
OXY GRAND JUNCTION EBUSINESS

**CC 697-08-27A
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
26-Oct-2011**

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2884155	Quote #:	Sales Order #: 8554155
Customer: OXY GRAND JUNCTION EBUSINESS		Customer Rep: Adams, Derick	
Well Name: CC	Well #: 697-08-27A	API/UWI #: 05-045-20067	
Field: GRAND VALLEY	City (SAP): LETONA	County/Parish: Garfield	State: Colorado
Lat: N 39.534 deg. OR N 39 deg. 32 min. 2.371 secs.		Long: W 108.242 deg. OR W -109 deg. 45 min. 29.549 secs.	
Contractor: H&P Drilling		Rig/Platform Name/Num: H&P 330	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: HIMES, JEFFREY		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEUSSEN, EDWARD Eric		485182	LYNGSTAD, FREDRICK D		403742	MILLER, KEVIN Paul		443040
PARKER, BRANDON		503646	SMITH, CHRISTOPHER Scott		452619	VANALSTYNE, TROY L		420256

Equipment

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
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name				Date	Time	Time Zone
Formation Depth (MD)	Top	Bottom		Called Out	25 - Oct - 2011	17:00 MST
Form Type	BHST			On Location	24 - Oct - 2011	08:30 MST
Job depth MD	2710. ft	Job Depth TVD	2710. ft	Job Started	26 - Oct - 2011	14:55 MST
Water Depth		Wk Ht Above Floor	8. ft	Job Completed	26 - Oct - 2011	00:50 MST
Perforation Depth (MD)	From	To		Departed Loc	26 - Oct - 2011	02:45 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
14 3/4" Open Hole				14.75				.	2750.		
9 5/8" Surface Casing	New		9.625	8.921	36.		J-55	.	2750.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 9 5/8, HW, 8.16 MIN/9.06 MA	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

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		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	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	1050.0	sacks	12.3	2.33	12.62		12.62
	12.62 Gal	FRESH WATER							
5	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.07	10.67		10.67
	10.67 Gal	FRESH WATER							
6	Displacement		204.00	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		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	
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					

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Legal Description:			
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Contractor: H&P Drilling		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: HIMES, JEFFREY		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

