
WEXPRO COMPANY E-BILL

**Carl Allen 31
POWDER WASH
Moffat County , Colorado**

**Cement Production Casing
14-May-2010**

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2778447	Quote #:	Sales Order #: 7353482
Customer: WEXPRO COMPANY E-BILL		Customer Rep: SST 1, Questar	
Well Name: Carl Allen		Well #: 31	API/UWI #: 05-081-07569
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description: Section 33 Township 12N Range 97W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Wexpro		Rig/Platform Name/Num: SST 1	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: VOLNER, THOMAS		Srvc Supervisor: MCCOY, STEVE	MBU ID Emp #: 416547

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	05/13/2010 09:30							REQUESTED ON LOCATION @ 0200
Pre-Convoy Safety Meeting	05/13/2010 10:45							
Depart from Service Center or Other Site	05/13/2010 11:00							
Arrive At Loc	05/14/2010 01:00							
Assessment Of Location Safety Meeting	05/14/2010 01:10							
Rig-Up Equipment	05/14/2010 01:30							RIG UP GROUND
Casing on Bottom	05/14/2010 03:00							RIG CIRCULATED WELL @ 6.5 BBL/MIN 475PSI, NO GAS
Pre-Job Safety Meeting	05/14/2010 05:30							
Rig-Up Equipment	05/14/2010 05:45							RIG UP FLOOR
Pump Water	05/14/2010 06:03		2	3	3		250.0	PUMP WATER AHEAD
Pressure Test	05/14/2010 06:06						7950.0	GOOD PRESSURE TEST, NO LEAKS
Pump Spacer	05/14/2010 06:08		2	20	20		400.0	MUD FLUSH H2O
Pump Lead Cement	05/14/2010 06:14		6	351	351		600.0	PUMPED 705 SKS OF EXTENDACEM RS1 @ 11.3 LBS/GAL 2.80 YIELD 16.78 GAL/SK
Pump Tail Cement	05/14/2010 07:13		6	310	310		410.0	PUMPED 1380 SKS OF ECONOCEM RS13 @ 14.2 LBS/GAL 1.26 YIELD 5.51 GAL/SK
Shutdown	05/14/2010 08:03							

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	05/14/2010 08:04							WASH PUMPS & LINES
Drop Plug	05/14/2010 08:05							DROP TOP PLUG
Pump Displacement	05/14/2010 08:09		5	110	110		125.0	PUMP CLACFIX III H2O
Slow Rate	05/14/2010 08:32		2	23	133		1950.0	CLAYFIX H2O
Bump Plug	05/14/2010 08:44						2380.0	BROUGHT UPTO 3100 PSI OVER FINAL CIRCULATING PRESSURE
Check Floats	05/14/2010 08:46							FLOATS HELD 2 BBLS BACK TO TRUCK
Post-Job Safety Meeting (Pre Rig-Down)	05/14/2010 09:00							
Rig-Down Equipment	05/14/2010 09:10							
Pre-Convoy Safety Meeting	05/14/2010 09:55							
Depart Location for Service Center or Other Site	05/14/2010 10:00							
Other	05/14/2010 10:01							FULL RETURNS THROUGH OUT THE JOB, 200 BBLS CEMENT TO SURFACE , 2BBL BACK TO THE PUMP, 865' TOP OF TAIL

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Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description: Section 33 Township 12N Range 97W			
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Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: VOLNER, THOMAS		Srvc Supervisor: MCCOY, STEVE	MBU ID Emp #: 416547

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CAUDILL, BRIAN David	9	433515	HOOVER, MICHAEL Lee	9	455359	MCCOY, STEVE Allen	9	416547
MONTERROSA, ROMAN Bernardo	9	456324	PUGMIRE, DUANE	9	353129			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10713218	100 mile	10804483	100 mile	11148854	100 mile	11165709	100 mile
11318724	100 mile	11337605	100 mile	11380725	100 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5-14-10	9	5						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	13 - May - 2010	21:00	MST
Form Type		BHST	Job Started	14 - May - 2010	01:00	MST
Job depth MD	8948. ft	Job Depth TVD	Job Completed	14 - May - 2010	06:02	MST
Water Depth		Wk Ht Above Floor	Departed Loc	14 - May - 2010	08:47	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>			10:00	MST

