
WEXPRO COMPANY E-BILL

**Carl Allen 40
POWDER WASH
Moffat County, Colorado**

Cement Production Casing

14-Jan-2012

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2900509	Quote #:	Sales Order #: 9193513
Customer: WEXPRO COMPANY E-BILL		Customer Rep: SST-88, Wexpro	
Well Name: Carl Allen	Well #: 40	API/UWI #: 05-081-07645	
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description: Section 28 Township 12N Range 97W			
Contractor: Wexpro		Rig/Platform Name/Num: SST 88	
Job Purpose: Cement Production Casing			
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: VOLNER, THOMAS	Srvc Supervisor: CAUDILL, BRIAN	MBU ID Emp #: 433515	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERRY, TYREE Douglas	8	490164	CAUDILL, BRIAN David	8	433515	DICKENSON, STEVEN Patrick	8	444481
PUGMIRE, DUANE	8	353129	white, jared	8	511644			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025037C	65 mile	10025113C	65 mile	10295091C	65 mile	10998520	65 mile
11041166	65 mile	11139332	65 mile	11360547	65 mile	11380725	65 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1/14/12	8	4						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name							Date	Time	Time Zone
Formation Depth (MD)	Top			Bottom		Called Out	14 - Jan - 2012	06:00	MST
Form Type			BHST			On Location	14 - Jan - 2012	11:00	MST
Job depth MD	9508. ft		Job Depth TVD			Job Started	14 - Jan - 2012	16:04	MST
Water Depth			Wk Ht Above Floor		4. ft	Job Completed	14 - Jan - 2012	18:31	MST
Perforation Depth (MD)	From			To		Departed Loc	14 - Jan - 2012	20:00	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
Surface Casing		9.625	8.921	36.		J-55	.	1530.		
7.875 Open Hole			7.875				1530	9508.		
4 1/2" Production Casing		4.5	3.92	13.5		P-110	.	9508.		

Sales/Rental/3rd Party (HES)

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

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	COMP
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	4.5	1	HES
Stage Tool										Centralizers	4.5	42	COMP

Sold To #: 343491

Ship To #: 2900509

Quote # :

Sales Order # :

9193513

SUMMIT Version: 7.3.013

Monday, January 23, 2012 03:03:00



Cementing Job Log

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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	20.00	bbl	8.4	.0	.0	2.0	
	42 gal/bbl	FRESH WATER							
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)							
2	ExtendaCem RS1	EXTENDACEM (TM) SYSTEM (452981)	480.0	sacks	11.5	2.63	15.50	6.0	15.50
	0.8 %	HR-7 (100005055)							
	0.3 %	D-AIR 5000, 50 LB SACK (102068797)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	0.25 lbm	KWIK SEAL, SK (100064010)							
	15.50 Gal	FRESH WATER							
3	EconoCem RS-13	ECONOCEM (TM) SYSTEM (452992)	1270.0	sacks	14.2	1.26	5.52	6.0	5.52
	0.2 %	HR-5, 50 LB SK (100005050)							
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	0.25 lbm	KWIK SEAL, SK (100064010)							
	5.52 Gal	FRESH WATER							
4	Displacement		141.5	bbl	8.4	.0	.0	6.0	
	0.1 gal/bbl	CLAYFIX 3, TOTETANK (101583425)							
Calculated Values		Pressures		Volumes					
Displacement	141.0	Shut In: Instant		Lost Returns		Cement Slurry	509.7	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	130	Actual Displacement	141.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	671.2
Rates									
Circulating	9	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	15 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					

Sold To #: 343491

Ship To #: 2900509

Quote #:

Sales Order #:

9193513

SUMMIT Version: 7.3.013

Monday, January 23, 2012 03:03:00

Planned Pump Schedule

Wexpro Carl Allen 40 Production Casing

1. Pressure Test HES Lines

2. Pump Spacer

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)	Surfactants
2a.	Mud Flush III	8.4	20	3	

3. Pump Cement

	Name	Density (lb/gal)	Slurry Volume (bbls)	Rate (bpm)	Mix Water Required (bbls)
3a.	ExtendaCem RS1-Lead	11.5	225.2	5	177.2
3b.	EconoCem RS13-Tail	14.2	284.8	5	166.9

4. Shutdown, Wash Pumps and Lines, Drop Top Plug

5. Displacement

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)
5a.	Clayfix Water	8.34	121.0	5
5b.	Clayfix Water	8.34	20.0	2



Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2900509	Quote #:	Sales Order #: 9193513
Customer: WEXPRO COMPANY E-BILL		Customer Rep: SST-88, Wexpro	
Well Name: Carl Allen	Well #: 40	API/UWI #: 05-081-07645	
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description: Section 28 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 88	
Job Purpose: Cement Production Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Production Casing	
Sales Person: VOLNER, THOMAS		Srv Supervisor: CAUDILL, BRIAN	MBU ID Emp #: 433515

