
OXY GRAND JUNCTION EBUSINESS

Cascade Creek 797-05-55D
GRAND VALLEY
Garfield County , Colorado

Cement via Annulus
19-Mar-2013

Post Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: UNKNOWN	Quote #:	Sales Order #: 900299202
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: McKinney, Ken	
Well Name: Cascade Creek		Well #: 797-05-55D	API/UWI #: 05-045-11962
Field: GRAND VALLEY	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Lat: N 39.471 deg. OR N 39 deg. 28 min. 14.124 secs.		Long: W 108.244 deg. OR W -109 deg. 45 min. 21.348 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Cement via Annulus			
Well Type: Development Well		Job Type: Cement via Annulus	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLANCHETTE, JAMES George	4.5	371360	GOWEN, WESLEY M	4.5	496205	KUKUS, CHRISTOPHER A	4.5	413952
ROSE, BENJAMIN Keith	4.5	487022						

Equipment

HES Unit #	Distance-1 way						
10248057	60 mile	10296152C	60 mile	11164589	60 mile	11583931	60 mile
11808849	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/19/2013	4.5	3						

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	19 - Mar - 2013	07:30	MST
Form Type	BHST		Job Started	19 - Mar - 2013	09:55	MST
Job depth MD	1000. ft	Job Depth TVD	1000. ft	Job Completed	19 - Mar - 2013	10:48
Water Depth		Wk Ht Above Floor	2. ft	Departed Loc	19 - Mar - 2013	12:00
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
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
R/A DENSOMETER W/CHART RECORDER,/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			
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		1.00	bbl	8.33	.0	.0	1.0	
2	Tail Cement	HALCEM (TM) SYSTEM (452986)	50.0	sacks	15.8	1.15	5.0	.9	5.0
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	5 Gal	FRESH WATER							
3	Displacement			bbl	.	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	10.2	Pad	
Top Of Cement		5 Min		Cement Returns	1.5	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	1	Load and Breakdown		Total Job	8
Rates									
Circulating		Mixing	.9	Displacement		Avg. Job			.9
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					

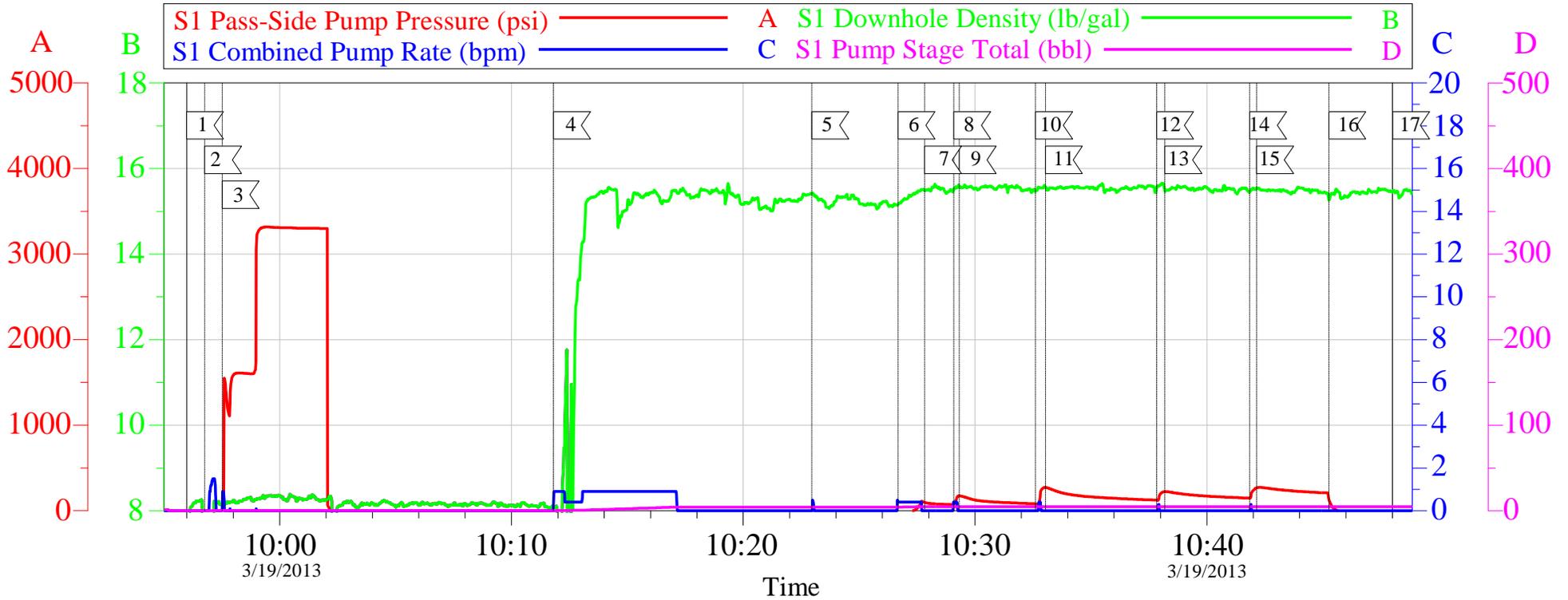
The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: UNKNOWN	Quote #:	Sales Order #: 900299202
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Well Name: Cascade Creek		Well #: 797-05-55D	API/UWI #: 05-045-11962
Field: GRAND VALLEY	City (SAP): UNKNOWN	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.471 deg. OR N 39 deg. 28 min. 14.124 secs.		Long: W 108.244 deg. OR W -109 deg. 45 min. 21.348 secs.	
Contractor: WORKOVER		Rig/Platform Name/Num: Workover	
Job Purpose: Cement via Annulus			Ticket Amount:
Well Type: Development Well		Job Type: Cement via Annulus	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: KUKUS, CHRISTOPHER	MBU ID Emp #: 413952

