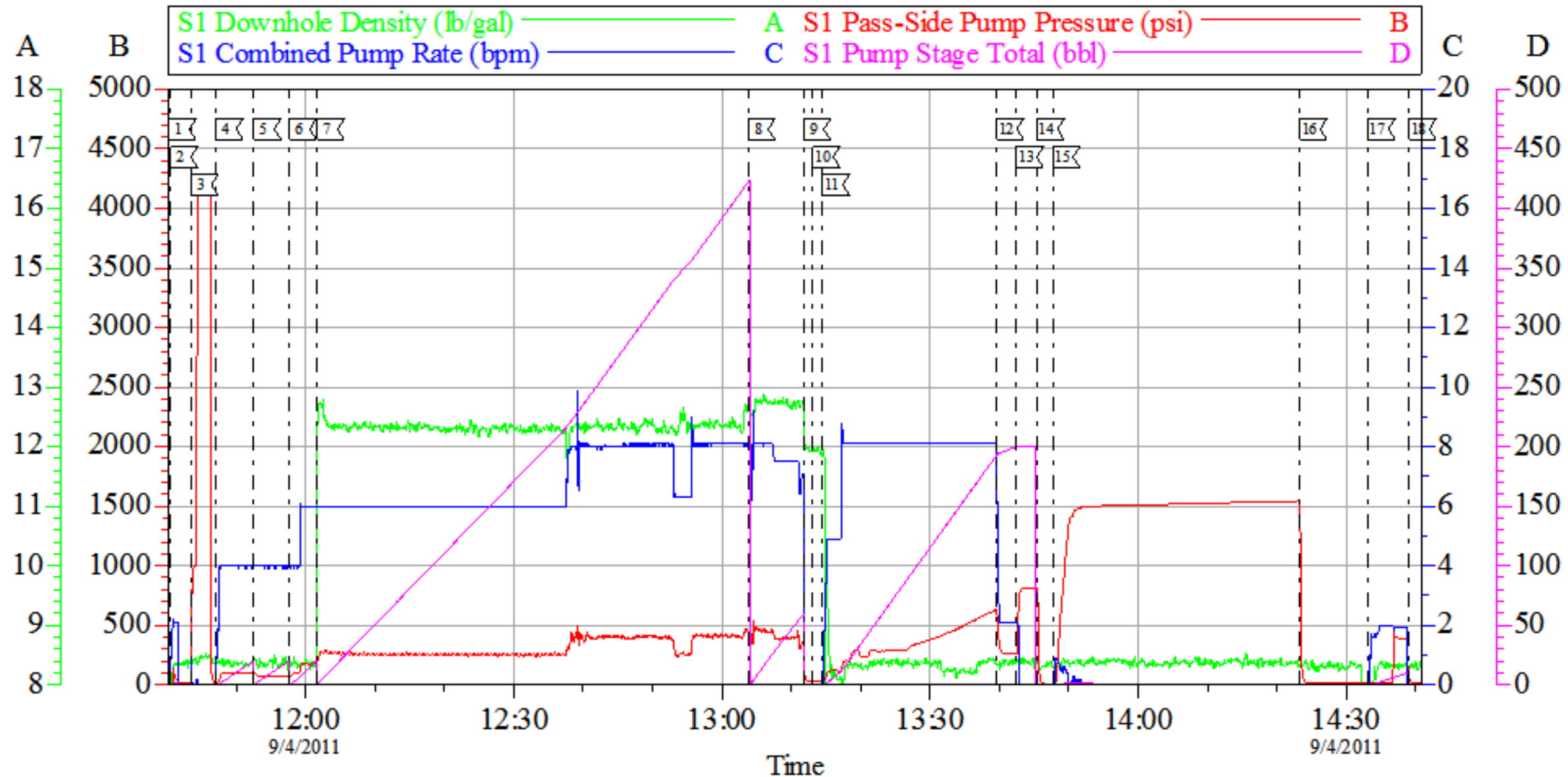
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/03/2011 23:00							
Depart Yard Safety Meeting	09/04/2011 01:50							ATTENDED BY ALL HES CREW
Crew Leave Yard	09/04/2011 02:00							
Arrive At Loc	09/04/2011 05:00							RIG RUNNING CASING
Assessment Of Location Safety Meeting	09/04/2011 05:10							ATTENDED BY ALL HES CREW
Other	09/04/2011 05:30							SPOT EQUIPMENT
Pre-Rig Up Safety Meeting	09/04/2011 10:20							ATTENDED BY ALL HES CREW
Rig-Up Equipment	09/04/2011 10:30							
Pre-Job Safety Meeting	09/04/2011 11:15							ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP
Start Job	09/04/2011 11:40							TP 2687', TD 2750', SJ 45.7', FC 2641.3', MW 9.3 PPG, CASING 9.625", 36#, J-55, HOLE 14.75"
Other	09/04/2011 11:40		2	2			79.0	FILL LINES
Test Lines	09/04/2011 11:43							PRESSURED UP TO 4150 PSI, PRESSURE HELD
Pump Spacer 1	09/04/2011 11:47		4	20			85.0	FRESH WATER
Pump Spacer 2	09/04/2011 11:52		4	20			70.0	GEL SPACER
Pump Spacer 1	09/04/2011 11:57		6	20			180.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	09/04/2011 12:01		8	434.9			279.0	1048 SKS MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GL/SK
Pump Tail Cement	09/04/2011 13:03		8	62.3			480.0	169 SKS MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GL/SK
Shutdown	09/04/2011 13:11							
Drop Top Plug	09/04/2011 13:13							COMPANY REP VERIFIED THAT PLUG LAUNCHED
Pump Displacement	09/04/2011 13:14		8	194.2			620.0	FRESH WATER
Slow Rate	09/04/2011 13:39		2	10			230.0	
Bump Plug	09/04/2011 13:42						608.0	PLUG LANDED
Check Floats	09/04/2011 13:45							FLOATS HELD
Pressure Test	09/04/2011 13:47							TEST CASING, PRESSURED UP TO 1512 PSI, PRESSURE HELD
Release Casing Pressure	09/04/2011 14:23							
Pump Water	09/04/2011 14:33		2	10			415.0	PUMP DOWN PARASITE
Shutdown	09/04/2011 14:39							
Start Job	09/04/2011 16:36							TOP OUT #1
Pump Cement	09/04/2011 16:37		2.5	50.2			66.0	143 SKS MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GL/SK
Shutdown	09/04/2011 16:58							NO CEMENT TO SURFACE
Start Job	09/04/2011 20:16							TOP OUT #2
Pump Cement	09/04/2011 20:17		2.6	46			90.0	131 SKS MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GL/SK
Shutdown	09/04/2011 20:35							10 BBLS CEMENT TO SURFACE, CEMENT STARTED TO FALL BACK

