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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-09-29B  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
30-Apr-2011**

**Post Job Summary**

## The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 344034	Quote #:	Sales Order #: 8135803
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Silva, Marco		
Well Name: CC	Well #: 697-09-29B	API/UWI #:	
Field: GRAND VALLEY	City (SAP): ADDISON	County/Parish: Garfield	State: Colorado
Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.331 secs.	Long: W 108.222 deg. OR W -109 deg. 46 min. 39.878 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	Srv Supervisor: PHILLIPS, MARK	MBU ID Emp #:	445272

## Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	16	436099	BECK, MICHAEL George	16	489151	JENSEN, JESSE Robert	16	478774
PHILLIPS, MARK Bejar	16	445272						

## Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

## Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
04-30-2011	16	6						

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	29 - Apr - 2011		22:00		MST
Form Type				BHST				On Location	29 - Apr - 2011		07:00		MST
Job depth MD		2718. ft		Job Depth TVD		2718. ft		Job Started	30 - Apr - 2011		15:46		MST
Water Depth				Wk Ht Above Floor		4. ft		Job Completed	30 - Apr - 2011		21:05		MST
Perforation Depth (MD)		From		To				Departed Loc	30 - Apr - 2011		23:45		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	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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		

Stage/Plug #: 1									
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
1	Water Spacer		20.00	bbl	8.33	.0	.0	4.0	
2	Gel Spacer		20.00	bbl	8.8	.0	.0	6.5	
3	Water Spacer		20.00	bbl	8.33	.0	.0	6.5	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	848	sacks	12.3	2.33	12.62	7.0	12.62
		12.62 Gal	FRESH WATER						
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67	6.0	10.67
		10.67 Gal	FRESH WATER						
6	Displacement		206.6	bbl	8.33	.0	.0	4.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)		sacks	12.5	1.97	10.96	1.0	10.96
		10.96 Gal	FRESH WATER						
Calculated Values		Pressures		Volumes					
Displacement	206.6	Shut In: Instant		Lost Returns	0	Cement Slurry	411	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	74	Actual Displacement	206.6	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	738
Rates									
Circulating	4.5	Mixing	6	Displacement	4	Avg. Job	5		
Cement Left In Pipe	Amount	29.02 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*

<b>Sold To #:</b> 344034	<b>Ship To #:</b> 344034	<b>Quote #:</b>	<b>Sales Order #:</b> 8135803
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Customer Rep:</b> Silva, Marco	
<b>Well Name:</b> CC	<b>Well #:</b> 697-09-29B	<b>API/UWI #:</b>	
<b>Field:</b> GRAND VALLEY	<b>City (SAP):</b> ADDISON	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 39.535 deg. OR N 39 deg. 32 min. 6.331 secs.		<b>Long:</b> W 108.222 deg. OR W -109 deg. 46 min. 39.878 secs.	
<b>Contractor:</b> H&P 330		<b>Rig/Platform Name/Num:</b> H&P 330	
<b>Job Purpose:</b> Cement Surface Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> DUNNING, DUSTIN		<b>Srv Supervisor:</b> PHILLIPS, MARK	<b>MBU ID Emp #:</b> 445272

