
OXY GRAND JUNCTION EBUSINESS

**CC 697-04-74A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
01-Jan-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 9107152
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Gill, Jeff		
Well Name: CC	Well #: 697-04-74A	API/UWI #: 05-045-20718	
Field: GRAND VALLEY	City (SAP): Parachute	County/Parish: Garfield	State: Colorado
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.464 secs.	Long: W 108.23 deg. OR W -109 deg. 46 min. 11.136 secs.		
Contractor: H&P Drilling	Rig/Platform Name/Num: H&P 330		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: HIMES, JEFFREY	Srv Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
SINGLETON, AUSTIN W		487406	STILLSON, ERIC W		393789	TRIPLETT, MICHEAL Anthony		447908
WEAVER, CARLTON Russell		457698						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10533645	60 mile	10616651C	60 mile	10867094	60 mile	10897925	60 mile
10951246	60 mile	11139328	60 mile	11808827	60 mile	4905	60 mile
6374L	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL								

Total is the sum of each column separately

Job				Job Times			
Formation Name				Date	Time	Time Zone	
Formation Depth (MD)	Top	Bottom		Called Out	31 - Dec - 2011	20:00	MST
Form Type		BHST		On Location	01 - Jan - 2012	01:00	MST
Job depth MD	2700. ft	Job Depth TVD	2700. ft	Job Started	01 - Jan - 2012	09:00	MST
Water Depth		Wk Ht Above Floor	. ft	Job Completed	01 - Jan - 2012	14:26	MST
Perforation Depth (MD)	From	To		Departed Loc	01 - Jan - 2012	16:00	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
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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 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	.0		
2	Gel Spacer		20.00	bbl	.	.0	.0	.0		
3	Water Spacer		20.00	bbl	.	.0	.0	.0		
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1070.0	sacks	12.3	2.33	12.62		12.62	
12.62 Gal		FRESH WATER								
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67		10.67	
10.67 Gal		FRESH WATER								
6	Displacement		202.00	bbl	.	.0	.0	.0		
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	100.0	sacks	12.5	1.97	10.96		10.96	
10.96 Gal		FRESH WATER								
Calculated Values		Pressures		Volumes						
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		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						

The Road to Excellence Starts with Safety

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Well Name: CC	Well #: 697-04-74A	API/UWI #: 05-045-20718	
Field: GRAND VALLEY	City (SAP): Parachute	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.464 secs.		Long: W 108.23 deg. OR W -109 deg. 46 min. 11.136 secs.	
Contractor: H&P Drilling		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: HIMES, JEFFREY		Srv Supervisor: TRIPLETT, MICHEAL	MBU ID Emp #: 447908

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/31/2011 20:00							9 5/8 SURFACE, OXY, H&P 353, CC 697- 04-74A
Pre-Convoy Safety Meeting	12/31/2011 22:00							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	01/01/2012 01:00							RIG RUNNING CASING.
Assessment Of Location Safety Meeting	01/01/2012 06:00							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	01/01/2012 06:20							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	01/01/2012 06:30							1 PICK UP, 1 HT400 PUMP TRUCK, 2 660 BULK CEMENT TRUCK, 2 BULK CEMENT SILO.
Pre-Job Safety Meeting	01/01/2012 08:40							ENTIRE CREW, CO REP AND RIG CREW.
Start Job	01/01/2012 09:00							TD 2700' TP 2647.7' SJ 44.7' FC 2603' MW 8.9 PPG, 9 5/8 36# CASING IN 14 3/4 HOLE, OFF LINE CEMENT JOB. YP: , PV: , TEMP: .
Pump Water	01/01/2012 09:01		2	2			40.0	FILL LINES BEFORE TESTING
Pressure Test	01/01/2012 09:03						2500.0	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	01/01/2012 09:08		4	20			115.0	FRESH WATER, PREMIXED CEMENT TUB AND WEIGHED WITH SCALES.
Pump Spacer 2	01/01/2012 09:14		4	20			125.0	GEL SPACER, 20 BBLS WATER WITH 5 GAL LGC.
Pump Spacer 1	01/01/2012 09:18		4	20			120.0	FRESH WATER
Pump Lead Cement	01/01/2012 09:23		6	444			200.0	1070 SKS VERSACEM, 12.3 PPG, 2.33 CUFT/SK, 12.62 GAL/SK, 7 BOXES TUFF FIBER MIXED IN DOWNHOLE SIDE OF TUB ON THE FLY IN FIRST 100BBLS.
Pump Tail Cement	01/01/2012 10:46		6	62.7			200.0	170 SKS VERSACEM, 12.8 PPG, 2.07 CUFT/SK, 10.67 GAL/SK,
Shutdown	01/01/2012 10:58							GOT RETURNS WITH 260BBLS GONE ON LEAD, LOST RETURNS AT 430 BBLS GONE ON LEAD CEMENT CEMENT. THEN REGAINED RETURNS WITH 13 BBLS GONE ON TAIL, LOST RETURNS AGAIN WITH 135 BBLS GONE ON DISPLACEMENT. REGAINED WITH 184BBLS AWAY ON DISPLACEMENT.
Drop Top Plug	01/01/2012 10:59							VARIFIED PLUG LEFT CONTAINER.
Pump Displacement	01/01/2012 11:00		6	201.2			500.0	FRESH WATER
Slow Rate	01/01/2012 11:32		2	191.2			380.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	01/01/2012 11:33			202.1			400.0	PLUG LANDED AT 201.2 BBLS GONE AT 400 PSI, BUMPED UP TO 930 PSI AND HELD FOR 5 MIN PER CO REP.

