HALLIBURTON

OXY GRAND JUNCTION

CC 697-04-76B
GRAND VALLEY
Garfield County , Colorado

Plug Service - Whipstock

19-Feb-2012

Post Job Report

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 344034	**Ship To #:** 344034	**Quote #:**	**Sales Order #:** 9296507
Customer: OXY GRAND JUNCTION EBUSINESS		**Customer Rep:** Benevides, Victor	
Well Name: CC	**Well #:** 697-04-76B		**API/UWI #:** 05-045-20729
Field: GRAND VALLEY	**City (SAP):** UNKNOWN	**County/Parish:** Garfield	**State:** Colorado
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.788 secs.		**Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.568 secs.	
Contractor: OXY	**Rig/Platform Name/Num:** H&P 330		
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well	**Job Type:** Plug Service - Whipstock		
Sales Person: PRUETT, BRADLEY	**Srvc Supervisor:** HUGENTOBLER, LOGAN	**MBU ID Emp #:** 447333	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BROWN, TRAVIS A	11	396848	FINK, JOHN David	11	476032	HUGENTOBLER, LOGAN Mark	11	447333
SILVERTHORN, AARON Jacob	11	491305						

Equipment

HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*	HES Unit #	*Distance-1 way*
10867531	60 mile	10871245	60 mile	10951246	60 mile	10989685	60 mile
11808821	60 mile						

Job Hours

Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours	Date	*On Location Hours*	Operating Hours
2/19/12	11	1						
TOTAL		*Total is the sum of each column separately*						

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	3400. ft	**Job Depth TVD**	3400. ft		
Water Depth		**Wk Ht Above Floor**			
Perforation Depth (MD)	*From*		**To**		

Job Times

	Date	Time	Time Zone
Called Out	18 - Feb - 2012	20:00	MST
On Location	19 - Feb - 2012	00:01	MST
Job Started	19 - Feb - 2012	07:26	MST
Job Completed	19 - Feb - 2012	08:08	MST
Departed Loc	19 - Feb - 2012	10:30	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

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		

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

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Cementing Job Summary

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	Spacer Ahead		5.00	bbl	8.33	.0	.0	3	
2	Plugcem	PLUGCEM (TM) SYSTEM (452969)	250.0	sacks	17.	1.0	3.57	4	3.57
	3.57 Gal	FRESH WATER							
3	Spacer Behind		2.00	bbl	8.33	.0	.0	3	
4	Mud Displacement		48.00	bbl	.	.0	.0	4	

Calculated Values		Pressures		Volumes					
Displacement	48	Shut In: Instant		Lost Returns		*Cement Slurry*	44	Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement	48	Treatment	
Frac Gradient		15 Min		Spacers	7	Load and Breakdown		Total Job	

Rates

Circulating		*Mixing*		*Displacement*		Avg. Job	

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***

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 344034	**Ship To #:** 344034	**Quote #:**	**Sales Order #:** 9296507
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Well Name: CC	**Well #:** 697-04-76B		**API/UWI #:** 05-045-20729
Field: GRAND VALLEY	**City (SAP):** UNKNOWN	**County/Parish:** Garfield	**State:** Colorado
Legal Description:			
Lat: N 39.549 deg. OR N 39 deg. 32 min. 55.788 secs.		**Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.568 secs.	
Contractor: OXY	**Rig/Platform Name/Num:** H&P 330		
Job Purpose: Plug Service - Whipstock			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Plug Service - Whipstock		
Sales Person: PRUETT, BRADLEY	**Srvc Supervisor:** HUGENTOBLER, LOGAN		**MBU ID Emp #:** 447333

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/18/2012 20:00							
Pre-Convoy Safety Meeting	02/18/2012 21:00							ALL HES EMPLOYEES
Arrive At Loc	02/19/2012 00:01							
Assessment Of Location Safety Meeting	02/19/2012 02:00							
Rig-Up Equipment	02/19/2012 02:30							1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK. 1 F-450, 1 BOOSTER TRAILER, 100' OF HOSE
Pre-Job Safety Meeting	02/19/2012 07:00							ALL HES EMPLOYEES, 3RD PARTY REPS, RIG CREW AND COMPANY REP.
Start Job	02/19/2012 07:26							2887' OF 5" DRILL PIPE, TO 563' OF 2 7/8" TUBING, TP 3450'
Pump Water	02/19/2012 07:27		1	1			21.0	FILL LINES
Pressure Test	02/19/2012 07:28							ON HES LINES ONLY
Pump Spacer 1	02/19/2012 07:38		3	4			401.0	SPACER AHEAD FRESH WATER
Pump Tail Cement	02/19/2012 07:40		4	44			470.0	250SKS PREMIUM CMTMIXED AT 17 PPG, .99 YIELD, 3.76 GAL/SK CMT TO BE WEIGHED VIA PSI BALANCED MUD SCALES. WET AND DRY SAMPLES SUBMITTED.

