
WEXPRO COMPANY E-BILL

**Jacks Draw 20
POWDER WASH
Moffat County, Colorado**

Cement Production Casing
29-Oct-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2881003	Quote #:	Sales Order #: 8522465
Customer: WEXPRO COMPANY E-BILL		Customer Rep: SST 88, Wexpro	
Well Name: Jacks Draw		Well #: 20	API/UWI #: 05-081-07634
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
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: 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 #
DEAN, BENNIE Lee		487632	MCCOY, STEVE Allen		416547	NUNEZ HUERTA, RICARDO		391224
PAYZANT, GARY Fred		380528	YOKUM, RICKY Lynn		473832			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10322492C	100 mile	10741111	100 mile	10867409	100 mile	10998520	100 mile
11106721	100 mile	11220999	100 mile	11288862	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
10-29-11	5	4	10-30-11	1	1			

TOTAL Total is the sum of each column separately

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	29 - Oct - 2011	13:30	MST
Form Type	BHST	205 degF	On Location	29 - Oct - 2011	19:00	MST
Job depth MD	9436. ft	Job Depth TVD	Job Started	29 - Oct - 2011	21:07	MST
Water Depth		Wk Ht Above Floor	Job Completed	29 - Oct - 2011	23:23	MST
Perforation Depth (MD)	From	To	Departed Loc	30 - Oct - 2011	01:00	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				1532.	9436.		
Production Casing		4.5	3.92	13.5		P-110	.	9436.		
Surface Casing		9.625	8.921	36.		J-55	.	1532.		

Sales/Rental/3rd 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	COMP
Float Shoe					Bridge Plug					Bottom Plug			
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	MUD FLUSH III	MUD FLUSH III - SBM (528788)			20.00	bbl	8.4	.0	.0	2		
	42 gal/bbl	FRESH WATER										
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)										
2	ExtendaCem RS1	EXTENDACEM (TM) SYSTEM (452981)			600.0	sacks	11.5	2.63	15.47	7	15.47	
	0.8 %	HR-7 (100005055)										
	0.3 %	D-AIR 3000 (101007446)										
	0.125 lbm	POLY-E-FLAKE (101216940)										
	0.25 lbm	KWIK SEAL, SK (100064010)										
	15.46 Gal	FRESH WATER										
3	EconoCem RS13	ECONOCCEM (TM) SYSTEM (452992)			1095.0	sacks	14.2	1.26	5.52	7	5.52	
	0.18 %	HR-5, 50 LB SK (100005050)										
	20 %	SAND-SSA-1 - SILICA FLOUR - 200 MESH, BULK (100003691)										
	0.125 lbm	POLY-E-FLAKE (101216940)										
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)										
	0.25 lbm	KWIK SEAL, SK (100064010)										
	6.516 Gal	FRESH WATER										
4	ClaySurf EZ				140.00	bbl	8.4	.0	.0	7		
	0.1 gal/bbl	CLAYSURF-EZ, TOTETANK (101532967)										
Calculated Values		Pressures			Volumes							
Displacement	140	Shut In: Instant			Lost Returns	0	Cement Slurry	527	Pad			
Top Of Cement		5 Min			Cement Returns	80	Actual Displacement	140	Treatment			
Frac Gradient		15 Min			Spacers	20	Load and Breakdown		Total Job	687		
Rates												
Circulating	8	Mixing	7		Displacement	7		Avg. Job	7			
Cement Left In Pipe	Amount	13 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 20 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	281.2	6	221.0
3b.	EconoCem RS13-Tail	14.2	245.6	6	143.9

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

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)
5a.	Clayfix Water	8.4	121.0	6
5b.	Clayfix Water	8.4	20.0	2

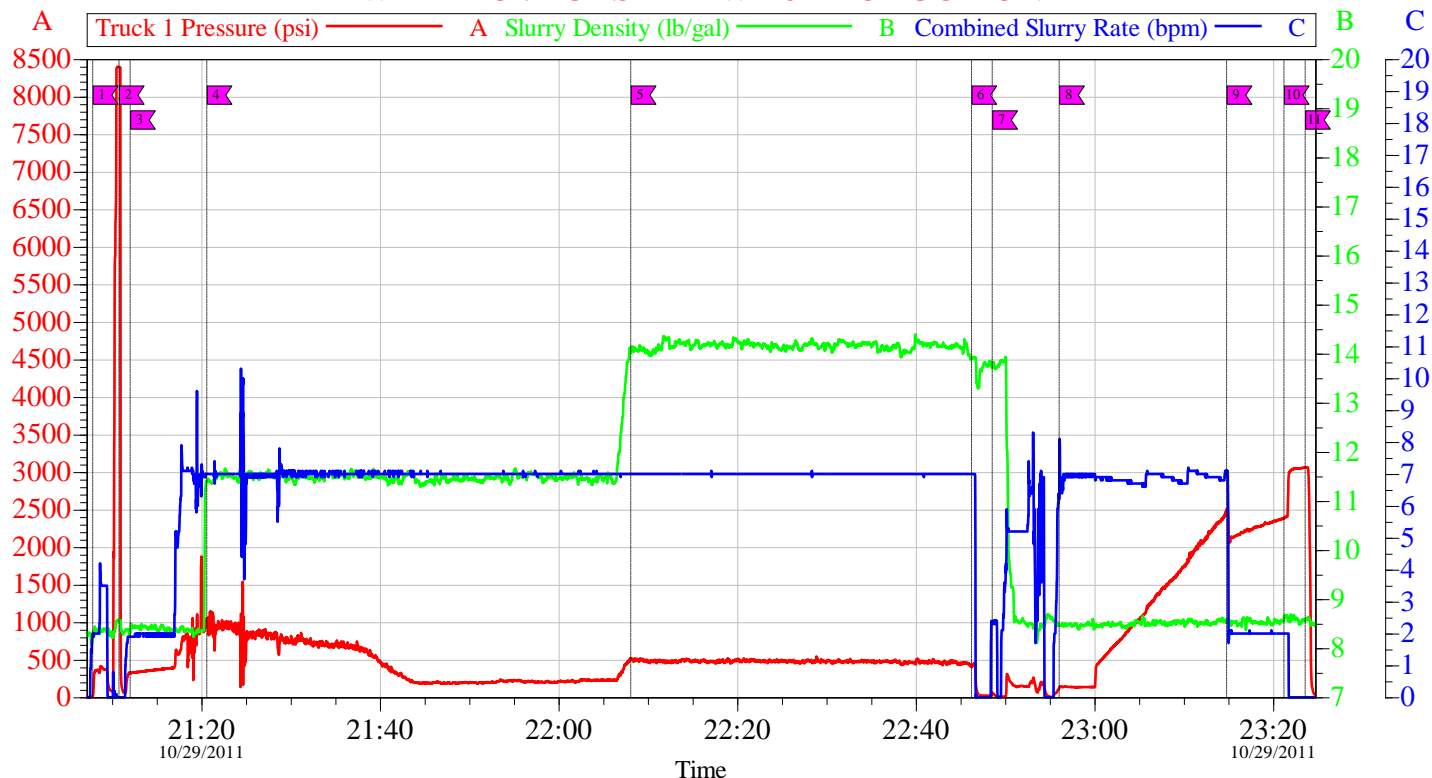
The Road to Excellence Starts with Safety

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Customer: WEXPRO COMPANY E-BILL		Customer Rep: SST 88, Wexpro	
Well Name: Jacks Draw	Well #: 20	API/UWI #: 05-081-07634	
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description:			
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		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	10/29/2011 13:30							
Pre-Convoy Safety Meeting	10/29/2011 16:55							
Depart from Service Center or Other Site	10/29/2011 17:00							
Arrive At Loc	10/29/2011 19:00							REQUESTED ON LOCATION @ 1900
Assessment Of Location Safety Meeting	10/29/2011 19:15							
Rig-Up Equipment	10/29/2011 19:30							
Pre-Job Safety Meeting	10/29/2011 20:45							RIG CIRCULATED WELL @ 8 BPM 680 PSI NO GAS
Rig-Up Equipment	10/29/2011 20:55							RIG UP FLOOR
Pump Water	10/29/2011 21:07	1	3	5	5		330.0	FILL LINES
Pressure Test	10/29/2011 21:10	2					8397.0	GOOD TEST NO LEAKS
Pump Spacer	10/29/2011 21:12	3	2	20	20		330.0	PUMPED MUD FLUSH
Pump Lead Cement	10/29/2011 21:20	4	7	281	281		1008.0	MIXED & PUMPED 600 SKS EXTENDA CEM RS1 @ 11.5 PPG, 2.63 Y, 15.47 GPS
Pump Tail Cement	10/29/2011 22:08	5	7	246	527		508.0	MIXED & PUMPED 1095 SKS ECONOCER RS13 @ 14.2 PPG, 1.26 Y, 5.52 GPS
Shutdown	10/29/2011 22:46	6						
Drop Top Plug	10/29/2011 22:46	6						

