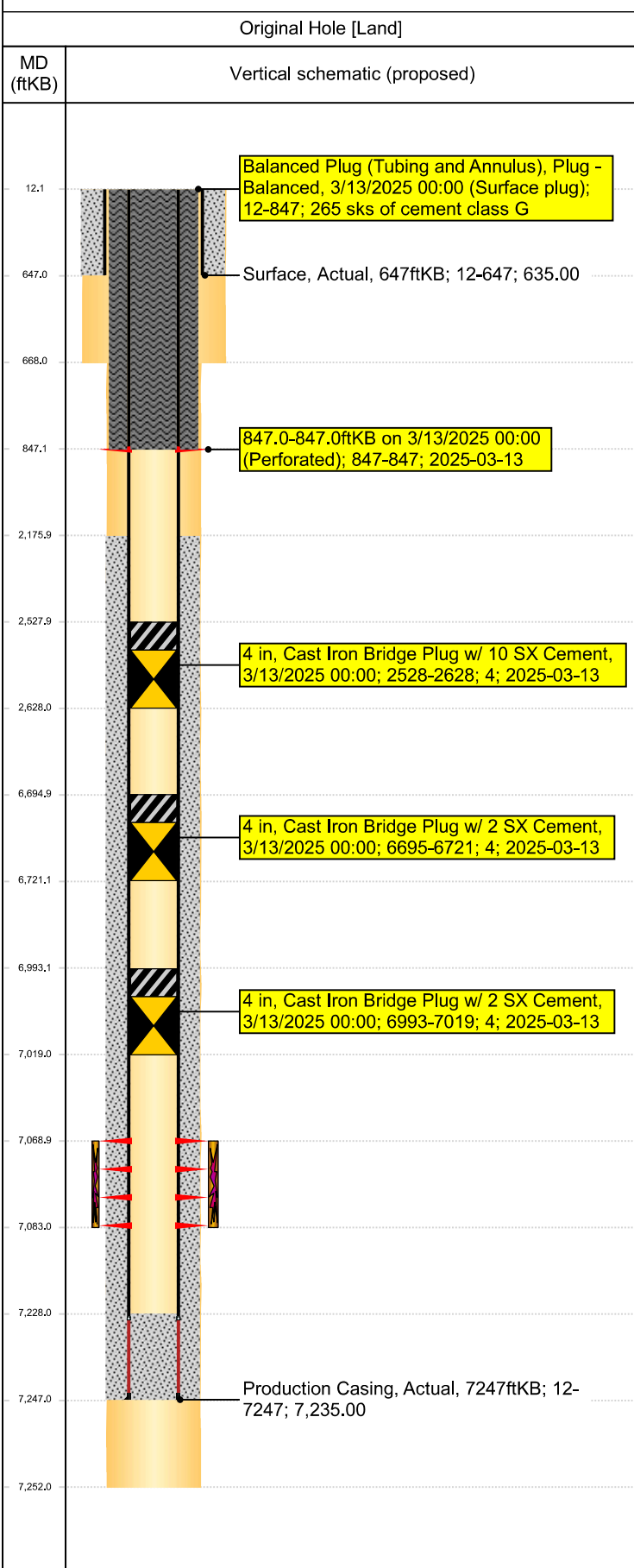




Proposed PA WBD - Horizontal

Well Name: LETTERLY USX AB23-13

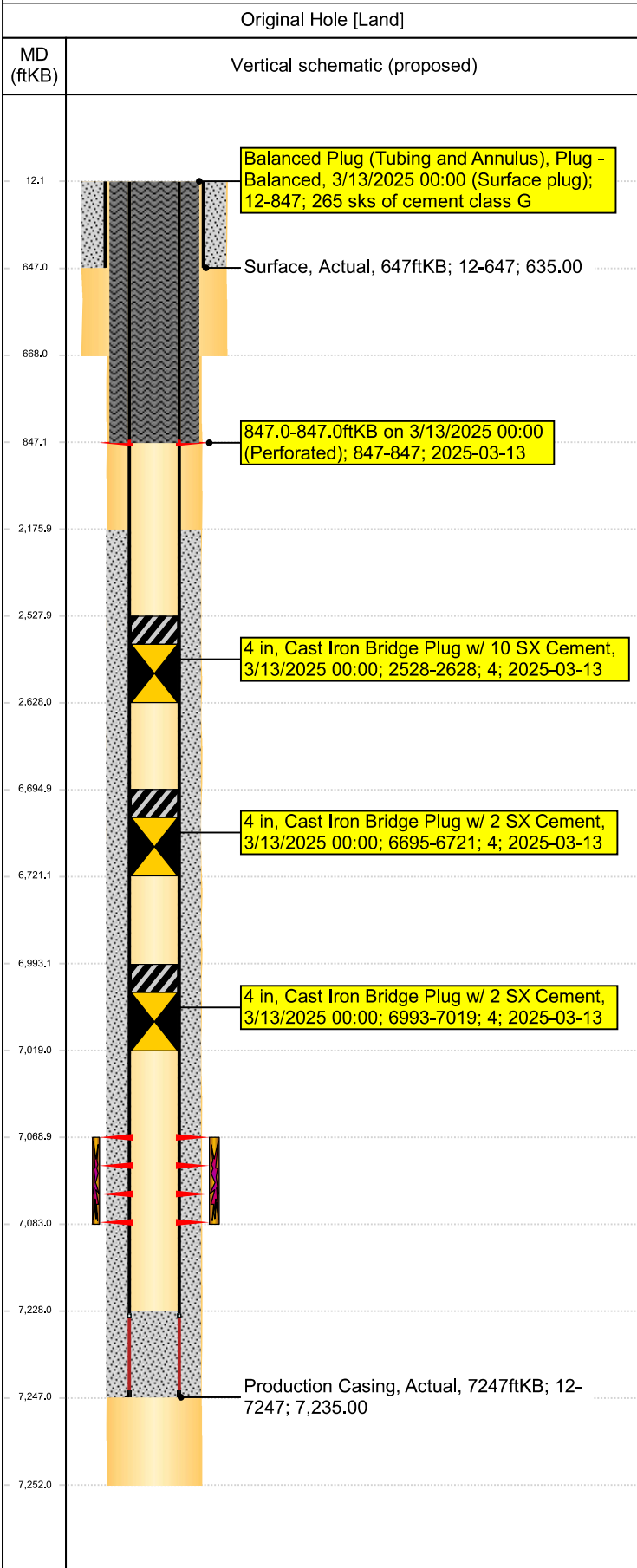


Well Header				
Surface UWI	Business Unit	Gov Auth Dist	Prod Tree Loc	
0512326439	Rockies		Land	
Orig. KB to Gnd (ft)	Original Spud Date	Abandon Date	Well Sub-Status	High...
12.00	12/3/2007		TA (AT SURFACE)	N
Comment				
SPECIAL DIRECTIONAL SURVEY LOG READINGS REQUIRED! SEE LOG SECTION FOR DETAILS.				
Geologic Horizons				
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
FOXHILLS-BASE PROD	559.8			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
UPPER PIERRE AQUIFER-TOP PROD	720.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
UPPER PIERRE AQUIFER-BASE PROD	1,738.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
A SAND-TOP PROD	2,648.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
A SAND-BASE PROD	3,148.2			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
PARKMAN-TOP PROD	3,735.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
PARKMAN-BASE PROD	4,185.5			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
SUSSEX-TOP PROD	4,291.9			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
SUSSEX-BASE PROD	4,681.1			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
SHANNON-TOP PROD	5,124.3			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
SHANNON-BASE PROD	5,213.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIOBRARA-TOP PROD	6,770.7			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
INTRA SHARON SPGS MK	6,790.4			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO A CHALK	6,818.6			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO A MARL	6,836.9			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO B CHALK	6,877.4			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO C CHALK	6,945.6			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO C MARL	6,991.2			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO B MARL	6,912.0			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO D CHALK	7,017.2			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
