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**OXY GRAND JUNCTION**

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**CC 697-05-53A**

**Garfield County , Colorado**

**Cement Surface Casing**

**18-Jan-2012**

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2902854	<b>Quote #:</b>	<b>Sales Order #:</b> 9107182
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Rosser, Terry	
<b>Well Name:</b> CC		<b>Well #:</b> 697-05-53A	<b>API/UWI #:</b> 05-045-20379
<b>Field:</b>		<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield
<b>Lat:</b> N 39.554 deg. OR N 39 deg. 33 min. 16.02 secs.		<b>Long:</b> W 108.242 deg. OR W -109 deg. 45 min. 27.396 secs.	
<b>Contractor:</b> H&P 353		<b>Rig/Platform Name/Num:</b> H&P 353	
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> KUKUS, CRAIG	<b>MBU ID Emp #:</b> 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						
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
					17 - Jan - 2012	14:30	MST
<b>Form Type</b>			<b>BHST</b>	<b>On Location</b>	17 - Jan - 2012	23:50	MST
<b>Job depth MD</b>	2730. m		<b>Job Depth TVD</b>	2730. m	18 - Jan - 2012	03:52	MST
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	4. m	18 - Jan - 2012	07:31	MST
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>		<b>Departed Loc</b>	18 - Jan - 2012	09:40
							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

**Sales/Rental/3<sup>rd</sup> 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	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
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
<b>Rates</b>									
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				<b>Customer Representative Signature</b>					

*The Road to Excellence Starts with Safety*

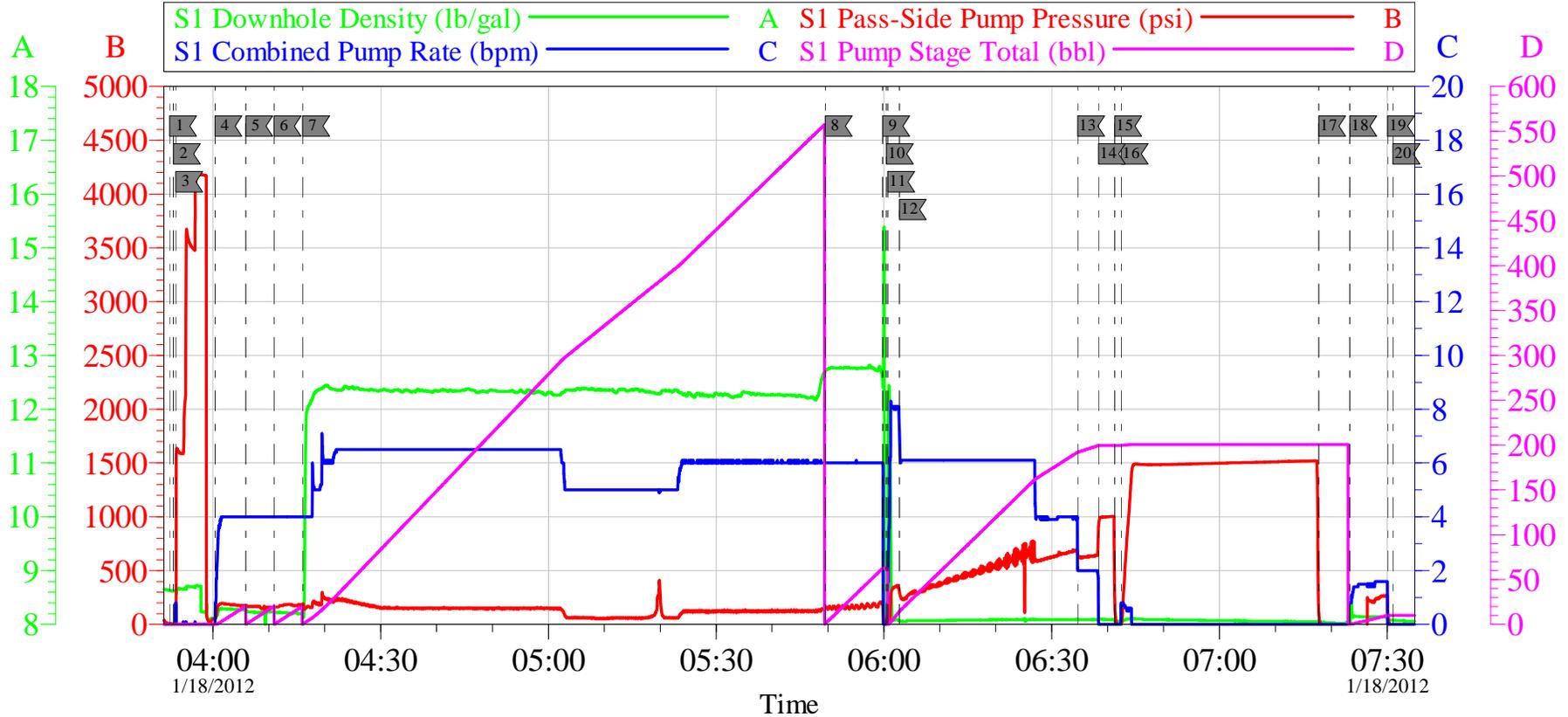
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<b>Legal Description:</b>			
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<b>Contractor:</b> H&P 353		<b>Rig/Platform Name/Num:</b> H&P 353	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> KUKUS, CRAIG	<b>MBU ID Emp #:</b> 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 H20 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 BACKTO 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