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/19/2013 03:00							ELITE # 9
Depart Yard Safety Meeting	03/19/2013 05:30							SAFETY MEETING WITH ALL HES
Arrive At Loc	03/19/2013 07:30							ARRIVED ON LOCATION 30 MINS EARLY DIDNT START CHARGING TIME UNTIL REQUESTED ON LOCATION TIME
Assessment Of Location Safety Meeting	03/19/2013 07:45							
Pre-Rig Up Safety Meeting	03/19/2013 08:00							ALL HES EMPLOYEES
Rig-Up Equipment	03/19/2013 08:20							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 BODYLOAD IRON TO WELL HEAD, SUCTION HOSE TO WATER TRUCK, BLUK HOSE TO BULK TRUCK
Pre-Job Safety Meeting	03/19/2013 09:40							ALL PERSONNEL ON LOCATION
Start Job	03/19/2013 09:55							PUMP INTO BACKSIDE
Injection Test	03/19/2013 09:56		1	1	1		.0	PUMP 1 BBL FRESH WATER INJECTION TEST
Pressure Test	03/19/2013 09:57						3317.0	PRESSURE TEST OK
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Pump Tail Cement	03/19/2013 10:11		0.9	4.5	4.5		.0	50 SKS 15.8 PPG 1.15 YEILD 5.01 GAL / SK TAIL CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGH OUT TAIL CEMENT
Shutdown	03/19/2013 10:22							SHUTDOWN TO HESITATE
Resume Pumping	03/19/2013 10:26		0.9	4.5	4.5		.0	RESUME PUMPING
Shutdown	03/19/2013 10:27			4.7	4.7		113.0	SHUTDOWN TO HESITATE
Resume Pumping	03/19/2013 10:29		0.4	4.7	4.7		80.0	RESUME PUMPING
Shutdown	03/19/2013 10:29			4.8	4.8		175.0	SHUTDOWN TO HESITATE
Resume Pumping	03/19/2013 10:32		0.4	4.8	4.8		80.0	RESUME PUMPING
Shutdown	03/19/2013 10:33			4.9	4.9		200.0	SHUTDOWN TO HESITATE
Resume Pumping	03/19/2013 10:37		0.4	4.9	4.9		80.0	RESUME PUMPING
Shutdown	03/19/2013 10:38			4.9	4.9		273.0	SHUTDOWN TO HESITATE
Resume Pumping	03/19/2013 10:41		0.4	4.9	4.9		150.0	RESUME PUMPING
Shutdown	03/19/2013 10:42			4.9	4.9		273.0	SHUTDOWN AND SHUT IN WELL RELEASE PRESSURE
End Job	03/19/2013 10:48							WELL HAD CIRCULATION GOT 1.5 BBLs OF CEMENT TO SURFACE HES USED 20LB OF SUGAR TICKET CHANGES: SUGAR TO 20LBS, DOT TO 3, TOOK OFF SQUEEZE MANIFOLD.
Pre-Rig Down Safety Meeting	03/19/2013 11:00							ALL HES EMPLOYEES
Rig-Down Equipment	03/19/2013 11:20							IRON FROM WELL HEAD, SUCTION HOSES, BULK HOSE, WASH UP PUMP TRUCK
Pre-Convoy Safety Meeting	03/19/2013 11:50							ALL HES EMPLOYEES
Crew Leave Location	03/19/2013 12:00							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

