

---

**WEXPRO COMPANY E-BILL**

---

**Jacks Draw 18  
POWDER WASH  
Moffat County, Colorado**

**Cement Production Casing**  
11-November-2011

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343491	<b>Ship To #:</b> 2881002	<b>Quote #:</b>	<b>Sales Order #:</b> 8522463
<b>Customer:</b> WEXPRO COMPANY E-BILL		<b>Customer Rep:</b> SST 88, Wexpro	
<b>Well Name:</b> Jacks Draw		<b>Well #:</b> 18	<b>API/UWI #:</b> 05-081-07635
<b>Field:</b> POWDER WASH	<b>City (SAP):</b> CRAIG	<b>County/Parish:</b> Moffat	<b>State:</b> Colorado
<b>Legal Description:</b> Section 10 Township 11N Range 92W			
<b>Contractor:</b> Wexpro		<b>Rig/Platform Name/Num:</b> SST-88	
<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>Srvc Supervisor:</b> NELSON, CODY	<b>MBU ID Emp #:</b> 460315

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEAN, BENNIE Lee	5	487632	LEATHAM, AARON J	5	481938	MADINGER, ROBERT W	5	451816
NELSON, CODY Curtis	5	460315	PAYZANT, GARY Fred	5	380528			

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11501585	100 mile	11127552	100 mile	10789198	100 mile	10998522	100 mile
11700026	100 mile	11127999	100 mile	10623677	100 mile	10025023	100 mile

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/10/2011	1	0	11/11/2011	4	3			

**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	10 - Nov - 2011	18:30	MST
Form Type	BHST		Job Started	10 - Nov - 2011	23:00	MST
Job depth MD	9086. ft	Job Depth TVD	Job Started	11 - Nov - 2011	06:20	MST
Water Depth		Wk Ht Above Floor	Job Completed	11 - Nov - 2011	08:37	MST
Perforation Depth (MD)	From	To	Departed Loc	11 - Nov - 2011	09:30	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	.	1525.		
Production Open Hole			7.875				1525.	9086.		
Production Casing		4.5	3.92	13.5		P-110	.	9086.		

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

Description	Qty	Qty uom	Depth	Supplier
MICRO MATRIX RETARDER	2	GAL		
PLUG,CMTG, TOP,4 1/2,HWE,3.65 MIN/4.14 MA	1	EA		
PLUG,CMTG,BOT,4 1/2,HWE,3.65 MIN/4.14 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	4.5	1	HES
Float Shoe					Bridge Plug					Bottom Plug	4.5	1	HES
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 ft3/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			4	
	42 gal/bbl	FRESH WATER									
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)									
2	ExtendaCem RS1	EXTENDACEM (TM) SYSTEM (452981)			530.0	sacks	11.5	2.63	15.47	6	15.47
	0.8 %	HR-7 (100005055)									
	0.3 %	D-AIR 5000 (101007446)									
	0.125 lbm	POLY-E-FLAKE (101216940)									
	0.25 lbm	KWIK SEAL, SK (100064010)									
	15.47 Gal	FRESH WATER									
3	EconoCem RS13	ECONOCEM (TM) SYSTEM (452992)			1335.0	sacks	14.2	1.26	5.52	6	5.52
	0.2 %	HR-5, 50 LB SK (100005050)									
	0.125 lbm	POLY-E-FLAKE (101216940)									
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)									
	0.25 lbm	KWIK SEAL, SK (100064010)									
	5.52 Gal	FRESH WATER									
4	ClaySurf EZ				150.00	bbl	8.4			6	
	0.1 gal/bbl	CLAYSURF-EZ, TOTETANK (101532967)									
Calculated Values			Pressures			Volumes					
Displacement	135	Shut In: Instant			Lost Returns		Cement Slurry		548	Pad	
Top Of Cement	SURFACE	5 Min			Cement Returns		160	Actual Displacement		135	Treatment
Frac Gradient		15 Min			Spacers		25	Load and Breakdown		Total Job 708	
Rates											
Circulating		Mixing		7	Displacement		7	Avg. Job		7	
Cement Left In Pipe		Amount	46 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						

**PLANNED PUMP SCHEDULE**

**Wexpro Jacks Draw 18 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	4	

**3. Pump Cement**

	Name	Density (lb/gal)	Slurry Volume (bbls)	Rate (bpm)	Mix Water Required (bbls)
3a.	ExtendaCem RS1-Lead	11.5	248.4	6	195.2
3b.	EconoCem RS13-Tail	14.2	299.4	6	175.5

