
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-10A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
19-May-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2854576	Quote #:	Sales Order #: 8171888
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep:	
Well Name: CC		Well #: 697-09-10A	API/UWI #: 05-04520024
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.304 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.887 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: DUNNING, DUSTIN		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HAYES, JESSE Doug		403601	LEIST, JAMES R		362787	SALAZAR, PAUL Omar		445614
SMITH, CHRISTOPHER Scott		452619						

Equipment

HES Unit #	Distance-1 way						
10025041	240 mile	10616651C	240 mile	10741119	240 mile	10995025	240 mile
11259882	240 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	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	18 - May - 2011	21:00	MST
Form Type		BHST	On Location	19 - May - 2011	05:00	MST
Job depth MD	2720. ft	Job Depth TVD	Job Started	19 - May - 2011	12:48	MST
Water Depth		Wk Ht Above Floor	Job Completed	19 - May - 2011	18:01	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	19 - May - 2011	19:10	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
14.75" OPEN HOLE				14.75				.	2720.		
9.625" SURFACE CASING	Unknown		9.625	8.921	36.		J-55	.	2701.		

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 ft3/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	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62		12.62
	12.62 Gal	FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67		10.67
	10.67 Gal	FRESH WATER							
6	Displacement		205.00	bbl	.	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		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	49 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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Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.304 secs.		Long: W 108.238 deg. OR W -109 deg. 45 min. 42.887 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: DUNNING, DUSTIN		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