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	09/04/2011 20:35							NO CIRCULATION THROUGH OUT JOB, PIPE WAS NOT MOVED DURING JOB
Post-Job Safety Meeting (Pre Rig-Down)	09/04/2011 20:40							ATTENDED BY ALL HES CREW
Rig-Down Equipment	09/04/2011 20:45							
Depart Location Safety Meeting	09/04/2011 22:50							ATTENDED BY ALL HES CREW
Crew Leave Location	09/04/2011 23:00							THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW.

OXY

9.625" SURFACE/CC 697-08-41B



Local Event Log

1 STARTJOB	11:40:18	2 FILL LINES	11:40:33	3 TEST LINES	11:43:31
4 PUMP H2O SPACER	11:47:03	5 PUMP GEL SPACER	11:52:32	6 PUMP H2O SPACER	11:57:40
7 PUMP LEAD CEMENT	12:01:40	8 PUMP TAIL CEMENT	13:03:46	9 SHUTDOWN	13:11:46
10 DROP TOP PLUG	13:13:07	11 PUMP H2O DISPLACEMENT	13:14:28	12 SLOW RATE	13:39:36
13 BUMP PLUG	13:42:27	14 CHECK FLOATS	13:45:26	15 PRESSURE UP CASING	13:47:42
16 RELEASE CASING PRESSURE	14:23:18	17 PUMP DOWN PARASITE	14:33:08	18 SHUTDOWN	14:39:03

Customer: OXY GRAND JUNCTION EBUSINESS
Well Description: CC 697-08-41B
Company Rep: VICTOR B.

