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# **WEXPRO COMPANY E-BILL**

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**Sugarloaf 17  
POWDER WASH  
Moffat County, Colorado**

**Cement Production Casing**  
**18-Oct-2010**

**Post Job Report**

### The Road to Excellence Starts with Safety

<b>Sold To #:</b> 343491	<b>Ship To #:</b> 2810057	<b>Quote #:</b>	<b>Sales Order #:</b> 7702617
<b>Customer:</b> WEXPRO COMPANY E-BILL		<b>Customer Rep:</b> SST-17, Wexpro	
<b>Well Name:</b> Sugarloaf		<b>Well #:</b> 17	<b>API/UWI #:</b> 05-081-07606
<b>Field:</b> POWDER WASH	<b>City (SAP):</b> CRAIG	<b>County/Parish:</b> Moffat	<b>State:</b> Colorado
<b>Contractor:</b> Wexpro		<b>Rig/Platform Name/Num:</b> SST 17	
<b>Job Purpose:</b> Cement Production Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Production Casing	
<b>Sales Person:</b> VOLNER, THOMAS		<b>Srv Supervisor:</b> MADSEN, DUSTIN	<b>MBU ID Emp #:</b> 450621

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DAWDY, BRETT Dee	6	394594	LEATHAM, BROOK E	6	470713	MADSEN, DUSTIN J	6	450621
MAEDCHE, JAMES R	6	391220	ROHRER, BENJAMIN Michael	6	450274			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025037C	60 mile	10713218	60 mile	10714289C	60 mile	10804551	60 mile
10925548	60 mile	11138978	60 mile	11138998	60 mile	11139006	60 mile
11439123	60 mile						

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/17/2010	3	1	10/18/2010	3	2			

<b>TOTAL</b>	Total is the sum of each column separately							
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### Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Water Depth	Perforation Depth (MD)	From	To
				BHST	6019 ft				

### Job Times

Called Out	Date	Time	Time Zone
	17 - Oct - 2010	15:45	MST
On Location	17 - Oct - 2010	08:30	MST
Job Started	17 - Oct - 2010	23:00	MST
Job Completed	18 - Oct - 2010	02:00	MST
Departed Loc	18 - Oct - 2010	00:00	MST

### Well Data

Description	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Production OpenHole			7.875				498	6019		
Production Casing		4.5	3.92	13.5			0	6019		

### Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
MICRO MATRIX RETARDER	1	GAL		

### 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	4.5	1	hes
Stage Tool										Centralizers			

Fluid Data										
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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	20	bbl	8.4			2		
2	BondCem RS4	BONDCEM (TM) SYSTEM (452977)	525	sacks	14.8	1.56	6.70	4	6.70	
0.38 %		HR-5, 50 LB SK (100005050)								
14 %		SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)								
14 %		COMMON WHITE-100 MESH, SSA-2, 50 LB SACK (101213353)								
3	BondCem RS4	BONDCEM (TM) SYSTEM (452977)	1755	sacks	14.8	1.25	5.47	4	5.47	
0.3 %		HR-5, 50 LB SK (100005050)								
4	Clayfix III Water		85.5	bbl	8.4			4		
0.1 gal/bbl		CLAYFIX 3, TOTETANK (101583425)								
Calculated Values		Pressures		Volumes						
Displacement		Shut In: Instant		Lost Returns	0	Cement Slurry	535	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	80	Actual Displacement	85.5	Treatment		
Frac Gradient		15 Min		Spacers	23	Load and Breakdown		Total Job	643.5	
Rates										
Circulating	6	Mixing	4	Displacement	4	Avg. Job	4			
Cement Left In Pipe	Amount	12 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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<b>Customer:</b> WEXPRO COMPANY E-BILL		<b>Customer Rep:</b> SST-17, Wexpro	
<b>Well Name:</b> Sugarloaf	<b>Well #:</b> 17	<b>API/UWI #:</b> 05-081-07606	
<b>Field:</b> POWDER WASH	<b>City (SAP):</b> CRAIG	<b>County/Parish:</b> Moffat	<b>State:</b> Colorado
<b>Legal Description:</b>			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Wexpro		<b>Rig/Platform Name/Num:</b> SST 17	
<b>Job Purpose:</b> Cement Production Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Production Casing	
<b>Sales Person:</b> VOLNER, THOMAS		<b>Srvc Supervisor:</b> MADSEN, DUSTIN	<b>MBU ID Emp #:</b> 450621