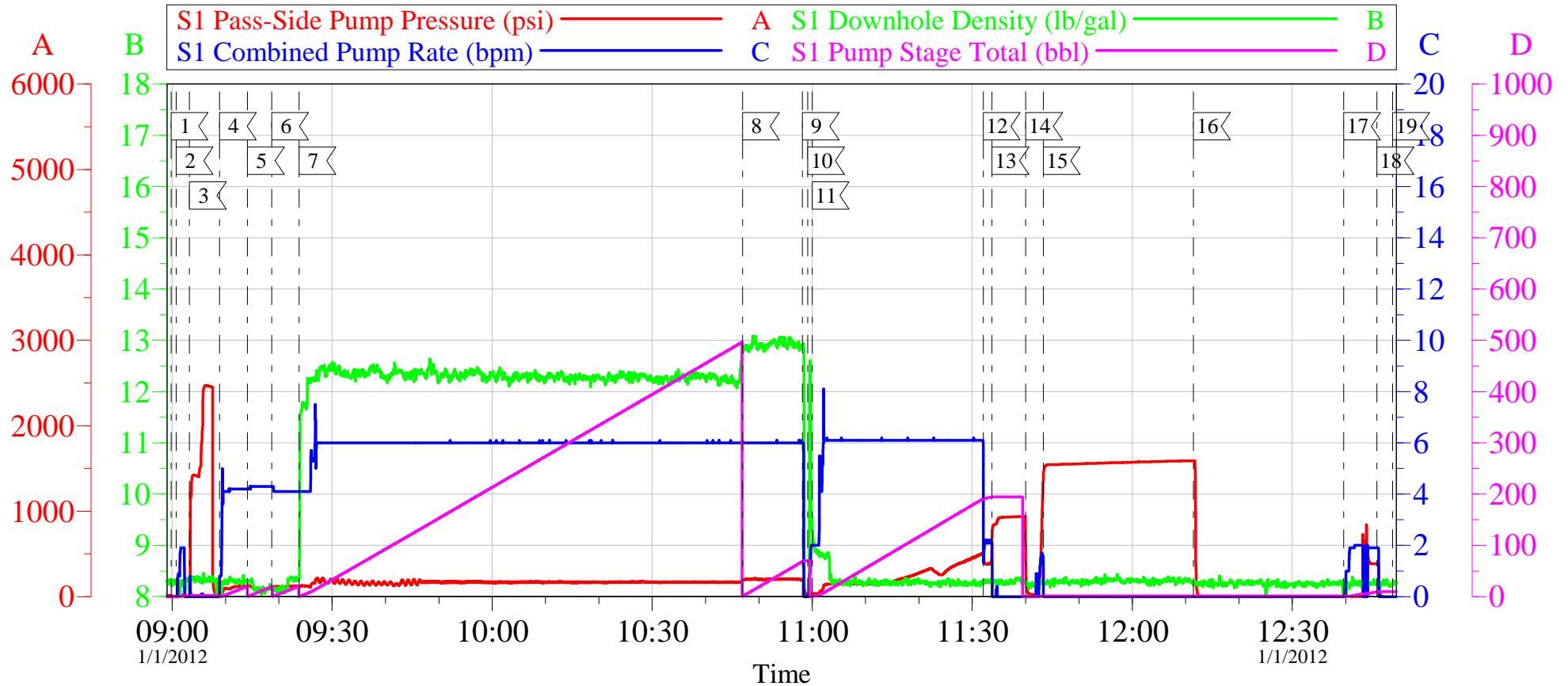
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Check Floats	01/01/2012 11:40							FLOATS HELD, WHEN RELEASED PRESSURE GOT 1 BBL OF WATER BACK TO TRUCK.
Pressure Up	01/01/2012 11:43						1500.0	PRESSURE UP TO 1500 PSI TO TEST CASING.
Release Casing Pressure	01/01/2012 12:11							RELEASED PRESSURE AT 1574 PSI, GOOD TEST.
Safety Huddle	01/01/2012 12:13							RIG UP IRON TO CELLAR TO PUMP THROUGH PARASITE.
Pump Water	01/01/2012 12:39		2	10			160.0	10 BBLS WATER WITH 10 LBS SUAR PUMPED TO CLEAR PARASITE, CAUGHT PRESSURE AT 6 BBLS GONE.
Shutdown	01/01/2012 12:45							PARASITE CLEAR.
Safety Huddle	01/01/2012 12:46							RIG UP TO TOPOUT. USED TOPOUT TRUCK WITH 250 SKS REMAINING FROM PREVIOUS WELL, IT WAS CHARGED ON THAT TICKET.
Pump Water	01/01/2012 14:03		1	1			40.0	PUMP WATER TO ENSURE LINES ARE CLEAR BEFORE MIXING CEMENT.
Pump Cement	01/01/2012 14:04		3	25			95.0	TOPOUT CEMENT, 12.5 PPG, 1.97 CUFT/SK, 10.96 GAL/SK.
Shutdown	01/01/2012 14:13							GOT CEMENT TO SURFACE, SHUTDOWN FOR TEN MINUTES TO LET CEMENT FALL