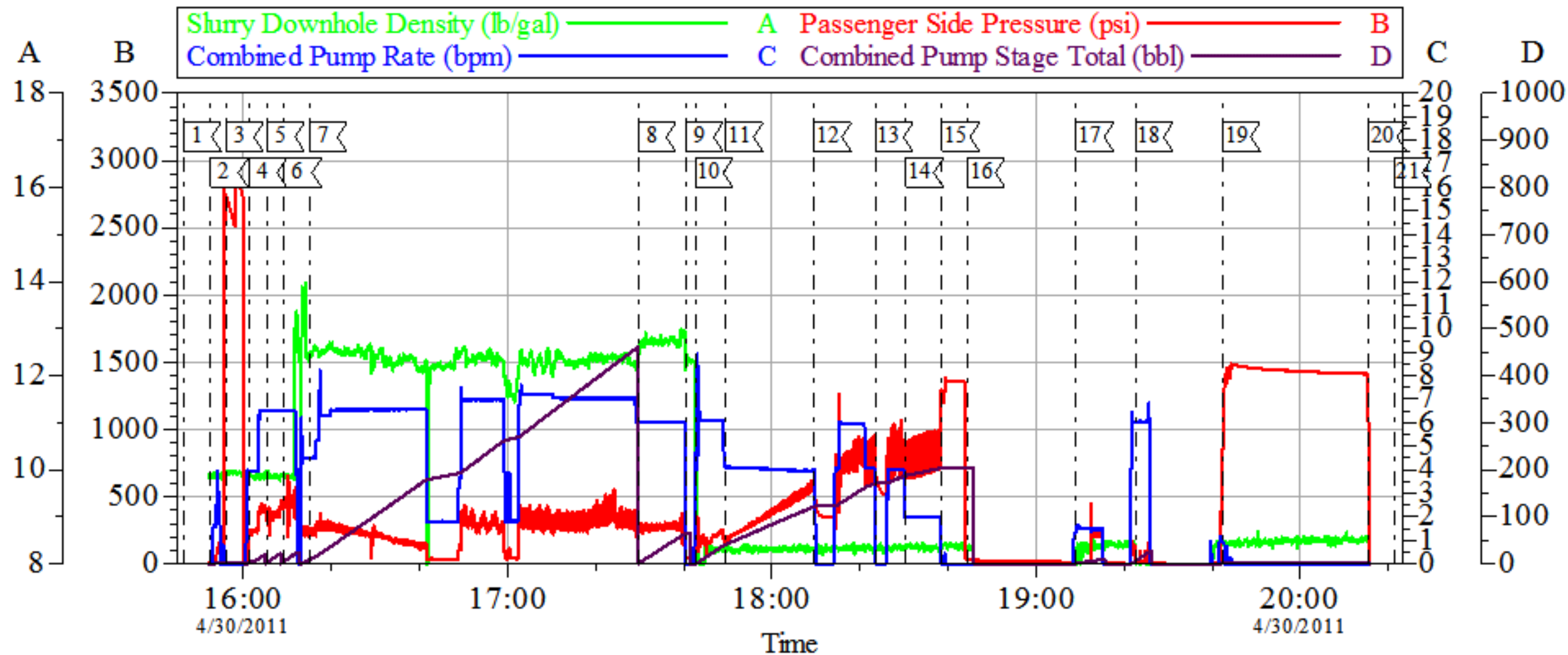
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	04/29/2011 01:00							ALL HES EMPLOYEES
Call Out	04/29/2011 22:00							
Arrive At Loc	04/30/2011 07:00							RIG STILL RUNNING CASING
Assessment Of Location Safety Meeting	04/30/2011 07:10							ALL HES EMPLOYEES
Rig-Up Equipment	04/30/2011 07:15							1 HT 400 PUMP TRUCK, 2 FIELD BINS, 1 9.625" QUICK LATCH PLUG CONTAINER, 1 F 450 P/U.
Pre-Job Safety Meeting	04/30/2011 15:00							ALL HES EMPLOYEES, RIG CREW, CO REP.
Start Job	04/30/2011 15:46							TD 2718', TP 2702', FC 2672.98', HOLE 14.75", MUD WT 8.7 PPG, 800 BBLS OF H2O ON LOCATION, WATER SAMPLE SUBMITTED.CONDUCT OR SET AT 100' AND IS 16", CSG 36# J 55, 9.625", SJ 29.02'.
Pump Water	04/30/2011 15:52		2	4			80.0	FILL LINES
Pressure Test	04/30/2011 15:56		0.5				3000.0	NO LEAKS
Pump Spacer 1	04/30/2011 16:01		4	20			210.0	FRESH WATER
Pump Spacer 2	04/30/2011 16:05		6.5	20			380.0	GELLED WATER
Pump Spacer 1	04/30/2011 16:09		6.5	20			450.0	FRESH WATER

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	04/30/2011 16:15		7	349			300.0	840 SKS VERSACEM CMT MIXED AT 12.3 PPG, 2.33 YIELD, 12.62 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED. PER CO REP WILL DECREASE EXCESS FROM 50% TO 30%. REMAINING CMT TO BE USED FOR TOP OUT JOB. PARTIAL RETURNS.
Pump Tail Cement	04/30/2011 17:29		6	62.7			300.0	170 SKS VERSACEM CMT MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GAL/SK, CMT WEIGHED VIA PRESSURE BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED. PARTIAL RETURNS
Shutdown	04/30/2011 17:39							FOR NO MORE THEN 5 MINUTES,
Drop Plug	04/30/2011 17:40							PLUG LAUNCH
Pump Displacement	04/30/2011 17:42		6	206.6			200.0	FRESH WATER, HES PER CO REP STAGED CEMENT TWO TIMES FOR FIVE MINUTES DURING DISPLACEMENT. GOOD RETURNS T/O DISPLACEMENT.
Slow Rate	04/30/2011 17:49		4	40			800.0	FROM 6 BPM TO 4 BPM AT 40 BBLS AWAY PER CO REP
Cement Returns to Surface	04/30/2011 18:18		4	132			560.0	74 BBLS OF CEMENT RETURNED TO SURFACE

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Bump Plug	04/30/2011 18:38		2	206.6			1300. 0	SLOW RATE FROM 4 BPM TO 2 BPM 20 BBLs PRIOR TO CALCULATED DISPLACEMENT
Check Floats	04/30/2011 18:44							FLOATS HOLDING
Other	04/30/2011 19:09		1.5	10			300.0	PUMP DOWN PARASITE STRING POST CHECKING FLOATS.
Pressure Test	04/30/2011 19:42		1				1500. 0	CASING TEST 1500 PSI, PRESSURE TEST LEAKED OFF 60 PSI OVER 30 MINUTES.
Monitor Pressure	04/30/2011 19:43						1446. 0	CASING TEST PSI MONITORED FOR 30 MINUTES.
End Job	04/30/2011 20:21							THANK YOU FOR USING HES FROM MARK PHILLIPS AND CREW.
Other	04/30/2011 20:40		2	14			30.0	PUMP TOTAL 4 TOP OUT JOBS. TOTAL BBLs PUMPED 14 BBLs, CEMENT HELD ON ALL THREE WELLS.
End Job	04/30/2011 21:05							
Post-Job Safety Meeting (Pre Rig-Down)	04/30/2011 22:30							ALL HES EMPLOYEES
Rig-Down Equipment	04/30/2011 22:35							SAFELY
Pre-Convoy Safety Meeting	04/30/2011 23:45							ALL HES EMPLOYEES
Crew Leave Location	04/30/2011 23:55							SITE WAS AS CLEAN AS WHEN WE ARRIVED

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job		0 <u>Max Psi</u>			
6	Test Lines	3000 PSI				
9	H2O Spacer	20.0				
10	GELLED WATER	20.0				
9	H2O Spacer	20.0				
13	50% EX Lead Cement	435.7	1050	12.3	2.33	12.62
13	30% EX LEAD Cement	349.0	840	12.8	2.33	10.67
15	Tail Cement	62.7	170	12.8	2.07	10.67
	SHUT DOWN	0.0				
22	Drop Plug	0.0				
	SLOW RATE	196.0		2 BPM		
23	Displace with H2O	206.6				
26	Land Plug	586 PSI	<u>500 PSI Over</u>			
2	Release Psi / Job Over	0.0				
			Do Not Overdisplace			
DISPLACEMENT	TOTAL PIPE	SHOE JOINT LENGTH		FLOAT COLLAR	BBL/FT	H2O REQ.
206.62	2702	29.02		2672.98	0.0773	680
PSI to Lift Pipe	1160	<u>*****Use Mud Scales on Each Tier*****</u>				
Total Displacement	206.62					
CALCULATED DIFFERENTIAL PSI		586		TOTAL FLUID PUMPED		765
Collapse		Burst			SO#	8135803

# OXY PETROLEUM CC 607-09-29B SURFACE



## Local Event Log

1	START JOB	15:46:26	2	FILL LINES	15:52:28	3	PRESSURE TEST	15:56:03
4	H2O SPACER	16:01:16	5	GELLED WATER	16:05:22	6	H2O SPACER	16:09:13
7	LEAD CEMENT	16:15:00	8	TAIL CEMENT	17:29:42	9	SHUT DOWN/DROP PLUG	17:40:25
10	START DISPLACEMENT	17:42:38	11	SLOW RATE	17:49:30	12	STAGE CEMENT	18:09:33
13	STAGE CEMENT	18:23:32	14	SLOW RATE	18:30:24	15	BUMP PLUG	18:38:38
16	CHECK FLOATS	18:44:25	17	PUMP DOWN PARASITE	19:09:08	18	WASH PUMP & LINES	19:22:36
19	CASING TEST	19:42:24	20	RELEASE PSI	20:15:37	21	END JOB	20:21:22

Customer: OXY  
Well Description: CC 697-09-29B  
CO REP: MARCO SILVA

Job Date: 30-Apr-2011  
JOB TYPE: SURFACE  
SUPERVISOR: MARK PHILLIPS

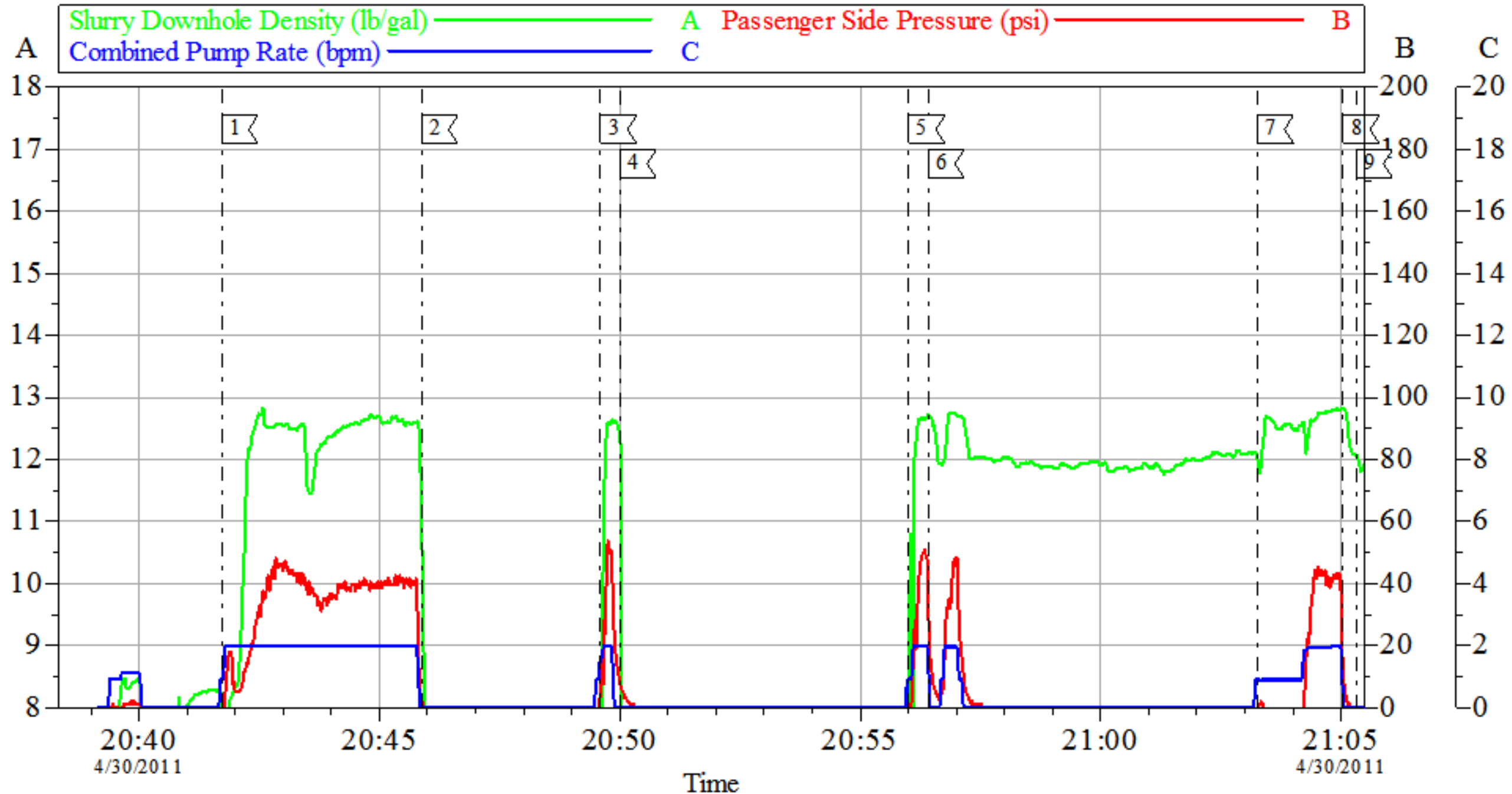
Sales Order #: 8135803  
ADC USED: YES  
ELITE#2: TROY ANGLESTEIN

