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**OXY GRAND JUNCTION EBUSINESS**

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**CC 697-16-15A  
PARACHUTE  
Garfield County , Colorado**

**Miscellaneous Pumping Service**  
22-Nov-2011

**Job Site Documents**

*The Road to Excellence Starts with Safety*

Sold To #: 344034		Ship To #: 2578468		Quote #:		Sales Order #: 9087560	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: DECKER, MIKE			
Well Name: CC			Well #: 697-16-15A			API/UWI #:	
Field: PARACHUTE		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Contractor: WORKOVER			Rig/Platform Name/Num: WORK OVER				
Job Purpose: Miscellaneous Pumping Service							
Well Type: Development Well				Job Type: Miscellaneous Pumping Service			
Sales Person: HIMES, JEFFREY			Srcv Supervisor: ROSS, CHARLES		MBU ID Emp #: 453128		

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BATH, KYLE Thomas	2	477632	BECK, MICHAEL George	2	489151	KUKUS, CARLTON Dean	2	458577
MILLER, KEVIN Paul	2	443040	ROSS, CHARLES Raymond	2	453128			

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744648C	mile	10998508	mile	11259881	mile	11583915	mile

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
NOV 22, 2011	2	1						
<b>TOTAL</b>	<i>Total is the sum of each column separately</i>							

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
					22 - Nov - 2011	07:00	MST
<b>Form Type</b>			BHST	<b>On Location</b>	22 - Nov - 2011	07:00	MST
<b>Job depth MD</b>	6750. ft		<b>Job Depth TVD</b>	6750. ft	<b>Job Started</b>	22 - Nov - 2011	08:34
<b>Water Depth</b>			<b>Wk Ht Above Floor</b>	7. ft	<b>Job Completed</b>	22 - Nov - 2011	08:59
<b>Perforation Depth (MD)</b>	<b>From</b>		<b>To</b>		<b>Departed Loc</b>	22 - Nov - 2011	09:00
							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
4 1/2" PRODUCTION CASING	Unknown		4.5	4.	11.6			.	6800.		
2 3/8" TUBING	Unknown		2.375	1.995	4.7			.	6500.		

**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**

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
<b>Calculated Values</b>			<b>Pressures</b>			<b>Volumes</b>			

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	2
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			2
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		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 2578468	<b>Quote #:</b>	<b>Sales Order #:</b> 9087560
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> DECKER, MIKE	
<b>Well Name:</b> CC		<b>Well #:</b> 697-16-15A	<b>API/UWI #:</b>
<b>Field:</b> PARACHUTE	<b>City (SAP):</b> PARACHUTE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> WORKOVER		<b>Rig/Platform Name/Num:</b> WORK OVER	
<b>Job Purpose:</b> Miscellaneous Pumping Service			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Miscellaneous Pumping Service	
<b>Sales Person:</b> HIMES, JEFFREY		<b>Srvc Supervisor:</b> ROSS, CHARLES	<b>MBU ID Emp #:</b> 453128

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/22/2011 07:00							ON LOCATION ALREADY
Assessment Of Location Safety Meeting	11/22/2011 07:30							WITH ALL HES EE'S
Pre-Rig Up Safety Meeting	11/22/2011 08:00							WITH ALL HES EE'S
Rig-Up Equipment	11/22/2011 08:15							1-F550 PICKUP, 1-ELITE PUMP TRUCK, 1-HARD LINE TO RIG, 1-HARD LINE TO CASING BACKSIDE, AND WASH UP OUT TO THE PIT FROM SQUEEZE MANIFOLD.
Pre-Job Safety Meeting	11/22/2011 08:25							WITH ALL HES EE'S AND RIG CREW
Start Job	11/22/2011 08:34							CIBP 6800, MW# 8.4, RETAINER @ 6500, PERFS @ 6750, PRODUCTION CASING , 4 1/2" 11.6#
Pump Water	11/22/2011 08:34							FILL LINES, FRESH WATER
Test Lines	11/22/2011 08:44							TEST TO 5000 PSI
End Job	11/22/2011 08:59							COULD NOT GET INJECTION RATE. SHUT DOWN AND END JOB. DID NOT USE ROTARY SUB, NOR ANY SUGAR.
Post-Job Safety Meeting (Pre Rig-Down)	11/22/2011 09:00							
Rig-Down Equipment	11/22/2011 09:00							
Arrive at Location from Service Center	11/22/2011 09:00							

Sold To # : 7.2.27

Ship To # :

Quote # :

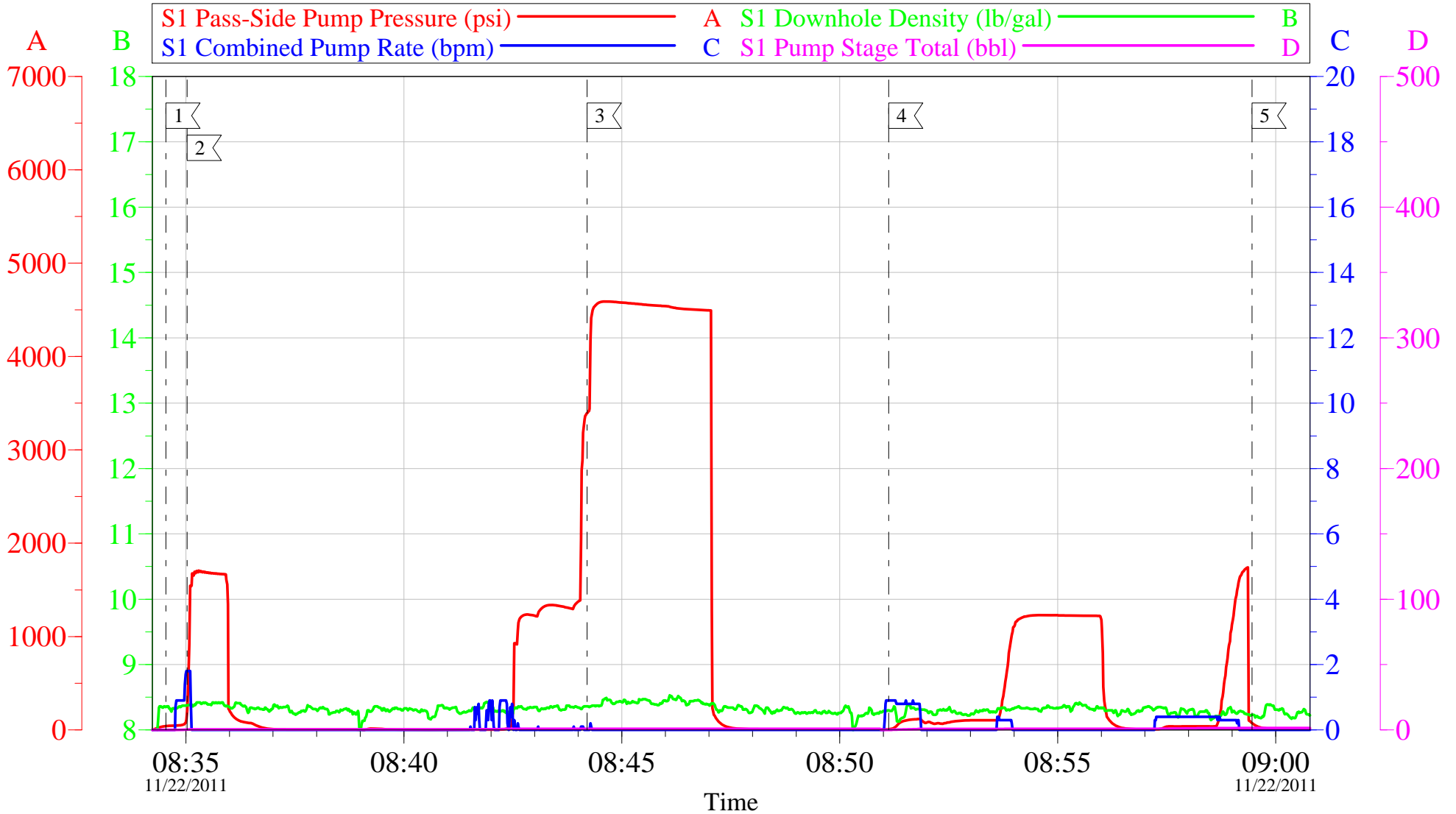
Sales Order # :

SUMMIT Version:

Wednesday, November 23, 2011 06:20:00

# Oxy- CC 697-16-15A

Squeeze

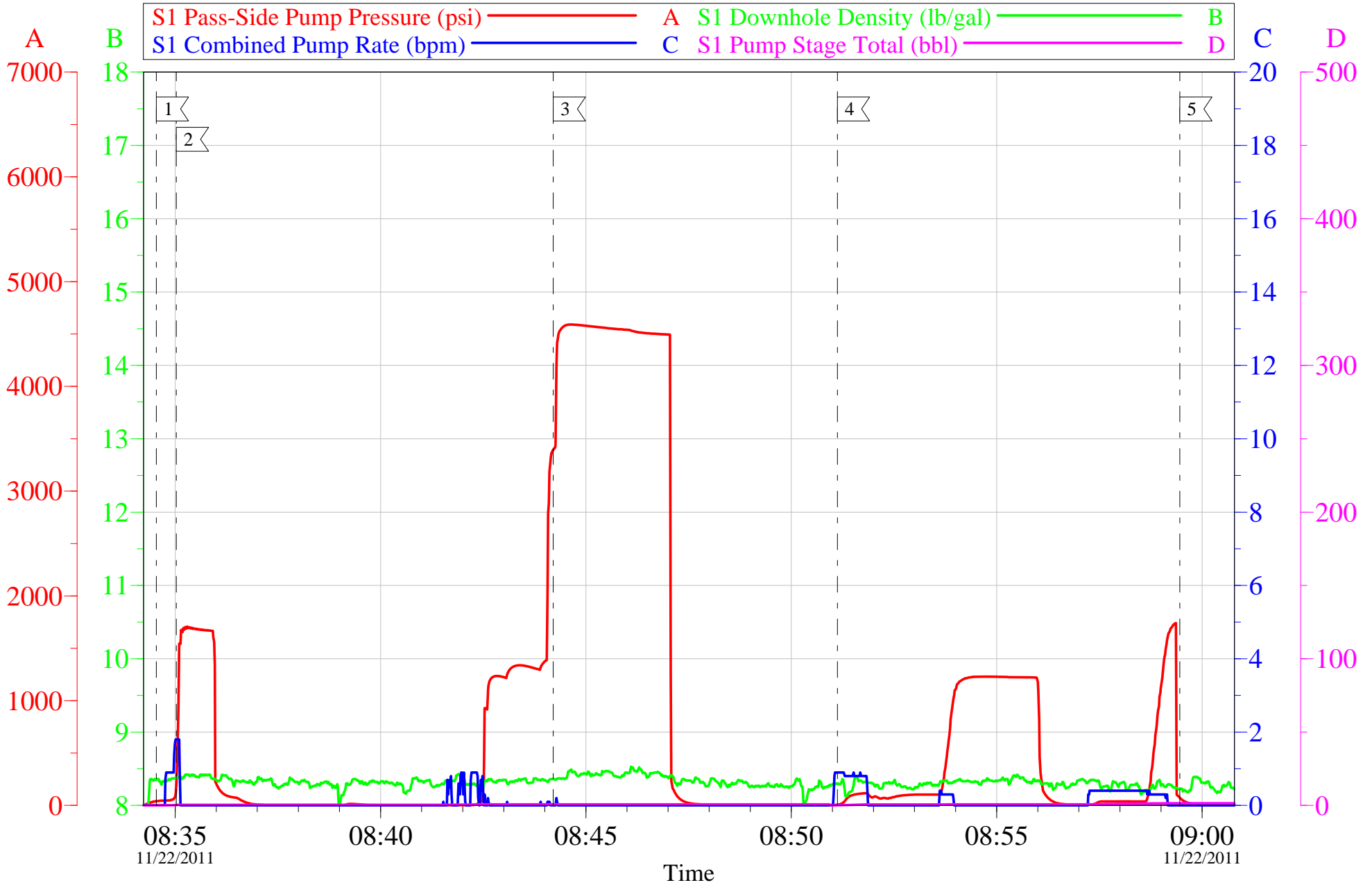


Local Event Log								
1	START JOB	08:34:32	2	FILL LINES	08:35:02	3	PRSSURE TEST	08:44:12
4	INJECTION TEST	08:51:07	5	END JOB	08:59:27			

Customer: Oxy	Job Date: 22-Nov-2011	Sales Order #: 9065936
Well Description: CC 697-16-15A	Job Type: Squeeze	ADC Used: YES
Company Rep: Mike Decker	Cement Supervisor: Chuck Ross	Operator: Kyle Bath

# Oxy- CC 697-16-15A

Squeeze



Customer: Oxy	Job Date: 22-Nov-2011	Sales Order #: 9065936
Well Description: CC 697-16-15A	Job Type: Squeeze	ADC Used: YES
Company Rep: Mike Decker	Cement Supervisor: Chuck Ross	Operator: Kyle Bath

# HALLIBURTON

## Water Analysis Report

Company: OXY

Date: 11/22/2011

Submitted by: CHUCK ROSS

Date Rec.: 11/22/2011

Attention: JON TROUT

S.O.# 9087560

Lease CASCADE CREEK

Job Type: SQUEEZE

Well # 697-16-15A

Specific Gravity	<i>MAX</i>	<b>1</b>
pH	<i>8</i>	<b>7</b>
Potassium (K)	<i>5000</i>	<b>250</b> Mg / L
Calcium (Ca)	<i>500</i>	<b>120</b> Mg / L
Iron (FE2)	<i>300</i>	<b>10</b> Mg / L
Chlorides (Cl)	<i>3000</i>	<b>0</b> Mg / L
Sulfates (SO <sub>4</sub> )	<i>1500</i>	<b>&lt;200</b> Mg / L
Chlorine (Cl <sub>2</sub> )		<b>120</b> Mg / L
Temp	<i>40-80</i>	<b>71</b> Deg
Total Dissolved Solids		<b>720</b> Mg / L

Respectfully: CHUCK ROSS

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

<b>Sales Order #:</b> 9087560	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 11/22/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT MISCELLANEOUS PUMPING BOM
<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> AFEY0TO02ZJNW50AAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-16-15A
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<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	11/22/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHARLES ROSS (HB20648)
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	

<b>CUSTOMER SIGNATURE</b>
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b>	11/22/2011
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>	Deviated
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>	0.75
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>	0.5
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>	4
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>	No

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<b>Customer Representative:</b>		<b>API / UWI: (leave blank if unknown)</b> AFEY0TO02ZJNW50AAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-16-15A
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Was this a Plug or a Squeeze Job?</b> Please select the appropriate choice	No
<b>Was this a Primary or a Remedial Job?</b> Kick off plug, Plug to Abandon, LCM plug or Planned Liner Top Squeeze, Squeeze of existing perforations, Squeeze of casing leak	No
<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	100
<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	100
<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