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/17/2010 00:16							
Depart Yard Safety Meeting	10/17/2010 00:16							
Depart from Service Center or Other Site	10/17/2010 00:16							
Arrive at Location from Service Center	10/17/2010 20:30							
Safety Meeting - Assessment of Location	10/17/2010 20:35							
Safety Meeting - Pre Rig-Up	10/17/2010 20:40							
Rig-Up Equipment	10/17/2010 20:45							Spot equipment, rig up ground, helped load field bins with cement from air slides
Safety Meeting - Pre Job	10/17/2010 22:20							
Rig-Up Equipment	10/17/2010 22:40							Rig up plug container/iron on rig floor
Start Job	10/17/2010 22:49	1						
Pump Water	10/17/2010 22:51	2	3	3	3		120.0	Pump fresh water ahead
Pressure Test	10/17/2010 22:54	3					9000.0	Pressure test lines 8000 psi
Pump Spacer	10/17/2010 22:55	4	2	20	23		500.0	Pump Mud Flush III 8.4#
Drop Bottom Plug	10/17/2010 22:59	5						Drop Weatherford 4.5" bottom plug
Pump Lead Cement	10/17/2010 23:04	6	4	145	168		340.0	Pump BondCem RS-4 Lead 14.8# 1.56 cuft/sk 6.70 gal/sk 525 sks.
Pump Tail Cement	10/17/2010 23:39	7	4	390	558		494.0	Pump BondCem RS-4 Tail 14.8# 1.25 cuft/sk 5.47 gal/sk 1755 sks.

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Quote # :

