
WEXPRO COMPANY E-BILL

**Jacks Draw 20
Powder Wash
Moffat County, Colorado**

Cement Surface Casing
19-Oct-2011

Post Job Report

The Road to Excellence Starts with Safety

Sold To #: 343491	Ship To #: 2881003	Quote #:	Sales Order #: 8522462
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: Section 10 Township 11N Range 92W			
Contractor: Wexpro		Rig/Platform Name/Num: SST 88	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: VOLNER, THOMAS		Srvc Supervisor: LEATHAM, TRINITY	MBU ID Emp #: 460857

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DEY, JERRY A	7	505015	LEATHAM, TRINITY Paul	13	460857	MAEDCHE, JAMES R	13	391220
MARTINEZ, FRANCISCO J	13	458086	OVITT, RUSSELL D	13	472949			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10714289C	100 mile	10951241	100 mile	11138998	100 mile	11501579	100 mile
11688380	100 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-18-2011	1.5	0	10-19-2011	11.5	2			

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	18 - Oct - 2011	18:00	MST
Form Type	BHST		Job Started	18 - Oct - 2011	22:30	MST
Job depth MD	1532. ft	Job Depth TVD	Job Completed	19 - Oct - 2011	09:13	MST
Water Depth		Wk Ht Above Floor	Job Completed	19 - Oct - 2011	10:17	MST
Perforation Depth (MD)	From	To	Departed Loc	19 - Oct - 2011	11:30	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
Conductor Pipe		16.	15.376	55.			.	80.		
Surface Openhole			12.25				80.	1500.		
Surface Casing		9.625	8.921	36.		J-55	.	1500.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
MICRO MATRIX RETARDER	2	GAL		
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
PLUG,CMTG,BOT,9 5/8,HWE,8.16 MIN/9.06 MA	0	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Type	Size	Qty	Make
Guide Shoe					Packer				Top Plug	9.625	1	HES
Float Shoe					Bridge Plug				Bottom Plug			
Float Collar					Retainer				SSR plug set			
Insert Float									Plug Container	9.625	1	HES
Stage Tool									Centralizers		7	

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size		

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	Fresh Water		20.00	bbl	8.33	.0	.0	2	
2	VariCem RS1	VARICEM (TM) CEMENT (452009)	190.0	sacks	11.4	3.08	18.95	7	18.95
	0.125 lbm	POLY-E-FLAKE (101216940)							
	0.25 lbm	KWIK SEAL, SK (100064010)							
	18.95 Gal	FRESH WATER							
3	Mountain G	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	345.0	sacks	15.8	1.15	4.99	6	4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.99 Gal	FRESH WATER							
4	Displacement Water		115.00	bbl	8.5	.0	.0	7	
Calculated Values		Pressures		Volumes					
Displacement	115	Shut In: Instant		Lost Returns	0	Cement Slurry	174	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	75	Actual Displacement	115	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	309
Rates									
Circulating	7	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 Pumped Schedule

Wexpro Jacks Draw 20 Surface**1. Pressure Test HES Lines****2. Pump Spacer**

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)	Surfactants
2a.	Water	8.33	20	4	

3. Pump Cement

	Name	Density (lb/gal)	Slurry Volume (bbls)	Rate (bpm)	Mix Water Required (bbls)
3a.	VariCem RS1-Lead	11.4	104.1	4	85.7
3b.	Premium-Tail	15.8	70.5	4	41.0

4. Shutdown, Drop Top Plug**5. Displacement**

	Name	Density (lb/gal)	Volume (bbls)	Rate (bpm)
5a.	Water	8.33	90.0	4
5b.	Water	8.33	22.5	2

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Well Name: Jacks Draw	Well #: 20	API/UWI #: 05-081-07634	
Field: POWDER WASH	City (SAP): CRAIG	County/Parish: Moffat	State: Colorado
Legal Description: Section 10 Township 11N Range 92W			
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 Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: VOLNER, THOMAS		Srvc Supervisor: LEATHAM, TRINITY	MBU ID Emp #: 460857

