

## Well Name: Orchard Unit 30-5H (K200U)

Location: Piceance Basin, Colorado  
 Field: Orchard  
 API#: 05077094180000  
 Surface Location: NESW Sec 20 T8S - R96W 6th PM  
 BH Location: SESE-16-8S-96 W 6th PM  
 KB: 23 ft  
 TD: 15,460 ft  
 Float Collar: 15,360 ft  
 80 deg Dev @: 9370 ft  
 KOP: 8050 ft  
 Average TVD: 8867 ft

Conductor:	20.0" 53# A53D Grade
Set at:	40 ft
Top of Cement:	Surface

Surface Casing:	10.75" 40.5# J-55 ST&C
Set at:	1,542 ft
Top of Cement:	Surface

Intermediate Casing:	7-5/8" 29.7# P110 LT&C
Set at:	7,182 ft
Inclination at Intern. CSG Point:	1.4 deg
Burst Pressure:	9,470 psi (75% = 7,102 psi)
Top of Cement (Stage 1):	3,645 ft DV Tool: 2884' MD
Top of Cement (Stage 2):	1,760 ft

Production Casing:	5.0" 23.2# VAM SFC P110
Inside Diameter:	4.044" Drift: 3.919"
Set at:	15,443 ft
TVD Average:	8,867 ft
Burst Pressure:	20,910 psi (75% = 15,682 psi)
Top of Cement:	3,775 ft (From 09/21/11 CBL)

Production Tubing:	193 JTS 2-3/8" 4.7# L-80 EUE TBG
Set at:	6,357' MD on 05/21/2012

7-5/8" CSG Stage 2 TOC = 1,760'

Intermediate CSG DV Tool @ 2884'

5.0" Production CSG  
of Cement = 3,775' MD

7/5/8" Intermediate CSG: STG 1  
Top of Cement = 3,645' MD

Mancos Perfs  
from 6416' to  
8623' MD

7-5/8" Intermediate CSG set @ 7,182' MD

5.0" 23.2# P110 VAM SFC Production CSG

Float Collar =	15,360	ft
End of CSG =	15,443	ft
Total MD =	15,460	ft

Niobrara Perfs from 8720' to 15,280' MD