
OXY GRAND JUNCTION

CC 697-05-53A

Garfield County , Colorado

Cement Surface Casing

18-Jan-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2902854	Quote #:	Sales Order #: 9107182
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Rosser, Terry		
Well Name: CC	Well #: 697-05-53A	API/UWI #: 05-045-20379	
Field:	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.554 deg. OR N 39 deg. 33 min. 16.02 secs.	Long: W 108.242 deg. OR W -109 deg. 45 min. 27.396 secs.		
Contractor: H&P 353	Rig/Platform Name/Num: H&P 353		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: HIMES, JEFFREY	Srv Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
KUKUS, CRAIG A	8	369124	MILLER, REGGIE	8	425164	SMITH, DUSTIN Michael	8	418015
SPARKS, CLIFF	8	502476						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10565341	60 mile	10804567	60 mile	10872429	60 mile	11259883	60 mile
11360883	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/18/12	8	5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	17 - Jan - 2012	14:30	MST
Job depth MD	2730. m	Job Depth TVD	2730. m	Job Started	17 - Jan - 2012	23:50	MST
Water Depth		Wk Ht Above Floor	4. m	Job Completed	18 - Jan - 2012	03:52	MST
Perforation Depth (MD)	From	To	Departed Loc	18 - Jan - 2012	07:31	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		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	HES
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	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4	
2	Gel Spacer	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	8.5	.0	.0	4	
3	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1060.0	sacks	12.3	2.33	12.62	6.5	12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	6.0	10.67
	10.67 Gal	FRESH WATER							
6	Dispalcement Fluid		202.00	bbl	8.34	.0	.0	8.0	
Calculated Values		Pressures		Volumes					
Displacement	202	Shut In: Instant		Lost Returns	82	Cement Slurry	499	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	180	Actual Displacement	202	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	742
Rates									
Circulating	RIG	Mixing	6.5	Displacement	8	Avg. Job	7		
Cement Left In Pipe	Amount	56 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

