
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-04B
GRANDVALLEY
Garfield County , Colorado**

**Cement via Annulus
13-Mar-2012**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 344034		Ship To #: 2897790		Quote #:		Sales Order #: 9350351	
Customer: OXY GRAND JUNCTION EBUSINESS				Customer Rep: Benevides, Victor			
Well Name: CC			Well #: 697-09-04B			API/UWI #: 05-045-20710	
Field: GRANDVALLEY		City (SAP): PARACHUTE		County/Parish: Garfield		State: Colorado	
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.536 secs.				Long: W 108.23 deg. OR W -109 deg. 46 min. 11.352 secs.			
Contractor: H&P 330			Rig/Platform Name/Num: H&P 330				
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 #
ARNOLD, EDWARD John	3.5	439784	HYDE, DUSTIN C	3.5	453940	KUKUS, CHRISTOPHER A	3.5	413952
MILLER II, MATTHEW Reginald	3.5	425164	SMITH, DUSTIN Michael	3.5	418015			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10867423	120 mile	10897887	120 mile	11259883	120 mile	11360871	120 mile
11542767	120 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
03/12/2012	1.5	1.5	03/13/2013	2	.5			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Wk Ht Above Floor	Perforation Depth (MD)	From	To	Departed Loc
			BHST	1000. ft	1000. ft		. ft				

Job Times

Date	Time	Time Zone
12 - Mar - 2012	22:30	MST
12 - Mar - 2012	23:07	MST
13 - Mar - 2012	00:02	MST
13 - Mar - 2012	02:00	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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Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
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			
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		5.00	bbl	.	.0	.0	2	
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)	227.0	sacks	12.4	1.92	10.14	2	10.14
	0.3 %	HALAD(R)-23, 50 LB (101209204)							
	0.3 %	VERSASET, 55 LB SK (101376573)							
	0.15 %	WG-17, 50 LB SK (100003623)							
	0.7 %	HR-5, 50 LB SK (100005050)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	10.14 Gal	FRESH WATER							
3	Displacement		0	bbl	.	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry	77.2	Pad	
Top Of Cement		5 Min		Cement Returns	2	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	5	Load and Breakdown		Total Job	82.2
Rates									
Circulating		Mixing	2	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 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Legal Description:			
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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