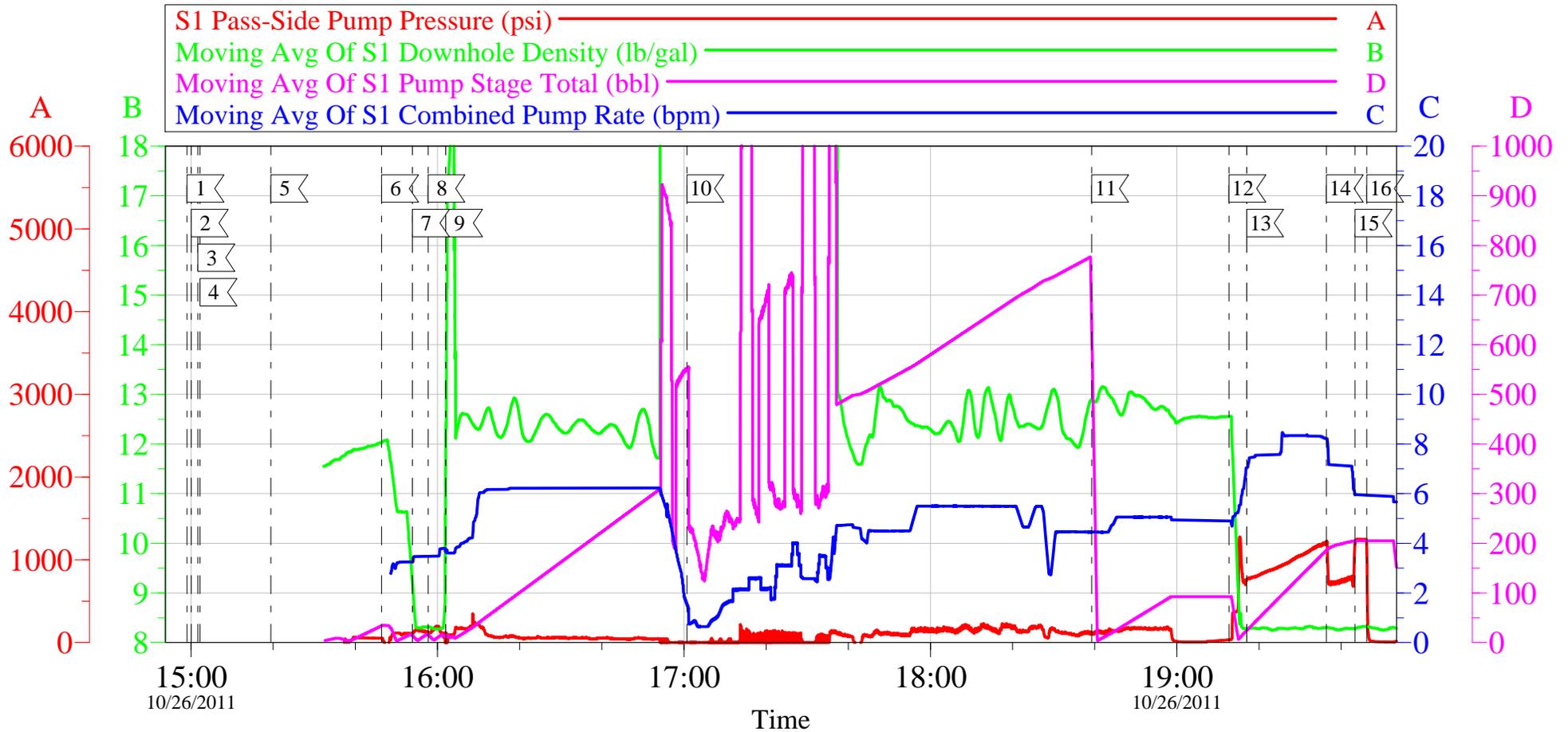
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pre-Convoy Safety Meeting	10/25/2011 20:00							ALL HES PERSONEL
Crew Leave Yard	10/25/2011 21:00							
Arrive At Loc	10/26/2011 10:30							RIG WAITING ON BOTTOM, NO CIRCULATION, PUMP ARRIVED AT 1300.
Assessment Of Location Safety Meeting	10/26/2011 11:00							ALL HES PERSONEL
Rig-Up Equipment	10/26/2011 13:10							
Pre-Job Safety Meeting	10/26/2011 14:25							ALL HES PERSONEL AND RIG CREW
Start Job	10/26/2011 14:56							TD 2710', TP 2660', SJ 46.1', OH 14.75", CSG 9.625" 36# J-55 , MUD 9.3PPG, YP- 16, PV- 16, TEMP- 78 DEG. WELL HAD NOT BEEN CIRCULATED FOR 10 HRS PRIOR TO CEMENT JOB.
Other	10/26/2011 14:57		2	2			50.0	FILL LINES
Pressure Test	10/26/2011 15:01		0.5	0.5				ALL LINES HELD PRESSURE @ 2600 PSI
Pump Spacer 1	10/26/2011 15:02		2	10			65.0	H2O SPACER
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Shutdown	10/26/2011 15:19							SHUTDOWN DURING FIRST H2O SPACER BECAUSE RECIRC DENSOMETER WAS NOT READING CEMENT. FLEX SYSTEM WAS RESTARTED. SHUT DOWNHOLE AND OPEN RELEASE TO KEEP FLUID ON TRUCK MOVING DUE TO COLD WEATHER. JOB WAS MIXED WITH NO RECIRC DENSOMETER.
Pump Spacer 1	10/26/2011 15:46		4	10			120.0	FRESH WATER
Pump Spacer 2	10/26/2011 15:53		4	20			125.0	LGC SPACER
Pump Spacer 1	10/26/2011 15:57		4	20			125.0	FRESH WATER
Pump Lead Cement	10/26/2011 16:02		6	435.7			190.0	1050 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK, SET UP TIME 3:59 @ 70 BC. DUE TO TUFF FIBER BBL COUNTER WAS OVER. MIX H2O VERIFIED CORRECT AMOUNT OF CEMENT WAS PUMPED.
Shutdown	10/26/2011 17:00							SHUTDOWN DUE TO NUMEROUS BULK DELIVERY ISSUES AND AIR PRESSURE LOSS TO CEMENT PUMP.
Pump Tail Cement	10/26/2011 18:39		5	62.7			189.0	170 SKS, 12.8 PPG, 2.07 FT3/ SK, 10.67 GAL/SK, SET UP TIME 2:16 @ 70 BC
Drop Top Plug	10/26/2011 19:12							PLUG WENT
Pump Displacement	10/26/2011 19:13		8.5	194.7			1278.0	FRESH WATER
Slow Rate	10/26/2011 19:36		2	10			850.0	
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Bump Plug	10/26/2011 19:43						1240.0	SHUT DOWN AT CALCULATED, CUSTOMER REP ASKED TO CONTINUE PUMPING, BUMPED IMMEDIATLY UPON KICKING PUMPS IN.
Check Floats	10/26/2011 19:46							FLOATS HELD
Other	10/26/2011 19:58		2	10			680.0	PUMP DOWN PARASITE WITH SUGAR WATER
Other	10/27/2011 00:29			2			15.0	FILL LINES WITH 6X5
Pump Cement	10/27/2011 00:40		2	5			40.0	TOP OUT CEMENT, 26 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK. PUMPED 4 BBLs TO PIT.
End Job	10/27/2011 00:50							GAINED CIRCULATION DURING LEAD CEMENT, 134 BBLs OF CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING THE JOB.
Post-Job Safety Meeting (Pre Rig-Down)	10/27/2011 01:45							ALL HES PERSONEL
Rig-Down Completed	10/27/2011 02:25							
Depart Location Safety Meeting	10/27/2011 02:35							ALL HES PERSONEL
Crew Leave Location	10/27/2011 02:45							
Other	10/27/2011 02:46							THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW

OXY- CC 697-08-27A

SURFACE

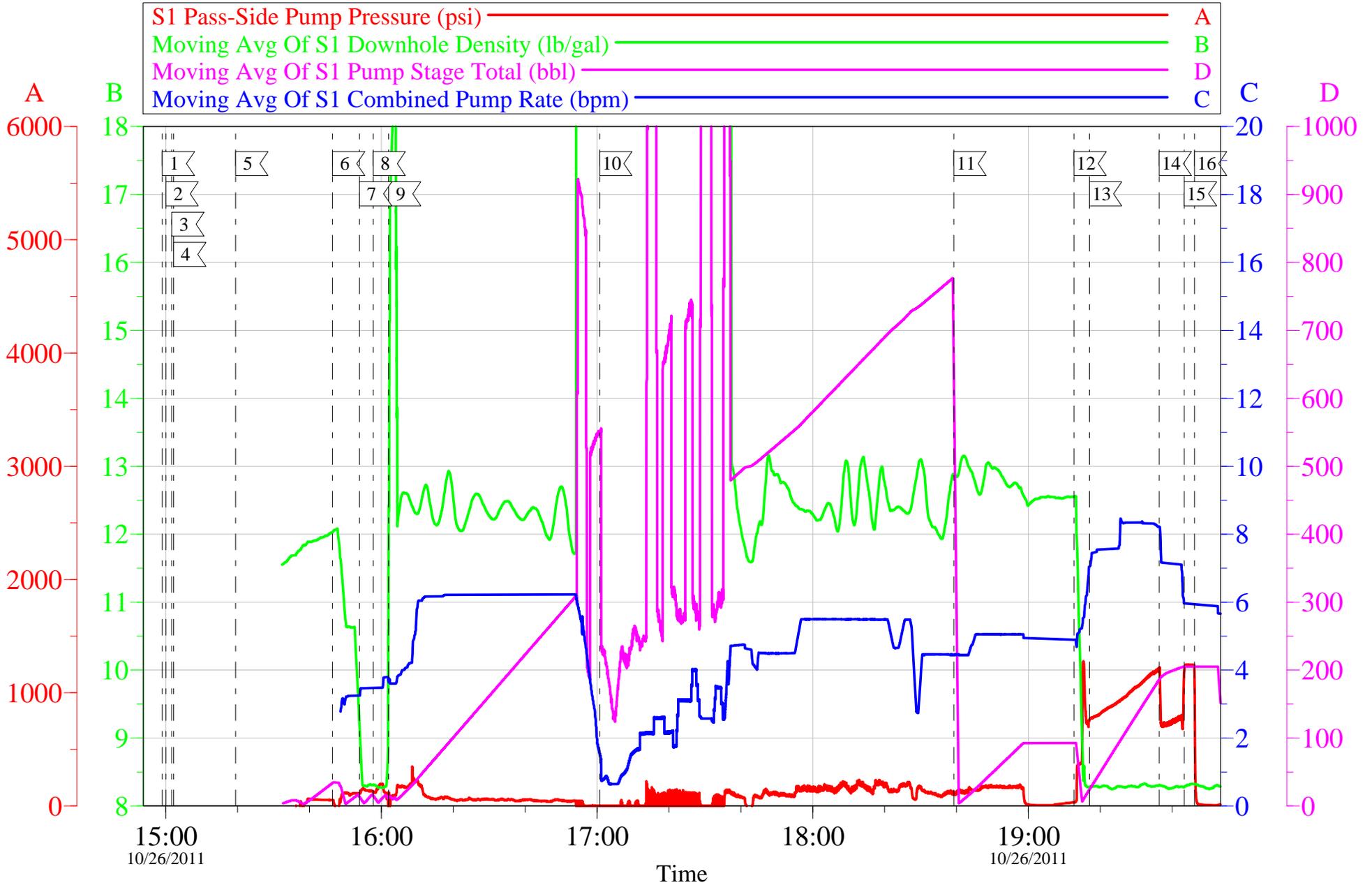


Local Event Log								
1	START JOB	14:59:02	2	FILL LINES	15:00:04	3	PRESSURE TEST	15:01:41
4	PUMP SPACER 1	15:02:11	5	SHUTDOWN	15:19:27	6	PUMP SPACER 1	15:46:24
7	PUMP SPACER 2	15:53:53	8	PUMP SPACER 1	15:57:41	9	PUMP LEAD CEMENT	16:01:59
10	SHUTDOWN	17:00:44	11	PUMP TAIL CEMENT	18:39:16	12	DROP TOP PLUG	19:12:41
13	PUMP DISPLACEMENT	19:16:59	14	SLOW RATE	19:36:23	15	BUMP PLUG	19:43:22
16	CHECK FLOATS	19:46:12						

Customer: OXY	Job Date: 26-Oct-2011	Sales Order #: 8554155
Well Description: CC 697-08-27A	Job Type: SURFACE	ADC Used: YES
Company Rep:	Cement Supervisor: C. SMITH	Elite #X: ED DEUSSEN: 2

OXY- CC 697-08-27A

SURFACE



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Company Rep:	Cement Supervisor: C. SMITH	Elite #X: ED DEUSSEN: 2

HALLIBURTON

Water Analysis Report

Company: OXY

Date: 10.26.2011

Submitted by: CHRIS SMITH

Date Rec.: 1/0/1900

Attention: J.Trout

S.O.# 8554155

Lease CC

Job Type: PRODUCTION

Well # 697-08-27A

Specific Gravity	<i>MAX</i>	1
pH	<i>8</i>	7
Potassium (K)	<i>5000</i>	200 Mg / L
Calcium (Ca)	<i>500</i>	120 Mg / L
Iron (FE2)	<i>300</i>	3 Mg / L
Chlorides (Cl)	<i>3000</i>	0 Mg / L
Sulfates (SO ₄)	<i>1500</i>	200 Mg / L
Chlorine (Cl ₂)		0 Mg / L
Temp	<i>40-80</i>	70 Deg
Total Dissolved Solids		110 Mg / L

Respectfully: CHRIS 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

Sales Order #: 8554155	Line Item: 10	Survey Conducted Date: 10/27/2011
Customer: OXY GRAND JUNCTION EBUSINESS		Job Type (BOM): CMT SURFACE CASING BOM
Customer Representative: VICTOR B.		API / UWI: (leave blank if unknown) 05-045-20067
Well Name: CC		Well Number: 697-08-27A
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	10/27/2011
Survey Interviewer	The survey interviewer is the person who initiated the survey.	CHRISTOPHER SMITH (HB20137)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	VICTOR B.
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	GOOD JOB ON MIXING WITH HT WHEN RECIRC WENT DOWN. DID NOT HAVE TO WAIT ON ANOTHER PUMP.
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.	

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CUSTOMER SIGNATURE