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	01/14/2012 06:00							REQUESTED ON LOCATION AT 12:00
Pre-Convoy Safety Meeting	01/14/2012 08:55							DISCUSS DRIVING HAZARDS
Depart from Service Center or Other Site	01/14/2012 09:00							DEPART SERVICE CENTER
Arrive At Loc	01/14/2012 11:00							
Assessment Of Location Safety Meeting	01/14/2012 11:05							
Pre-Rig Up Safety Meeting	01/14/2012 11:08							DISCUSS HAZARDS OF RIGGING UP
Rig-Up Equipment	01/14/2012 11:10							RIG UP
Wait on Customer or Customer Sub-Contractor Equip	01/14/2012 12:30							CASING ON BOTTOM AT 15:30 CIRCULATING AT 9 BBL/MIN 830 PSI WITH 2000 UNITS OF GAS
Pre-Rig Up Safety Meeting	01/14/2012 15:45							SAFETY MEETING WITH CO MAN AND RIG CREW
Rig-Up Equipment	01/14/2012 15:55							RIG UP FLOOR
Pump Water	01/14/2012 16:04	1	2	3	3		50.0	PUMP 3 BBLS WATER TO FILL LINE
Pressure Test	01/14/2012 16:07	2						TEST PRESSURE TO 8200 PSI, NO LEAKS
Pump Spacer	01/14/2012 16:08	3	2	20	23		383.0	PUMP 20 BBLS MUD FLUSH III
Pump Lead Cement	01/14/2012 16:15	4	5	224.8	224.8		720.0	PUMP 480 SKS EXTENDA CEM RS1 LEAD CEMENT AT 11.5 LB/GAL 2.36 CUFT/SK 15.50 GAL/SK

Sold To # : 343491

Ship To # :2900509

Quote # :

Sales Order # :

9193513

SUMMIT Version: 7.3.013

Monday, January 23, 2012 03:03:00

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume Bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	01/14/2012 16:58	5	5	284.9	509.7		494.0	PUMP 1270 SKS ECONO CEM RS13 TAIL CEMENT AT 14.2 LB/GAL 1.26 CUFT/SK 5.52 GAL/SK
Shutdown	01/14/2012 17:48	6						SHUT DOWN
Drop Top Plug	01/14/2012 17:48	6						DROP TOP PLUG WITNESSED BY CO MAN
Wash Lines	01/14/2012 17:48	7						WASH PUMPS AND LINES
Pump Displacement	01/14/2012 17:57	8	6	130	130		133.0	PUMP CLAYSURF H2O DISPLACEMENT
Slow Rate	01/14/2012 18:21	9	2	11.5	141.5		2406. 0	PUMP CLAYSURF H2O DISPLACEMENT
Bump Plug	01/14/2012 18:27	10	2				3440	BROUGHT FINAL CIRCULATING PRESSURE TO 3440 PSI
Check Floats	01/14/2012 18:31	11						FLOATS HELD WITH .5 BBLs BACK TO TRUCK
Pre-Rig Down Safety Meeting	01/14/2012 18:34							DISCUSS HAZARDS OF RIGGING DOWN
Rig-Down Equipment	01/14/2012 18:35							RIG DOWN
Pre-Convoy Safety Meeting	01/14/2012 19:30							DISCUSS DRIVING HAZARDS
Depart Location for Service Center or Other Site	01/14/2012 20:00							DEPART LOCATION
Other	01/14/2012 20:01							GOOD FULL RETURNS THROUGH OUT JOB WITH 20 BBLs OF SPACER AND 130 BBLs OF CEMENT BACK TO SURFACE
Other	01/14/2012 20:02							THANK YOU FROM BRAIN CAUDILL AND CREW

Sold To # : 343491

Ship To # :2900509

Quote # :