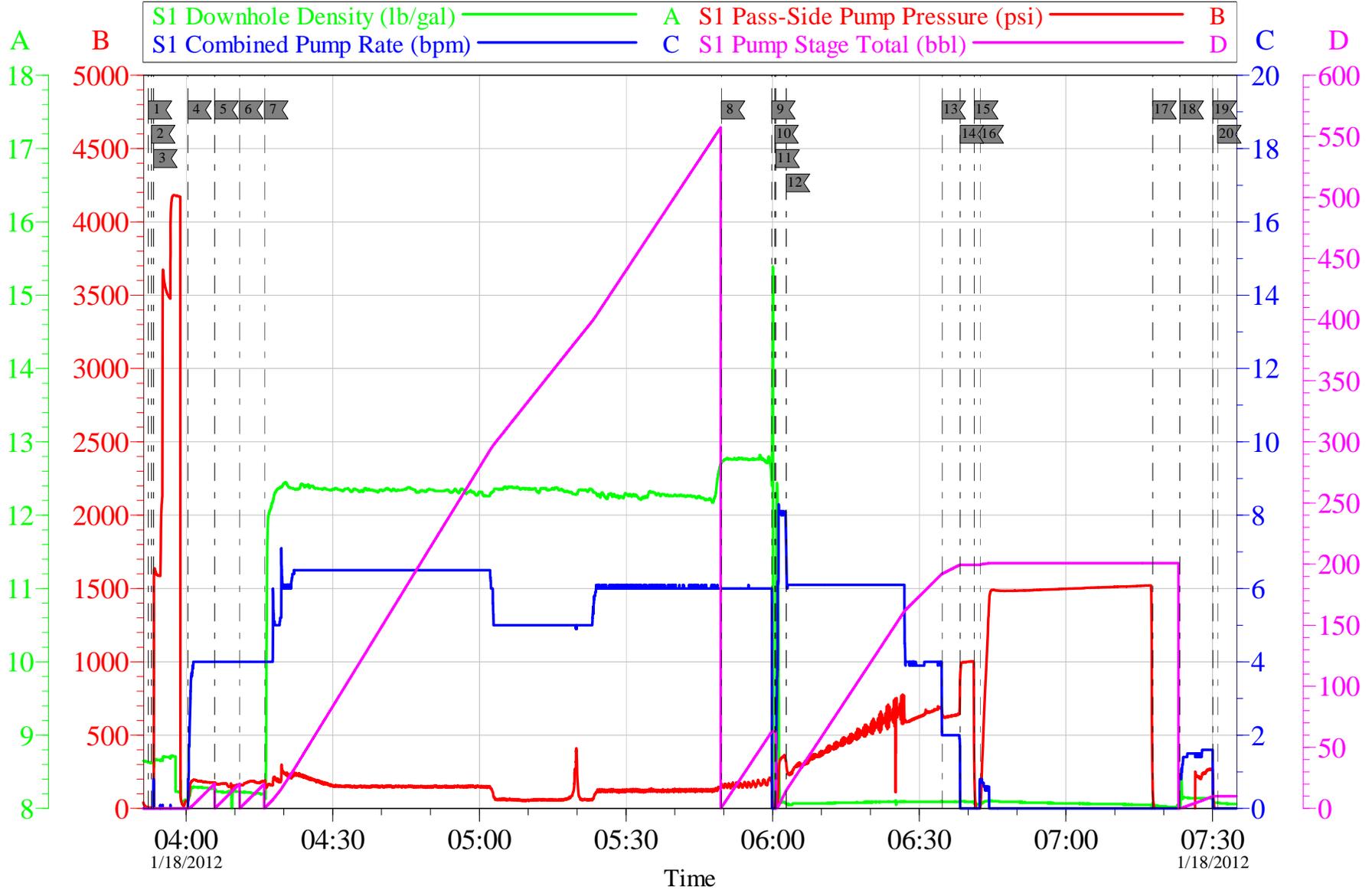


### Local Event Log

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			

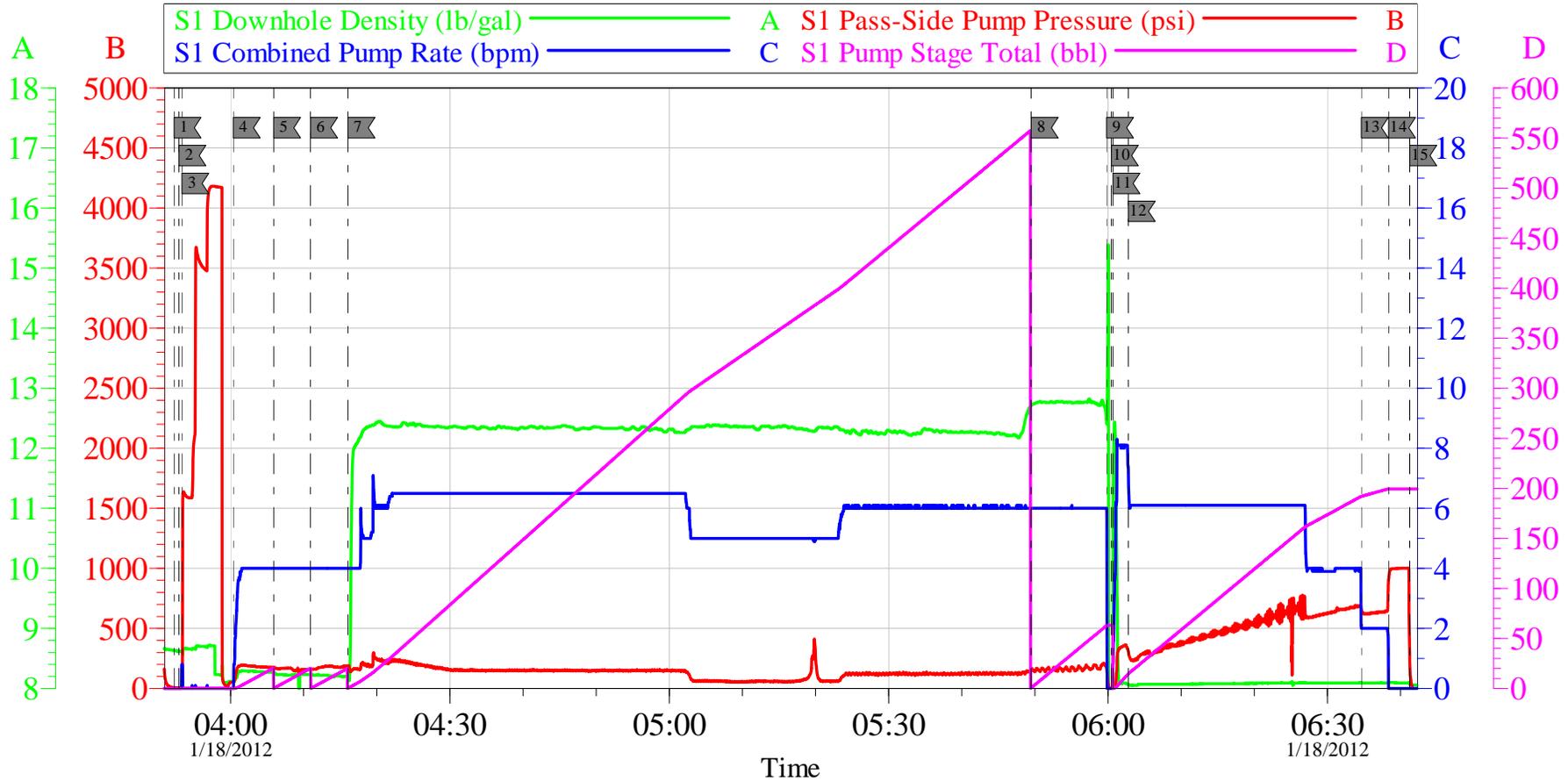
Customer: <b>OXY</b>	Job Date: <b>18-Jan-2012</b>	Sales Order #: <b>9107182</b>
Well Description: <b>CC 697-05-53A</b>	Job Type: <b>SURFACE</b>	ADC Used: <b>YES</b>
Company Rep: <b>ALEX VILLEGAS</b>	Cement Supervisor: <b>CRAIG KUKUS</b>	Elite #/Operator: <b>E 7 REGGIE MILLER</b>