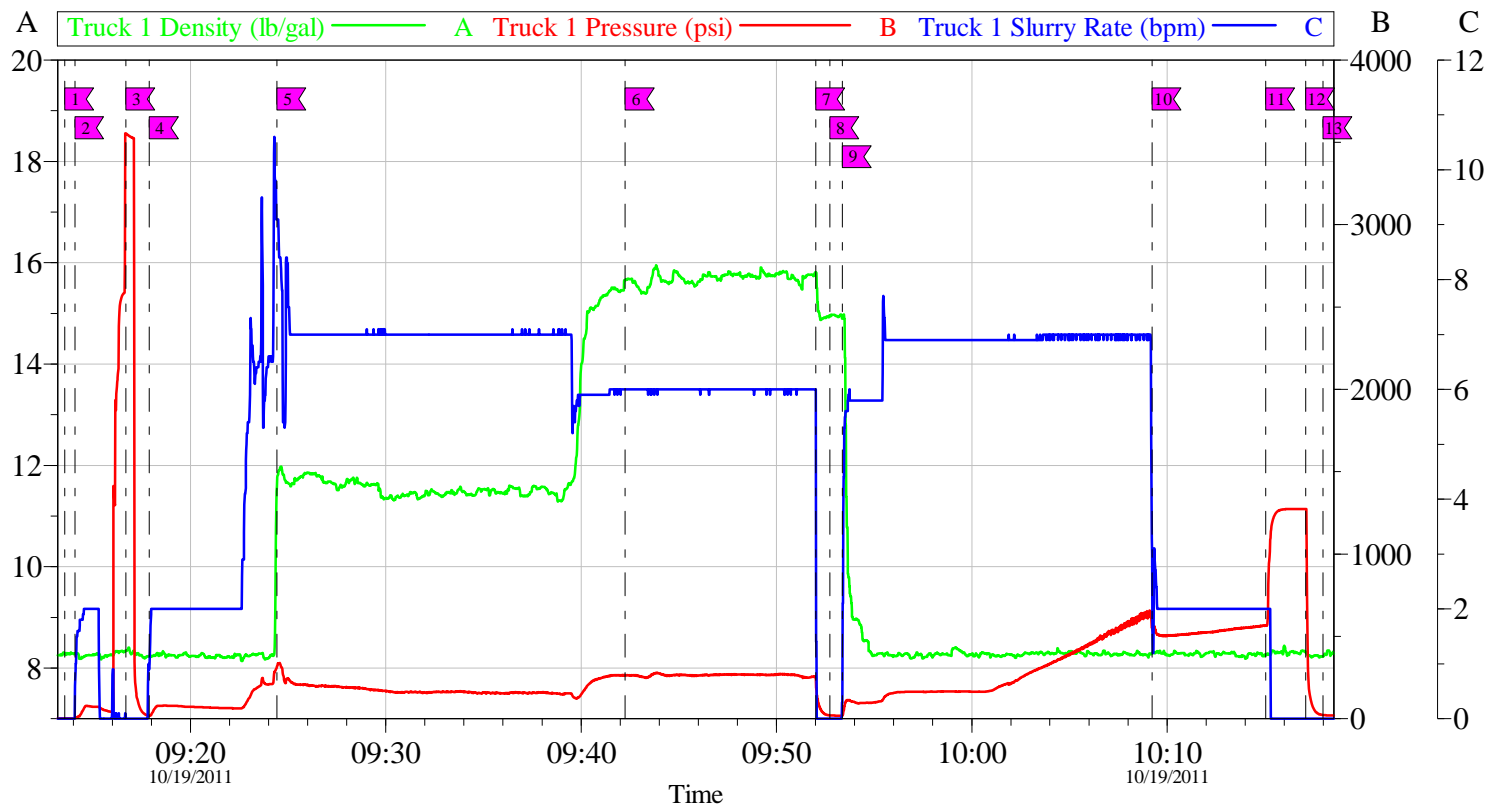
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/18/2011 18:00							CREW CALLED OUT ON WEXPRO, SST-88, JACKS DRAW, 20, SURFACE. REQUEST ON LOCATION 10/19/2011 AT 2230 HRS.
Depart Yard Safety Meeting	10/18/2011 19:30							
Crew Leave Yard	10/18/2011 19:45							
Arrive At Loc	10/18/2011 22:30							
Assessment Of Location Safety Meeting	10/18/2011 22:40							
Casing on Bottom	10/19/2011 07:30							RIG CIRCULATED 8 BPM, FOR 1 HR, 196 PSI, 9.2 PPG WBM, 480 BBLS. NO LOSSES, NO GAS.
Pre-Rig Up Safety Meeting	10/19/2011 08:20							
Rig-Up Equipment	10/19/2011 08:30							RIG UP WATER, BULK, AND IRON ON GROUND.
Pre-Job Safety Meeting	10/19/2011 08:40							WITH CO-MAN, RIG CREW, AND HES EMPLOYEES.
Rig-Up Equipment	10/19/2011 09:00							RIG UP HEAD AND IRON ON RIG FLOOR.
Start Job	10/19/2011 09:13	1						
Pump Water	10/19/2011 09:14	2	2	2	2		3.0	FILL HES LINES.
Test Lines	10/19/2011 09:16	3						TEST HES IRON TO 3554 PSI.