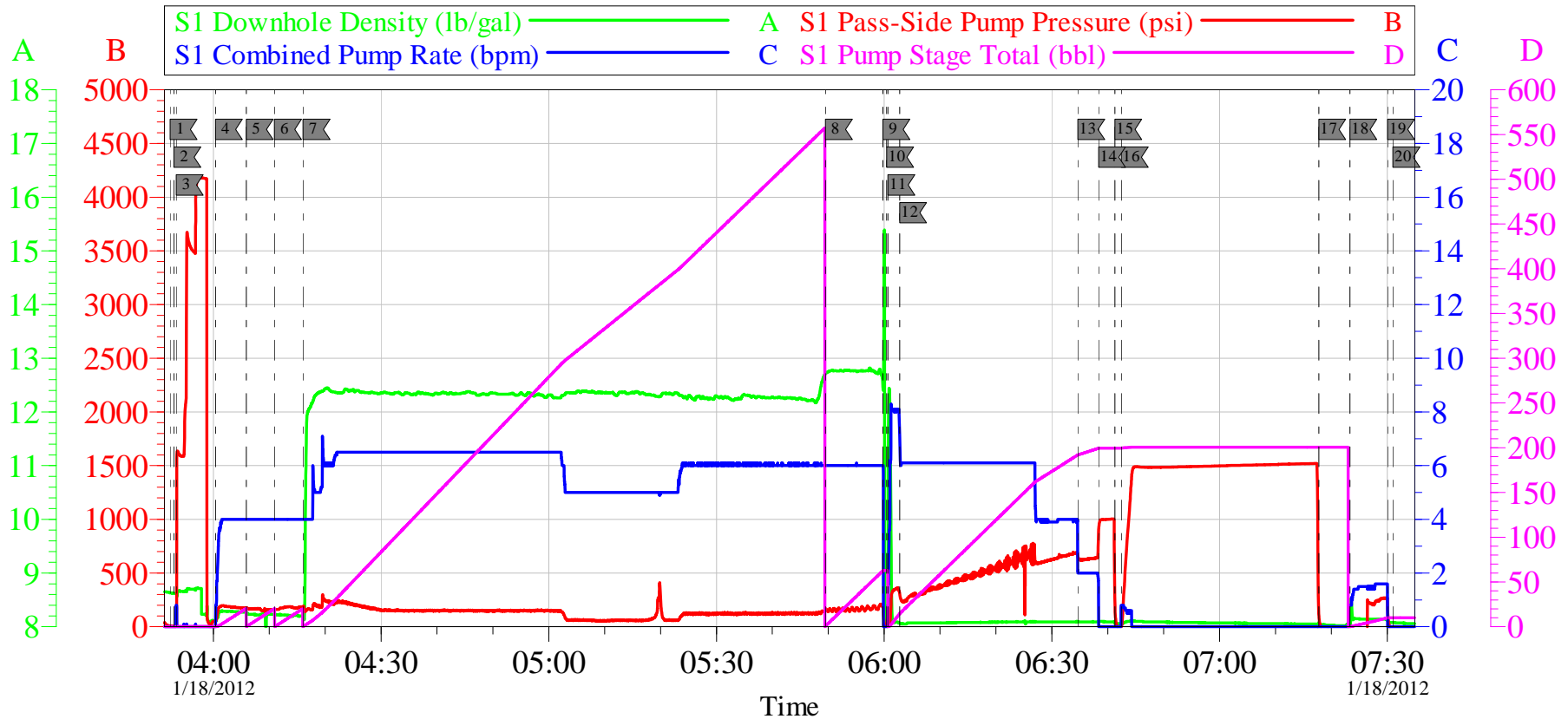
Sold To #: 344034	Ship To #: 2902854	Quote #:	Sales Order #: 9107182
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Rosser, Terry	
Well Name: CC	Well #: 697-05-53A	API/UWI #: 05-045-20379	
Field:	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.554 deg. OR N 39 deg. 33 min. 16.02 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 27.396 secs.	
Contractor: H&P 353		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: HIMES, JEFFREY		Srvc Supervisor: KUKUS, CRAIG	MBU ID Emp #: 369124

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/17/2012 14:30							
Depart Yard Safety Meeting	01/17/2012 17:15							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Arrive At Loc	01/17/2012 23:55							RIG RUNNING CSG
Assessment Of Location Safety Meeting	01/18/2012 00:15							ASSESSMENT OF LOCATION INVOLVING THE ENTIRE CMT CREW
Pre-Rig Up Safety Meeting	01/18/2012 00:20							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Up Equipment	01/18/2012 00:30							RIG UP IRON TO CELLAR / OFF LINE CEMENT JOB / RIG TO BOTH WATER TANKS
Circulate Well	01/18/2012 03:00							RIG CIRCULATE WELL AND HAD RETURNS
Pre-Job Safety Meeting	01/18/2012 03:15							SAFETY MEETING INVOLVING EVERYONE ON LOCATION
Start Job	01/18/2012 03:52							T D 2730 FT TP 2710 FT SJ 56 FT LANDING JT 34.5 FT PIPE 9 5/8IN 35 # J-55 OH 14 3/4 IN MUD WT 9.5#
Other	01/18/2012 03:52		2	2				FILL LINES WITH FRESH WATER
Pressure Test	01/18/2012 03:53		0.5			3500.0		PRESSURE TEST GOOD
Pump Spacer 1	01/18/2012 04:00		4	10			210.0	FRESH WATER SPACER AND HAVE RETURNS