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

**5. Displacement**

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)
5a.	Clayfix Water	8.4	120.0	6
5b.	Clayfix Water	8.4	14.6	2

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 343491	<b>Ship To #:</b> 2881002	<b>Quote #:</b>	<b>Sales Order #:</b> 8522463
<b>Customer:</b> WEXPRO COMPANY E-BILL		<b>Customer Rep:</b> SST 88, Wexpro	
<b>Well Name:</b> Jacks Draw		<b>Well #:</b> 18	<b>API/UWI #:</b> 05-081-07635
<b>Field:</b> POWDER WASH	<b>City (SAP):</b> CRAIG	<b>County/Parish:</b> Moffat	<b>State:</b> Colorado
<b>Legal Description:</b> Section 10 Township 11N Range 92W			
<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 88	
<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> NELSON, CODY	<b>MBU ID Emp #:</b> 460315

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/10/2011 18:30							
Depart Yard Safety Meeting	11/10/2011 20:30							
Arrive at Location from Other Job or Site	11/10/2011 23:00							
Pre-Rig Up Safety Meeting	11/10/2011 23:10							
Rig-Up Equipment	11/10/2011 23:15							
Rig-Up Completed	11/10/2011 23:55							
Wait on Customer or Customer Sub-Contractor Equip	11/11/2011 00:00							WAIT FOR RIG TO RUN CASING.
Wait on Customer or Customer Sub-Contractor Equipment	11/11/2011 06:00							
Pre-Job Safety Meeting	11/11/2011 06:00							
Rig-Up Equipment	11/11/2011 06:15							RIG UP FLOOR.
Start Job	11/11/2011 06:20							
Pump Water	11/11/2011 06:21		3	5	5		125.0	FILL PUMPS AND LINES.
Pressure Test	11/11/2011 06:23							TEST HES LINES TO 8000 PSI.
Pump Spacer	11/11/2011 06:24		7	20	25		657.0	PUMPED MUD FLUSH III SPACER.
Pump Lead Cement	11/11/2011 06:31		7	248	248		890.0	MIX AND PUMP 530 SKS OF EXTENDACEMN RS1-LEAD AT 11.5 LB/GAL, 2.63 FT/SK, 15.47 GAL/SK.

Sold To # : 343491

Ship To # :2881002

Quote # :

Sales Order # :

8522463

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	11/11/2011 07:11		7	300	<b>548</b>		406.	MIX AND PUMP 1335 SKS OF ECONOCEM RS13- TAIL AT 14.2 LB/GAL, 1.26 FT/SK, 5.52 GAL/SK.
Shutdown	11/11/2011 07:57							DROP TOP PLIUG.
Pump Displacement	11/11/2011 08:05		7	115	115		2200.	PUMP CLAYSURF DISPLACEMENT.
Slow Rate	11/11/2011 08:23		2	20	<b>135</b>		2380.	
Bump Plug	11/11/2011 08:33						2850.	
Check Floats	11/11/2011 08:35							FLOATS HELD WITH 1.5 BBLS BACK TO THE TRUCK.
End Job	11/11/2011 08:37							HAD FULL RETURNS THROUGHOUT THE JOB AND GOT 160 BBLS OF CEMENT TO SURFACE.
Post-Job Safety Meeting (Pre Rig-Down)	11/11/2011 08:40							
Rig-Down Equipment	11/11/2011 08:45							
Rig-Down Completed	11/11/2011 09:15							
Pre-Convoy Safety Meeting	11/11/2011 09:20							
Crew Leave Location	11/11/2011 09:30							

**HALLIBURTON**

Cementing

# Water Analysis Report

COMPANY: WEXPRO Date Recorded 11/10/2011

SUBMITTED BY: CODY NELSON SO# 8522463

LEASE: JACKS DRAW Job Type PRODUCTION

WELL #: 18 Camp Location Rock Springs WYO

Page 1

**CEMENT MIX WATER REQUIREMENTS**

Item	Recorded Test Value	Units	Max. Acceptable Limit	Potential Problems in Exceeding Limit
pH	7	----	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	0	ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium	0	ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity	180	ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH ≥ 8.3).
Iron	0	ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature	80	°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	0	ppm	300 ppm	High concentrations will accelerate the set of the cement