Sales Order # : 7702617

SUMMIT Version: 7.20.130

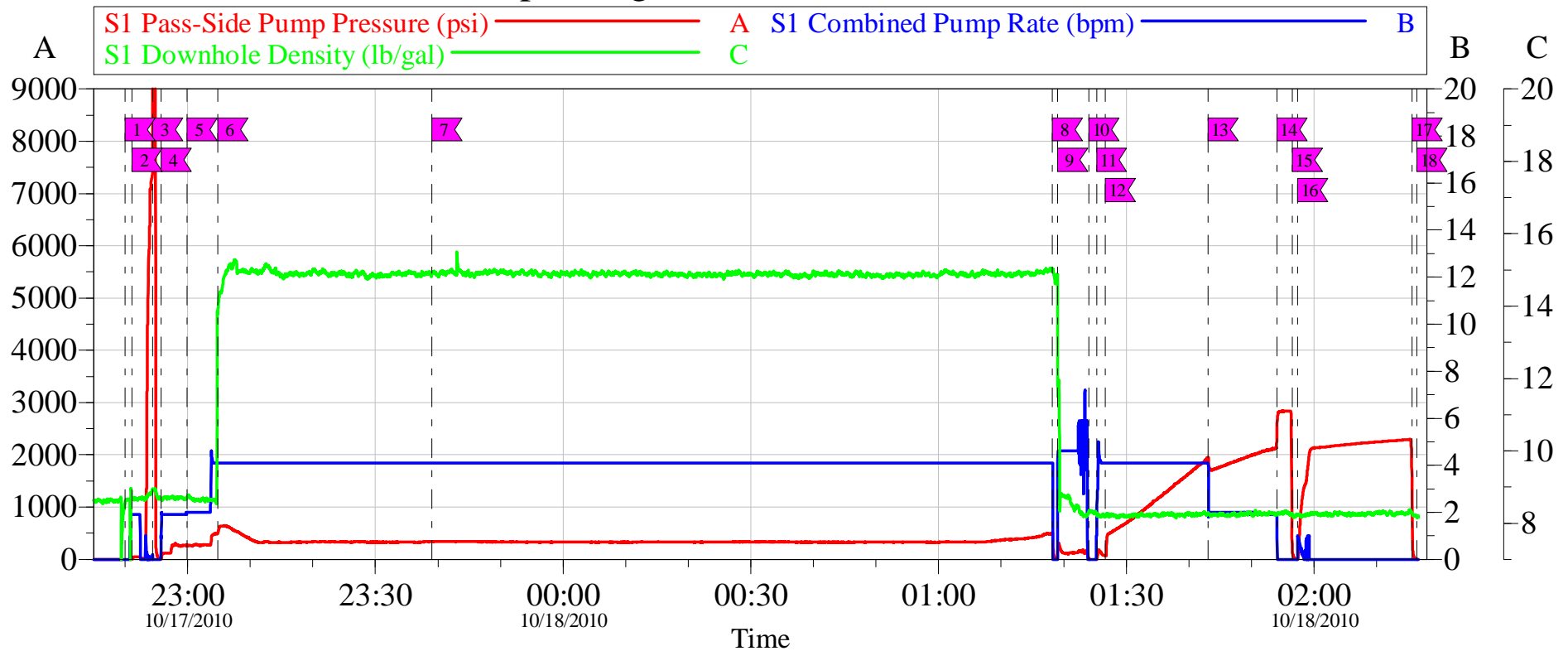
Tuesday, October 19, 2010 02:47:00

## Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	10/18/2010 01:18	8						
Other	10/18/2010 01:19	9						Wash pumps lines to pit
Drop Top Plug	10/18/2010 01:24	10						Drop Weatherford 4.5" top plug
Pump Displacement	10/18/2010 01:25	9	4	70	628		530.0	Pump Clayfix III water displacement with 1 gal mmcr in first 10 bbls
Cement Returns to Surface	10/18/2010 01:26	12						Cement returns to surface @ 5 bbls into displacement, 80 bbls back to surface
Slow Rate	10/18/2010 01:43	13	2	15.5	643.5			Slow rate to 2 bbl/min
Bump Plug	10/18/2010 01:54	14					2150.0	Bump plug @ 2150 psi, took 500 over to 2830 psi
Check Floats	10/18/2010 01:56	15						Check floats, 1 bbl back to truck
Other	10/18/2010 01:57	16					2100.0	Start casing test @ 2100 psi
Other	10/18/2010 02:15	17					2230.0	End casing test
End Job	10/18/2010 02:16	18						Full returns throughout job
Safety Meeting - Pre Rig-Down	10/18/2010 02:20							
Rig-Down Equipment	10/18/2010 02:30							Rig down floor and ground
Other	10/18/2010 03:00							Wash pump truck/paperwork
Depart Location Safety Meeting	10/18/2010 03:20							
Depart Location for Service Center or Other Site	10/18/2010 03:30							

# Rock Springs Cement

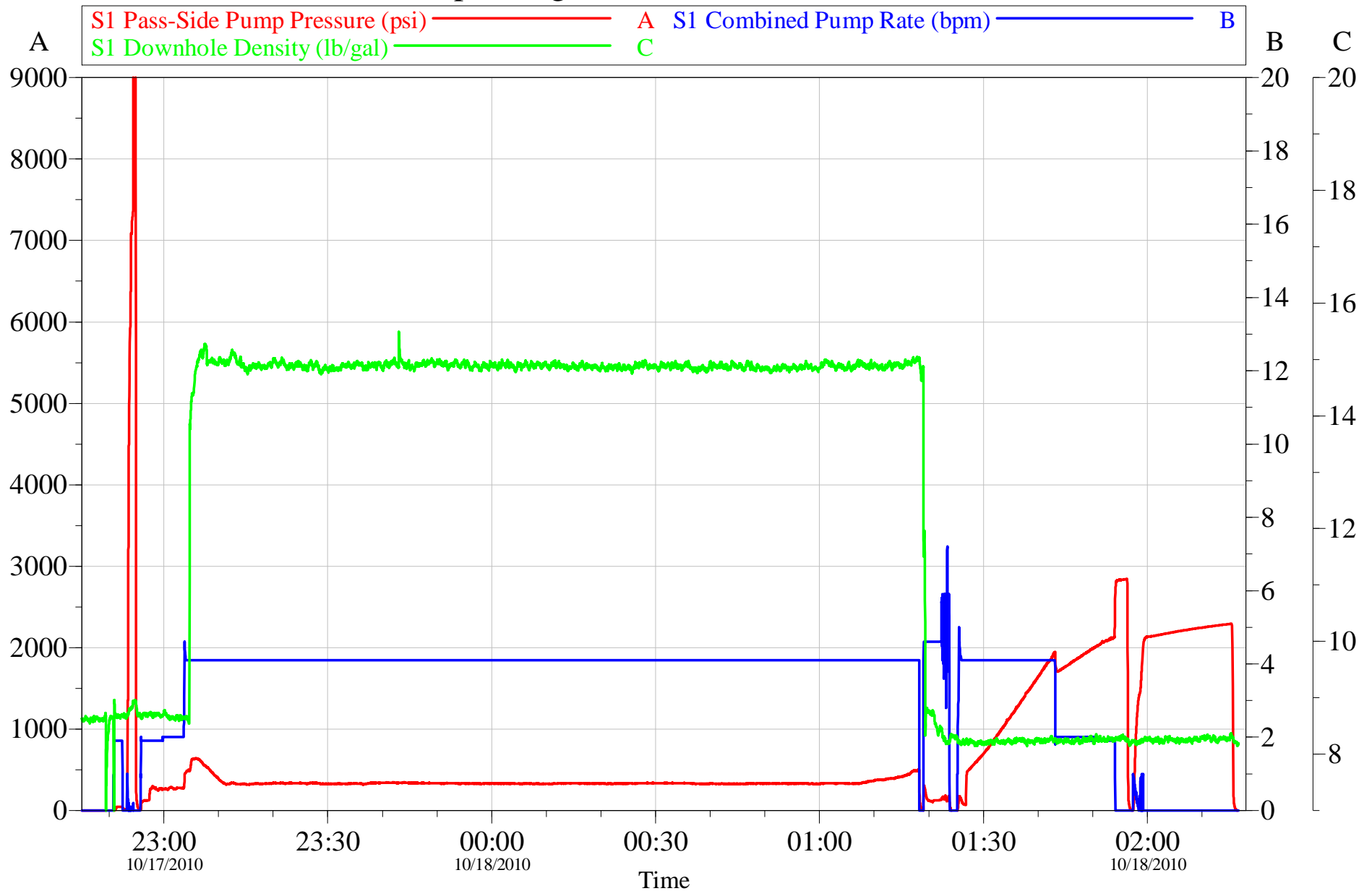
## Wexpro Sugarloaf Govt 17 Production



Local Event Log						
Intersection		SCPR	SDD	SPPP	Intersection	
1 START JOB	10/17/2010 22:49:59	0.000	8.545	-2.000	2 PUMP WATER AHEAD	10/17/2010 22:51:06
3 PRESSURE TEST	10/17/2010 22:54:26	0.200	8.937	9162	4 PUMP SPACER	10/17/2010 22:55:49
5 DROP BOTTOM PLUG	10/17/2010 22:59:55	2.000	8.700	262.7	6 PUMP LEAD CEMENT	10/17/2010 23:04:49
7 PUMP TAIL CEMENT	10/17/2010 23:39:03	4.100	14.88	340.1	8 SHUTDOWN	10/18/2010 01:18:12
9 WASH PUMPS/LINES	10/18/2010 01:19:00	0.000	14.86	3.000	10 DROP TOP PLUG	10/18/2010 01:24:02
11 PUMP DISPLACEMENT	10/18/2010 01:25:15	1.000	8.261	-6.945	12 CEMENT RETURNS TO SURFACE	10/18/2010 01:26:40
13 SLOW RATE	10/18/2010 01:43:03	4.100	8.262	1932	14 BUMP PLUG	10/18/2010 01:54:04
15 CHECK FLOATS	10/18/2010 01:56:29	0.000	8.230	349.4	16 START CASING TEST	10/18/2010 01:57:23
17 END CASING TEST	10/18/2010 02:15:39	0.000	8.280	1381	18 END JOB	10/18/2010 02:16:27

# Rock Springs Cement

## Wexpro Sugarloaf Govt 17 Production



Customer: Wexpro  
Well Description: 18

Job Date: 17-Oct-2010  
UWI: 05-081-07602

Sales Order #: 7702617  
Supervisor Madsen

OptiCem v6.4.0  
18-Oct-10 03:05

# HALLIBURTON

## Water Analysis Report

COMPANY: Wexpro Date Recorded 10/17/2010  
SUBMITTED BY: Madsen SO# 7702617  
LEASE: Sugarloaf Govt Job Type Production  
WELL #: 17 Camp Location 10142 ROCK SPRINGS WY

### CEMENT MIX WATER REQUIREMENTS

Item	Recorded Test Value	Max Acceptable Limit	Potential Problems in Exceeding Limit
pH	7	5 to 8.5	Chemicals in water can cause severe retardation
Chlorides <sup>1,2</sup>	0	3000 mg/L	Can accelerate the set time on cement 1% ~ 4800 mg/L
Total Alkalinity	120	1000 mg/L	Cement is greatly retarded to the point where it may not set up at all, decrease strength of cement ar possibly thicken cement slurry. <b>(Typically occurs @ pH ≥ 8.3)</b>
Total Hardness	0	400 mg/L	Slightly shortens pump time on cement.
Sulfates	<200	1500 mg/L	Will greatly decrease the strength of cement
Iron	0	300 mg/L	Could cause gelation issues with cement
Water Temp	50°	50F to 80F	High temps will accelerate; Low temps may risk freezing in cold weather

#### NOTES:

1. If the water's pH is greater than or equal to 8, avoid using it since Magnesium may be present (there are no field test strips for Magnesium).

Submitted Respectfully by: \_\_\_\_\_



<b>Sales Order #:</b> 7702617	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/18/2010
<b>Customer:</b> WEXPRO COMPANY E-BILL		<b>Job Type (BOM):</b> CMT PRODUCTION CASING BOM
<b>Customer Representative:</b> MIKE MELLOW		<b>API / UWI: (leave blank if unknown)</b> 05-081-07606
<b>Well Name:</b> Sugarloaf		<b>Well Number:</b> 17
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Moffat

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	10/18/2010
Survey Interviewer	The survey interviewer is the person who initiated the survey.	DUSTIN MADSEN (HB18212)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	MIKE MELLOW
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 - NO PROBLEMS
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

<b>Sales Order #:</b> 7702617	<b>Line Item:</b> 10	<b>Survey Conducted Date:</b> 10/18/2010
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<b>Customer Representative:</b> MIKE MELLOW		<b>API / UWI: (leave blank if unknown)</b> 05-081-07606
<b>Well Name:</b> Sugarloaf		<b>Well Number:</b> 17
<b>Well Type:</b> Development Well	<b>Well Country:</b> United States of America	
<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Moffat

### KEY PERFORMANCE INDICATORS

General	
<b>Survey Conducted Date</b> The date the survey was conducted	10/18/2010

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.	5
<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	5
<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> MIKE MELLOW		<b>API / UWI: (leave blank if unknown)</b> 05-081-07606
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<b>H2S Present:</b>	<b>Well State:</b> Colorado	<b>Well County:</b> Moffat

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?	Both
<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	96
<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	96
<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