



Proposed PA WBD - Vertical

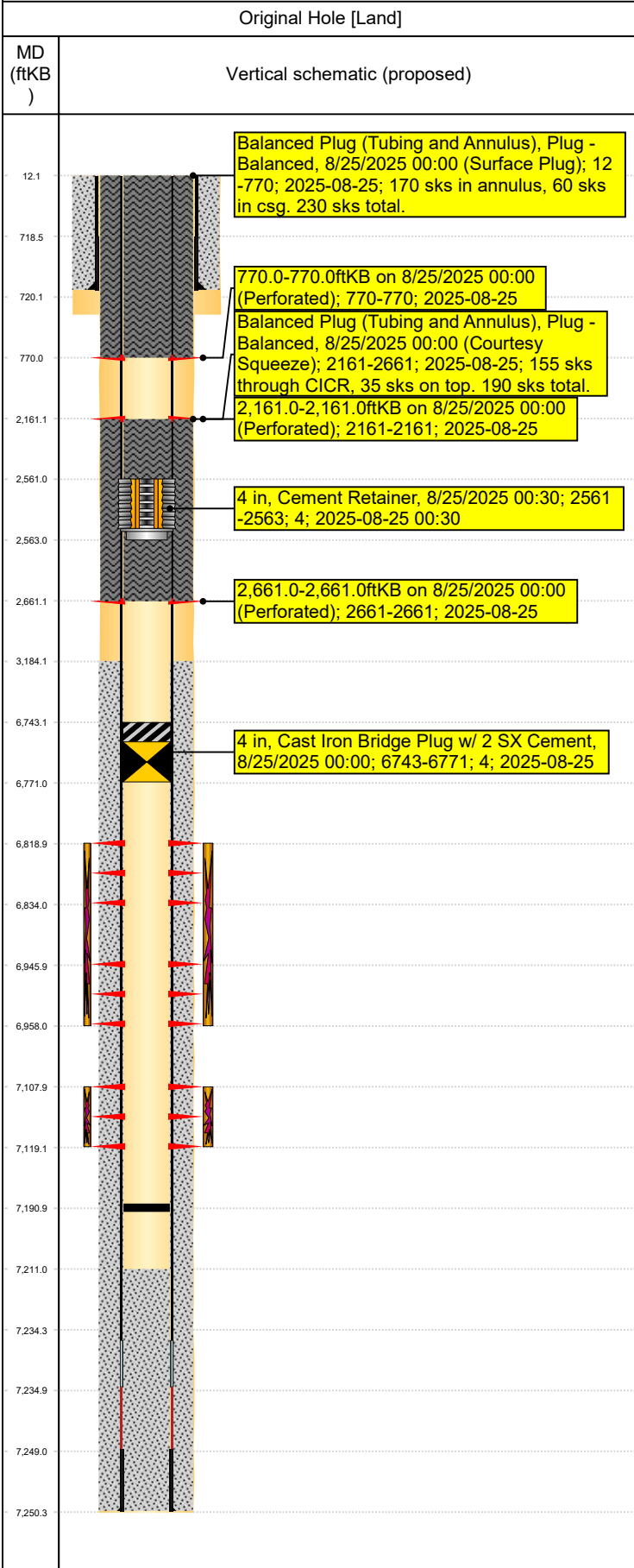
Well Name: PETTINGER USX AB27-07

Original Hole [Land]		Well Header			
MD (ftKB)	Vertical schematic (proposed)	Surface UWI	Business Unit	Gov Auth Dist	Prod Tree Loc
		0512324279	Rockies		Land
		Orig. KB to Gnd (ft)	Original Spud Date	Abandon Date	Well Sub-Status
		12.00	10/23/2006		SI
		Comment			
		PUSH FP TO 7191			
		Geologic Horizons			
		Formation Name			Final Top MD (ftKB)
		FOX HILLS BASE EST			
		Formation Name			Final Top MD (ftKB)
		FOX HILLS BASE EST			630.0
		Formation Name			Final Top MD (ftKB)
		UPPER PIERRE AQUIFER-TOP PROD			744.8
		Formation Name			Final Top MD (ftKB)
		NIOBRARA-TOP PROD			6,819.6
		Formation Name			Final Top MD (ftKB)
		A SAND-BASE PROD			3,175.8
		Formation Name			Final Top MD (ftKB)
		CARLILE			7,121.2
		Formation Name			Final Top MD (ftKB)
		SHARON SPRING MKR			6,789.1
		Formation Name			Final Top MD (ftKB)
		SUSSEX-BASE PROD			4,722.1
		Formation Name			Final Top MD (ftKB)
		NIO D CHALK			7,063.2
		Formation Name			Final Top MD (ftKB)
		NIO A CHALK			6,817.8
		Formation Name			Final Top MD (ftKB)
		PARKMAN-BASE PROD			4,222.7
		Formation Name			Final Top MD (ftKB)
		INTRA SHARON SPGS MK			6,788.9
		Formation Name			Final Top MD (ftKB)
		SHANNON-TOP PROD			5,160.3
		Formation Name			Final Top MD (ftKB)
		NIO C MARL			7,041.2
		Formation Name			Final Top MD (ftKB)
		A SAND-TOP PROD			2,681.2
		Formation Name			Final Top MD (ftKB)
		NIO A MARL			6,835.4
		Formation Name			Final Top MD (ftKB)
		SUSSEX-TOP PROD			4,343.2
		Formation Name			Final Top MD (ftKB)
		NIO C CHALK			6,997.7
		Formation Name			Final Top MD (ftKB)
		SHANNON-BASE PROD			5,252.7
		Formation Name			Final Top MD (ftKB)
		PARKMAN-TOP PROD			3,775.8
		Formation Name			Final Top MD (ftKB)
		NIO B MARL			6,959.3
		Formation Name			Final Top MD (ftKB)
		FOXHILLS-BASE PROD			590.1
		Formation Name			Final Top MD (ftKB)
		NIO FT HAYS			7,083.3
		Formation Name			Final Top MD (ftKB)
		NIO B CHALK			6,926.0
		Formation Name			Final Top MD (ftKB)
		UPPER PIERRE AQUIFER-BASE PROD			1,760.5
		Formation Name			Final Top MD (ftKB)
		CODELL			7,107.0
		Formation Name			Final Top MD (ftKB)
		NIOBRARA			6,802.0
		Formation Name			Final Top MD (ftKB)
		PIERRE			2,998.0
		Formation Name			Final Top MD (ftKB)
		PARKMAN			3,772.7
		Formation Name			Final Top MD (ftKB)
		SUSSEX			4,588.0
		Formation Name			Final Top MD (ftKB)
		SHANNON			5,152.0
		Formation Name			Final Top MD (ftKB)
		TEEPEE BUTTES			5,924.0
		Formation Name			Final Top MD (ftKB)
		NIOBRARA A			6,818.0
		Formation Name			Final Top MD (ftKB)
		NIOBRARA B			6,926.0
		Formation Name			Final Top MD (ftKB)
		NIOBRARA C			6,998.0



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Well Name: PETTINGER USX AB27-07



Geologic Horizons								
Formation Name FORT HAYS	Final Top MD (ftKB) 7,083.0							
Formation Name GREENHORN	Final Top MD (ftKB) 7,184.0							
Surface Location (Congressional)								
Qtr 3 SW	Qtr 4 NE	Section 27	Twnshp 7	Twnsh... N	Range 64	Rng E/W	Latitude (°) 40.54556548	Longitude (°) -104.534178625
Wellbore Sections								
Section Des	Hole Size (in)	Top Depth (ftKB)	Btm Depth (ftKB)					
SURFACE	12 1/4	12.0	735.0					
PRODUCTION	7 7/8	735.0	7,264.0					
Casing Strings								
Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)		
Surface	10/24/2006	8 5/8	24.00	J-55	12	720		
Production Casing	10/28/2006	4 1/2	11.60	M-80	12	7250.4		
Cement								
Des	Start Date	Top (ftKB)	Btm (ftKB)					
Surface Casing Cement	10/24/2006	12.0	720.0					
Production Casing Cement	10/28/2006	3,184.0	7,250.4					
Stim/Frac Summary								
Min Top Depth (ftKB) 6,819.0	Max Btm Depth (ftKB) 7,119.0							
Perforations								
Linked Zone	Date	Top Depth (ftKB)	Bottom Depth (ftKB)					
	8/25/2025 00:00	770.0	770.0					
	8/25/2025 00:00	2,161.0	2,161.0					
	8/25/2025 00:00	2,661.0	2,661.0					
	12/14/2006 00:00	6,819.0	6,834.0					
	12/14/2006 00:00	6,946.0	6,958.0					
	11/8/2006 00:00	7,108.0	7,119.0					
Other In Hole								
Run Date	Des	Make	OD (in)	Top (ftKB)	Btm (ftKB)			
Logs								
Date	Type	Depth Top (MD) (ftKB)	Btm (ftKB)					
10/28/2006	COMPENSATED DENSITY	2,620	7,244.0					
10/28/2006	INDUCTION	720	7,264.0					
11/7/2006	CBL/CCL/GR	3,071	7,209.0					
Wellbore Plug Back Total Depths								
Date	Type	Com	PBTD (ftKB)					
11/7/2006	FILL	DEPTH LOGGER ON CBL	7,211					
1/2/2007	PLUG REMNANTS	DRILL CIPF AND CLEAN OUT TO 7191'	7,191					