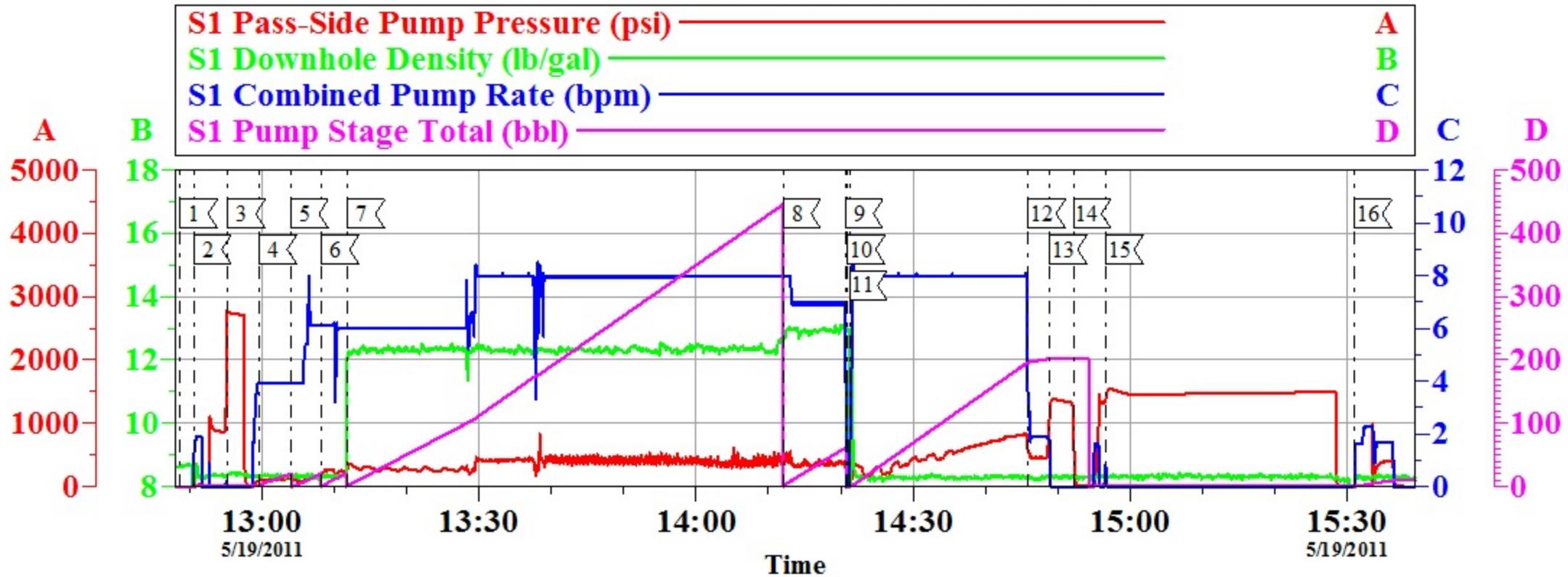
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	05/18/2011 21:00							ALL HES PERSONEL
Crew Leave Yard	05/18/2011 23:30							
Arrive At Loc	05/19/2011 05:00							RIG RUNNING CASEING. CREW STAYED OFF LOCATION UNTILL SAFETY AND COMP REP WERE NOTIFIED OF OUR ARRIVAL.
Assessment Of Location Safety Meeting	05/19/2011 05:30							ALL HES PERSONEL
Rig-Up Equipment	05/19/2011 12:00							RIGGED UP AFTER RIG FINISHED CASING. HES STAYED OUT OF THE RED ZONE.
Pre-Job Safety Meeting	05/19/2011 12:35							ALL HES PERSONEL AND RIG CREW
Start Job	05/19/2011 12:48							TD 2720', TP 2701', SJ 49', OH 14.75", CSG 9.625" 36# J-55 , MUD 9.2 PPG, YP- 15, PV-42, TEMP- 79 DEG.
Other	05/19/2011 12:50		2	2			30.0	FILL LINES
Pressure Test	05/19/2011 12:55		0.5	0.5				ALL LINES HELD PRESSURE @ 2715 PSI
Pump Spacer 1	05/19/2011 12:59		6	20			236.0	FRESH WATER
Pump Spacer 2	05/19/2011 13:04		6	20			142.0	LGC SPACER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	05/19/2011 13:08		6	20			236.0	FRESH WATER
Pump Lead Cement	05/19/2011 13:11		8	435.7			430.0	1050 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK, SET UP TIME 4:28 @ 70 BC.
Pump Tail Cement	05/19/2011 14:12		8	62.7			385.0	170 SKS, 12.8 PPG, 2.07 FT3/ SK, 11.10.67 GAL/SK, SET UP TIME 4:28 @ 70 BC
Shutdown	05/19/2011 14:20							
Drop Top Plug	05/19/2011 14:20							PLUG WENT
Pump Displacement	05/19/2011 14:21		8	195			815.0	FRESH WATER
Slow Rate	05/19/2011 14:45		2	10			550.0	
Bump Plug	05/19/2011 14:48							PLUG BUMPED, BUMPED 500 PSI OVER TOP PSI PRIOR TO SLOWING RATE PER COMP REP.
Check Floats	05/19/2011 14:52							FLOATS HELD
Other	05/19/2011 14:56		0.5	0.5			1500.0	PRESSURE TEST CASEING @ 1500 PSI FOR 30 MIN.
Other	05/19/2011 15:31		3	10			950.0	PUMP DOWN PARASITE WITH SUGAR WATER
Pump Cement	05/19/2011 16:47		2	19			98.0	54 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, TOP OUT
Other	05/19/2011 16:56		2	2			90.0	CLEAN LINES
Shutdown	05/19/2011 16:57							WAIT FOR NEXT TOP OUT
Pump Cement	05/19/2011 17:48		2	24			105.0	69 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, TOP OUT
Other	05/19/2011 17:59		2	2			95.0	CLEAN LINES
Shutdown	05/19/2011 18:00							
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

End Job	05/19/2011 18:01							NO CIRCULATION DURING JOB, 0 BBLs OF CMT TO SURFACE DURING PRIMARY JOB, PIPE WAS NOT MOVED, NO CEMENT TO SURFACE ON FIRST TOP OUT, 2 BBL OF CEMENT TO SURFACE ON SECOND TOP OUT.
Post-Job Safety Meeting (Pre Rig-Down)	05/19/2011 18:20							ALL HES PERSONEL
Rig-Down Completed	05/19/2011 18:50							
Depart Location Safety Meeting	05/19/2011 19:00							ALL HES PERSONEL
Crew Leave Location	05/19/2011 19:10							
Other	05/19/2011 19:11							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

OXY

9.625" SURFACE/ CC 697-09-10A



Local Event Log			
Maximum	SPPP	Maximum	SPPP
1 START JOB	12:48:40 1.000	2 FILL LINES	12:50:34 2769
3 TEST LINES	12:55:16 2761	4 PUMP H2O SPACER	12:59:38 117.0
5 PUMP LGC SPACER	13:04:01 177.0	6 PUMP H2O SPACER	13:08:13 294.1
7 PUMP LEAD CEMENT	13:11:49 844.0	8 PUMP TAIL CEMENT	14:12:04 562.0
9 SHUTDOWN	14:20:39 402.0	10 DROP PLUG	14:20:58 58.00
11 PUMP H2O DISPLACEMENT	14:21:15 838.0	12 SLOW RATE	14:45:56 1155
13 BUMP PLUG	14:48:55 1380	14 CHECK FLOATS	14:52:11 1448
15 PRESSURE TEST CASING	14:56:43 1539	16 PUMP DOWN PARASITE	15:31:03 988.0

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10A
 Customer Rep: HENRY COOMBS

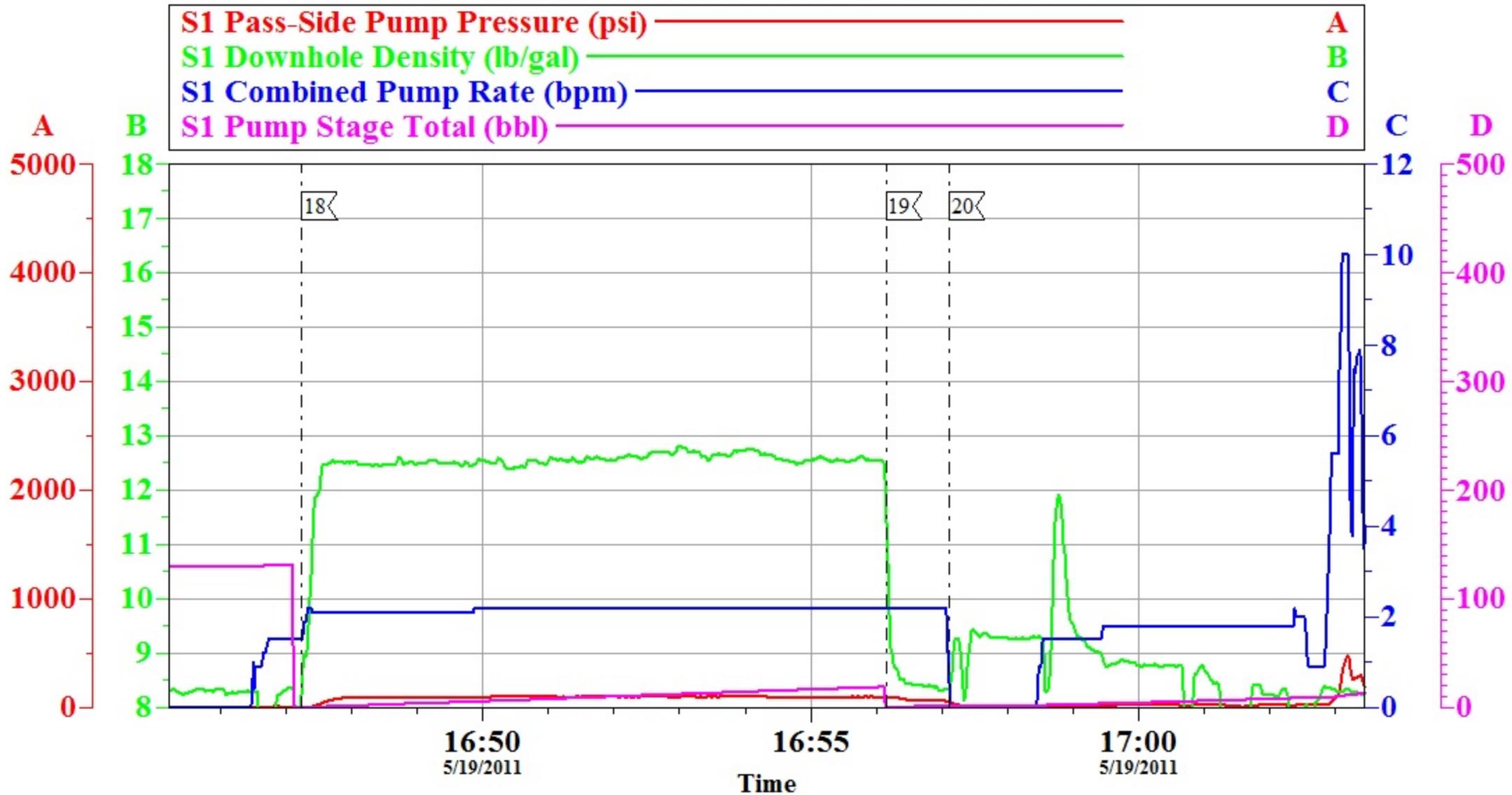
Job Date: 19-May-2011
 Job type: 05-04520024
 Service Supervisor: C. SMITH

Sales Order #: 8171888
 ADC Used: YES
 Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9
 19-May-11 16:22

OXY

9.625" SURFACE TOP OUT #1/ CC 697-09-10A



Local Event Log							
	Maximum	SPPP	Maximum	SPPP			
18	PUMP TOP OUT CEMENT	16:47:14	104.0	19	CLEAN LINES	16:56:09	92.00
20	SHUTDOWN	16:57:06	475.0				

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10A
 Customer Rep: HENRY COOMBS

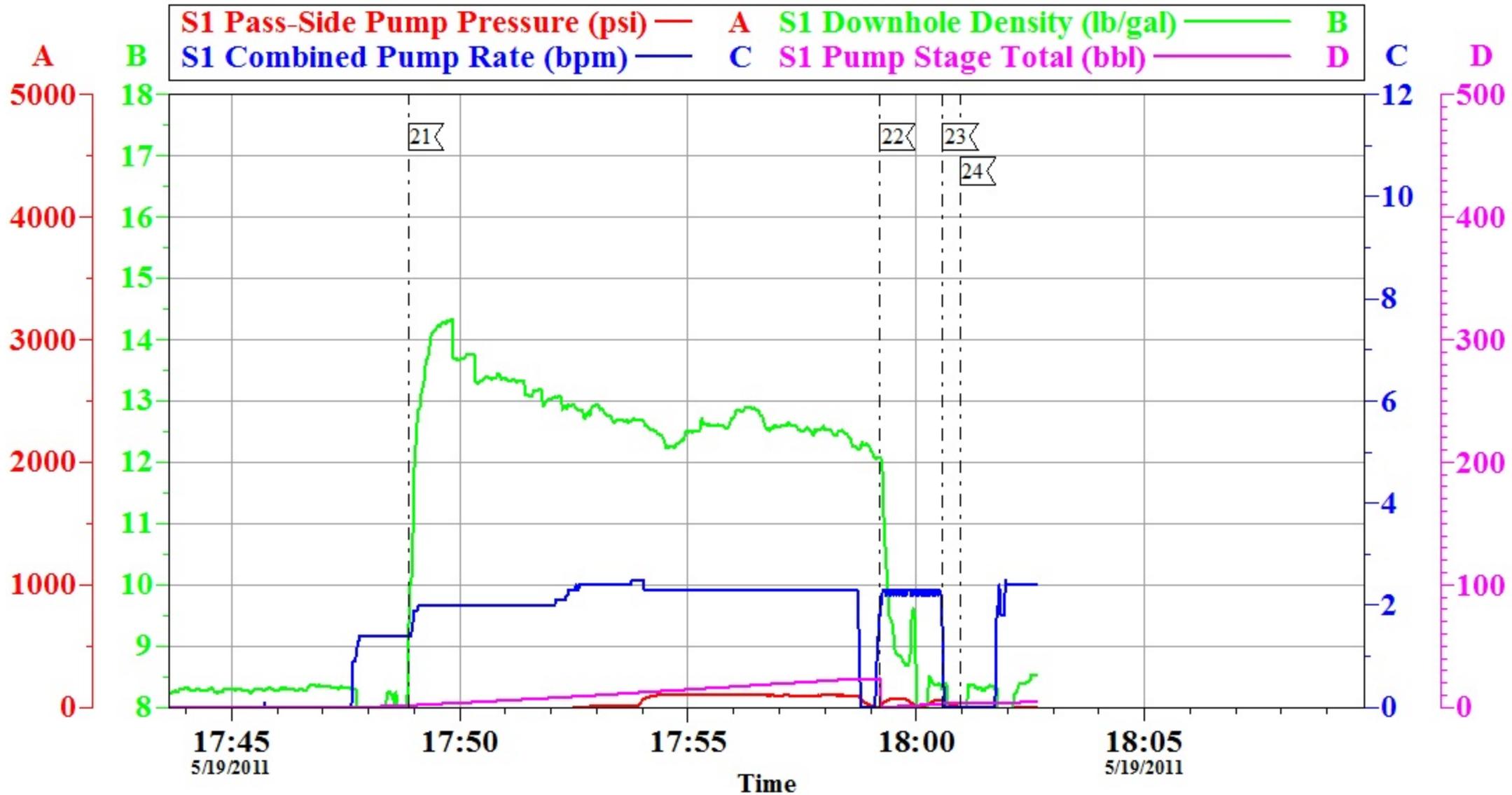
Job Date: 19-May-2011
 Job type: 05-04520024
 Service Supervisor: C. SMITH

Sales Order #: 8171888
 ADC Used: YES
 Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9
 19-May-11 17:03

OXY

9.625" SURFACE TOP OUT #2/ CC 697-09-10A



Local Event Log							
	Maximum		SPPP	Maximum	SPPP		
21	PUMP TOP OUT CEMENT	17:48:52	110.0	22	CLEAN LINES	17:59:11	69.00
23	SHUTDOWN	18:00:34	63.00	24	END JOB	18:00:57	7.000

Customer: OXY GRAND JUNCTION EBUSINESS
 Well Description: CC 697-09-10A
 Customer Rep: HENRY COOMBS

Job Date: 19-May-2011
 Job type: 05-04520024
 Service Supervisor: C. SMITH

Sales Order #: 8171888
 ADC Used: YES
 Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9
 19-May-11 18:10

HALLIBURTON

Water Analysis Report

Company:	<u>Oxy</u>	Date:	<u>05.19.2011</u>
Submitted by:	<u>Chris Smith</u>	Date Rec.:	<u>05.19.2011</u>
Attention:	<u>J.Trout</u>	S.O.#	<u>8171888</u>
Lease	<u>HP353</u>	Job Type:	<u>SURFACE</u>
Well #	<u>CC 697-09-10A</u>		

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	450 Mg / L
Hrdness	<i>500</i>	250 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	<200 Mg / L
Temp	<i>40-80</i>	50 Deg
Total Dissolved Solids		380 Mg / L

Respectfully: Chris Smith

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 repor

Sales Order #: 8171888	Line Item: 10	Survey Conducted Date: 5/19/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COMBS		API / UWI: (leave blank if unknown) 05-04520024
Well Name: CC		Well Number: 697-09-10A
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	5/19/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	HENRY COMBS
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 #: 8171888	Line Item: 10	Survey Conducted Date: 5/19/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COMBS		API / UWI: (leave blank if unknown) 05-04520024
Well Name: CC		Well Number: 697-09-10A
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	5/19/2011
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)	6
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)	5.5
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	7
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 #: 8171888	Line Item: 10	Survey Conducted Date: 5/19/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: HENRY COMBS		API / UWI: (leave blank if unknown) 05-04520024
Well Name: CC		Well Number: 697-09-10A
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	96
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