OptiCem v6.4.5  
30-Apr-11 22:03



# OXY PETROLEUM

## CC 697-09-29B TOP OUT JOBS



Local Event Log			
1	TOP OUT # 1	20:41:43	2
2	SHUT DOWN	20:45:53	3
3	TOP OUT # 2	20:49:36	4
4	SHUT DOWN	20:50:00	5
5	TOP OUT # 3	20:56:01	6
6	SHUT DOWN	20:56:25	7
7	TOP OUT # 4	21:03:16	8
8	SHUT DOWN	21:05:03	9
9	END JOB	21:05:20	

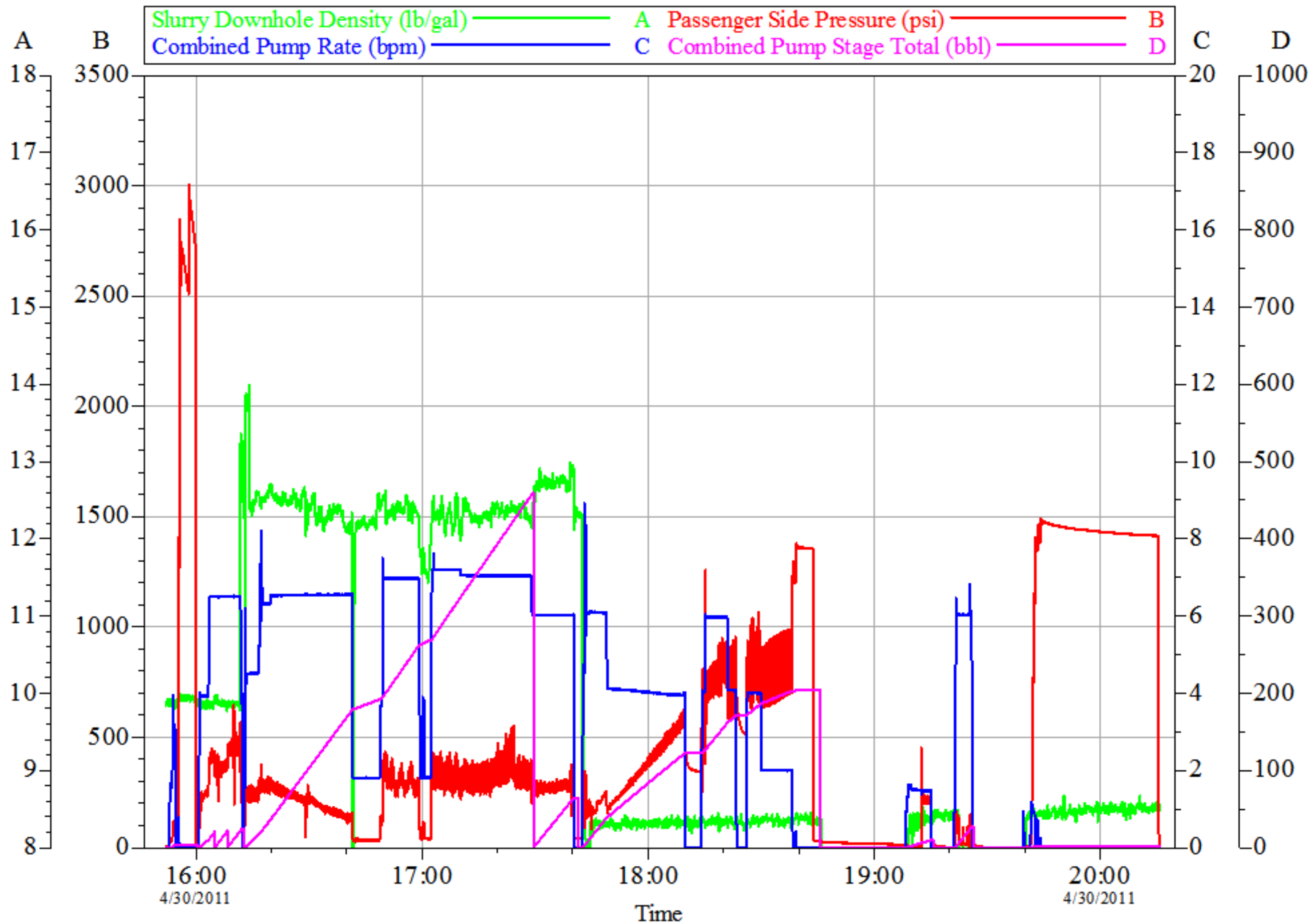
Customer: Halliburton  
Well Description: RTD