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Water	10/19/2011 09:17	4	2	18	20		18.0	PUMP FRESH WATER SPACER.
Pump Lead Cement	10/19/2011 09:24	5	7	104	104		317.0	190 SKS VARICEM RS1-LEAD MIXED AT 11.4 PPG, 3.08 CF/SK, 18.95 GAL/SK.
Pump Tail Cement	10/19/2011 09:42	6	6	70	174		262.0	345 SKS PREMIUM-TAIL MIXED AT 15.8 PPG, 1.15 CF/SK, 4.99 GAL/SK.
Shutdown	10/19/2011 09:52	7					255.0	
Drop Top Plug	10/19/2011 09:52	8						COMPANY MAN WITNESSED HES TOP PLUG LEAVE PLUG CONTAINER.
Pump Displacement	10/19/2011 09:53	9	7	100	100		18.0	FRESH WATER DISPLACEMENT.
Slow Rate	10/19/2011 10:09	10	2	15	115		552.0	SLOW RATE TO LAND PLUG.
Bump Plug	10/19/2011 10:15	11					566.0	
Check Floats	10/19/2011 10:17	12					1273.0	FLOATS HELD, 1 BBL BACK TO TRUCK, FULL RETURNS THROUGHOUT JOB, CIRCULATED 75 BBLS CEMENT TO SURFACE.
End Job	10/19/2011 10:17	13						NO ACCIDENTS, NO INCIDENTS.
Pre-Rig Down Safety Meeting	10/19/2011 10:20							
Rig-Down Equipment	10/19/2011 10:25							
Depart Location Safety Meeting	10/19/2011 11:20							
Crew Leave Location	10/19/2011 11:30							THANK YOU FROM HES AND CREW.

Cementing Job Log

WEXPRO JACKS DRAW 20 SURFACE



Local Event Log											
Intersection		TID	TIP	TISR	Intersection		TID	TIP	TISR	Intersection	
1 START JOB	09:13:33	8.300	2.000	0.000	2 WATER FILL LINES	09:14:05	8.282	3.000	0.114	3 TEST LINES	09:16:41
4 PUMP WATER SPACER	09:17:54	8.229	18.00	0.906	5 PUMP LEAD CEMENT	09:24:26	11.63	317.8	9.100	6 PUMP TAIL CEMENT	09:42:15
7 SHUTDOWN	09:52:01	15.81	255.0	6.000	8 DROP TOP PLUG	09:52:44	14.96	20.00	0.000	9 PUMP DISPLACEMENT	09:53:22
10 SLOW RATE	10:09:14	8.283	552.3	2.814	11 BUMP PLUG	10:15:03	8.261	566.9	2.000	12 CHECK FLOATS	10:17:06
13 END JOB	10:17:59	8.230	22.00	0.000							

Customer: WEXPRO	Job Date: 19-Oct-2011	Sales Order #: 8522462
Well Description: 20	JOB TYPE SURFACE	SUPERVISOR TRINITY LEATHAM

OptiCem v6.4.9
19-Oct-11 10:51

Sold To #: 343491

Ship To #: 2881003

Quote #:

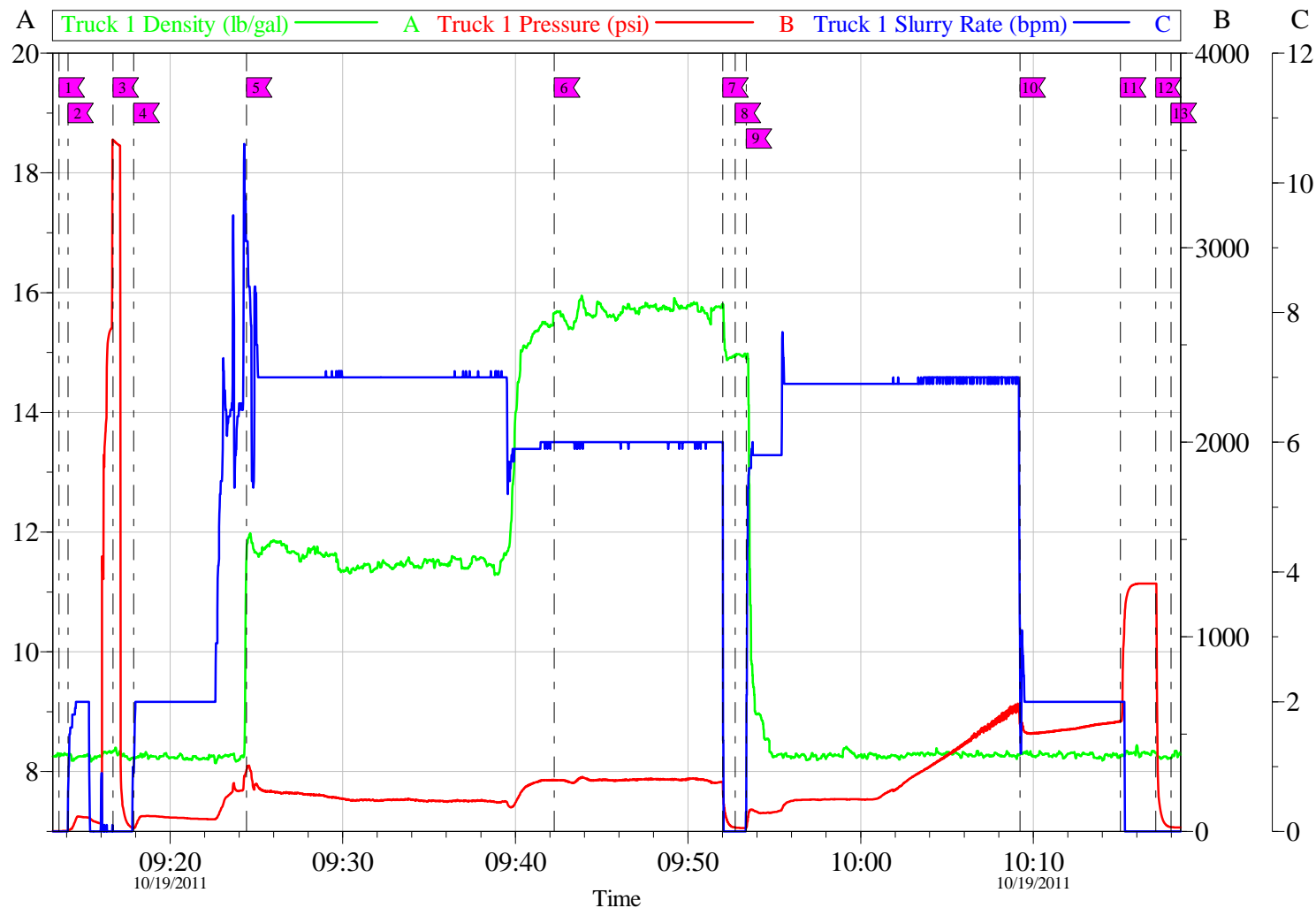
Sales Order #: 8522462

SUMMIT Version: 7.2.27

Sunday, October 23, 2011 04:06:00

Cementing Job Log

WEXPRO JACKS DRAW 20 SURFACE



Customer: WEXPRO	Job Date: 19-Oct-2011	Sales Order #: 8522462
Well Description: 20	JOB TYPE SURFACE	SUPERVISOR TRINITY LEATHAM

OptiCem v6.4.9
19-Oct-11 10:52

Sold To #: 343491

Ship To #: 2881003

Quote #:

Sales Order #: 8522462

SUMMIT Version: 7.2.27

Sunday, October 23, 2011 04:06:00

HALLIBURTON

Cementing Job Log

HALLIBURTON

Water Analysis Report

COMPANY: WEXPRO Date Recorded 10/19/2011
SUBMITTED BY: TRINITY LEATHAM SO# 8522462
LEASE: JACKS DRAW Job Type SURFACE
WELL #: 20 Camp Location ROCK SPRINGS, WY

CEMENT MIX WATER REQUIREMENTS

Item	Recorded Test Value	Max Acceptable Limit	Potential Problems in Exceeding Limit
pH	5.3	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	180	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	120	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	64°	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: _____

Sold To # : 343491

Ship To # :2881003

Quote # :

Sales Order # :

8522462

SUMMIT Version: 7.2.27

Sunday, October 23, 2011 04:06:00