Pump Cement	01/01/2012 14:20		2	2			95.0	PUMPED 1.5 BBLS OF TOPOUT CEMENT GOT CEMENT BACK TO SURFACE.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	01/01/2012 14:25		2	2			90.0	PUMP WATER TO CLEAR IRON OF CEMENT.
Shutdown	01/01/2012 14:26							2 BBLS OF CEMENT TO SURFACE.
Other	01/01/2012 15:55							WAIT ON CEMENT TO SET UP AND TOP OFF 2" TUBING.
Pump Water	01/01/2012 17:37		1	1				MAKE SURE LINE IS CLEAR
Pump Cement	01/01/2012 17:38		2	15			60.0	FILL ANNULUS AND 2" WITH CEMENT, 15 BBLS PUMPED @ 12.5PPG, 1.97 YIELD, 10.67 GAL/SACK.
Pump Water	01/01/2012 17:45		1	1				CLEAR LINES OF CEMENT.
Shutdown	01/01/2012 17:46							WAITED 1.5 HOURS AND CEMENT DROPPED 3 FEET. HOURS ENDED AT 19:15, A TOTAL OF 6 ADDITIONAL HOURS ADDED TO TICKET. NO DERRICK CHARGE. 10 POUNDS OF SUGAR USED.
End Job	01/01/2012 19:15							GOT RETURNS WITH 260BBLS GONE ON LEAD, LOST RETURNS AT 430 BBLS GONE ON LEAD CEMENT CEMENT. THEN REGAINED RETURNS WITH 13 BBLS GONE ON TAIL, LOST RETURNS AGAIN WITH 135 BBLS GONE ON DISPLACEMENT. REGAINED WITH 184BBLS
Post-Job Safety Meeting (Pre Rig-Down)	01/01/2012 19:20							ENTIRE CREW
Rig-Down Equipment	01/01/2012 19:30							