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H2S Present: No	Well State: Colorado	Well County: Garfield

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	10/27/2011
The date the survey was conducted	

Cementing KPI Survey	
Type of Job	0
Select the type of job. (Cementing or Non-Cementing)	
Select the Maximum Deviation range for this Job	Vertical
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	8
Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.	
HSE Incident, Accident, Injury	No
HSE Incident, Accident, Injury. This should be recordable incidents only.	
Was the job purpose achieved?	Yes
Was the job delivered correctly as per customer agreed design?	
Operating Hours (Pumping Hours)	5
Total number of hours pumping fluid on this job. Enter in decimal format.	
Customer Non-Productive Rig Time (hrs)	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.	
Type of Rig Classification Job Was Performed	Drilling Rig (Portable)
Type Of Rig (classification) Job Was Performed On	
Number Of JSAs Performed	7
Number Of Jsas Performed	
Number of Unplanned Shutdowns	3
Unplanned shutdown is when injection stops for any period of time.	

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H2S Present: No	Well State: Colorado	Well County: Garfield

Reason For Unplanned Shutdown	RECIRC WENT OUT, PUMP LOSS AIR PRESSURE, BULK DELIVERY ISSUES.
Reason For Unplanned Shutdowns (after Starting To Pump)	
Was this a Primary Cement Job (Yes / No)	Yes
Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs?	Top
Did We Run Top And Bottom Casing Wiper Plugs?	
Mixing Density of Job Stayed in Designed Density Range (0-100%)	80
Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100	
Was Automated Density Control Used?	No
Was Automated Density Control (ADC) Used ?	
Pump Rate (percent) of Job Stayed At Designed Pump Rate	6
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	
Nbr of Remedial Sqz Jobs Rqd - Competition	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition	
Nbr of Remedial Plug Jobs Rqd - HES	0
Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES	
Nbr of Remedial Sqz Jobs Rqd - HES	0
Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES	