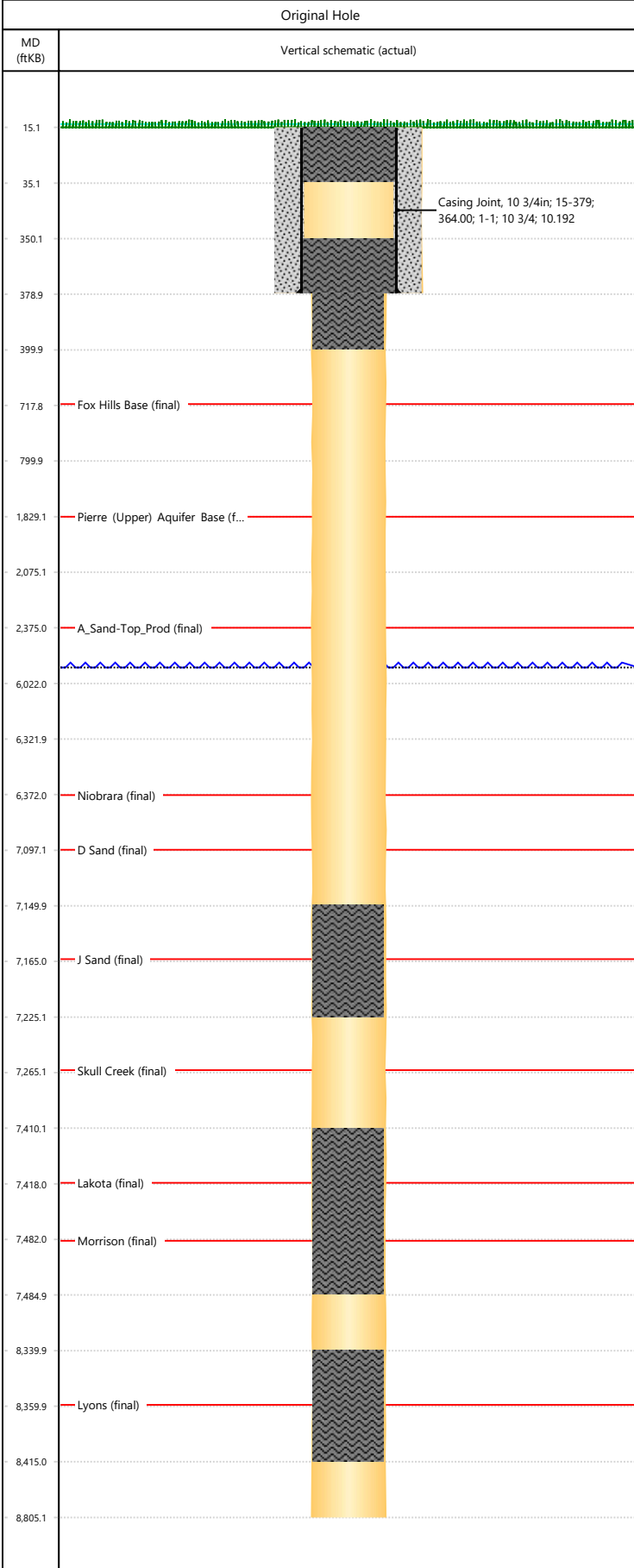




PA Wellbore For State - Vertical

Well Name: Duell 1



Well Header									
Surface UWI 0512305578		Business Unit Rockies		Gov Auth Dist		Prod Tree Loc			
Orig. KB to Gnd (ft) 15.00		Original Spud Date 7/27/1953		Abandon Date		Well Sub-Status		High... N	
Comment Operator: Falcon Seaboard DRLG CO									
Geologic Horizons									
Formation Name Fox Hills Base								Final Top MD (ftKB) 718.0	
Formation Name Pierre (Upper) Aquifer Base								Final Top MD (ftKB) 1,829.0	
Formation Name A_Sand-Top_Prod								Final Top MD (ftKB) 2,375.0	
Formation Name Niobrara								Final Top MD (ftKB) 6,372.0	
Formation Name D Sand								Final Top MD (ftKB) 7,097.0	
Formation Name J Sand								Final Top MD (ftKB) 7,165.0	
Formation Name Skull Creek								Final Top MD (ftKB) 7,265.0	
Formation Name Lakota								Final Top MD (ftKB) 7,418.0	
Formation Name Morrison								Final Top MD (ftKB) 7,482.0	
Formation Name Lyons								Final Top MD (ftKB) 8,360.0	
Congressional Location									
Quarter 3	Quarter 4	Section	Township	Twnshp N/...	Range	Rng E/W Dir	Latitude (°)	Longitude (°)	
Wellbore Sections									
Section Des		Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)			
Surface		16		15.0		379.0			
Production		7 7/8		379.0		8,805.0			
Casing Strings									
Csg Des		Run Date		OD (in)		Wt/Len (lb/ft)		Grade	
Surface		9/3/1953		10 3/4		32.75		15	
Set Depth (MD) (ftKB)		Top Depth (MD) (ftKB)		Grade		Wt/Len (lb/ft)		Run Date	
379		15		15		32.75		9/3/1953	
Cement									
Des		Start Date		Top (ftKB)		Btm (ftKB)			
Surface Casing Cement		9/3/1953		15.0		379.0			
Cement Plug		9/5/1953		7,150.0		7,225.0			
Cement Plug		9/5/1953		7,410.0		7,485.0			
Cement Plug		9/5/1953		8,340.0		8,415.0			
Cement Plug		9/5/1953		379.0		400.0			
Cement Plug		9/5/1953		350.0		379.0			
Cement Plug		9/5/1953		15.0		35.0			
Stim/Frac Summary									
Min Top Depth (ftKB)					Max Btm Depth (ftKB)				
Perforations									
Linked Zone		Date		Top Depth (ftKB)		Bottom Depth (ftKB)			
Other In Hole									
Run Date		Des		Make		OD (in)		Top (ftKB)	
Logs									
Date		Type				Depth Top (MD) (ftKB)		Btm (ftKB)	