
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-51
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
28-Apr-2012

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2924220		Quote #:		Sales Order #: 9471987	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Vallegas, Alex			
Well Name: CC			Well #: 697-05-51			API/UWI #: 05-045-20954	
Field: GRAND VALLEY		City (SAP):		County/Parish: Garfield			State: Colorado
Lat: N 39.544 deg. OR N 39 deg. 32 min. 37.644 secs.				Long: W 108.246 deg. OR W -109 deg. 45 min. 12.708 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: ANGLESTEIN, TROY			MBU ID Emp #: 436099	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	12	436099	ENGBERG, KEVIN W	12	454218	KUKUS, CARLTON Dean	12	458577
WYCKOFF, RYAN Scott	12	476117						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10297346	120 mile	10616651C	120 mile	10867322	120 mile	10998512	120 mile
11071559	120 mile	11259882	120 mile	11808827	120 mile	4901	120 mile
6543	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4/28/2012	12	5						

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	28 - Apr - 2012	04:00	MST
Form Type		BHST	Job Started	28 - Apr - 2012	10:49	MST
Job depth MD	2720. ft	Job Depth TVD	Job Completed	28 - Apr - 2012	14:09	MST
Water Depth		Wk Ht Above Floor	Departed Loc	28 - Apr - 2012	16:00	MST
Perforation Depth (MD)	From	To				

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
-------------	------------	-------------------	---------	-------	---------------	--------	-------	-----------	--------------	------------	---------------

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	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	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 lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water Spacer		10.00	bbl	8.33	.0	.0	4	
2	Gel Water Spacer		20.00	bbl	8.34	.0	.0	4	
0.25 gal/bbl		LGC-36 UC, BULK (101582749)							
3	Fresh Water Spacer			bbl	8.33	.0	.0	4	
4	Lead Cement	HALCEM (TM) SYSTEM (452986)	1162.0	sacks	12.3	2.15	11.83	6	11.83
11.83 Gal		FRESH WATER							
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67	6	10.67
10.67 Gal		FRESH WATER							
6	Fresh Water Displacement		203.00	bbl	8.34	.0	.0	6	
10.96 Gal		FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	202.4	Shut In: Instant		Lost Returns	0	Cement Slurry	459	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	220	Actual Displacement	202.4	Treatment	
Frac Gradient		15 Min		Spacers	40	Load and Breakdown		Total Job	704
Rates									
Circulating	5	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	48.49 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