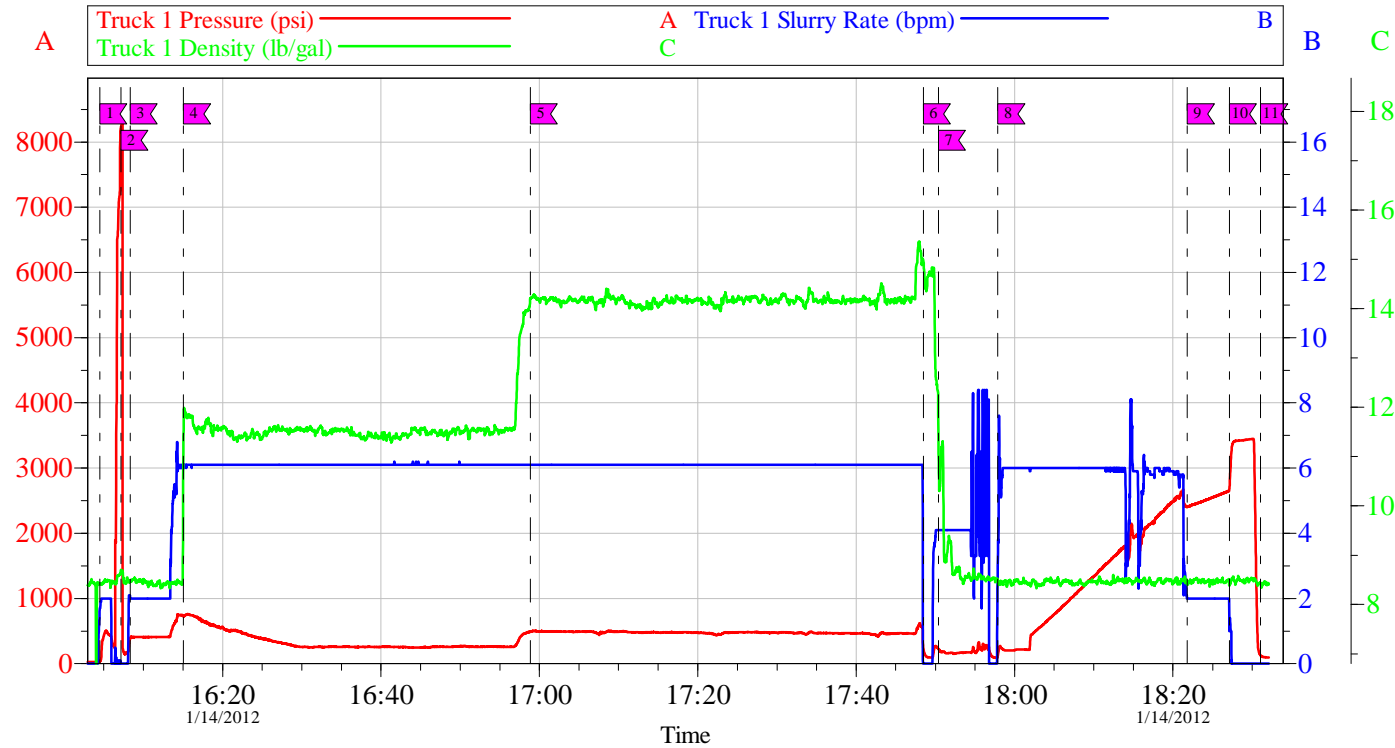
Sales Order # : 9193513

SUMMIT Version: 7.3.013

Monday, January 23, 2012 03:03:00

Cementing Job Log

WEXPRO CARL ALLEN WELL # 40 PRODUCTION MOFFAT CO.



Local Event Log																	
Intersection					TIP	TISR	TID	Intersection					TIP	TISR	TID		
1	FILL LINES	16:04:30	32.31	1.700	8.430	2	PRESSURE TEST	16:07:10	8223	0.000	8.700	3	PUMP SPACER	16:08:21	383.8	2.000	8.466
4	PUMP LEAD CEMENT	16:15:04	720.2	6.100	11.52	5	PUMP TAIL CEMENT	16:58:52	494.2	6.100	14.21	6	SHUTDOWN/DROP PLUG	17:48:28	243.0	0.000	14.97
7	WASH PUMPS	17:50:24	225.7	4.100	11.15	8	START DISPLACEMENT	17:57:53	133.6	3.329	8.474	9	SLOW RATE	18:21:49	2406	2.000	8.411
10	BUMP PLUG	18:27:08	2696	1.212	8.391	11	CHECK FLOATS	18:31:04	124.2	0.000	8.440						

Customer: WEXPRO
Well Description: CARL ALLAN # 40

Job Date: 14-Jan-2012
JOB TYPE PRODUCTION

Sales Order #: 9193513
SUPERVISOR B. CAUDILL

OptiCem v6.4.9
14-Jan-12 18:32

Sold To #: 343491

Ship To #: 2900509

Quote #:

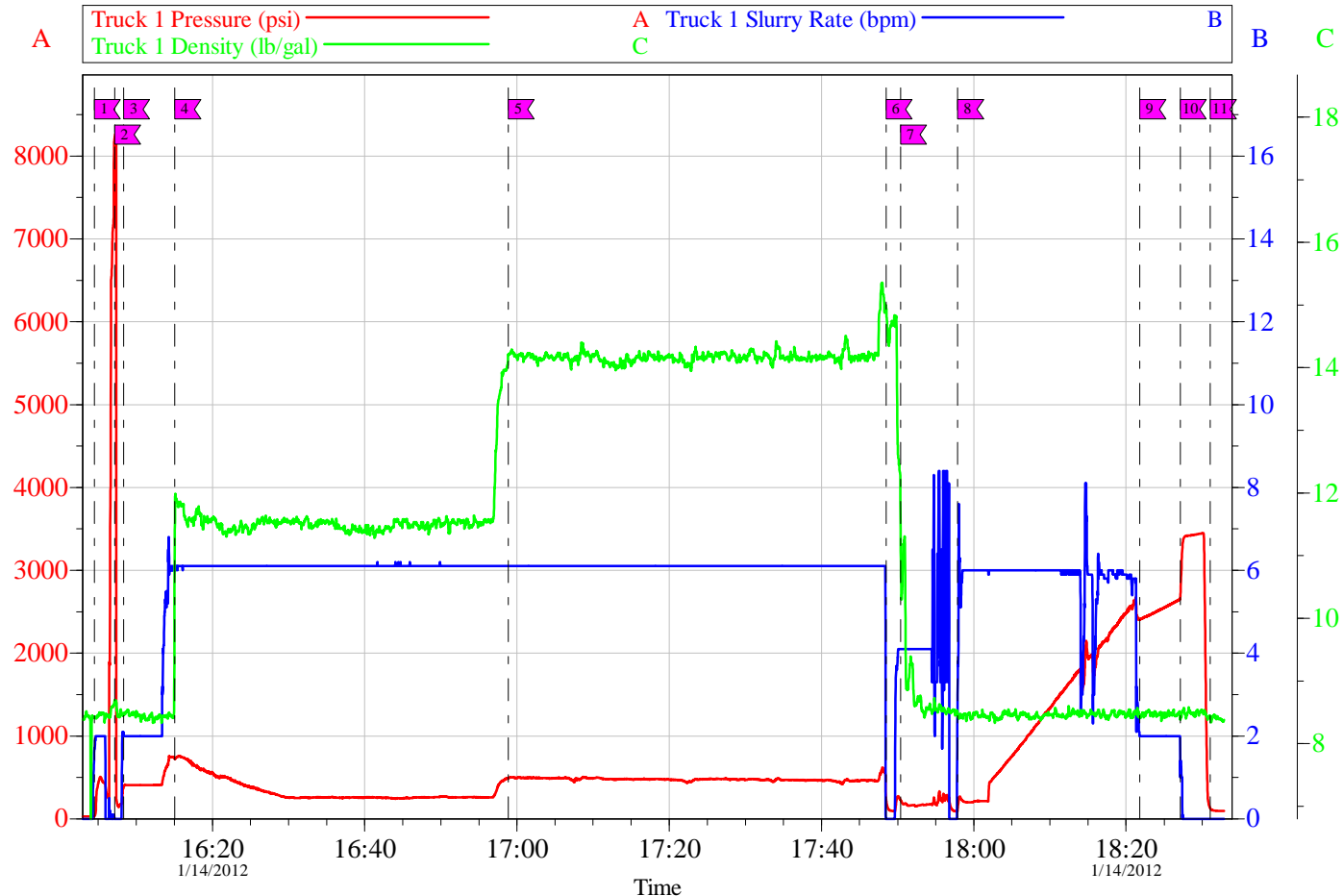
Sales Order #: 9193513

SUMMIT Version: 7.3.013

Monday, January 23, 2012 03:03:00

Cementing Job Summary

WEXPRO CARL ALLEN WELL # 40 PRODUCTION MOFFAT CO.



Customer: WEXPRO
 Well Description: CARL ALLAN # 40

Job Date: 14-Jan-2012
 JOB TYPE PRODUCTION

Sales Order #: 9193513
 SUPERVISOR B. CAUDILL

OptiCem v6.4.9
 14-Jan-12 18:32

HALLIBURTON

Water Analysis Report

COMPANY: WEXPRO

Date Recorded 1/14/2012

SUBMITTED BY: B. CAUDILL

SO# 9193513

LEASE: CARL ALLEN

Job Type PRODUCTION

WELL #: 40

Camp Location ROCKSPRINGS WY

CEMENT MIX WATER REQUIREMENTS

Item	Recorded Test Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit
pH	6	----	6.0 - 8.0	Chemicals in the water can cause severe retardation
Chlorides	0	ppm	3000 ppm	Can shorten thickening time of cement
Sulfates	<200	ppm	1500 ppm	Will greatly decrease the strength of cement
Total Hardness	120	ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium	10	ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity	80	ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH ≥ 8.3).
Potassium	400	ppm	5000 ppm	High concentrations will shorten the pump time of cement (indicates the presence of chlorides, therefore if Potassium levels
Iron	0	ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature	77	°F	50-80 °F	High temps will accelerate; Low temps may risk freezing in cold weather

Item	Approximate Calculated Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit - Calculation Method
Magnesium	110	ppm	300 ppm	High concentrations will accelerate the set of the cement

Submitted Respectfully by: _____