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	10/29/2011 22:48	7						WASH PUMPS & LINES TO PIT
Pump Displacement	10/29/2011 22:56	8	7	125	125		152.0	CLAYSURF WATER
Slow Rate	10/29/2011 23:14	9	2	15	140			CLAYSURF WATER
Bump Plug	10/29/2011 23:21	10	2				2389. 0	BROUGHT UPTO 500 PSI OVER FINAL CIRCULATING PRESSURE WITH 140 BBLs AWAY IN DISPLACEMENT
Check Floats	10/29/2011 23:23	11						FLOATS HELD 1.5 BBLs BACK TO TRUCK
Post-Job Safety Meeting (Pre Rig-Down)	10/29/2011 23:30							
Rig-Down Equipment	10/29/2011 23:40							
Pre-Convoy Safety Meeting	10/30/2011 00:55							
Depart Location for Service Center or Other Site	10/30/2011 01:00							
Cement Returns to Surface	10/30/2011 01:01							80 BBLs CEMENT TO SURFACE
Other	10/30/2011 01:01							GOOD FULL RETURNS THROUGHOUT JOB

WEXPRO JACKS DRAW 20 PRODUCTION



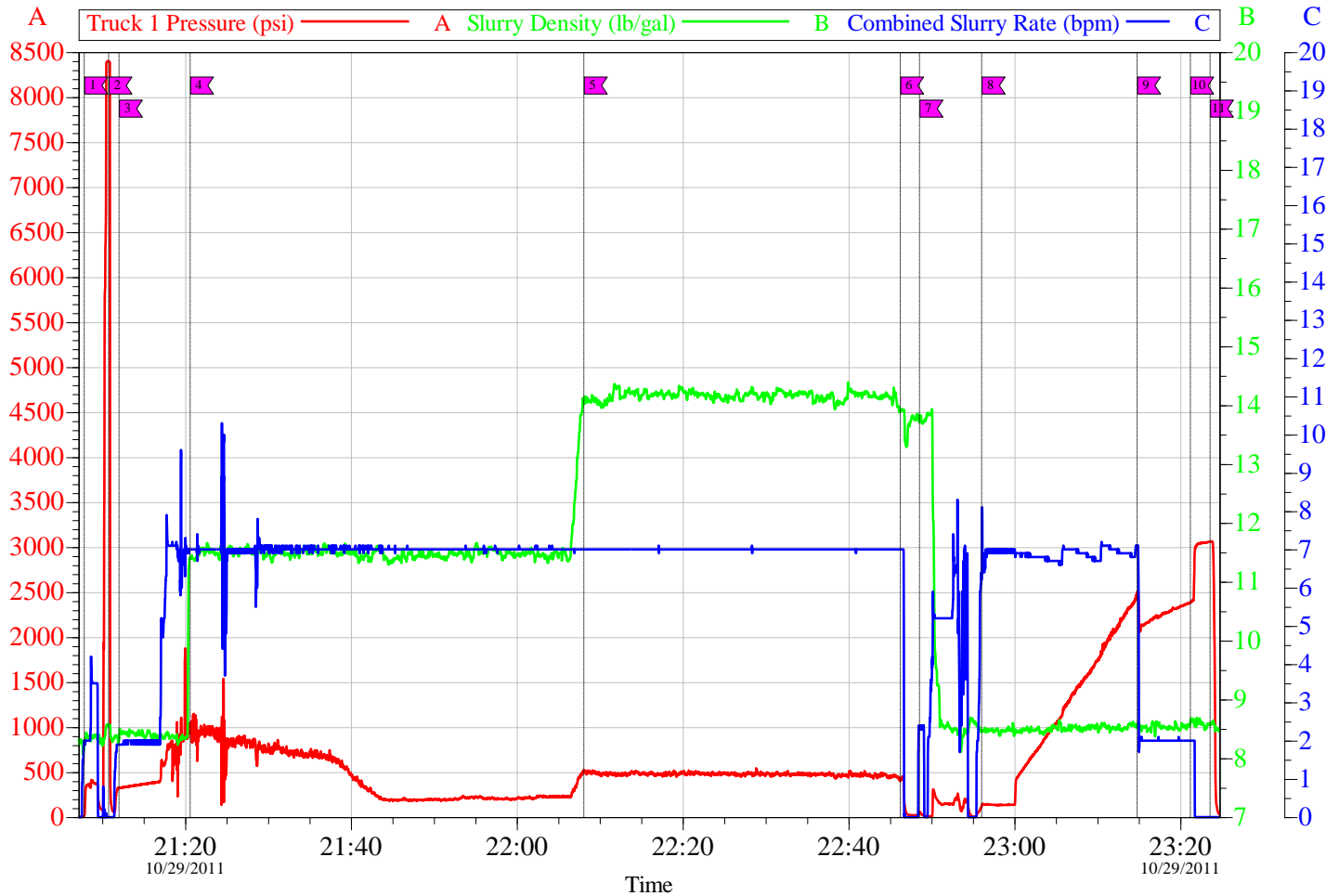
Local Event Log

Intersection		TIP	SD	CSR	Intersection		TIP	SD	CSR	Intersection		TIP	SD	CSR
1 FILL LINES	21:07:50	19.17	8.295	2.000	2 TEST LINES	21:10:46	8397	8.570	0.000	3 PUMP MUD FLUSH	21:12:01	327.1	8.311	1.900
4 PUMP LEAD CEMENT	21:20:36	1008	11.40	7.000	5 PUMP TAIL CEMENT	22:08:05	508.8	14.06	7.000	6 SHUTDOWN/ DROP PLUG	22:46:13	418.7	13.91	7.000
7 WASH PUMPS & LINES	22:48:33	52.21	13.75	2.300	8 PUMP DISPLACEMENT	22:56:03	118.0	8.470	6.286	9 SLOW RATE	23:14:48	2452	8.580	7.095