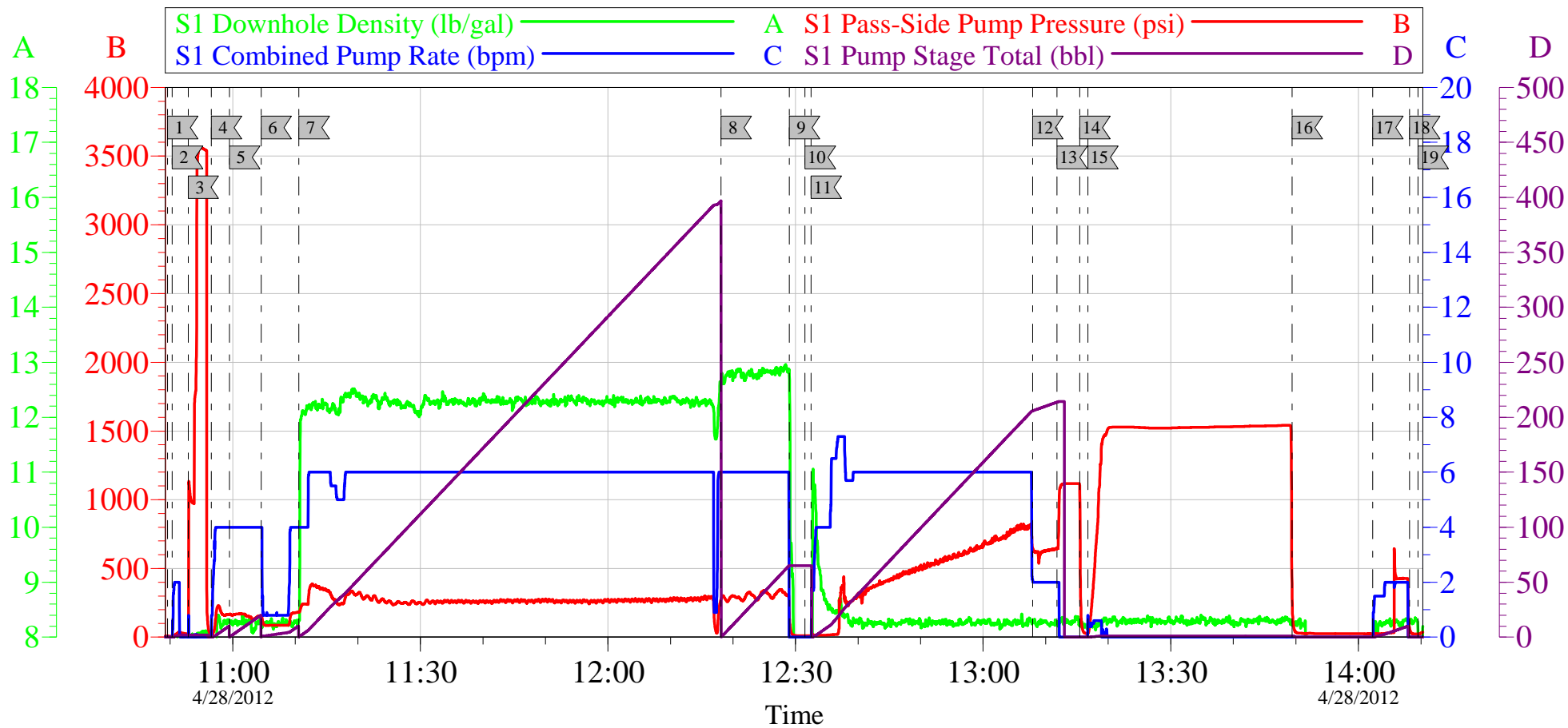
Sold To #: 344034	Ship To #: 2924220	Quote #:	Sales Order #: 9471987
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Vallegas, Alex	
Well Name: CC	Well #: 697-05-51	API/UWI #: 05-045-20954	
Field: GRAND VALLEY	City (SAP):	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.544 deg. OR N 39 deg. 32 min. 37.644 secs.		Long: W 108.246 deg. OR W -109 deg. 45 min. 12.708 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		Srv Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	04/27/2012 23:30							
Pre-Convoy Safety Meeting	04/28/2012 01:00							ALL HES EMPLOYEES
Arrive At Loc	04/28/2012 04:00							RIG STILL RUNNING CASING CIRCULATED FOR 1 HOUR
Assessment Of Location Safety Meeting	04/28/2012 04:30							ALL HES EMPLOYEES
Rig-Up Equipment	04/28/2012 05:00							1 HT 400 PUMP TRUCK, 2 660 BULK TRUCKS, 1 9.625" QUICK LATCH PLUG CONTAINER, 1 F 550 P/U, 2 FIELD SILOS
Pre-Job Safety Meeting	04/28/2012 10:30							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	04/28/2012 10:49							TP 2698', TD 2720', FC 2651', HOLE 14.75", MUD WT 9.3 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED. JOB WAS DONE OFFLINE. GOOD RETURNS THROUGHOUT JOB
Pump Water	04/28/2012 10:50		2	2			41.0	FILL LINES
Pressure Test	04/28/2012 10:52		0.5	0.5		3561.0		NO LEAKS
Pump Spacer 1	04/28/2012 10:56		4	10			166.0	FRESH WATER
Pump Spacer 2	04/28/2012 10:59		4	20			173.0	GEL WATER 2.5 GALS OF LGC PER 10 BBLS

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	04/28/2012 11:04		4	10			171.0	FRESHWATER
Pump Lead Cement	04/28/2012 11:10		6	400			268.0	1050 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.15 YIELD, 11.83 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. 7 BOXES OF TUFF FIBER ADDED ON THE FLY THROUGHOUT LEAD CMT. CUT CMT SHORT 120 SKS PER CO. REP. DUE TO GOOD RETURNS
Pump Tail Cement	04/28/2012 12:18		6	59			276.0	160 SKS VERSACEM CMT TO BE MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.
Cement Returns to Surface	04/28/2012 12:24		6	36			276.0	CEMENT RETURNS 36 BBLs INTO TAIL CEMENT, GOOD CEMENT RETURNS THE REST OF THE JOB. 220 BBLs OF CEMENT BACK TO SURFACE
Shutdown	04/28/2012 12:29							
Drop Plug	04/28/2012 12:31							PLUG LAUNCHED
Pump Displacement	04/28/2012 12:32		6	202.4			822.0	FRESHWATER. BBL COUNTER ON HES PUMP READ HIGH DURING DISPLACEMENT HES WENT OFF DISPLACEMENT TANKS FOR ACCURATE COUNT.

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	04/28/2012 13:07		2	192			640.0	10 BBLS PRIOR TO CALCULATED DISPLACEMENT
Bump Plug	04/28/2012 13:11		2	202.4			632.0	PLUG LANDED AT 1090 HELD FOR FIVE MINUTES
Check Floats	04/28/2012 13:15							FLOATS HOLDING, NO ANNULAR FLOW NOTED
Pressure Up	04/28/2012 13:16							1500 PSI 30 MINUTE CASING TEST
Release Casing Pressure	04/28/2012 13:49							RELEASE CASING PRESSURE BACK TO TRUCK
Pump Water	04/28/2012 14:02		2	10			617.0	PUMP 10 BBLS SUGAR WATER DOWN PARASITE CAUGHT PRESSURE AT 5.7 BBLS PRESSURED UP TO 617
End Job	04/28/2012 14:09							THANK YOU FOR USING HES FROM TROY ANGLESTEIN AND CREW.
Post-Job Safety Meeting (Pre Rig-Down)	04/28/2012 14:15							ALL HES EMPLOYEES
Rig-Down Equipment	04/28/2012 14:30							SAFELY
Pre-Convoy Safety Meeting	04/28/2012 15:50							ALL HES EMPLOYEES
Crew Leave Location	04/28/2012 16:00							SITE WAS AS CLEAN AS WHEN WE ARRIVED

OXY CC 697-05-51 SURFACE

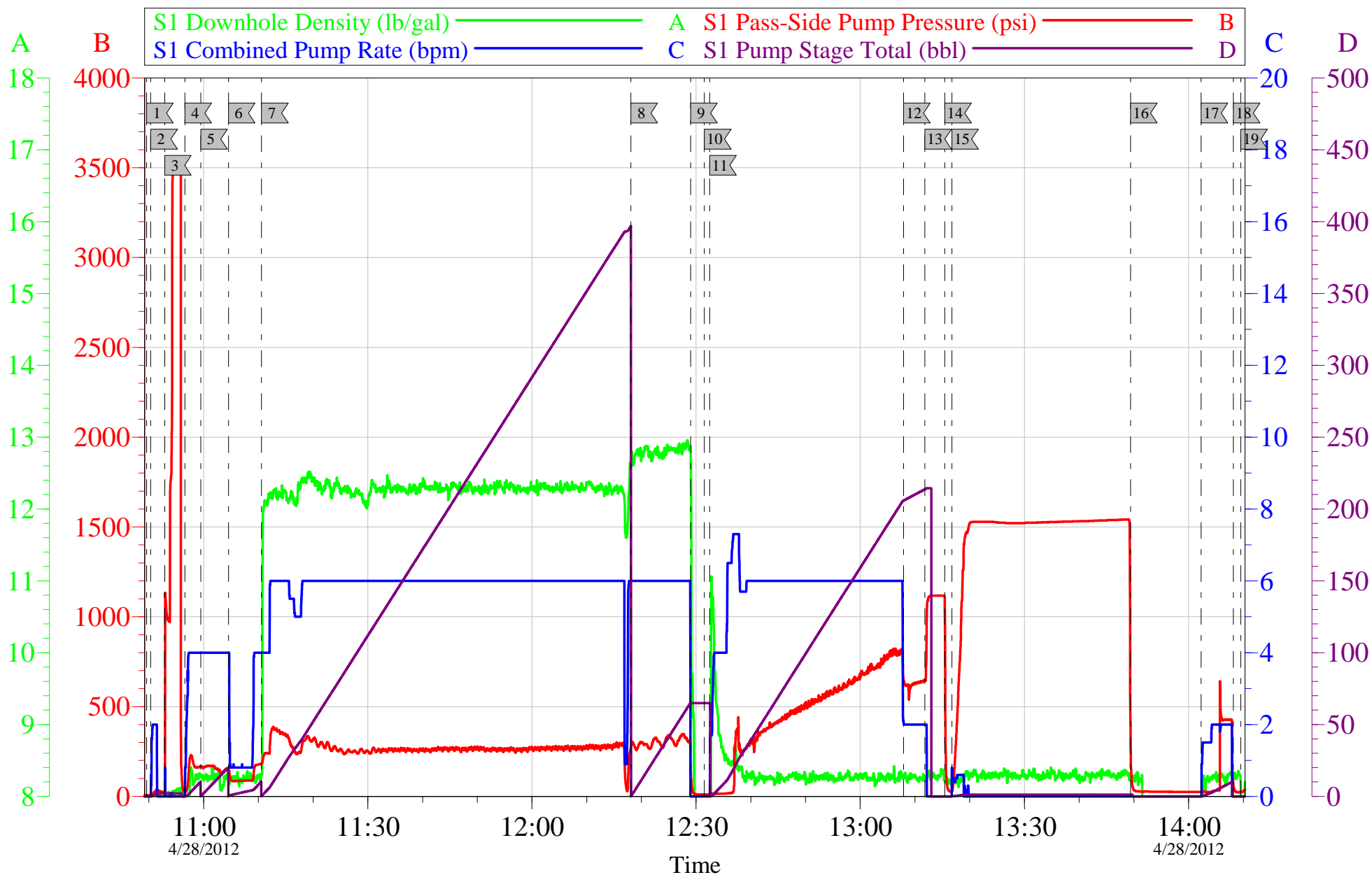


Local Event Log								
1	START JOB	10:49:34	2	FILL LINES	10:50:20	3	TEST LINES	10:52:52
4	PUMP H2O SPACER	10:56:33	5	PUMP GEL SPACER	10:59:28	6	PUMP H2O SPACER	11:04:32
7	PUMP LEAD CEMENT	11:10:35	8	PUMP TAIL CEMENT	12:18:05	9	SHUTDOWN	12:29:00
10	DROP PLUG	12:31:31	11	PUMP DISPLACEMENT	12:32:30	12	SLOW RATE	13:07:54
13	BUMP PLUG	13:11:48	14	CHECK FLOATS	13:15:27	15	PRESSURE UP CASING	13:16:44
16	RELEASE PRESSURE	13:49:24	17	PUMP DOWN PARASITE	14:02:18	18	SHUTDOWN	14:08:11
19	END JOB	14:09:33						

Customer: OXY	Job Date: 28-Apr-2012	Sales Order #: 9471987
Well Description: CC 697-05-51	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VALLEGAS	Cement Supervisor: TROY ANGLESTEIN	Elite #: 4 RYAN WYCKOFF

OptiCem v6.4.10
28-Apr-12 14:22

OXY CC 697-05-51 SURFACE



Customer: OXY	Job Date: 28-Apr-2012	Sales Order #: 9471987
Well Description: CC 697-05-51	Job Type: SURFACE	ADC Used: YES
Company Rep: ALEX VALLEGAS	Cement Supervisor: TROY ANGLESTEIN	Elite #: 4 RYAN WYCKOFF

OptiCem v6.4.10
28-Apr-12 14:22

HALLIBURTON

Water Analysis Report

Company:	<u>OXY</u>	Date:	<u>4/28/2012</u>
Submitted by:	<u>TROY ANGLESTEIN</u>	Date Rec.:	<u>4/28/2012</u>
Attention:	<u>LAB</u>	S.O.#	<u>9471987</u>
Lease	<u>H&P 353</u>	Job Type:	<u>SURFACE</u>
Well #	<u>CC 697-05-51</u>		

Specific Gravity	<i>MAX</i>	<i>1</i>
pH	<i>8</i>	<i>6</i>
Potassium (K)	<i>5000</i>	<i>220</i> Mg / L
Hrdness	<i>500</i>	<i>0</i> Mg / L
Iron (FE2)	<i>300</i>	<i>200</i> Mg / L
Chlorides (Cl)	<i>3000</i>	<i>0</i> Mg / L
Sulfates (SO ₄)	<i>1500</i>	<i><200</i> Mg / L
Temp	<i>40-80</i>	<i>63</i> Deg
Total Dissolved Solids		<i>390</i> Mg / L

Respectfully: TROY ANGLESTEIN

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 #: 9471987	Line Item: 10	Survey Conducted Date: 4/28/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20954
Well Name: CC		Well Number: 697-05-51
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	4/28/2012
Survey Interviewer	The survey interviewer is the person who initiated the survey.	TROY ANGLESTEIN (HX45574)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ALEX VALLEGAS
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	GREAT JOB

CUSTOMER SIGNATURE

Sales Order #: 9471987	Line Item: 10	Survey Conducted Date: 4/28/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20954
Well Name: CC		Well Number: 697-05-51
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	4/28/2012

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.	Deviated
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	3
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
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	5
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 #: 9471987	Line Item: 10	Survey Conducted Date: 4/28/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: ALEX VALLEGAS		API / UWI: (leave blank if unknown) 05-045-20954
Well Name: CC		Well Number: 697-05-51
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	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	97
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