

Laramie Energy

Current 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

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
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Williams Fork	6558
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Top Gas	7121
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Cameo	8748
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Rollins	9079
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Proposed Well Schematic

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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
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