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



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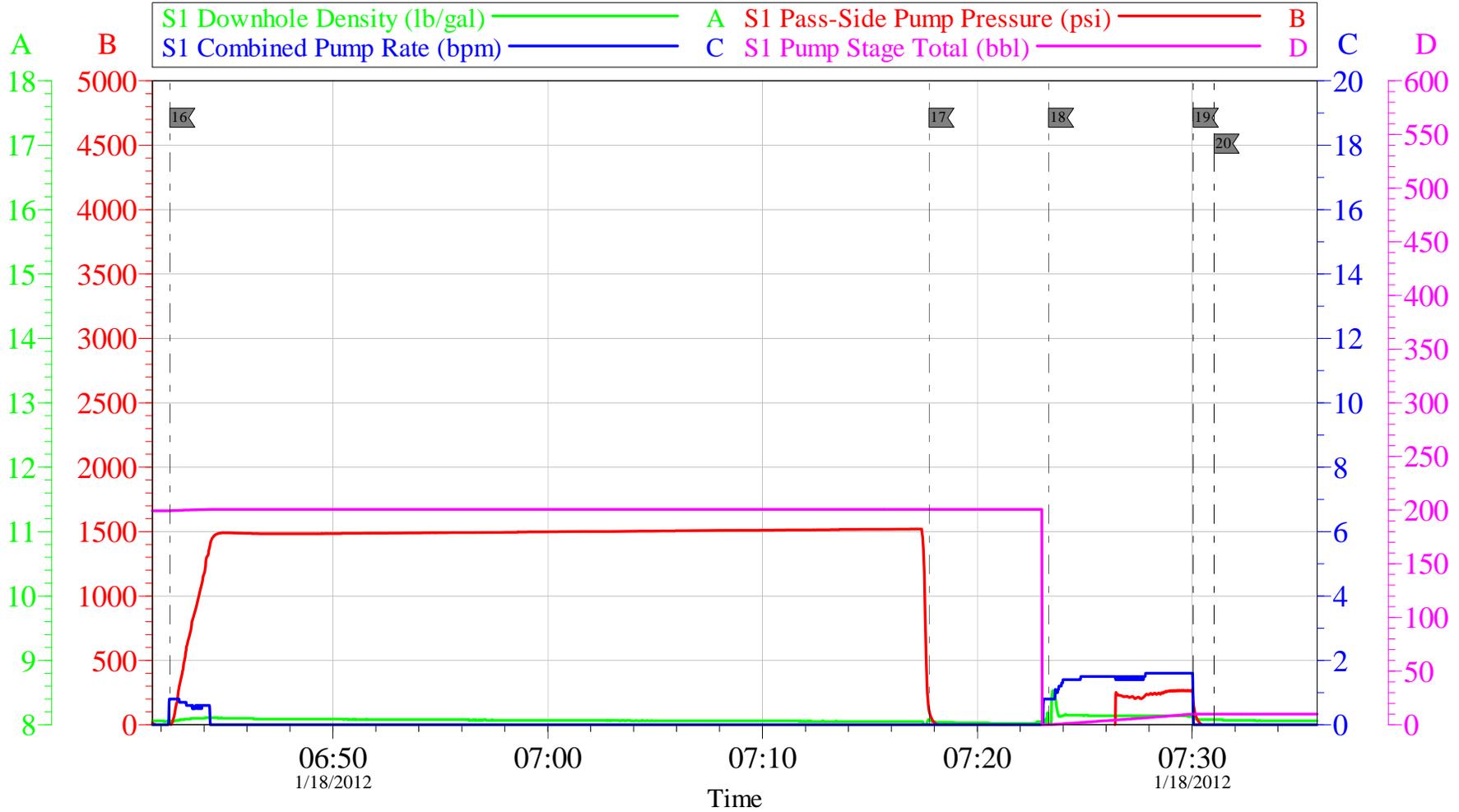
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Company Rep: <b>ALEX VILLEGAS</b>	Cement Supervisor: <b>CRAIG KUKUS</b>	Elite #/Operator: <b>E 7 REGGIE MILLER</b>