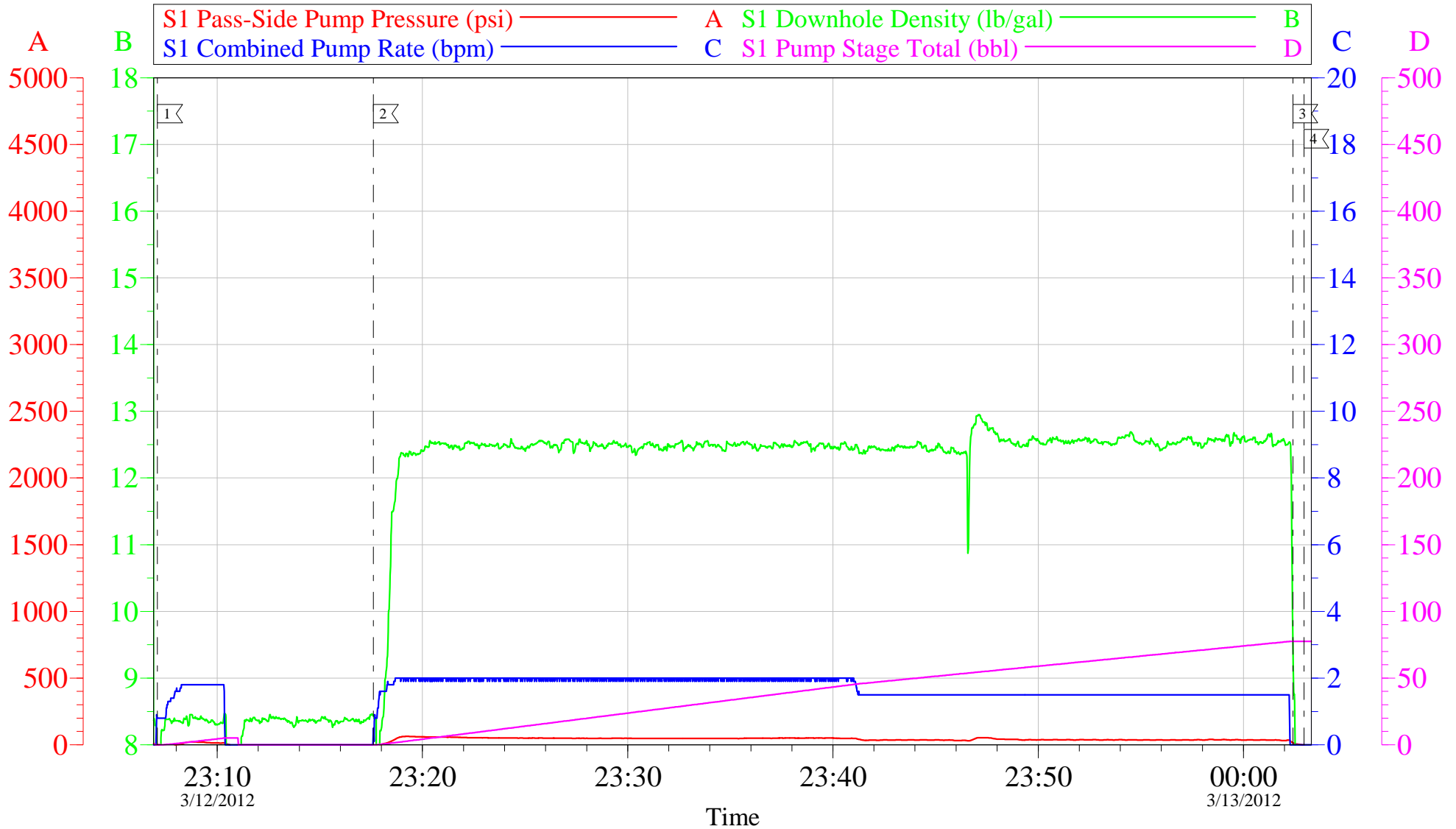
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive At Loc	03/12/2012 22:30							CREW ALREADY ON LOCATION FROM PREVIOUS JOB
Assessment Of Location Safety Meeting	03/12/2012 22:30							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	03/12/2012 22:30							ALL HES EMPLOYEES
Rig-Up Equipment	03/12/2012 22:40							1 F-550 PICKUP 1 HT-400 PUMP TRUCK 1 660 BULK TRUCK
Pre-Job Safety Meeting	03/12/2012 23:00							ALL HES EMPLOYEES AND RIG CREW
Rig-Up Completed	03/12/2012 23:07							
Start Job	03/12/2012 23:07							RECEMENT PRODUCTION FROM 1000 DOWN TO SURFACE THROUGH BACK SIDE
Pump Spacer	03/12/2012 23:07		2	5	5	33.0		FRESH WATER
Pump Lead Cement	03/12/2012 23:17		2	77.2	77.2	67.0		227 SKS 12.4 PPG 1.92 YIELD 10.14 GAL/SK LEAD CEMENT WEIGHT VERIFIED VIA MUD SCALES THROUGHOUT LEAD CEMENT
Shutdown	03/13/2012 00:02							CEMENT RETURNED TO SURFACE 77 BBL INTO LEAD CEMENT SHUT DOWN AND RIG DOWN AND LEAVING BACK SIDE VALVE OPEN

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	03/13/2012 00:02							
Pre-Rig Down Safety Meeting	03/13/2012 00:10							ALL HES EMPLOYEES
Rig-Down Equipment	03/13/2012 00:30							
Pre-Convoy Safety Meeting	03/13/2012 01:45							ALL HES EMPLOYEES
Crew Leave Location	03/13/2012 02:00							THANK YOU FOR USING HALLIBURTON CEMENT CHRIS KUKUS AND CREW