Job Date: 30-Apr-2011  
UWI:

Sales Order #: 20:39:09

OptiCem v6.4.5  
30-Apr-11 22:19

# OXY



<b>Sales Order #:</b> 8135803	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/30/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CLARK, JAMES		<b>API / UWI: (leave blank if unknown)</b> AFEY0QTTDUJZVM3FAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-09-29B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<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	4/30/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	MARK PHILLIPS (HB13261)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	CLARK, JAMES
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.	

<b>CUSTOMER SIGNATURE</b>
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<b>Sales Order #:</b> 8135803	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 4/30/2011
<b>Customer:</b> OXY GRAND JUNCTION EBUSINESS		<b>Job Type (BOM):</b> CMT SURFACE CASING BOM
<b>Customer Representative:</b> CLARK, JAMES		<b>API / UWI: (leave blank if unknown)</b> AFEY0QTTDUJZVM3FAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-09-29B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	4/30/2011

Cementing KPI Survey	
<b>Type of Job</b> Select the type of job. (Cementing or Non-Cementing)	0
<b>Select the Maximum Deviation range for this Job</b> What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	Vertical
<b>Total Operating Time (hours)</b> Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	7
<b>HSE Incident, Accident, Injury</b> HSE Incident, Accident, Injury. This should be recordable incidents only.	No
<b>Was the job purpose achieved?</b> Was the job delivered correctly as per customer agreed design?	Yes
<b>Operating Hours (Pumping Hours)</b> Total number of hours pumping fluid on this job. Enter in decimal format.	4
<b>Customer Non-Productive Rig Time (hrs)</b> 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
<b>Type of Rig Classification Job Was Performed</b> Type Of Rig (classification) Job Was Performed On	Drilling Rig (Portable)
<b>Number Of JSAs Performed</b> Number Of Jsas Performed	6
<b>Number of Unplanned Shutdowns</b> Unplanned shutdown is when injection stops for any period of time.	0
<b>Was this a Primary Cement Job (Yes / No)</b>	Yes

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<b>Customer Representative:</b> CLARK, JAMES		<b>API / UWI: (leave blank if unknown)</b> AFEY0QTTDUJZVM3FAAA
<b>Well Name:</b> CC		<b>Well Number:</b> 697-09-29B
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b> No	<b>Well State:</b> Colorado	<b>Well County:</b> Garfield

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
<b>Did We Run Wiper Plugs?</b> Did We Run Top And Bottom Casing Wiper Plugs?	Top
<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	95
<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	95
<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