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	01/01/2012 20:25							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Wait on Weather	01/01/2012 20:30							
Crew Leave Location	01/01/2012 20:30							THANK YOU FOR USING HALLIBURTON, MIKE TRIPLETT AND CREW.

OXY - CC/697-04-74A

9 5/8" SURFACE



Local Event Log

1 START JOB	08:59:48	2 FILL LINES	09:00:44	3 PRESSURE TEST	09:03:14
4 START H2O SPACER	09:08:52	5 START GEL SPACER	09:14:07	6 START H2O SPACER	09:18:40
7 START LEAD CEMENT	09:23:48	8 START TAIL	10:46:56	9 SHUTDOWN	10:58:07
10 DROP PLUG	10:59:10	11 START DISPLACEMENT	10:59:59	12 SLOWRATE	11:32:04
13 BUMP PLUG	11:33:41	14 CHECK FLOATS	11:40:01	15 PRESSURE TEST CASING	11:43:18
16 RELEASE PRESSURE	12:11:28	17 CLEAR PARASITE	12:39:38	18 END JOB	12:45:52
19 SHUTDOWN	12:48:48				

Customer: OXY
Well Description: CC-697-04-74A
Company Rep: DEREK ADAM

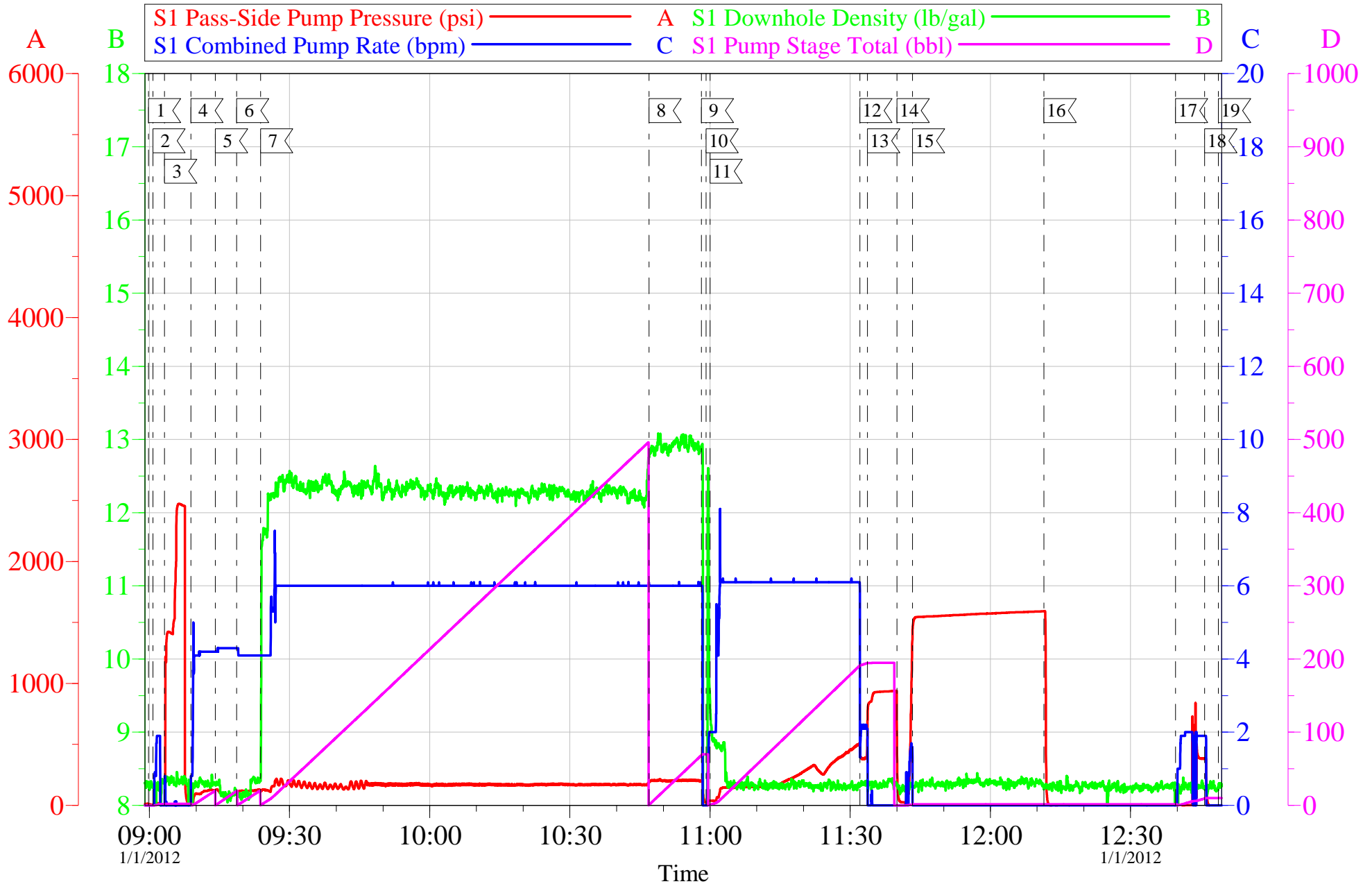
Job Date: 01-Jan-2012
Job Type: SURFACE
Cement Supervisor: MIKE TRILETT

