



Pirtlaw Partners LTD 34-11 Wellbore Diagram

S11 T7N R87W 6th P.M.: Routt County, Colorado

RH

TVD

5,000 psi, Wellhead and Xmas Tree Systems

MSL = 902'
KB = 25'

17-1/2" Hole
WBM

20" Casing @ 40'

12-1/4" Hole
OBM

13-3/8" Casing
@ 1200' RKB
68 ppf, K-55, BT&C
ID: 12.415" DID: 12.259"
C: 1,950-psi, B: 3450-psi

9-5/8" Casing
@ 4300' MD; 4202 TVD
40.0 ppf, J-55, LT&C
ID: 8.835" DID: 8.750" SP
C: 2,570-psi, B: 3,950-psi

8-3/4" Hole
8.4 to 9.5-ppg OBM

As-Cemented
13-3/8" to the surface
9-5/8" to the surface
5.50" to 3300'

13-3/8" to the surface (*100%)

•Lead: 12.3 -ppg blend
(425-sxs)
•Tail: 13.5-ppg blend
(400-sxs)

9-5/8" to the surface (*100%)

•Lead: 12.2 -ppg blend
(490-sxs)
•Tail: 14.2-ppg blend
(110-sxs)

5 1/2" to 7088' (*20%)

•Lead: 11.8 -ppg blend
(835-sxs; 429.8-bbbls)

•Lead: 15.6-ppg blend
(255-sxs; 53.6-bbbls)

*indicates excess volume

Directional Program
KOP @ 2605' MD
BUR = 2.0°/100'
37.61° @ EOB: 4485' MD; 4352'
TVD
BHL = 7195' MD; 6500' TVD
(1825' North, 1314' East)
VS = 2249'

5-1/2" Prod. Casing
Bottom of casing @ 7195' MD
17.0-ppf, P-110, LTC
ID: 4.892" DID: 4.767"
C: 7480-psi, B: 11,640-psi

Top of Niobrara @ 4280'

Top of Buck Peak @ 4300'

Top of Tow Creek @ 4650'

Wolf Creek @ 5100'

Carlile @ 5950'

Frontier @ 6150'

Total Depth: 7195' MD; 6500'TVD