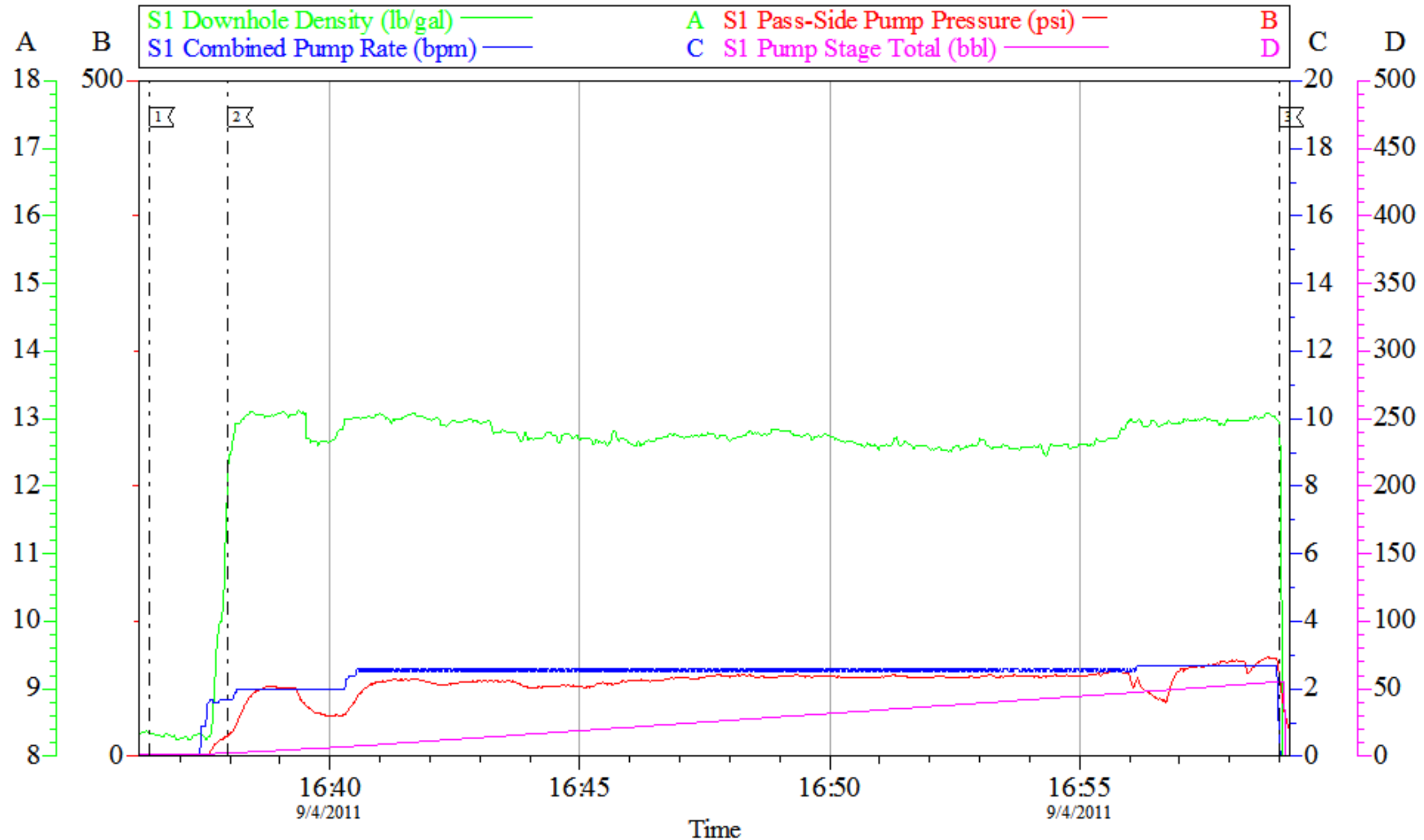
Job Date: 04-Sep-2011
Job Type: SURFACE
Cement Supervisor: ERIC CARTER

Sales Order #: 8440781
ADC Used: YES
Elite #/Operator: 2/TROY A.

OptiCem v6.4.0
04-Sep-11 15:00

OXY

TOP OUT/CC 697-08-41B



Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-08-41B
 Company Rep: VICTOR B.

