

# Casing Cementing



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

Well Name: Grant Salisbury 2A-14H #0631481554

Field: DJ

County: Weld

State: CO

Date: 11/11/2014

Well Location:

Well Number (API): 05123376600000

Proposal Number: 2

Contact: Kellan Kamerzel

Made By: Jeff Eulberg

Service from District: Cheyenne, WY

District Phone: (303) 486-3245

Objective: Previous Casing: 8051'

Top of Cement(previous casing - 2000'): 6051'

OH Excess: 20%

TD: 13,685' (7406')

**Bring extra iron for rotating cement head**

**Bring 15 lbs D800 for Displacement**

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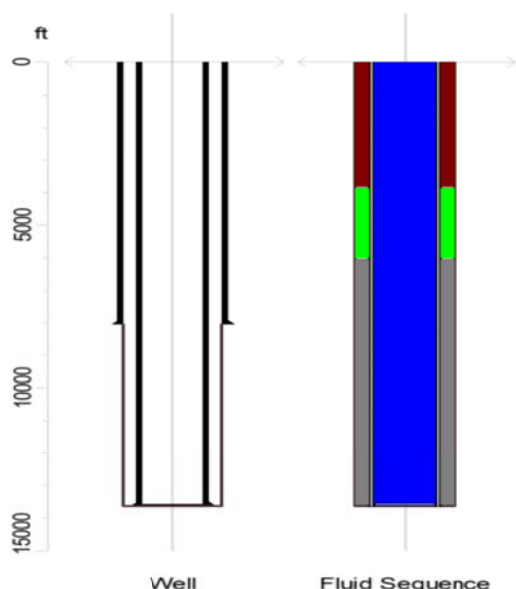
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## WELL DATA



### 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) :	13685.0 ft
True Vertical Depth (TVD) :	7421.3 ft
BHST (Tubular Bottom Static Temperature) :	215 degF
BHCT (Tubular Bottom Circulating Temperature) :	215 degF

Open Hole		
Mean Diameter without Excess	Bottom Depth	Annular Excess
6.125 in	13685.0 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	8083.0 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	13685.0 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	12.50	3899.5
13.5# Production	151.2	13.50	6051.0
Drop Plug			0.0
D800 Water	0.5	8.33	
Drop Balls			
D800 Water	9.5	8.33	
Water	193.7	8.32	

Total Liquid Volume : 394.8 bbl



## FLUID SYSTEMS

MUDPUSH Express			
<b>System</b>	MUDPUSH Express		
<b>Density</b>	12.50 lb/gal		
<b>Total Volume</b>	40.0 bbl		
<b>Additives</b>	<b>Code</b>	<b>Description</b>	<b>Concentration</b>
	B389 D066	Cementing Additive B389 Silica	0.40 lb/bbl BW/V.Spacer 6695.8 lb/mgal

13.5# Production (505 sacks, 75.0 lb per sack of Blend)			
<b>System</b>	Conventional		
<b>Density</b>	13.50 lb/gal		
<b>Yield</b>	1.68 ft <sup>3</sup> /sk		
<b>Mix Water</b>	8.110 gal/sk		
<b>Mix Fluid</b>	8.110 gal/sk		
<b>Total Volume</b>	151.2 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	Mid Range Fluid Loss Additive B477	0.70 % BWOB
	D065	Dispersant	0.25 % BWOB
	D013	Retarder	0.17 % BWOB
	D046	Anti Foam	0.20 % BWOB
	D208	ScavengerPLUS	0.05 % BWOB

Water	
<b>System</b>	Water
<b>Density</b>	8.32 lb/gal
<b>Total Volume</b>	203.7 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.