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: <b>OXY</b>	Job Date: <b>18-Jan-2012</b>	Sales Order #: <b>9107182</b>
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Company Rep: <b>ALEX VILLEGAS</b>	Cement Supervisor: <b>CRAIG KUKUS</b>	Elite #/Operator: <b>E 7 REGGIE MILLER</b>

# HALLIBURTON

## Water Analysis Report

Company: OXY

Date: 1/18/2012

Submitted by: CRAIGKUKUS

Date Rec.: 1/18/2012

Attention: \_\_\_\_\_

S.O.# 9107182

Lease CC

Job Type: SURFACE

Well # 697-05-53A

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 <sub>4</sub> )	<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

<b>Sales Order #:</b> 9107182	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 1/18/2012
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CAL WYLIE		<b>API / UWI: (leave blank if unknown)</b> 05-045-20379
<b>Well Name:</b> CC		<b>Well Number:</b> 697-05-53A
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> 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

<b>CUSTOMER SIGNATURE</b>
---------------------------

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### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	1/18/2012
The date the survey was conducted	

Cementing KPI Survey	
<b>Type of Job</b>	0
Select the type of job. (Cementing or Non-Cementing)	
<b>Select the Maximum Deviation range for this Job</b>	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
<b>Total Operating Time (hours)</b>	5
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
<b>HSE Incident, Accident, Injury</b>	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
<b>Was the job purpose achieved?</b>	Yes
Was the job delivered correctly as per customer agreed design?	
<b>Operating Hours (Pumping Hours)</b>	3.5
Total number of hours pumping fluid on this job. Enter in decimal format.	
<b>Customer Non-Productive Rig Time (hrs)</b>	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.	
<b>Type of Rig Classification Job Was Performed</b>	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
<b>Number Of JSAs Performed</b>	6
Number Of Jsas Performed	
<b>Number of Unplanned Shutdowns</b>	0
Unplanned shutdown is when injection stops for any period of time.	
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b> Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	98
<b>Was Automated Density Control Used?</b> Was Automated Density Control (ADC) Used ?	Yes
<b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b> 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
<b>Nbr of Remedial Sqz Jobs Rqd - Competition</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	0
<b>Nbr of Remedial Plug Jobs Rqd - HES</b> Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	0
<b>Nbr of Remedial Sqz Jobs Rqd - HES</b> Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	0