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	01/18/2012 04:05		4	20			192.0	PUMP GEL WATER AND HAVE RETURNS
Pump Spacer 1	01/18/2012 04:10		4	10			200.0	PUMP FRESH WATER AND HAVE RETURNS
Pump Lead Cement	01/18/2012 04:16		6.5	439			207.0	PUMP 1060 SKS LEAD CEMENT AT 12.3PPG 2.33 Y 12.62 GAL/SKS AND HAVE RETURNS / LOST RETURNS AT 298 BBLS LEAD GONE / GOT RETURNS BACK AT 386 GONE
Pump Tail Cement	01/18/2012 05:49		6.5	58.9				PUMP 160 SKS TAIL CEMENT AT 12.8 PPG 2.07 Y 10.67 GAL/SKS AND HAVE RETURNS
Shutdown	01/18/2012 05:59							STILL HAD GOOD RETURNS
Drop Top Plug	01/18/2012 06:00							PLUG LEFT THE PLUG CONTAINER
Pump Displacement	01/18/2012 06:00		6	202.5			733.0	PUMP H2O DISPLACEMENT AT 8 BBL MIN / CATCH PRESSURE SLOWED TO 6 BBL MIN / HAVE GOOD RETURNS/ GOT CEMENT TO SURFACE AT 20 BBLS GONE
Slow Rate	01/18/2012 06:34		2	192			650.0	SLOW RATE TO 2 BBL MIN LAST 10BBLS AND STILL HAD RETURNS
Bump Plug	01/18/2012 06:38		2	202.5			1035.0	PLUG LANDED AT 650 PSI AND WITH CEMENT TO SURFACE TO THE END
Check Floats	01/18/2012 06:41							FLOATS HELD / GOT 1/2 BBL BACK TO TANKS
Shutdown	01/18/2012 06:41							SHUT DOWN / READY TO TEST CSG
Pressure Up Tubing	01/18/2012 06:42		0.5				1503.0	PRESSURE UP CSG FOR TEST / HOLD 30 MINS
Check Floats	01/18/2012 07:17							CHECK FLOATS /GOOD
Shutdown	01/18/2012 07:17							SHUT DOWN / SWAP LINES TO PARASITE LINE

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	01/18/2012 07:23		10	1.5			250.0	PUMP 10 BBLS SUGAR WATER THRU PARASITE LINE / 4.5 BBLS GONE GOT RETURNS
Shutdown	01/18/2012 07:30							SHUT DOWN / SWAP LINES TO CELLAR FOR CLEAN UP
End Job	01/18/2012 07:31							HAD RETURNS THRU OUT THE JOB/DID LOSE RETURNS DURING LEAD CEMENT A SHORT TIME / GOT RETURNS BACK THRU REMAINDER OF THE JOB AND CEMENT TO SURFACE 180 BBLS TOTAL
Pre-Rig Down Safety Meeting	01/18/2012 07:32							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Rig-Down Equipment	01/18/2012 08:30							WASH UP AND BLOW DOWN EQUIPMENT AND RIG DOWN
Safety Meeting - Departing Location	01/18/2012 09:25							SAFETY MEETING INVOLVING THE ENTIRE CMT CREW
Comment	01/18/2012 09:40							THANK YOU FOR USING HALLIBURTON, CRAIG KUKUS AND CREW

OXY CC 697-05-53A SURFACE 9 5/8 HP 353



Local Event Log

1 START JOB	03:52:16	2 PRIME LINES	03:52:56	3 PRESSURE TEST LINES	03:53:21
4 PUMP H2O SPACER	04:00:22	5 PUMP GEL SPACER	04:05:53	6 PUMP H2O SPACER	04:10:55
7 PUMP LEAD CEMENT	04:16:02	8 PUMP TAIL CEMENT	05:49:29	9 SHUT DOWN/END CEMENT	05:59:47
10 DROP PLUG	06:00:28	11 PUMP H2O DISPLACEMENT	06:00:40	12 SLOW RATE	06:02:46
13 SLOW RATE	06:34:38	14 BUMP PLUG/END DISPLACEMENT	06:38:22	15 CHECK FLOATS	06:41:16
16 PRESSURE TEST CSG/30 MIN	06:42:24	17 CHECK FLOATS	07:17:45	18 PUMP SUGAR WATER/PARASITE	07:23:19
19 SHUT DOWN	07:30:03	20 END JOB	07:31:01		

