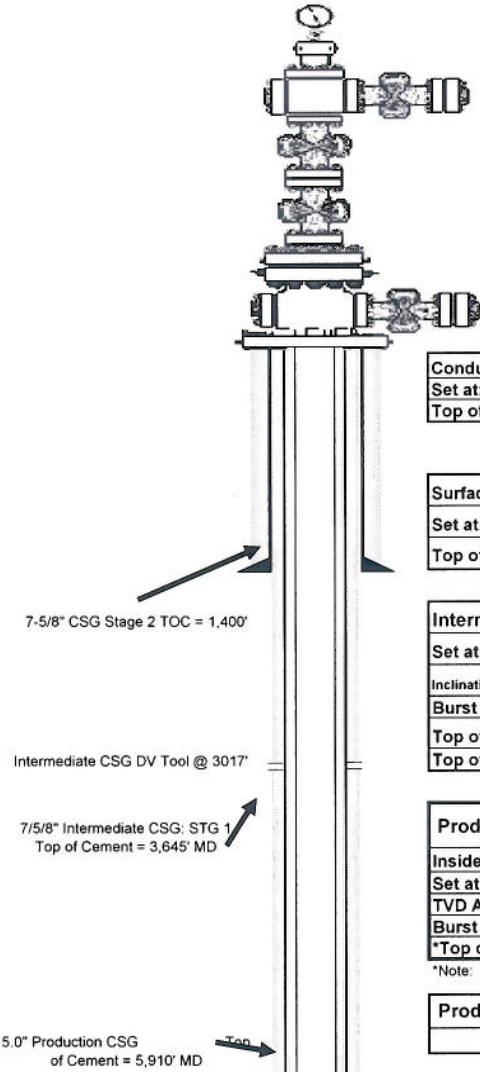




# Well Name: Orchard Unit 15-12H (D14OU)

Location: Piceance Basin, Colorado  
 Field: Orchard  
 API#: 05077101460000  
 Surface Location: NWNW Sec 14-T8S-R96W 6th PM  
 BH Location: NWSW Sec 15-T8S-R96 W 6th PM  
 KB: 30.5 ft  
 TD: 14,306 ft  
 Float Collar: 14,244 ft  
 80 deg Dev @: 9420 ft  
 KOP: 8400 ft  
 Average TVD: 9042 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:	1,528 ft
Top of Cement:	Surface

Intermediate Casing:	7-5/8" 26.40# HCP110 LT&C
Set at:	7,529 ft
Inclination at Intern. CSG Point:	1.4 deg
Burst Pressure:	8,280 psi (80% = 6,624 psi)
Top of Cement (Stage 1):	3,040 ft DV Tool: 3017' MD
Top of Cement (Stage 2):	1,400 ft

Production Casing:	5.0" 23.2# VAM SFC P110
Inside Diameter:	4.044" Drift: 3.919"
Set at:	14,290 ft
TVD Average:	9,042 ft
Burst Pressure:	18,400 psi (80% = 14,720 psi)
*Top of Cement:	5,910 ft (From 09/17/11 CBL)

Production Tubing:	Not set yet
Set at:	N/A

\*Note: Poor bond and possible cement stringers between 5560' and 5910'

Mancos Perfs from 6732' to 8593' MD

7-5/8" Intermediate CSG set @ 7,529' MD

5.0" 23.2# P110 VAM SFC Production CSG

Float Collar =	14,244	ft
End of CSG =	14,290	ft
Total MD =	14,306	ft

Niobrara Perfs from 8670' to 14,150' MD