

Casing Cementing



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

Well Name: Grant Salisbury 2D-14H #0631590044

Field: DJ

County: Weld

State: CO

Date: 10/6/2014

Well Location: P272

Well Number (API): 05123376590000

Proposal Number: 2

Contact: Andrew Baltes

Made By: Jeff Eulberg

Service from District: Cheyenne, WY

District Phone: (303) 486-3245

Objective: Previous Casing: 7874'

Top of Cement(previous casing - 1500'): 6374'

OH Excess: 30%

TD: 13,380' (7410')

Bring extra iron for rotating cement head

Bring 15 lbs D800 for Displacement

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

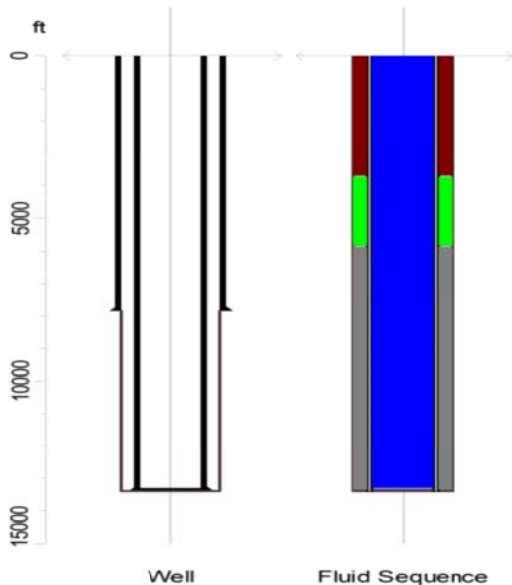
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WELL DATA



| Well Data | |
|---|------------------|
| Job Type : | Casing Cementing |
| Total Depth (Measured) : | 13380.0 ft |
| True Vertical Depth (TVD) : | 7409.8 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 | 13380.0 ft | 30.000 % |

| Previous Casing | | | | | |
|-----------------|------------|-------|--------|--------------------------|--------------|
| OD | Weight | Grade | Thread | Inner Capacity | Bottom Depth |
| 7 in | 26.0 lb/ft | P-110 | DWC | 0.21 ft ³ /ft | 7874.0 ft |

| Casing | | | | | |
|----------|------------|-------|--------|--------------------------|--------------|
| OD | Weight | Grade | Thread | Inner Capacity | Bottom Depth |
| 4 1/2 in | 13.5 lb/ft | P-110 | DWC | 0.08 ft ³ /ft | 13380.0 ft |

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.

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 | 4222.5 |
| 13.5# Production | 150.2 | 13.50 | 6374.0 |
| Drop Plug | | | 0.0 |
| D800 Water | 0.5 | 8.33 | |
| Drop Balls | | | |
| D800 Water | 9.5 | 8.33 | |
| Water | 189.3 | 8.32 | |

Total Liquid Volume : 389.5 bbl



FLUID SYSTEMS

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

| 13.5# Production (502 sacks, 75 lb per sack of Blend) | | | |
|---|--------------------------|------------------------------------|----------------------|
| System | Conventional | | |
| Density | 13.50 lb/gal | | |
| Yield | 1.68 ft ³ /sk | | |
| Mix Water | 8.103 gal/sk | | |
| Mix Fluid | 8.103 gal/sk | | |
| Total Volume | 150.2 bbl | | |
| Additives | Code | Description | Concentration |
| | D049 | Cement | 75.00 lb/sk WBWOB |
| | D066 | Silica | 35.000 % BWOB |
| | B477 | Mid Range Fluid Loss Additive B477 | 0.650 % BWOB |
| | D065 | Dispersant | 0.250 % BWOB |
| | D013 | Retarder | 0.350 % BWOB |
| | D046 | Anti Foam | 0.200 % BWOB |
| | D208 | ScavengerPLUS | 0.050 % BWOB |

| Water | |
|---------------------|-------------|
| System | Water |
| Density | 8.32 lb/gal |
| Total Volume | 199.3 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.