
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-37A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
03-May-2011**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 39.535083		Quote #:		Sales Order #: 8134934	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Silva, Marco			
Well Name: CC			Well #: 697-09-37A			API/UWI #:	
Field: GARND VAILLEY		City (SAP): Parachute		County/Parish: Garfield		State: Colorado	
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.299 secs.				Long: W 108.222 deg. OR W -109 deg. 46 min. 39.961 secs.			
Contractor: H&P 330			Rig/Platform Name/Num: H&P 330				
Job Purpose: Cement Surface Casing							
Well Type: Development Well				Job Type: Cement Surface Casing			
Sales Person: DUNNING, DUSTIN				Srvc Supervisor: CHASTAIN, DERICK		MBU ID Emp #: 455848	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BECK, MICHAEL George	9	489151	CHASTAIN, DERICK Allan	9	455848	JENKINS, DEMON Lashaun	9	457892
MUHLESTEIN, RYAN Herrick	9	453609						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10551730C	240 mile	10713294	240 mile	10856450	240 mile	10951244	240 mile
10973571	240 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/3/11	9	8						

TOTAL	Total is the sum of each column separately							
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Job

Job Times

Formation Name							Date	Time	Time Zone
Formation Depth (MD)	Top			Bottom		Called Out	02 - May - 2011	23:00	MST
Form Type				BHST		On Location	03 - May - 2011	04:00	MST
Job depth MD	2710. ft			Job Depth TVD	2710. ft	Job Started	03 - May - 2011	06:55	MST
Water Depth				Wk Ht Above Floor	4. ft	Job Completed	03 - May - 2011	10:34	MST
Perforation Depth (MD)	From			To		Departed Loc	03 - May - 2011	13:00	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
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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
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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)	970.0	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	205	Shut In: Instant		Lost Returns	0	Cement Slurry	498	Pad	
Top Of Cement	SURF	5 Min		Cement Returns	80	Actual Displacement	205	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	764
Rates									
Circulating	5	Mixing	6	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	54 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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Well Name: CC	Well #: 697-09-37A	API/UWI #:	
Field: GARND VAILLEY	City (SAP): Parachute	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.299 secs.		Long: W 108.222 deg. OR W -109 deg. 46 min. 39.961 secs.	
Contractor: H&P 330		Rig/Platform Name/Num: H&P 330	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DUNNING, DUSTIN		Srvc Supervisor: CHASTAIN, DERICK	MBU ID Emp #: 455848

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/02/2011 23:00							
Pre-Convoy Safety Meeting	05/03/2011 01:00							ALL HES EE'S
Arrive At Loc	05/03/2011 04:00							RIG STILL RUNNING
Pre-Rig Up Safety Meeting	05/03/2011 04:15							ALL HES EE'S
Rig-Up Equipment	05/03/2011 04:30							1 HT 400 PUMP, 2 BULK STORAGE BINS, 1 F-450 PICK-UP, 1 PLUG CONTAINER
Pre-Job Safety Meeting	05/03/2011 06:30							ALL HES EE'S, RIG CREW AND CO REP
Start Job	05/03/2011 06:55							TD-2726' TP-2710' SJ-54' CASING 9 5/8" 36# J-55 HOLE 14 3/4", MUD 9.3 PPG
Pump Water	05/03/2011 06:56		2	3			84.0	FRESH H2O TO FILL LINES
Test Lines	05/03/2011 06:57							HELD PSI FOR 2 MIN, NO LEAKS
Pump Spacer 1	05/03/2011 07:03		4	20			140.0	FRESH H2O
Pump Spacer 2	05/03/2011 07:08		4	20			140.0	LGC GEL SPACER 2.5 GAL PER 10 BBLS
Pump Spacer 1	05/03/2011 07:13		6	20			200.0	FRESH H2O
Pump Lead Cement	05/03/2011 07:17		6	435.3			325.0	970 SKS 12.3 PPG 2.33 FT3/SK 12.62 GAL/SK, NO TUFF FIBER
Pump Tail Cement	05/03/2011 08:17		5	62.8			250.0	170 SKS 12.8 PPG 2.07 FT3/SK 10.67 GAL/SK
Shutdown	05/03/2011 08:28							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	05/03/2011 08:29							VERIFY PLUG LAUNCHED
Pump Displacement	05/03/2011 08:30		5	205.3			918.0	FRESH H2O DISPLACEMENT, PUMPING RATES PER CO REP. GOOD RETURNS, 80 BBLS CEMENT TO SURFACE
Slow Rate	05/03/2011 09:07		2	195			809.0	
Bump Plug	05/03/2011 09:12		2	205.3			1355.0	PLUG BUMPED AT 860 PSI
Check Floats	05/03/2011 09:19							FLOATS HELD, 1 BBL BACK TO PUMP TRUCK
Pump Water	05/03/2011 09:41		1.5	10				PUMP SUGAR WATER THRU PARASITE LINE, CIRCULATED AT 290 PSI, FLOW NOTED AT SURFACE 6.4 BBLS AWAY
Other	05/03/2011 09:46							CLEAR PARASITE
Pressure Test	05/03/2011 10:00						1575.0	PRESSURE TEST CASING PER CO REP REQUEST, HELD PRESSURE 15 MINS
Release Casing Pressure	05/03/2011 10:32							
End Job	05/03/2011 10:34							GOOD RETURNS THROUGHT JOB, RIG CIRCULATE 30 PRIOR TO CMT, 20 LBS SUGAR USED, NO ADD HRS