NIO FT HAYS	7,044.8			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
CODELL	7,070.1			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
CARLILE	7,084.2			
Formation Name	Final Top MD (ftKB)	Final Btm MD (ftKB)		
GREENHORN	7,148.0			
Surface Location (Congressional)				
Qtr 3	Qtr 4	Section	Twshp	Twsh...
SW	SW	23	7	N
Range	Rng E/...	Latitude (°)	Longitude (°)	
64	W	40.55282283	-104.524482505	
		3		
Wellbore Sections				
Section Des	Hole Size (in)	Prop/Actual	Top Depth (ftKB)	Btm Depth (ftKB)
SURFACE	12 1/4	Actual	12.0	668.0
PRODUCTION	7 7/8	Actual	668.0	7,252.0
Casing Strings				
Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade
Surface	12/4/2007	8 5/8	24.00	J-55
Production Casing	12/7/2007	4 1/2	11.60	M-80
Top Depth (ftKB)	Set Depth (ftKB)			
12	647			
12	7247			
Cement				
Des	Start Date	Top (ftKB)	Btm (ftKB)	
Surface Casing Cement	12/4/2007	12.0	647.0	
Production Casing Cement	12/7/2007	2,176.0	7,247.0	



Proposed PA WBD - Horizontal

Well Name: LETTERLY USX AB23-13



Stim/Frac Summary				
Min Top Depth (ftKB)		Max Btm Depth (ftKB)		
7,069.0		7,083.0		
Perforations				
Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)	
CODELL, Original Hole	3/13/2025 00:00	847.0	847.0	
CODELL, Original Hole	12/20/2007 00:00	7,069.0	7,083.0	
Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)
Logs				
Date	Type	Depth Top (MD) (ftKB)	Btm (ftKB)	
12/7/2007	Caliper/Comp.Density/Neutron/GR/SP/ML	2,900	7,231.0	
12/7/2007	DIL/GR/SP/Caliper	647	7,251.0	
12/18/2007	CBL/CCL/GR	1,990	7,124.0	
2/23/2013	GYRO	12	700.0	
Wellbore Plug Back Total Depths				
Date	Type	Com	PBTD (ftKB)	
12/18/2007	FILL	DEPTH LOGGER ON CBL	7,129	
12/19/2007	FILL	TAGGED FILL	7,218	