Well Data

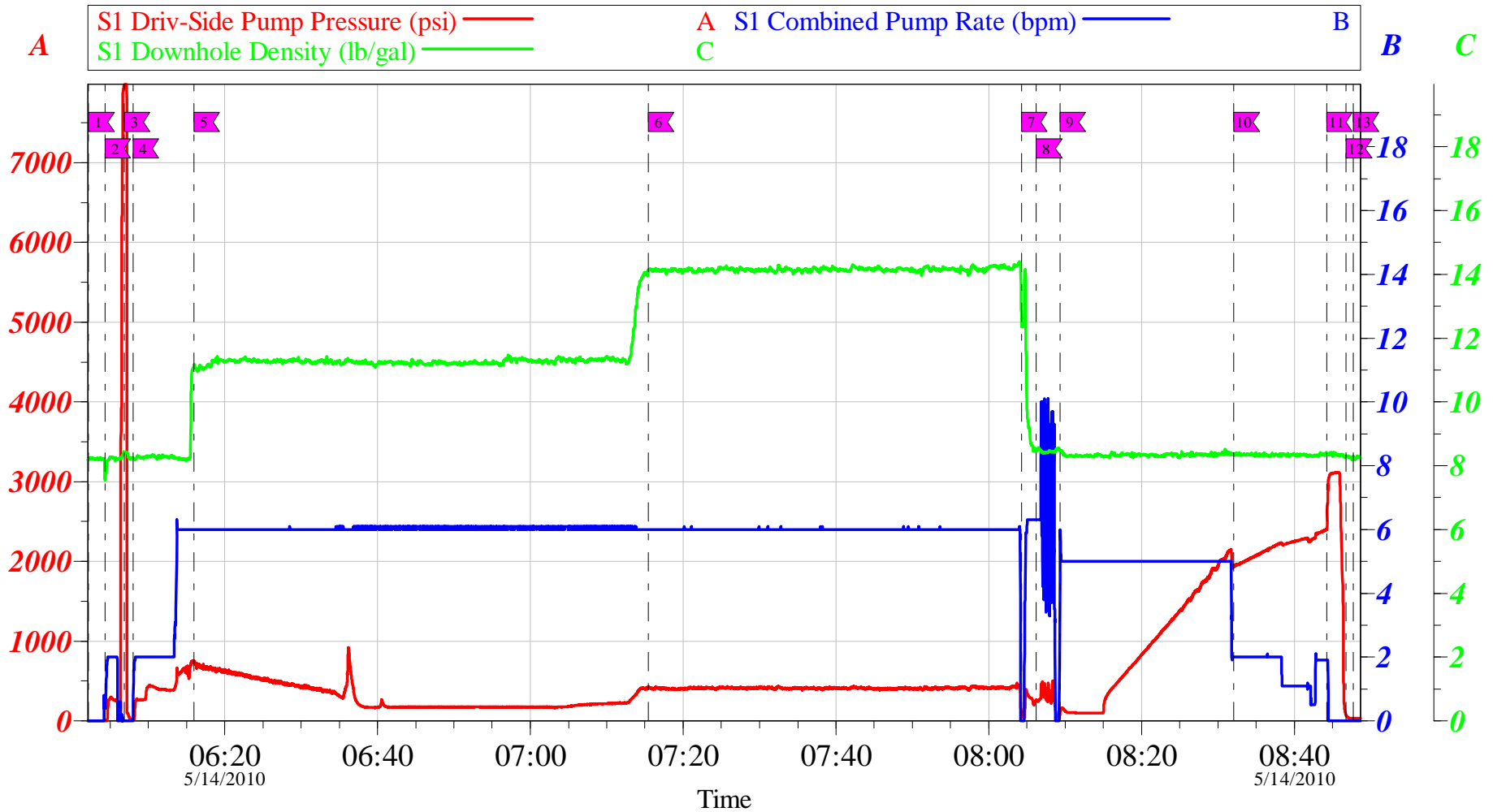
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Production Openhole				6.125				525.	8948.		
Production Casing			4.5	3.92	13.5			0	8948.		
Second Conductor / Surface			10.75	10.05	40.5			0	525.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
MICRO MATRIX RETARDER	1	GAL		HES
PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA		HES
PLUG,CMTG,BOT,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA		HES

Tools and Accessories														
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	
Guide Shoe					Packer					Top Plug	4.5	1	HES	
Float Shoe					Bridge Plug					Bottom Plug	4.5	1	HES	
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container	4.5	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		
1	Spacer	MUD FLUSH III - SBM (528788)				20.00	bbl	8.4			2			
	42 gal/bbl	FRESH WATER												
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)												
2	Lead Cement	EXTENDACEM (TM) SYSTEM (452981)				705.0	sacks	11.3	2.8	16.78	6	16.78		
	0.8 %	HR-7 (100005055)												
	0.3 %	D-AIR 3000 (101007446)												
	0.125 lbm	POLY-E-FLAKE (101216940)												
	16.78 Gal	FRESH WATER												
3	Tail Cement	ECONOCEM (TM) SYSTEM (452992)				1380.0	sacks	14.2	1.26	5.51	6	5.51		
	0.25 %	HR-5, 50 LB SK (100005050)												
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)												
	0.125 lbm	POLY-E-FLAKE (101216940)												
	5.51 Gal	FRESH WATER												
4	Displacement	CLAYFIX III WATER				133.00	bbl	8.34			5,2			
	0.1 gal/bbl	CLAYFIX 3, TOTETANK (101583425)												
Calculated Values			Pressures				Volumes							
Displacement	133	Shut In: Instant				Lost Returns	0	Cement Slurry		661	Pad			
Top Of Cement	SURFACE	5 Min				Cement Returns	200	Actual Displacement		133	Treatment			
Frac Gradient		15 Min				Spacers	23	Load and Breakdown			Total Job 817			
Rates														
Circulating	6.5	Mixing		6		Displacement	5,2	Avg. Job		5.5				
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								

