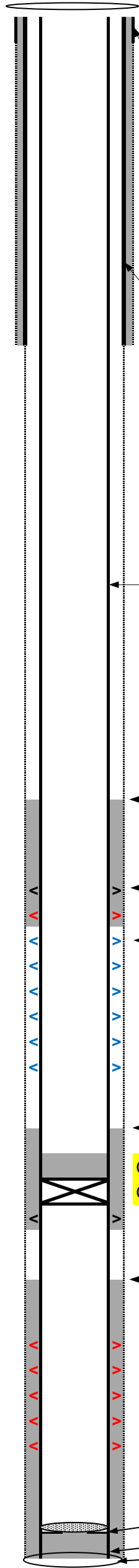


Laramie Energy

Proposed Well Schematic

Not to Scale



Well Name Cascade Creek 604-12-13
Diagram Date 2017-Sep-21
Surface Location 2804 FNL & 396 FWL SEC 4 T6S R97W
Btm Hole Location 2843 FNL & 160 FWL SEC 4 T6S R97W (estimated from gyro dated 5/29/2011)
Field Grand Valley
County Garfield
State Colorado
API 05-045-13465-00
KB Elevation 8653.5
KB Height 25.0
GL Elevation 8628.5

Conductor 16" @ 85
Cement -
Surface Hole 14-3/4"
Surface Casing 9-5/8" 36# K55 @ 2776
Cement Lead: 876 sx Premium Lite II @ 11.6 ppg
Tail: 250 sx Class G @ 15.8 ppg
Production Hole 8-3/4"
Production Casing 5-1/2" 17# I80 @ 9298
Cement Lead: 689 sx Premium Lite II @ 12 ppg
Tail: 544 sx 50/50 Poz Class G @ 14.2 ppg

TOC Squeeze 2 5702-5932 per CBL dated 12/6/2005
Squeeze Cement 12/1/2005
10 bbls Class G @ 15.8 ppg
10 bbls Poz @ 13.5 ppg
Squeeze Perfs 5920-5922
Squeeze 3 6180
Proposed Perfs 6288-6290 Ohio Creek
6344-6344 Ohio Creek
6408-6410 Ohio Creek
6494-6496 Ohio Creek
6548-6550 Ohio Creek
6700-6702 Williams Fork

TOC Squeeze 1 6864-7249 per CBL dated 12/6/2005
Squeeze Cement 11/29/2005
10 bbls Poz @ 13.5 ppg
30 bbls Class G @ 15.8 ppg
Squeeze Perfs 7210-7212
TOC Primary 7325 per CBL dated 11/6/2005

Completion	Stage	Depth
11/23/2005	5	7468-7717
11/23/2005	4	7787-8002
11/22/2005	3	8063-8249
11/21/2005	2	8313-8546
11/21/2005	1	8599-8929

PBTD = FC 9252
SHOE 9298
TD 9320

Geological Tops

Wasatch G	4676
Fort Union	4942
Ohio Creek	6193
Williams Fork	6558
Top Gas	7121
Cameo	8748
Rollins	9079