OXY / CC 797-05-55D Cement Via Annulus

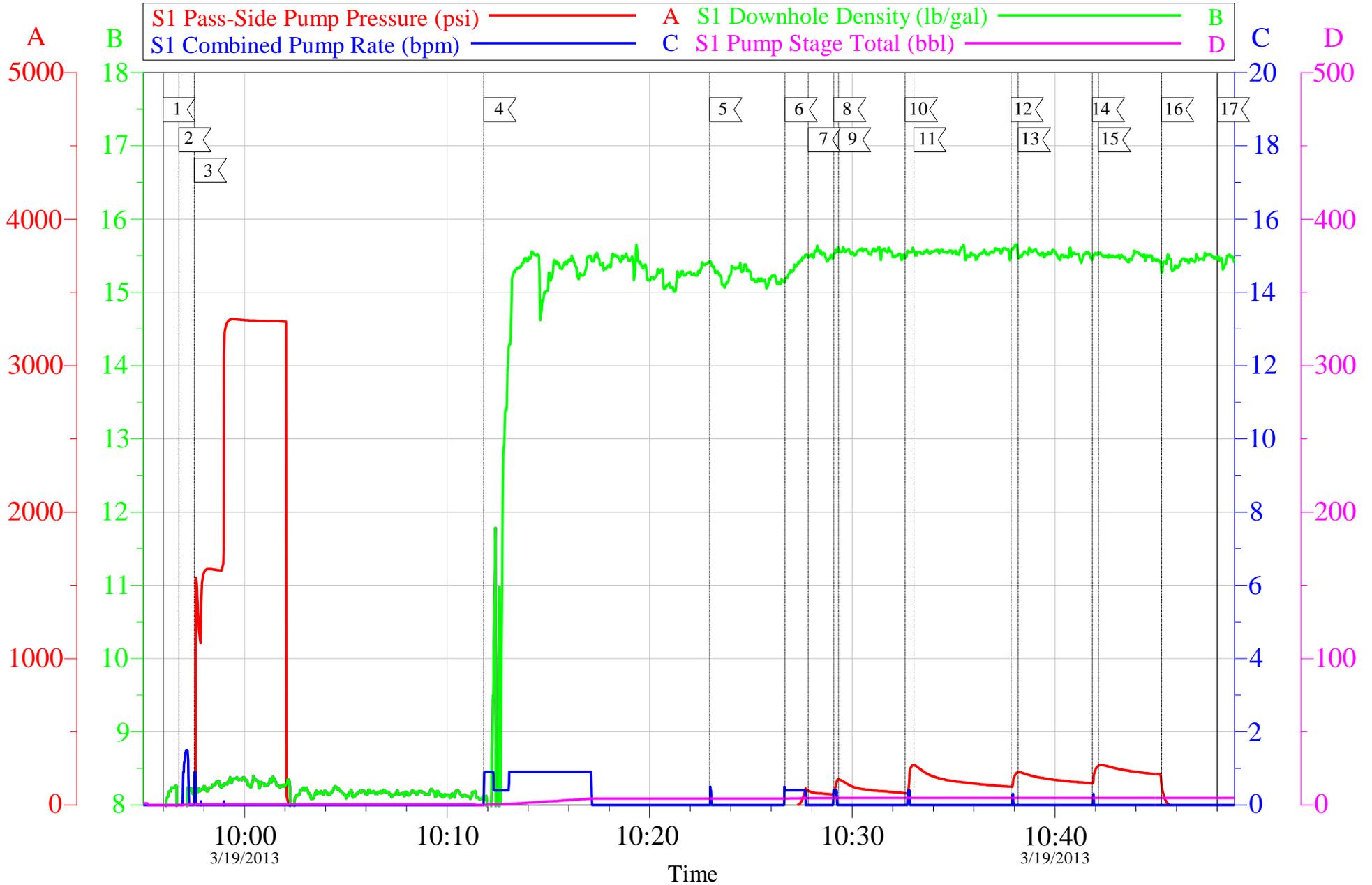


Local Event Log

1	START JOB	09:55:58	2	FILL LINES	09:56:45
3	TEST LINES	09:57:31	4	PUMP TAIL CEMENT	10:11:49
5	SHUTDOWN	10:22:57	6	RESUME CEMENT	10:26:41
7	SHUTDOWN	10:27:49	8	RESUME CEMENT	10:29:05
9	SHUTDOWN	10:29:19	10	RESUME CEMENT	10:32:37
11	SHUTDOWN	10:33:02	12	RESUME CEMENT	10:37:50
13	SHUTDOWN	10:38:11	14	RESUME CEMENT	10:41:51
15	SHUTDOWN	10:42:09	16	SHUT IN WELL / RELEASE PRESSURE	10:45:16
17	END JOB	10:48:01			

Customer:	OXY	Job Date:	19-Mar-2013	Sales Order #:	900299202
Well Description:	CC 797-05-55D	Job Type:	Top Out	ADC Used:	YES
Company Rep:	KEN MCKINNEY	Cement Supervisor:	CHRIS KUKUS	Elite # 9:	WESLEY GOWEN

OXY / CC 797-05-55D Cement Via Annulus



Customer: OXY	Job Date: 19-Mar-2013	Sales Order #: 900299202
Well Description: CC 797-05-55D	Job Type: Top Out	ADC Used: YES
Company Rep: KEN MCKINNEY	Cement Supervisor: CHRIS KUKUS	Elite # 9: WESLEY GOWEN

HALLIBURTON

Water Analysis Report

Company: OXY Date: 3/19/2013
Submitted by: CHRIS KUKUS Date Rec.: 3/19/2013
Attention: J. TROUT/C.MARTINEZ S.O.#: 900299202
Lease: CC Job Type: SQUEEZE
Well #: 797-05-55D

Specific Gravity	MAX	1
pH	8	8
Potassium (K)	5000	0 Mg / L
Calcium (Ca)	500	120 Mg / L
Iron (FE2)	300	0 Mg / L
Chlorides (Cl)	3000	0 Mg / L
Sulfates (SO ₄)	1500	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	40-80	50 Deg
Total Dissolved Solids		280 Mg / L

Respectfully: CHRIS KUKUS

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 it

Sales Order #: 900299202	Line Item: 10	Survey Conducted Date: 3/19/2013
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT VIA ANNULUS BOM
Customer Representative:		API / UWI: (leave blank if unknown) 05-045-11962
Well Name: Cascade Creek		Well Number: 797-05-55D
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Garfield

Dear Customer,DD

DD

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.DD

DD

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	3/19/2013
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER KUKUS (HX35027)
Customer Participation	Did the customer participate in this survey? (Y/N)	No
Customer Representative	Enter the Customer representative name	
HSE	Was our HSE performance satisfactory? Circle Y or N	
Equipment	Were you satisfied with our Equipment? Circle Y or N	
Personnel	Were you satisfied with our people? Circle Y or N	
Customer Comment	Customer's Comment	

CUSTOMER SIGNATURE

Sales Order #: 900299202	Line Item: 10	Survey Conducted Date: 3/19/2013
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Customer Representative:		API / UWI: (leave blank if unknown) 05-045-11962
Well Name: Cascade Creek		Well Number: 797-05-55D
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	3/19/2013
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)	3
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)	1.5
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	None
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	6
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)	No

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Well Name: Cascade Creek		Well Number: 797-05-55D
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.	
Was this a Plug or a Squeeze Job? Please select the appropriate choice	No
Was this a Primary or a Remedial Job? Kick off plug, Plug to Abadon, LCM plug or Planed Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
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	90
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	90
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