OXY CC 697-09-04B

RECEMENT



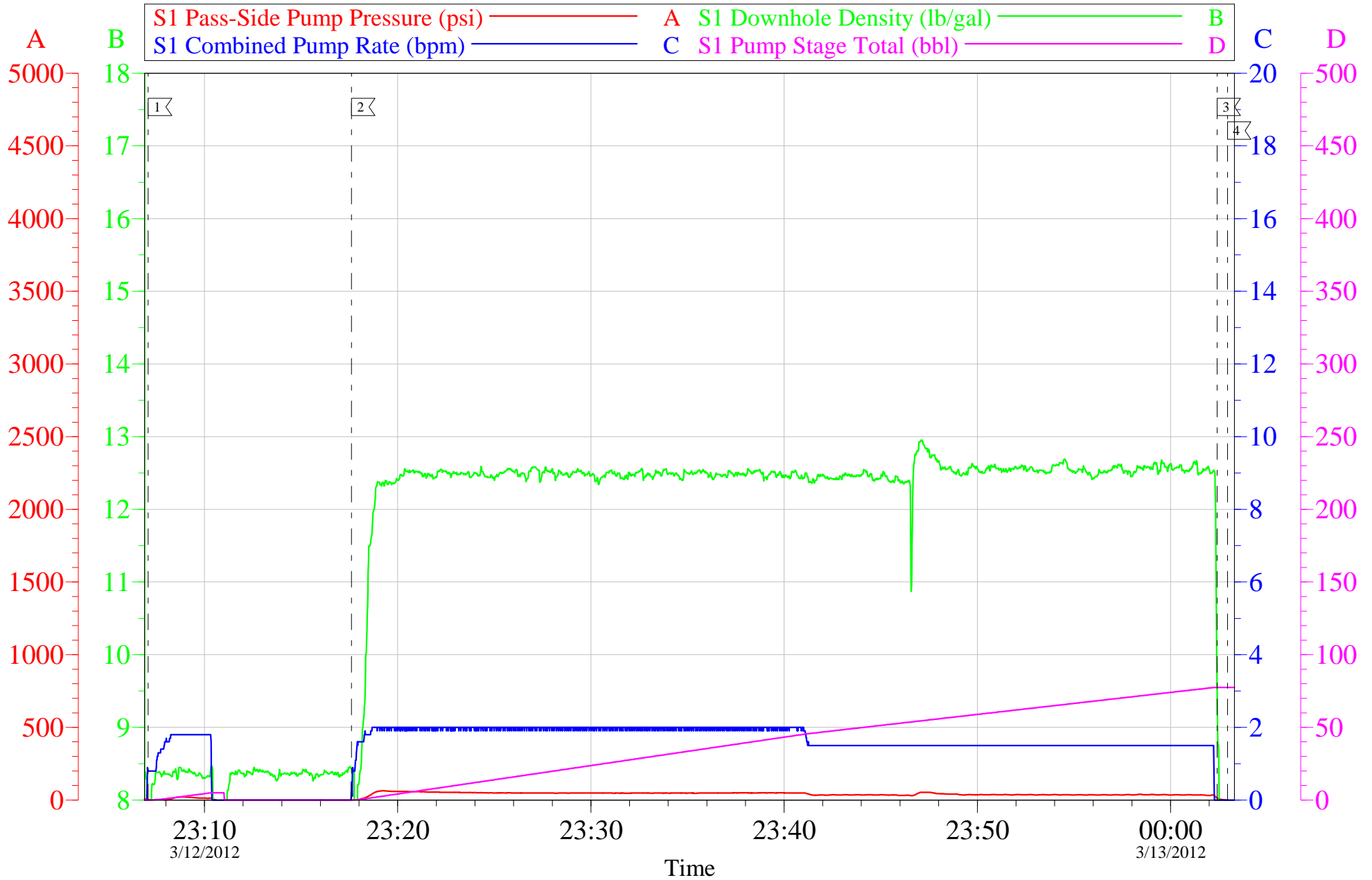
Local Event Log					
1	PUMP H2O SPACER	3/12/2012 23:07:05	2	PUMP LEAD CEMENT	3/12/2012 23:17:37
3	SHUTEOWN	3/13/2012 00:02:24	4	END JOB	3/13/2012 00:02:57

Customer: OXY	Job Date: 12-Mar-2012	Sales Order #: 9350351
Well Description: CC 697-09-04B	Job Type: RECEMENT	ADC Used: YES
Company Rep: VICTOR BENEVIDES	Cement Supervisor: CHRIS KUKUS	Elite #: 1 REGGIE MILLER

OptiCem v6.4.10
13-Mar-12 00:25

OXY CC 697-09-04B

RECEMENT



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OptiCem v6.4.10
13-Mar-12 00:27

HALLIBURTON

Water Analysis Report

Company: OXY

Submitted by: DUSTIN SMITH

Attention: J. TROUT/C.MARTINEZ

Lease CC

Well # 697-09-04B

Date: 3/12/2012

Date Rec.: 3/12/2012

S.O.# 9350351

Job Type: PRODUCTION

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	400 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	0 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	UNDER 200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-90</i>	88 Deg
Total Dissolved Solids		490 Mg / L

Respectfully: DUSTIN SMITH

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 its

Sales Order #: 9350351	Line Item: 10	Survey Conducted Date: 3/13/2012
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT VIA ANNULUS BOM
Customer Representative: RUEBEN RODRIGUEZ		API / UWI: (leave blank if unknown) 05-045-20710
Well Name: CC		Well Number: 697-09-04B
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	3/13/2012
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)	Yes
Customer Representative	Enter the Customer representative name	RUEBEN RODRIGUEZ
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	

CUSTOMER SIGNATURE

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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	3/13/2012

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.	Vertical
Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	2
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.	1
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)	No

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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.	
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 Abandon, LCM plug or Planned 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