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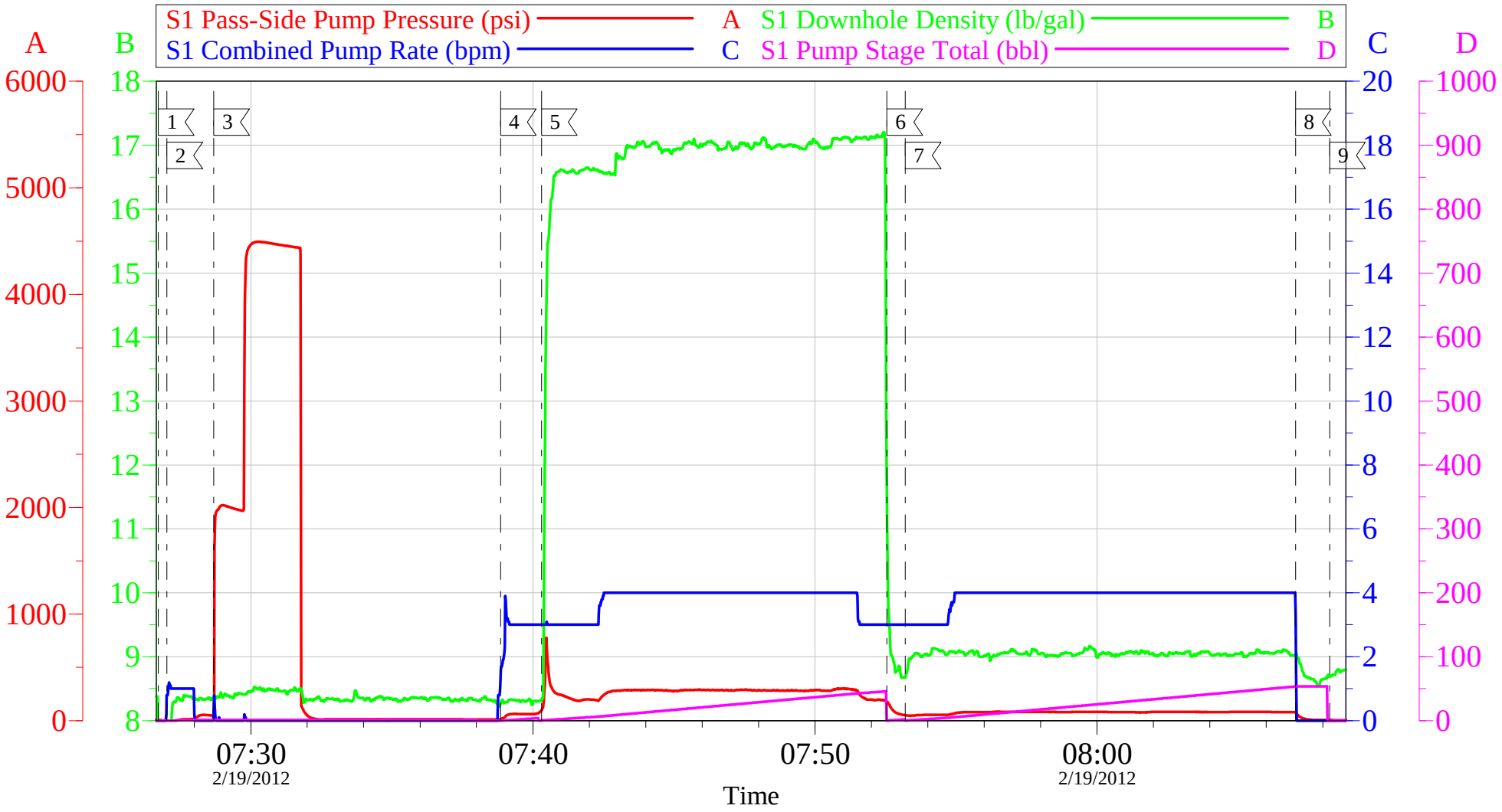
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 2	02/19/2012 07:52		3	2			81.0	FRESH WATER SPACER BEHIND
Pump Displacement	02/19/2012 07:53		4	48			89.0	USED MUD FROM RIG 9 PPG
Shutdown	02/19/2012 08:07							RIG DOWN IRON SO THEY COULD PULL PIPE, ABOUT TWO MINUTES LAPSED
End Job	02/19/2012 08:08							
Other	02/19/2012 08:10							RIG PULLED PIPE OUT OF HOLE AND WAS DRY
Post-Job Safety Meeting (Pre Rig-Down)	02/19/2012 08:25							ALL HES EMPLOYEES
Rig-Down Equipment	02/19/2012 08:30							THANK YOU FOR USING HES FROM LOGAN HUGENTOBLER AND CREW.
Pre-Convoy Safety Meeting	02/19/2012 10:20							ALL HES EMPLOYEES
Crew Leave Location	02/19/2012 10:30							LOCATION CLEAN, NO SPILLS ON LOCATION.

OXY CC 697-04-76B

KICK OFF PLUG



Local Event Log

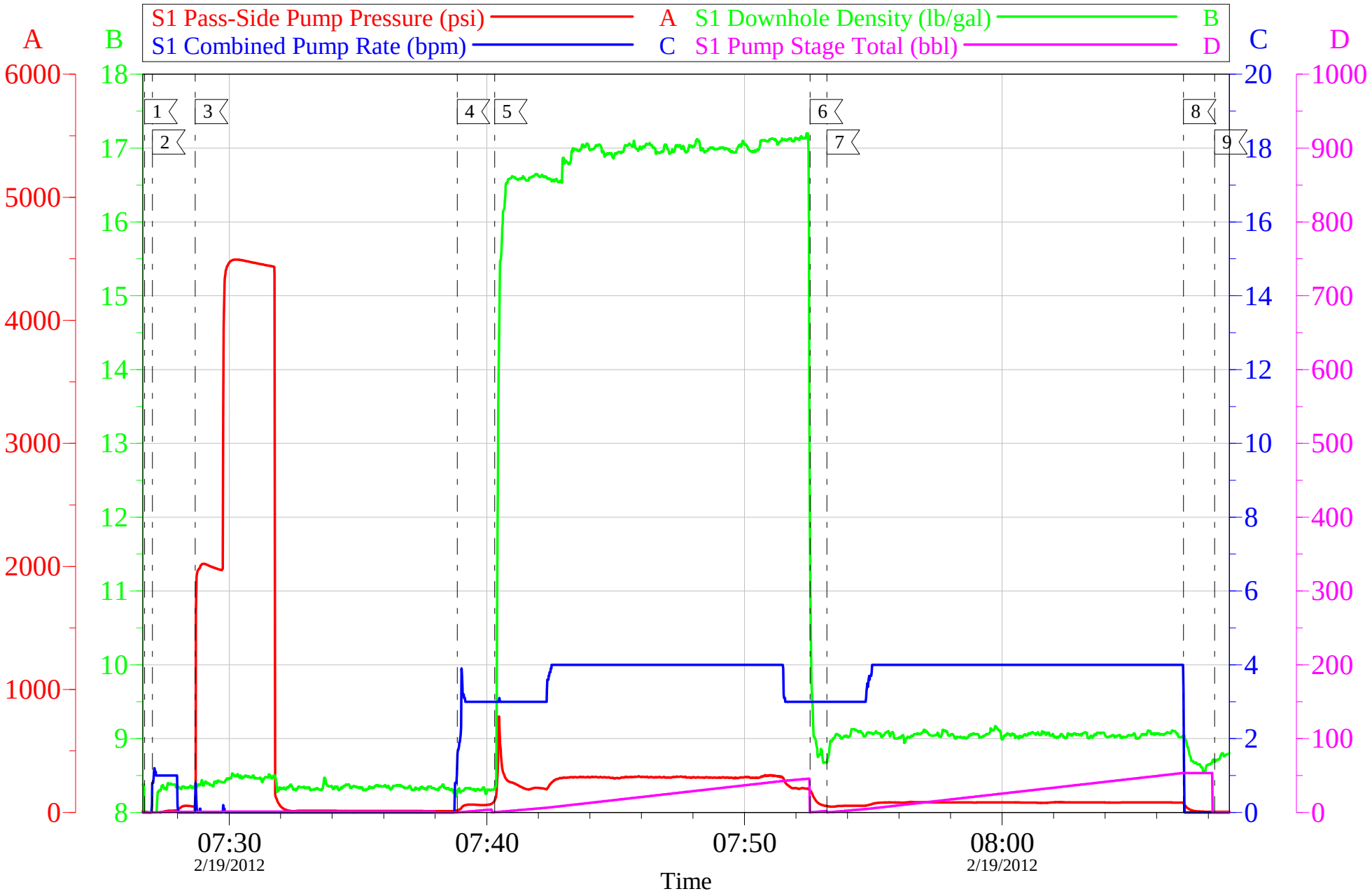
1	START JOB	07:26:43	2	FILL LINES	07:27:01	3	PRESSURE TEST	07:28:41
4	PUMP WATER SPACER	07:38:51	5	PUMP CEMENT	07:40:18	6	PUMP WATER BEHIND	07:52:33
7	PUMP MUD BEHIND	07:53:12	8	SHUT DOWN	08:07:02	9	END JOB	08:08:15

Customer:	OXY	Job Date:	19-Feb-2012	Sales Order #:	9296507
Well Description:	CC 697-04-76B	Job Type:	KOP	ADC Used:	YES
Company Rep:	VICTOR R.	Cement Supervisor:	LOGAN HUGENTOBLER	Elite #8:	TRAVIS BROWN

OptiCem v6.4.10
19-Feb-12 08:20

OXY CC 697-04-76B

KICK OFF PLUG



Customer:	OXY	Job Date:	19-Feb-2012	Sales Order #:	9296507
Well Description:	CC 697-04-76B	Job Type:	KOP	ADC Used:	YES
Company Rep:	VICTOR R.	Cement Supervisor:	LOGAN HUGENTOBLER	Elite #8:	TRAVIS BROWN

OptiCem v6.4.10
19-Feb-12 08:21

HALLIBURTON

Water Analysis Report

Company:	**OXY**	**Date:**	**2/20/2012**
Submitted by:	**LOGAN HUGENTOBLER**	**Date Rec.:**	**2/20/2012**
Attention:		**S.O.#**	**9296507**
Lease	**CC**	**Job Type:**	**PLUG**
Well #	**697-04-76B**		

Specific Gravity	***MAX***	**1**	
pH	***8***	**7**	
Potassium (K)	***5000***	**0**	**Mg / L**
Calcium (Ca)	***500***	**210**	**Mg / L**
Iron (FE2)	***300***	**0**	**Mg / L**
Chlorides (Cl)	***3000***	**0**	**Mg / L**
Sulfates (SO_4)	***1500***	**below 200**	**Mg / L**
Chlorine (Cl_2)		**0**	**Mg / L**
Temp	***40-80***	**70**	**Deg**
Total Dissolved Solids		**290**	**Mg / L**

Respectfully: **LOGAN HUGENTOBLER**

Title: **CEMENTING SUPERVISOR**

Location: **Grand Junction, CO**

HALLIBURTON

CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9296507	10	2/19/2012
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT WHIPSTOCK PLUG BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
VICTOR R.		05-045-20729
Well Name:		**Well Number:**
CC		697-04-76B
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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**	**2/19/2012**
Survey Interviewer	**The survey interviewer is the person who initiated the survey.**	**LOGAN HUGENTOBLER (HB15210)**
Customer Participation	**Did the customer partipcipate in this survey? (Y/N)**	**Yes**
Customer Representative	**Enter the Customer representative name**	**VICTOR R.**
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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CUSTOMER SURVEY

Sales Order #:	**Line Item:**	**Survey Conducted Date:**
9296507	10	2/19/2012
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT WHIPSTOCK PLUG BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
VICTOR R.		05-045-20729
Well Name:		**Well Number:**
CC		697-04-76B
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date The date the survey was conducted	2/19/2012

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.	6
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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CUSTOMER SURVEY

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9296507	10	2/19/2012
Customer:		**Job Type (BOM):**
OXY GRAND JUNCTION EBUSINESS		CMT WHIPSTOCK PLUG BOM
Customer Representative:		**API / UWI: (leave blank if unknown)**
VICTOR R.		05-045-20729
Well Name:		**Well Number:**
CC		697-04-76B
Well Type:	**Well Country:**	
Development Well	United States of America	
H2S Present:	**Well State:**	**Well County:**
	Colorado	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	Yes
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	Yes
Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cment 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