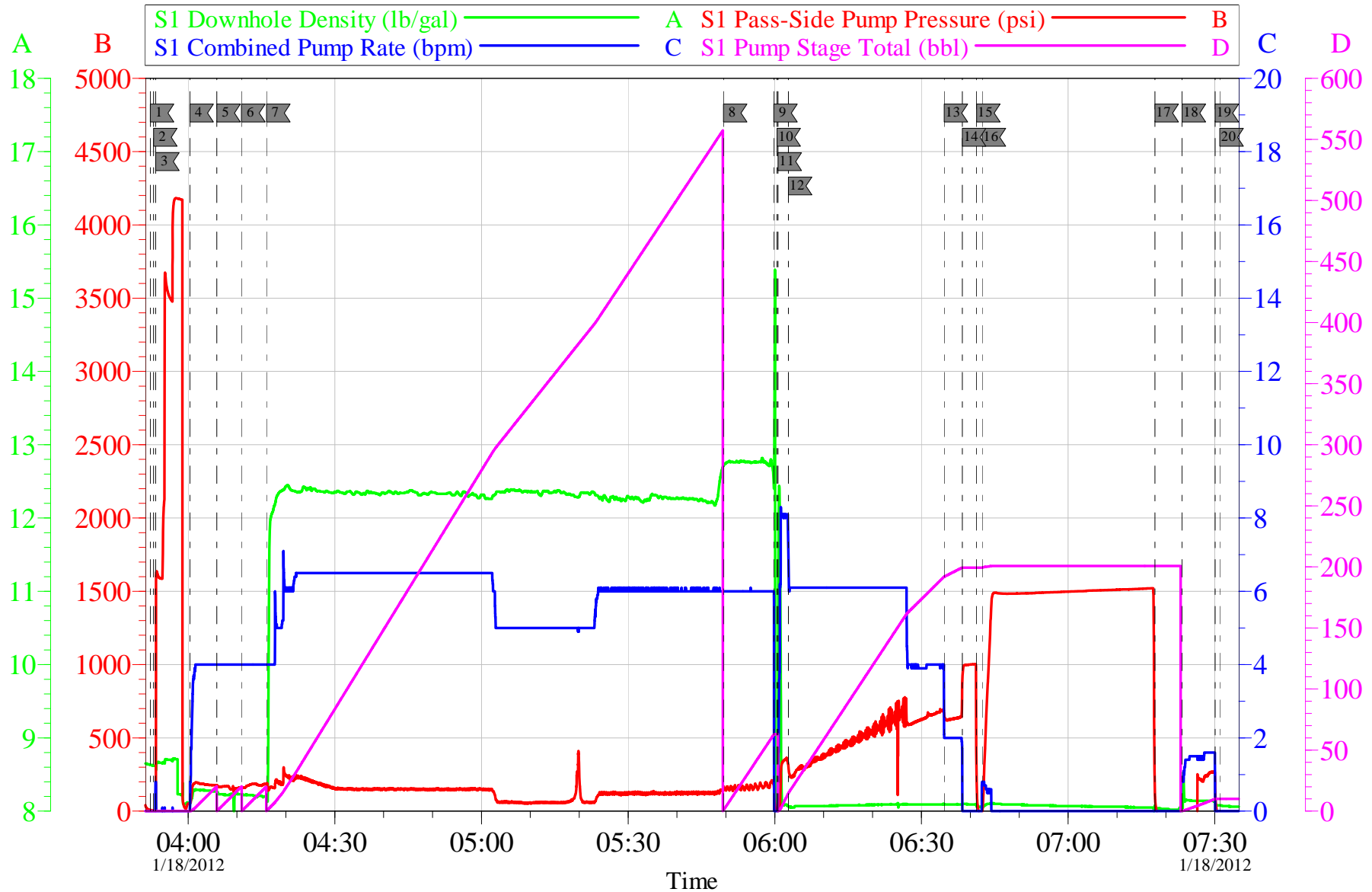
Customer: OXY
Well Description: CC 697-05-53A
Company Rep: ALEX VILLEGAS