Job Date: 04-Sep-2011
 Job Type: TOP OUT
 Cement Supervisor: ERIC CARTER

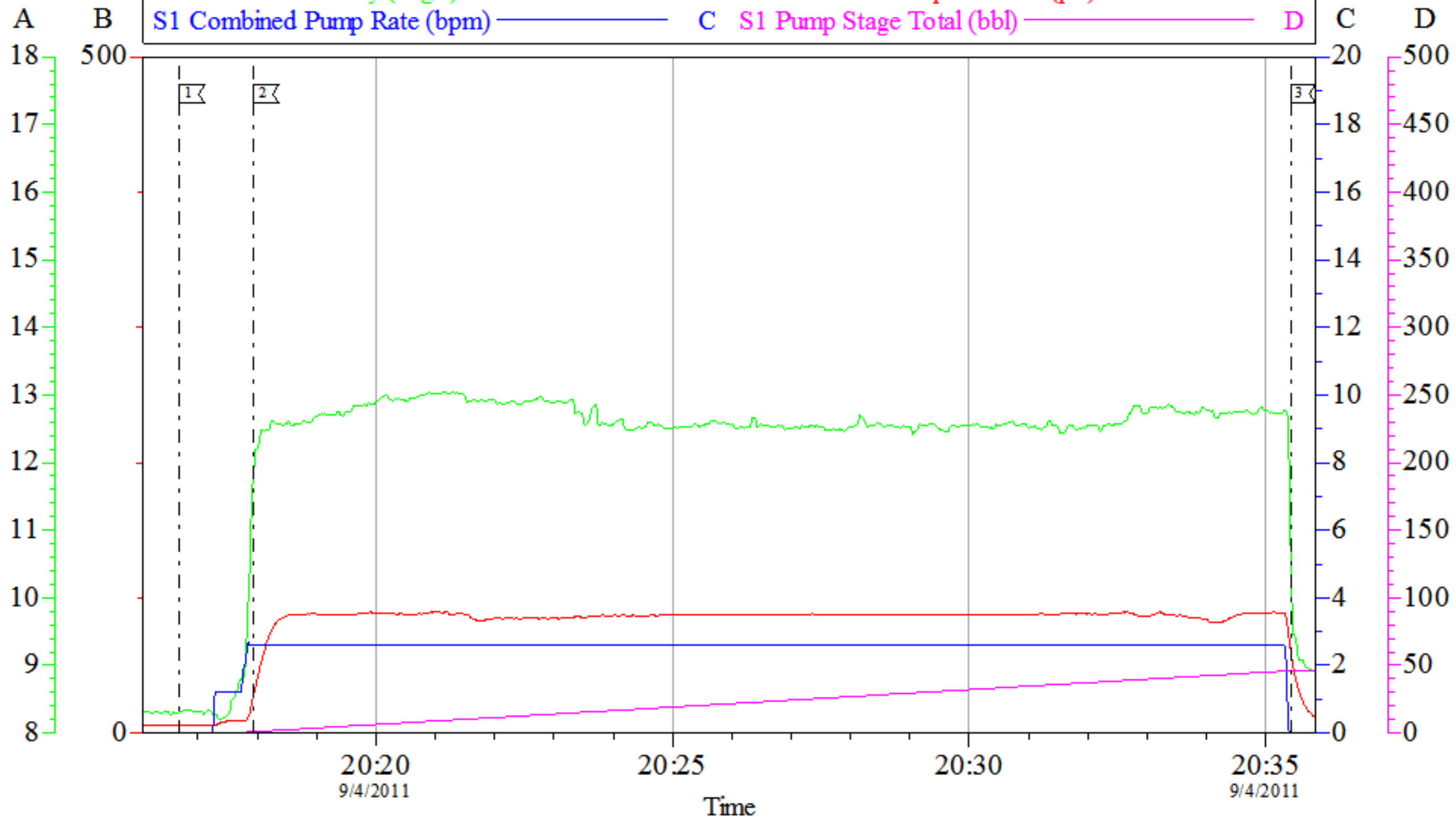
Sales Order #: 8440781
 ADC Used: YES
 Elite #/Operator: 2/TROY A.

OptiCem v6.4.0
 04-Sep-11 17:05

OXY

TOP OUT #2/CC 697-08-41B

S1 Downhole Density (lb/gal) ————— A S1 Pass-Side Pump Pressure (psi) ————— B
 S1 Combined Pump Rate (bpm) ————— C S1 Pump Stage Total (bbl) ————— D



Local Event Log			
1	STARTJOB	20:16:42	2
2	PUMP CEMENT	20:17:57	3
3	SHUTDOWN	20:35:25	

Customer: OXY GRAND JUNCTION EBUS INESS
 Well Description: CC 697-08-41B
 Company Rep: VICTOR B.

Job Date: 04-Sep-2011
 Job Type: TOP OUT
 Cement Supervisor: ERIC CARTER

Sales Order #: 8440781
 ADC Used: YES
 Elite #/Operator: 2/TROY A.

OptiCem v6.4.0
 04-Sep-11 20:45

Sales Order #: 8440781	Line Item: 10	Survey Conducted Date: 9/5/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR B.		API / UWI: (leave blank if unknown) 05-045-20087
Well Name: CC		Well Number: 697-08-41B
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	9/5/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	ERIC CARTER (HX15491)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	VICTOR B.
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, THANK YOU
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 #: 8440781	Line Item: 10	Survey Conducted Date: 9/5/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR B.		API / UWI: (leave blank if unknown) 05-045-20087
Well Name: CC		Well Number: 697-08-41B
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	9/5/2011
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)	5.5
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)	4
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 #: 8440781	Line Item: 10	Survey Conducted Date: 9/5/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR B.		API / UWI: (leave blank if unknown) 05-045-20087
Well Name: CC		Well Number: 697-08-41B
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	97
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	95
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