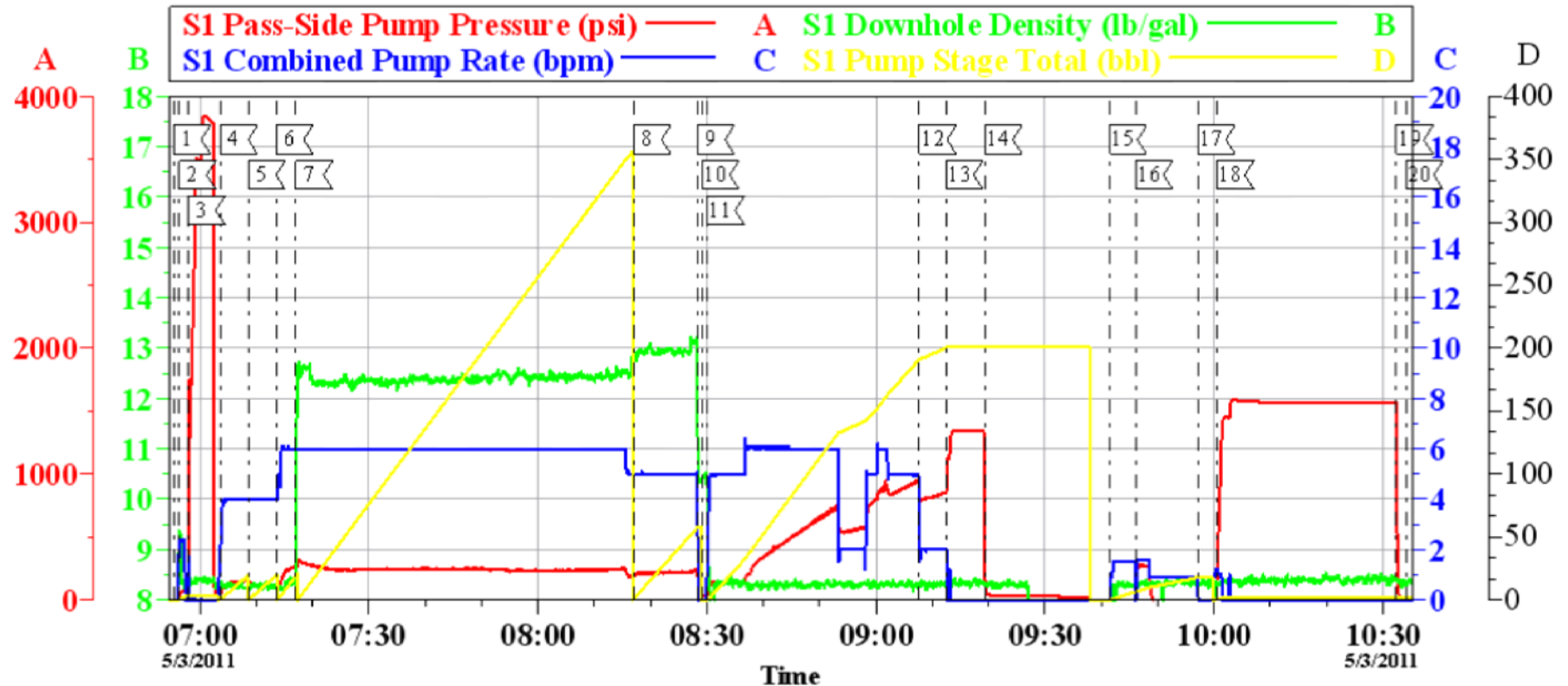
HP 330

Pre-Planned Job Procedure Single Stage

EVENT	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		Density Over Rate			
	Fill Lines	2				
6	Test Lines	3000				
9	H2O Spacer	20		8.4		
10	GEL SPACER	20		8.4		
9	H2O Spacer	20		8.4		
13	Lead Cement	435.7	1050	12.3	2.33	12.62
15	Tail Cement	62.7	170	12.8	2.07	10.67
	Drop Plug					
22	Displacement	205.3		Mud Wt.	9.2	
1085	Slow Rate	195		Casing	9.625	36
26	Bump Plug	545		Disp Fluid	8.4	
	Check Floats	+ 500 PSI				
2	End Job					
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH	ANN FACTOR	BBL/FT	H2O REQ.	
205.3	2710	54.00	0.1214	0.0773	674	
PSI to Lift Pipe	1152	*****Use Mud Scales on Each Tier*****				
Total Displacement	205.31					
CALCULATED DIFFERENTIAL PSI		545	TOTAL FLUID PUMPED		764	
HOT	482	TOT	2228	Co. Rep.: MARCO SILVA		
HOL	3589	TOL	0		SO#	8134934

OXY

CC 697-09-37A 9.625 SURFACE CASING



Local Event Log

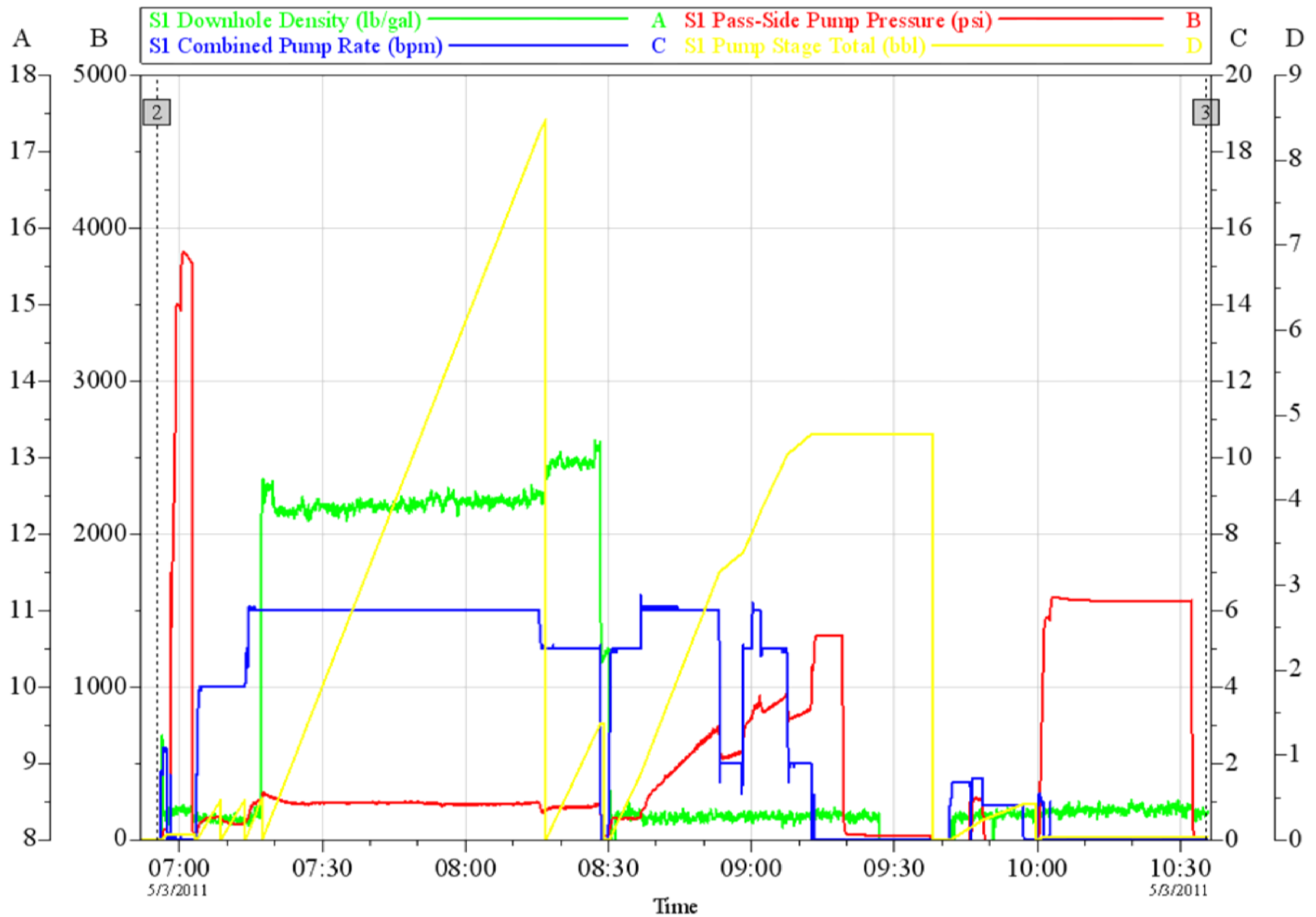
1 START JOB	06:55:18	2 FILL LINES	06:56:18	3 TEST LINES	06:57:52
4 PUMP H2O SPACER	07:03:37	5 PUMP GEL SPACER	07:08:33	6 PUMP H2O SPACER	07:13:30
7 PUMP LEAD CEMENT	07:17:03	8 PUMP TAIL CEMENT	08:17:01	9 SHUTDOWN	08:28:18
10 DROP PLUG	08:29:05	11 PUMP DISPLACEMENT	08:30:04	12 SLOW RATE	09:07:39
13 BUMP PLUG	09:12:24	14 CHECK FLOATS	09:19:20	15 PUMP ON PARASITE	09:41:29
16 CLEAR PARASITE	09:46:03	17 SHUT DOWN	09:57:08	18 PSI TEST CASING	10:00:30
19 RELEASE PSI	10:32:19	20 END JOB	10:34:01		

Customer: OXY
Well Description: CC 697-09-37A
Customer Rep: MARCO SILVA

Job Date: 03-May-2011
Job type: SURFACE
Service Supervisor: DERICK CHASTAIN

Sales Order #: 8134934
ADC Used: Y
Operator/Pump: RYAN MUHLESTEIN

OptiCem v6.4.6
03-May-11 10:40



Customer:
Well Description:

Job Date: 03-May-2011
UWI:

Sales Order #: 8134934

OptiCem v6.4.10
10-May-11 11:59

Sales Order #: 8134934	Line Item: 10	Survey Conducted Date: 5/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MARCO SILVA		API / UWI: (leave blank if unknown) AFEYK2MRCVJ3NERFAAA
Well Name: CC		Well Number: 697-09-37A
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	5/3/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	RYAN MUHLESTEIN (HB21105)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MARCO SILVA
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 WENT WELL
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 #: 8134934	Line Item: 10	Survey Conducted Date: 5/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MARCO SILVA		API / UWI: (leave blank if unknown) AFEYK2MRCVJ3NERFAAA
Well Name: CC		Well Number: 697-09-37A
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	5/3/2011

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.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	8
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.	4
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	6
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 #: 8134934	Line Item: 10	Survey Conducted Date: 5/3/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: MARCO SILVA		API / UWI: (leave blank if unknown) AFEYK2MRCVJ3NERFAAA
Well Name: CC		Well Number: 697-09-37A
Well Type: Development Well	Well Country: United States of America	
H2S Present: No	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	98
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