Sales Order #: 9107152
ADC Used: YES
Elite #4: RUSTY WEAVER

OptiCem v6.4.10
01-Jan-12 13:02

OXY - CC/697-04-74A

9 5/8" SURFACE

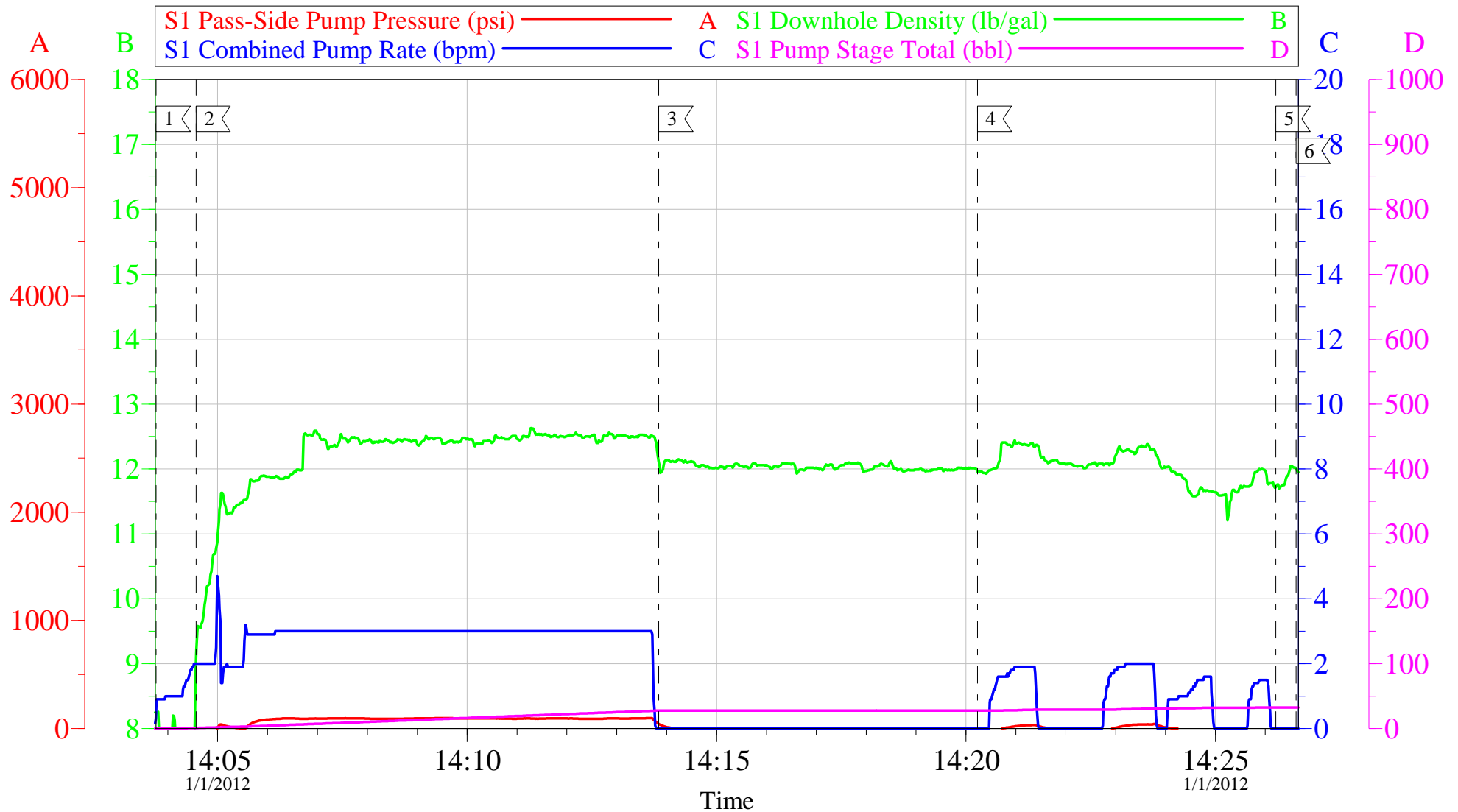


Customer: OXY	Job Date: 01-Jan-2012	Sales Order #: 9107152
Well Description: CC-697-04-74A	Job Type: SURFACE	ADC Used: YES
Company Rep: DEREK ADAM	Cement Supervisor: MIKE TRILETT	Elite #4: RUSTY WEAVER

OptiCem v6.4.10
01-Jan-12 13:02

OXY - CASCADE CREEK/ 697-04-74A

TOPOUT



Local Event Log

1	START TOPOUT	14:03:46	2	PUMP CEMENT	14:04:34	3	SHUTDOWN	14:13:51
4	PUMP CEMENT	14:20:14	5	SUTDOWN	14:26:13	6	END JOB	14:26:37

Customer: OXY
Well Description: CC 697-04-74A
Company Rep: DEREK ADAM

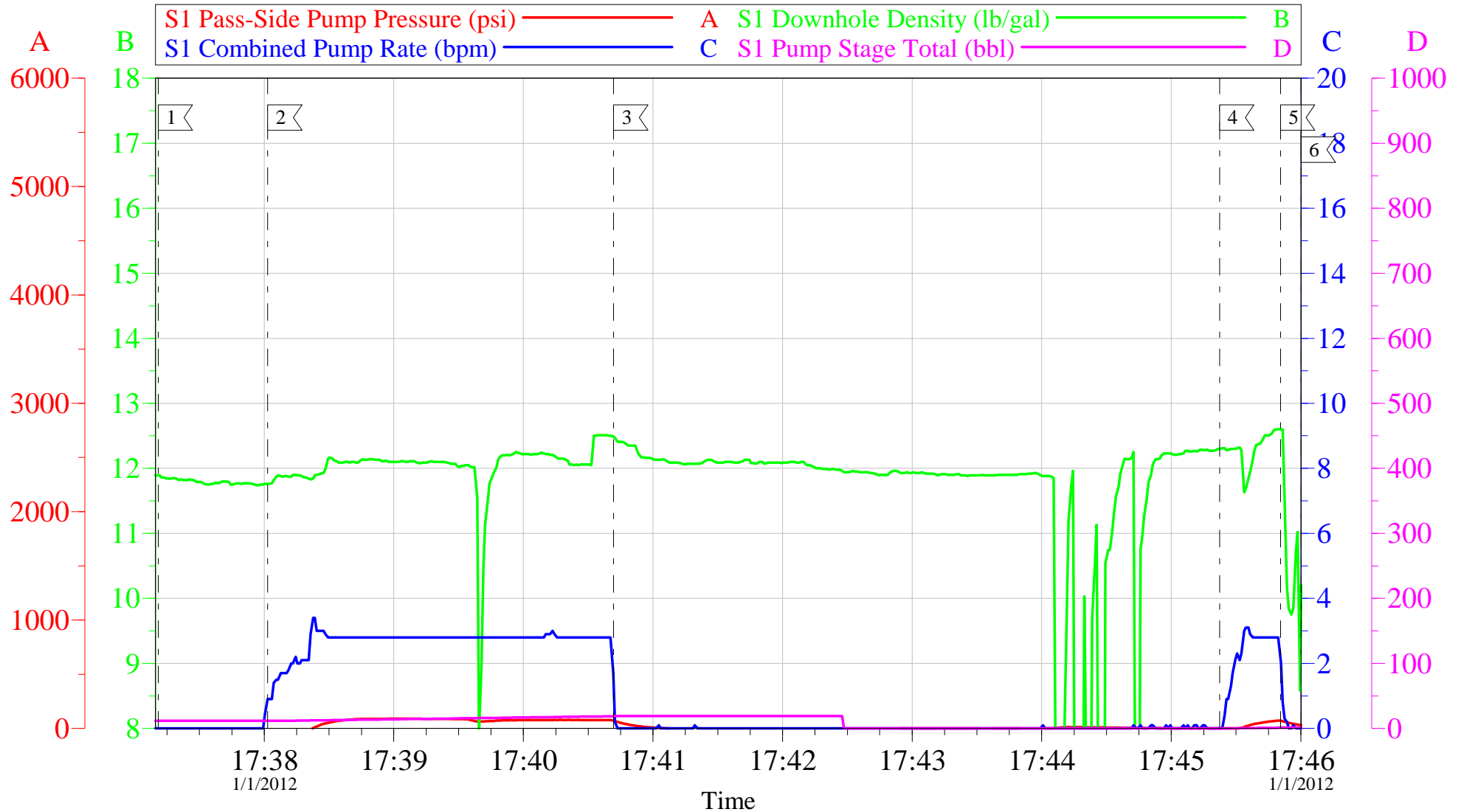
Job Date: 01-Jan-2012
Job Type: TOPOUT
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9107152
ADC Used: YES
Elite #4: RUSTY WEAVER

OptiCem v6.4.10
01-Jan-12 14:53

OXY - CASCADE CREEK-697-04-74A

TOPOUT # 2



Local Event Log

1	PUMP FRESH	17:37:11	2	PUMP CEMENT	17:38:02	3	SHUTDOWN	17:40:42
4	PUMP CEMENT	17:45:22	5	SHUTDOWN.	17:45:51	6	END JOB	17:46:00

Customer: OXY
Well Description: CC 697-04-74A
Company Rep: DEREK ADAM

Job Date: 01-Jan-2012
Job Type: TOPOUT#2
Cement Supervisor: MIKE TRIPLETT

Sales Order #: 9107152
ADC Used: YES
Elite #4: RUSTY WEAVER

OptiCem v6.4.10
01-Jan-12 18:25

HALLIBURTON

Water Analysis Report

Company: OXY
Submitted by: MIKE TRIPLETT
Attention: LAB
Lease: CASCADE CREEK
Well #: 697-04-74A

Date: 1/11/2012
Date Rec.: 1/11/2012
S.O.#: 9107152
Job Type: SURFACE

Specific Gravity	MAX	1
pH	8	7
Potassium (K)	5000	0 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	200 Mg / L
Sulfates (SO ₄)	1500	<200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	75 Deg
Total Dissolved Solids		120 Mg / L

Respectfully: MIKE TRIPLETT

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

Sales Order #: 9107152	Line Item: 10	Survey Conducted Date: 1/1/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20718
Well Name: CC		Well Number: 697-04-74A
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	1/1/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MICHEAL TRIPLETT (HB15721)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	DEREK ADAM
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	

CUSTOMER SIGNATURE

Sales Order #: 9107152	Line Item: 10	Survey Conducted Date: 1/1/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20718
Well Name: CC		Well Number: 697-04-74A
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	1/1/2012

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.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	10
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.	8
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 #: 9107152	Line Item: 10	Survey Conducted Date: 1/1/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: DEREK ADAM		API / UWI: (leave blank if unknown) 05-045-20718
Well Name: CC		Well Number: 697-04-74A
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	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	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