

# Casing Cementing



Company: ENCANA USA - DENVER, FOR XML BILLINGS  
ONLY (EDI)

Well Name: Grant Salisbury 2E-14H #0631586221

Field: DJ

County: Weld

State: CO

Date: 9/24/2014

Well Location: P272

Well Number (API):

Proposal Number: 2.1

Contact: Andrew Baltes

Made By: Jeff Eulberg

Service from District: Cheyenne, WY

District Phone: (303) 486-3245

Objective: Previous Casing: 7677'

Top of Cement(previous casing - 2000'): 5677'

OH Excess: 20%

TD: 13,163 (7215')

**Bring extra iron for rotating cement head**

**Bring 10 gal D801 for Displacement**

## Disclaimer Notice

Schlumberger submits this document with the benefit of its judgment, experience, and good oilfield practices.

This information is provided in accordance with generally accepted industry practice, relying on facts or information provided by others, limitations, computer models, measurements, assumptions and inferences that are not infallible.

Calculations are estimates based on provided information. All proposals, recommendations, or predictions are opinions only.

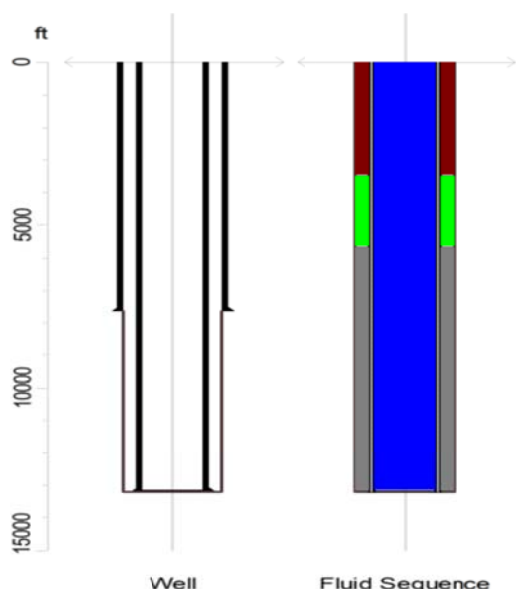
NO WARRANTY IS GIVEN CONCERNING ACCURACY OR COMPLETENESS OF DATA, INFORMATION PRESENTED, EFFECTIVENESS OF MATERIAL, PRODUCTS OR SUPPLIES, RECOMMENDATIONS MADE, OR RESULTS OF THE SERVICES RENDERED.

Freedom from infringement of any intellectual property rights of Schlumberger or others is not to be inferred and no intellectual property rights are granted hereby.

# Schlumberger



## WELL DATA



### IMPORTANT:

The well data shown on this page is based on information available when this treatment program was prepared. This data must be confirmed on location with the wellsite supervisor prior to the treatment. Any changes in the well data need to be reviewed for their impact on the treatment design.

Well Data	
Job Type :	Casing Cementing
Total Depth (Measured) :	13163.0 ft
True Vertical Depth (TVD) :	7210.3 ft
BHST (Tubular Bottom Static Temperature) :	196 degF
BHCT (Tubular Bottom Circulating Temperature) :	196 degF

Open Hole		
Mean Diameter without Excess	Bottom Depth	Annular Excess
6.125 in	13233.0 ft	20.00 %

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
7 in	26.0 lb/ft	P-110	DWC	0.21 ft3/ft	7677.0 ft

Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
4 1/2 in	13.5 lb/ft	P-110	DWC	0.08 ft3/ft	13163.0 ft

Annular Capacity (without Excess) : Casing Bottom / Open Hole : 0.09 ft3/ft  
 Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.10 ft3/ft

Fluid Placement			
Fluid Name	Volume bbl	Density lb/gal	Top of Fluid ft
MUDPUSH Express	40.0	13.00	3525.5
14.0# Lateral Cement	149.6	14.00	5677.0
Drop Plug			0.0
D801 Water	0.5	8.33	
Drop Balls			
D801 Water	9.5	8.33	
Water + KCL Substitute	186.9	8.32	

Total Liquid Volume : 386.5 bbl



## FLUID SYSTEMS

MUDPUSH Express			
<b>System</b>	MUDPUSH Express		
<b>Density</b>	13.00 lb/gal		
<b>Total Volume</b>	40.0 bbl		
<b>Additives</b>	<b>Code</b>	<b>Description</b>	<b>Concentration</b>
	B389	Cementing Additive B389	0.30 lb/bbl BW/V.Spacer
	D066	Silica	7498.6 lb/mgal
14.0# Lateral Cement (542 sacks, 75.0 lb per sack of Blend)			
<b>System</b>	Conventional		
<b>Density</b>	14.00 lb/gal		
<b>Yield</b>	1.55 ft <sup>3</sup> /sk		
<b>Mix Water</b>	7.084 gal/sk		
<b>Mix Fluid</b>	7.084 gal/sk		
<b>Total Volume</b>	149.6 bbl		
<b>Additives</b>	<b>Code</b>	<b>Description</b>	<b>Concentration</b>
	D049	Cement	75.00 lb/sk WBWOB
	D066	Silica	35.00 % BWOB
	B477	Fluid Loss	0.60 % BWOB
	D198	Retarder	0.20 % BWOB
	D046	Anti Foam	0.50 % BWOB
	D174	Expanding Agent	1.00 % BWOB
	D208	ScavengerPLUS	0.03 % BWOB
	D065	Dispersant	0.60 % BWOB
Water + KCL Substitute			
<b>System</b>	Water		
<b>Density</b>	8.32 lb/gal		
<b>Total Volume</b>	196.9 bbl		

Some of the chemicals specified in this program may have toxic properties. All personnel should be familiar with the inherent dangers and appropriate safeguards to prevent accidental injury. Use of the chemicals may be governed by certain laws and regulations and should only be used in accordance with such. Please refer to the MSDS sheets for the recommended safety precautions and required minimum personal protective equipment.