Job Date: 18-Jan-2012
Job Type: SURFACE
Cement Supervisor: CRAIG KUKUS

Sales Order #: 9107182
ADC Used: YES
Elite #/Operator: E 7 REGGIE MILLER

OptiCem v6.4.8
18-Jan-12 07:52

OXY CC 697-05-53A SURFACE 9 5/8 HP 353



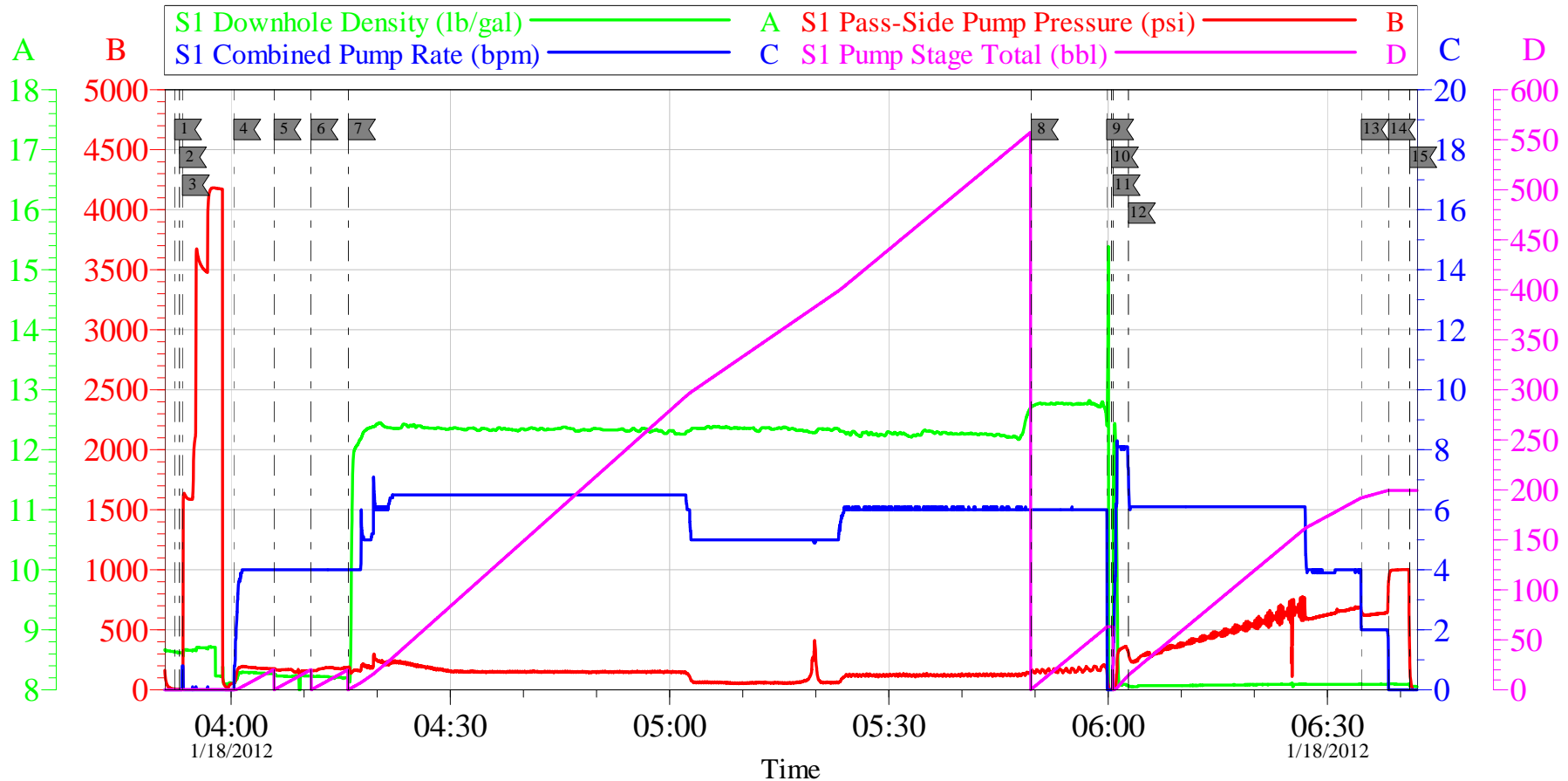
Customer: **OXY**
Well Description: **CC 697-05-53A**
Company Rep: **ALEX VILLEGAS**

Job Date: **18-Jan-2012**
Job Type: **SURFACE**
Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **9107182**
ADC Used: **YES**
Elite #/Operator: **E 7 REGGIE MILLER**

OptiCem v6.4.8
18-Jan-12 07:55

OXY CC 697-05-53A SURFACE 9 5/8 HP 353



Local Event Log

1 START JOB	03:52:16	2 PRIME LINES	03:52:56	3 PRESSURE TEST LINES	03:53:21
4 PUMP H2O SPACER	04:00:22	5 PUMP GEL SPACER	04:05:53	6 PUMP H2O SPACER	04:10:55
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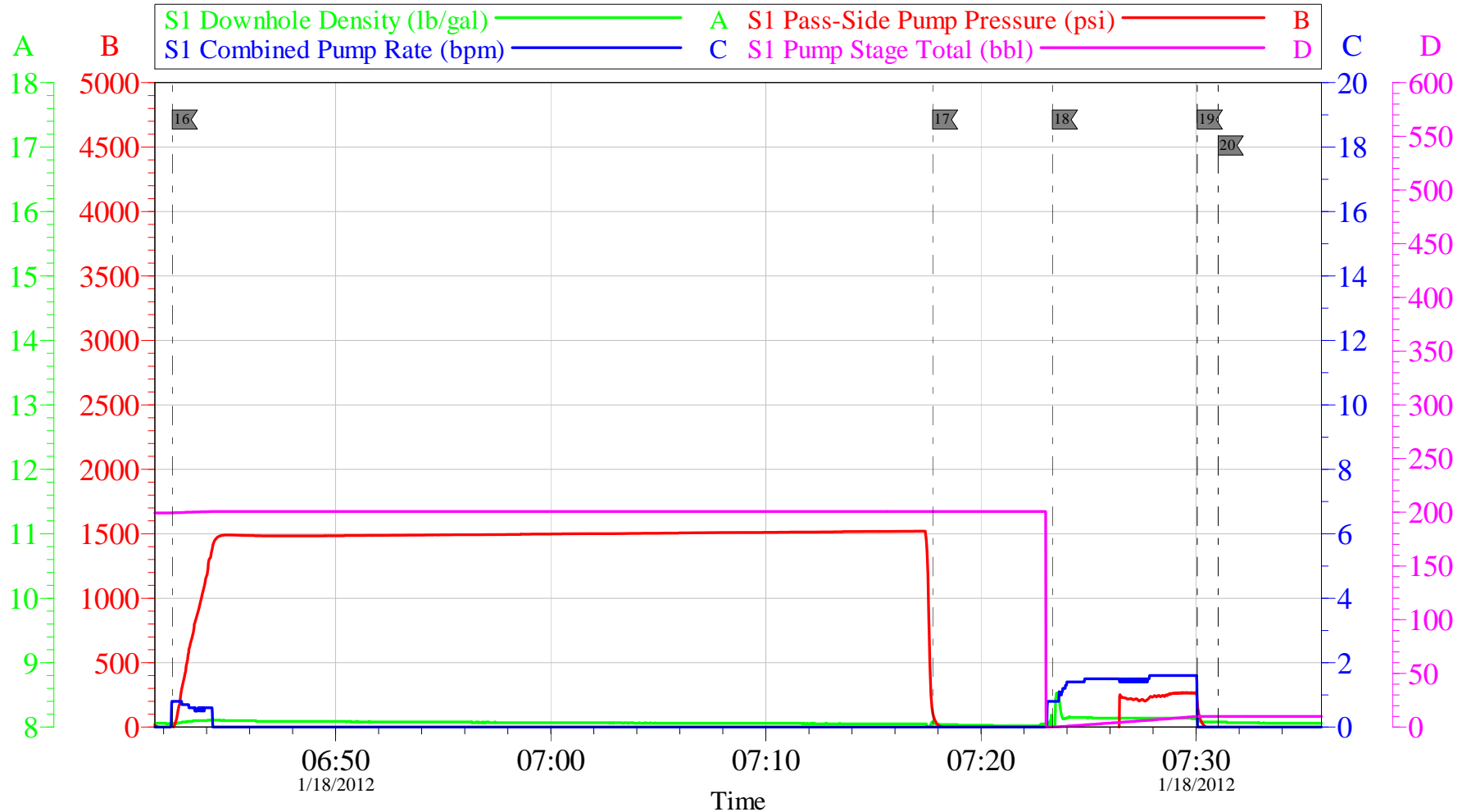
Customer: **OXY**
Well Description: **CC 697-05-53A**
Company Rep: **ALEX VILLEGAS**

