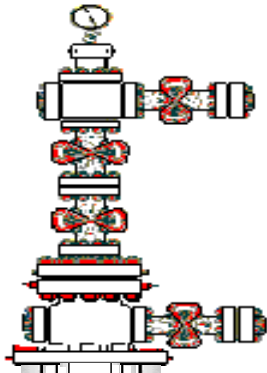




# Well Name: Orchard Unit 16-16H (P16OU)

Location: Piceance Basin, Colorado  
 Field: Orchard  
 API#: 05077100720000  
 Surface Location: SESE Sec 16-T8S-R96W 6th PM  
 BH Location: SESW Sec 9-T8S-R96W 6th PM  
 KB: 22 ft  
 TD: 14,609 ft  
 Float Collar: 14,566 ft  
 80 deg Dev @: 9410 ft  
 KOP: 8500 ft  
 Average TVD: 9046 ft



Surface Casing:	10.75" 40.5# J-55 ST&C
Set at:	1,534 ft
Top of Cement:	Surface

Intermediate Casing:	7-5/8" 29.7# P110 LT&C
Set at:	8,020 ft
Inclination at Interm. CSG Point:	4.6 deg
Burst Pressure:	1290 (pressure tested squeeze holes to 1290 psi)
Top of Cement:	4,850 ft 4 SQZ Holes @ 2625'
Top of Cement after SQZ:	1930' (Top Mesa Verde = 2334')

Production Casing:	5.0" 23.2# P110EC VAM SFC
Inside Diameter:	4.044" Drift: 3.919"
Set at:	14,609 ft
TVD Average:	9,046 ft
Burst Pressure:	20,910 psi (75% = 15,682 psi)
Top of Cement:	6,800 ft

7-5/8" CSG TOC = 1930'  
 7-5/8" CSG SQZ Holes @ 2625'  
 7-5/8" Intermediate CSG  
 Top of Cement = 4,850'  
 5.0" CSG Top of Cement = 6800'

Mancos Perfs from 7810' to 8399'

7-5/8" Intermediate CSG set @ 7932' MD

5.0" 23.2# P110 VAM SFC Production CSG

Float Collar = 14,566 ft  
 Total MD = 14,609 ft

Niobrara Perfs from 8858' to 14,378'