10 BUMP PLUG	23:21:12	2389	8.598	2.000	11 CHECK FLOATS	23:23:35	3061	8.560	0.000					

Customer: WEXPRO	Job Date: 29-Oct-2011	Sales Order #: 8522465
Well Description: JACKS DRAW 20	Job Type: PRODUCTION	Supervisor: STEVE MCCOY

OptiCem v6.4.10
29-Oct-11 23:27

WEXPRO JACKS DRAW 20 PRODUCTION



Customer: WEXPRO	Job Date: 29-Oct-2011	Sales Order #: 8522465	OptiCem v6.4.10 29-Oct-11 23:28
Well Description: JACKS DRAW 20	Job Type: PRODUCTION	Supervisor: STEVE MCCOY	

HALLIBURTON

Cementing

Water Analysis Report

COMPANY: WEXPRO Date Recorded 10/29/2011

SUBMITTED BY: STEVE MCCOY SO# 8522465

LEASE: JACKS DRAW Job Type PRODUCTION

WELL #: 20 Camp Location ROCK SPRINGS

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	250	ppm	1500 ppm	Will greatly decrease the strength of cement
Total Hardness	50	ppm	500 mg/L	High concentrations will accelerate the set of the cement
Calcium	35	ppm	500 ppm	High concentrations will accelerate the set of the cement
Total Alkalinity	120	ppm	1000 ppm	Cement is greatly retarded to the point where it may not set up at all (typically occurs @ pH ≥ 8.3).
Iron	0.3	ppm	300 ppm	High concentrations will accelerate the set of the cement
Temperature	42	°F	50-80 °F	High temps will accelerate; Low temps may risk freezing in cold weather