

HALLIBURTON

Rockies, Brighton

Lab Results- Lead

Job Information

Request/Slurry	2109188/1	Rig Name	CADE DRILLING 26	Date	18/FEB/2014
Submitted By	Justin Lansdale	Job Type	Surface Casing	Bulk Plant	Brighton
Customer	Bonanza Creek Energy Co.	Location	Roosevelt	Well	State Antelope U-Y-30 HNB

Well Information

Casing/Liner Size	9.625 in / 244.475 mm	Depth MD	137 m / 450 ft	BHST	38°C / 100°F
Hole Size	13.5 in / 342.9 mm	Depth TVD	137 m / 450 ft	BHCT	27°C / 80°F
Pressure	69 bar / 1000 psi				

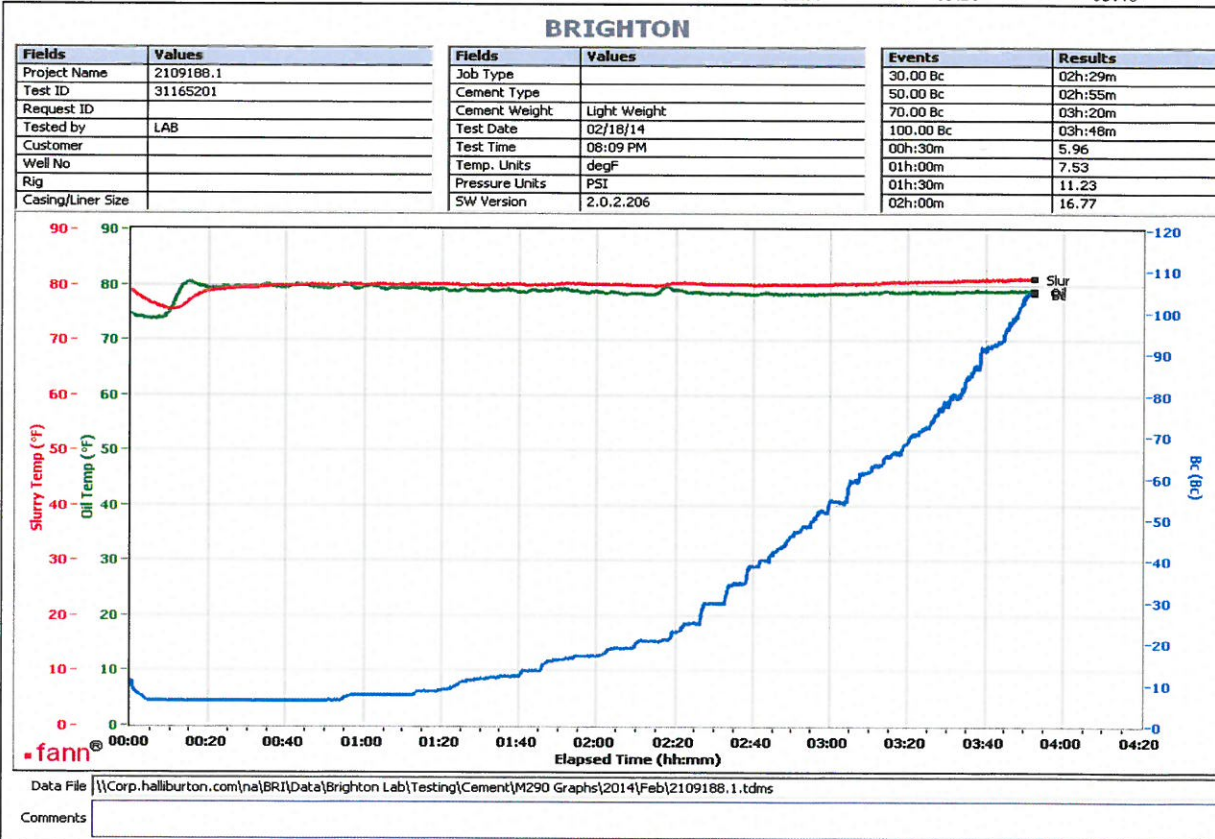
Cement Information - Lead Design**Cement Properties**

Slurry Density	13.5	lbm/gal
Slurry Yield	1.75	ft3/sack
Water Requirement	9.24	gal/sack

Operation Test Results Request ID 2109188/1**Thickening Time**

18/Feb/2014

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
80	1000	13	10.7	02:29	02:55	03:20	03:48



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Field Ticket

Field Ticket Number: 901130302		Field Ticket Date: Tuesday, February 18, 2014	
Bill To: BONANZA CREEK ENERGY DO NOT MAIL - 410-17TH ST STE1400 DENVER, CO 80202		Job Name: Surface Casing Order Type: Streamline Order (ZOH) Well Name: State Antelope U-Y-30 HNB Company Code: 1100 Customer PO No.: NA Shipping Point: Fort Lupton, CO, USA Sales Office: Rocky Mountains BD Well Type: Horizontal Oil Well Category: Development	
Ship To: BONANZA CREEK ENERGY State Antelope, U-Y-30 HNB 3270229 KERSEY, CO 80644			

Material	Description	QTY	UOM	Base Amt	Unit Amt	Gross Amount	Discount	Net Amount
7521	CMT SURFACE CASING BOM	1	JOB					
16091	ZI - PUMPING CHARGE	1	EA					
	DEPTH	468						
	FEET/METERS (FT/M)		FT					
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI	1	EA					
	HOURS	1						
432904	CMT, ROCKIES SG SETUP	1	EA					
432905	CMT, ROCKIES SG MILEAGE	102	MI					
	Number of Units	1						
432906	CMT, ROCKIES SG DELIVERY	12.75	TNM					
	NUMBER OF TONS	12.75						
452990	SWIFTCEN (TM) SYSTEM	255	SK					
101201084	RHODAMINE RED LIQ DYE (2)	2	LB					
76400	ZI MILEAGE CMT MTLs DEL/RET MIN	51	MI					
	NUMBER OF TONS	1.23						
87605	ZI FUEL SURCHG-CMT & CMT ADDITIVES	51	MI					
	NUMBER OF TONS	1.23						

Halliburton Rep: CHRISTOPHER PICKELL
 Customer Agent: John Bradley
 Halliburton Approval: