

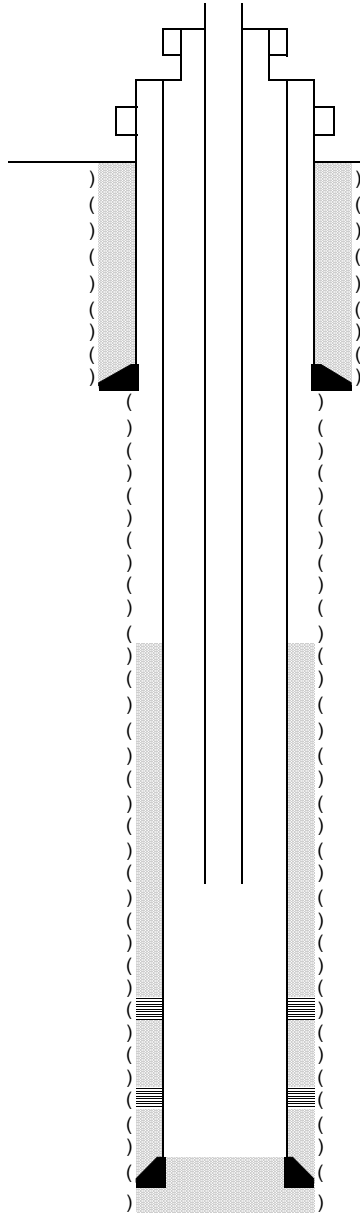


**WELLBORE DIAGRAM**

CURRENT WBD

812' FNL & 1720' FWL

1 Mile Offset  
 Sussex SI 5238'  
 Deepest WW: 980'



Operator: Great Western Operating Co. LLC  
 Well Name: North Colorado 12-13  
 Lease Number:  
 Location: NENW S13-T1S-R68W  
 Field: Spindle - #77900  
 County, State: Adams, CO  
 API Number: 05-001-09457  
 Diagram Date: 7/5/2019  
 Lat/Long: 39.96975, -104.95331

**KB ' 5144'**

**GL ' 5131'**

**Spud Date:** 8/23/2002  
**Date TD Reached:** 9/4/2002  
**Completion Date:** 11/23/2002

**Surface casing**  
 (12-1/4" Hole Size) 8-5/8" 24 csg set @ 1132'  
 w/ 740 sx cmt

**Production casing**  
 (7-7/8" Hole Size) 4-1/2" 11.6# csg set @ 8909'  
 w/ 260 sx cmt to 7400' (CBL)

**DV Tool**  
 5240' w/ 175sx to 4545'

**Tubing**  
 2-3/8" set @ 8174' (Record from 2005)

**TOC = 4545' (CBL)**

**Formation Tops (MD)**

Ft Hays 8161'  
 Codell 8185'  
 J Sand 8627'  
 Dakota 8811'

**Perforations**

Codell  
 8185-8201'

J Sand  
 8628' - 8674'

**TVD = 8703'**      **PBTVD = 8630'**  
**MD = 8909'**      **PBMD = 8836'**