Job Date: **18-Jan-2012**
Job Type: **SURFACE**
Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **9107182**
ADC Used: **YES**
Elite #/Operator: **E 7 REGGIE MILLER**

OptiCem v6.4.8
18-Jan-12 07:44

OXY CC 697-05-53A SURFACE 9 5/8 HP 353



Local Event Log

16 PRESSURE TEST CSG/30 MIN 06:42:24	17 CHECK FLOATS 07:17:45	18 PUMP SUGAR WATER/PARASITE 07:23:19
19 SHUT DOWN 07:30:03	20 END JOB 07:31:01	

Customer: **OXY**
Well Description: **CC 697-05-53A**
Company Rep: **ALEX VILLEGAS**

Job Date: **18-Jan-2012**
Job Type: **SURFACE**
Cement Supervisor: **CRAIG KUKUS**

Sales Order #: **9107182**
ADC Used: **YES**
Elite #/Operator: **E 7 REGGIE MILLER**

OptiCem v6.4.8
18-Jan-12 07:49

HALLIBURTON

Water Analysis Report

Company: OXY

Submitted by: CRAIGKUKUS

Attention:

Lease CC

Well # 697-05-53A

Date: 1/18/2012

Date Rec.: 1/18/2012

S.O.# 9107182

Job Type: SURFACE

Specific Gravity	<i>MAX</i>	
pH	<i>8</i>	<i>7.5</i>
Potassium (K)	<i>5000</i>	<i>200</i> Mg / L
Calcium (Ca)	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>0</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>500</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i>below200</i> Mg / L
HARDNESS		<i>250</i> Mg / L
Temp	<i>40-80</i>	<i>55</i> Deg
Total Dissolved Solids		<i>1312</i> Mg / L

Respectfully: CRAIGKUKUS

Title: CEMENTING SUPERVISOR

Location: GRANDJUNCTION 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

Sales Order #: 9107182	Line Item: 10	Survey Conducted Date: 1/18/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20379
Well Name: CC		Well Number: 697-05-53A
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	1/18/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CRAIG KUKUS (HX19742)
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	NICE WORK, NO TOP OUT REQUIRED

CUSTOMER SIGNATURE

Sales Order #: 9107182	Line Item: 10	Survey Conducted Date: 1/18/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20379
Well Name: CC		Well Number: 697-05-53A
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	1/18/2012

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.	5
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.	3.5
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	6
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 #: 9107182	Line Item: 10	Survey Conducted Date: 1/18/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: CAL WYLIE		API / UWI: (leave blank if unknown) 05-045-20379
Well Name: CC		Well Number: 697-05-53A
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	98
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