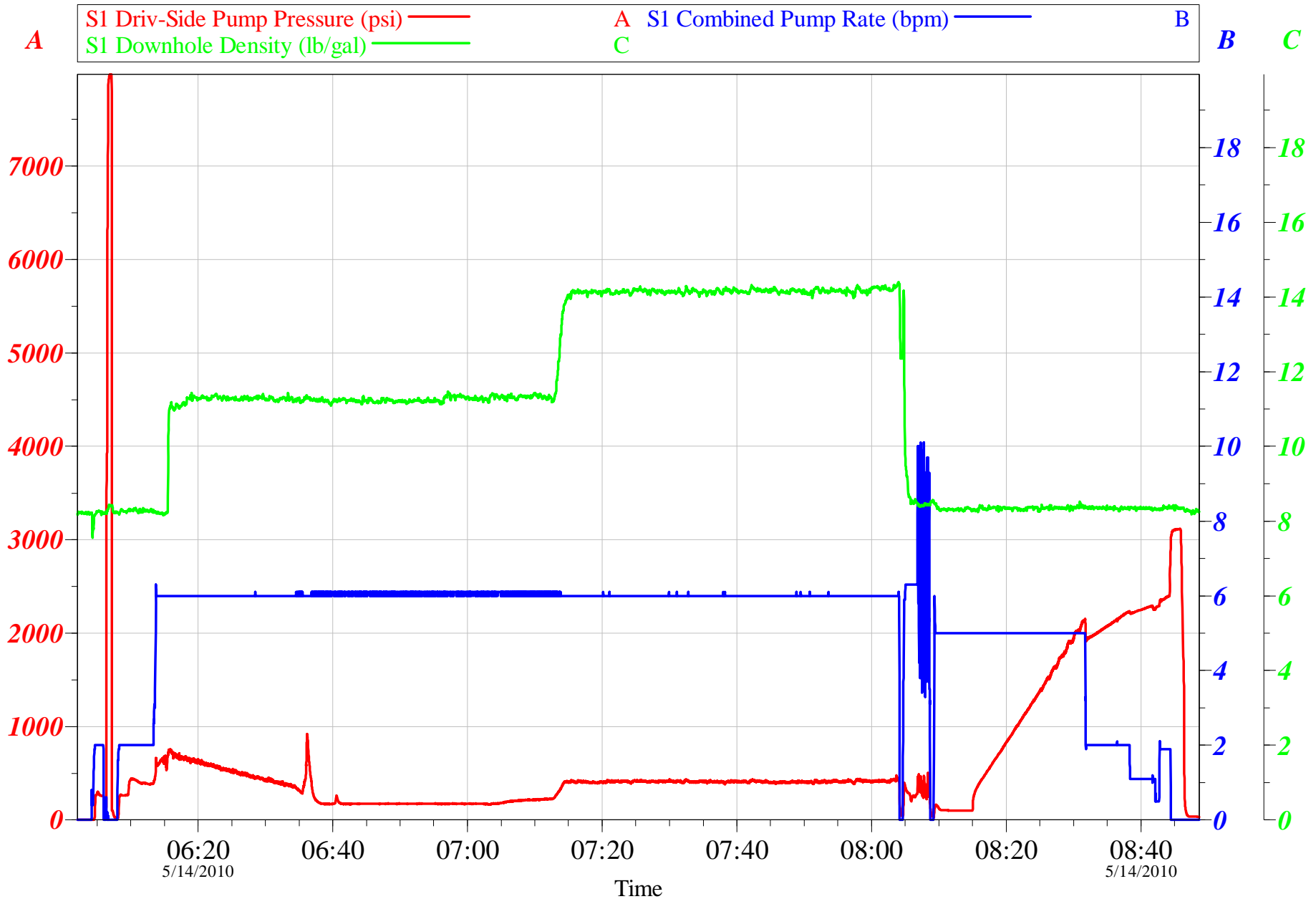
WEXPRO CARL ALLEN 31 PRODUCTION



Local Event Log					
Intersection	SDD	SDPP	Intersection	SDD	SDPP
1 START JOB	06:02:11	8.239	2 FILL LINES	06:04:20	7.550
3 PUMP H2O MUD FLUSH	06:08:01	8.236	5 PUMP LEAD CEMENT	06:15:59	11.16
4 PUMP H2O MUD FLUSH	06:08:01	8.236	6 PUMP TAIL CEMENT	07:15:26	14.13
5 PUMP LEAD CEMENT	06:08:01	15.00	7 SHUTDOWN, DROP TOP PLUG	08:04:17	12.59
6 PUMP TAIL CEMENT	06:15:59	725.4	8 WASH PUMP	08:06:13	8.481
7 SHUTDOWN, DROP TOP PLUG	08:04:17	105.1	9 START DISPLACEMENT	08:09:18	8.490
8 WASH PUMP	08:06:13	264.4	10 SLOW RATE	08:32:05	8.368
9 START DISPLACEMENT	08:09:18	59.93	11 BUMP PLUG	08:44:15	8.377
10 SLOW RATE	08:32:05	1952	12 CHECK FLOATS	08:46:47	8.300
11 BUMP PLUG	08:44:15	2401	13 END JOB	08:47:43	8.272
12 CHECK FLOATS	08:46:47	66.30			
13 END JOB	08:47:43	34.00			

Customer: WEXPRO	Job Date: 13-May-2010	Sales Order #: 7353482	HALLIBURTON OptiCem v6.1.1 14-May-10 10:12
Well Description: CARL ALLEN 31	SUPERVISOR BRIAN CAUDILL	JOB TYPE: PRODUCTION	

WEXPRO CARL ALLEN 31 PRODUCTION



Customer: WEXPRO	Job Date: 13-May-2010	Sales Order #: 7353482	HALLIBURTON OptiCem v6.1.1 14-May-10 10:13
Well Description: CARL ALLEN 31	SUPERVISOR BRIAN CAUDILL	JOB TYPE: PRODUCTION	

HALLIBURTON

Water Analysis Report

COMPANY: WEXPRO Date Recorded 5/14/2010
 SUBMITTED BY: BRIAN CAUDILL SO# 7353482
 LEASE: CARL ALLEN Job Type PROD
 WELL #: 31 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 ^{1,2}	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 and possibly thicken cement slurry. (Typically occurs @ pH ≥ 8.3)
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: _____

Sales Order #: 7353482	Line Item: 10	Survey Conducted Date: 5/14/2010
Customer: WEXPRO COMPANY E-BILL		Job Type (BOM): CMT PRODUCTION CASING BOM
Customer Representative: ROCKY WASSUM		API / UWI: (leave blank if unknown) 05-081-07569
Well Name: Carl Allen		Well Number: 31
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: 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	5/14/2010
Survey Interviewer	The survey interviewer is the person who initiated the survey.	BRIAN CAUDILL (HX44516)
Customer Participation	Did the customer participate in this survey? (Y/N)	Yes
Customer Representative	Enter the Customer representative name	ROCKY WASSUM
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	NONE
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

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Well Name: Carl Allen		Well Number: 31
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Moffat

KEY PERFORMANCE INDICATORS

General	
Survey Conducted Date	5/14/2010
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	Deviated
What is the highest deviation for the job you just completed? This may not be the maximum well deviation.	
Total Operating Time (hours)	6
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)	3
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	5
Number Of Jsas Performed	
Number of Unplanned Shutdowns	0
Unplanned shutdown is when injection stops for any period of time.	
Was this a Primary Cement Job (Yes / No)	Yes

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Well Name: Carl Allen		Well Number: 31
Well Type: Development Well	Well Country: United States of America	
H2S Present:	Well State: Colorado	Well County: Moffat

Primary Cement Job= Casing job, Liner job, or Tie-back job.	
Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs?	Both
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	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