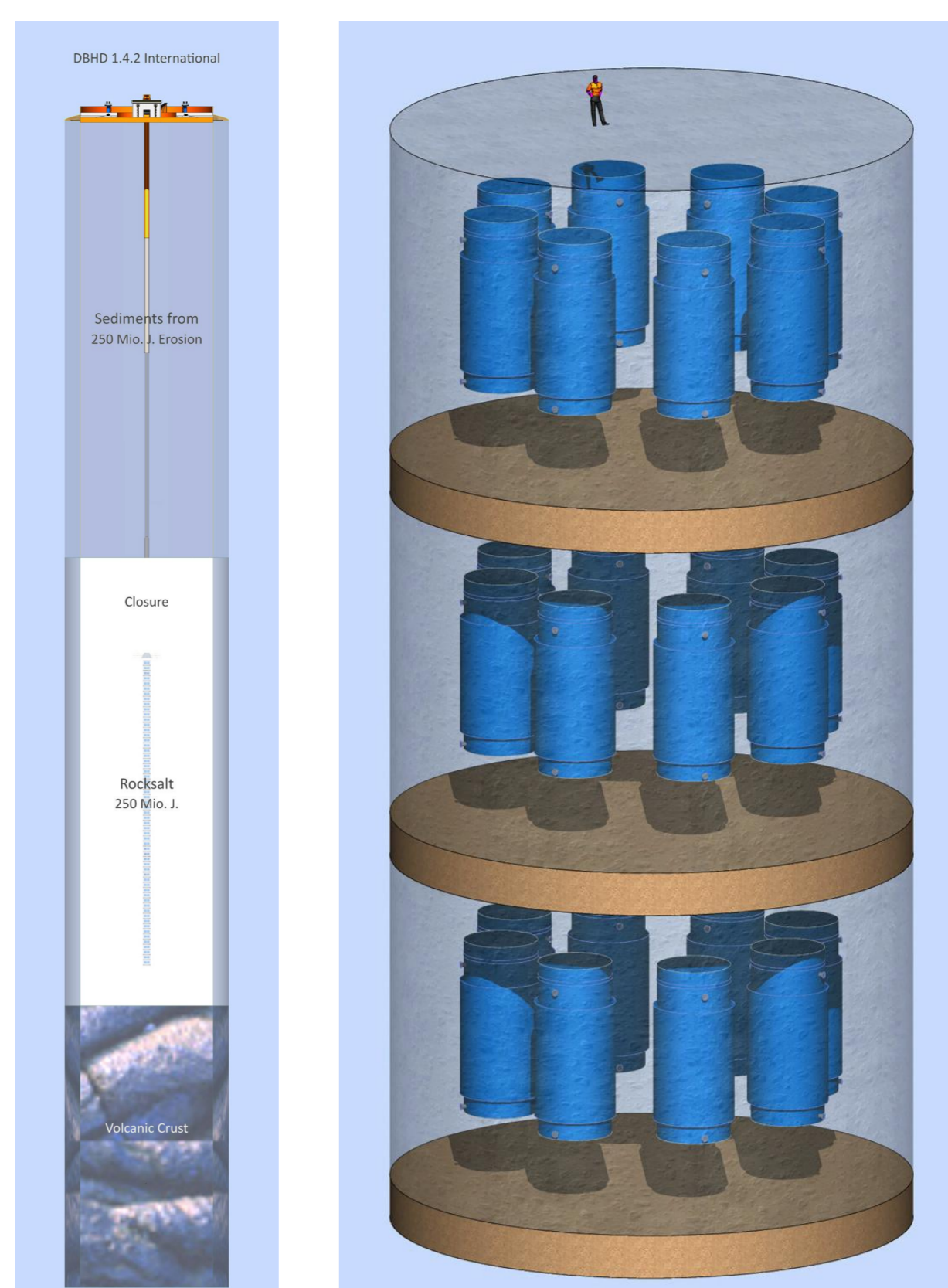
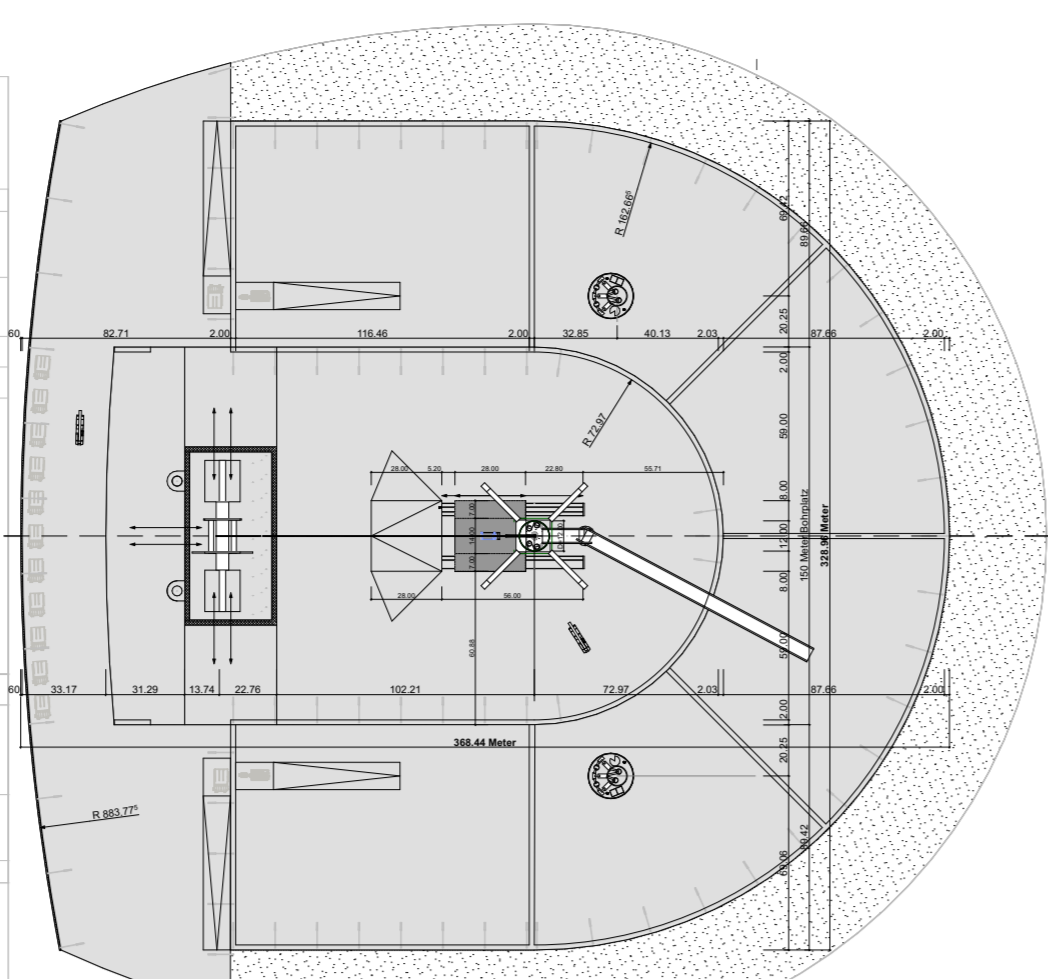
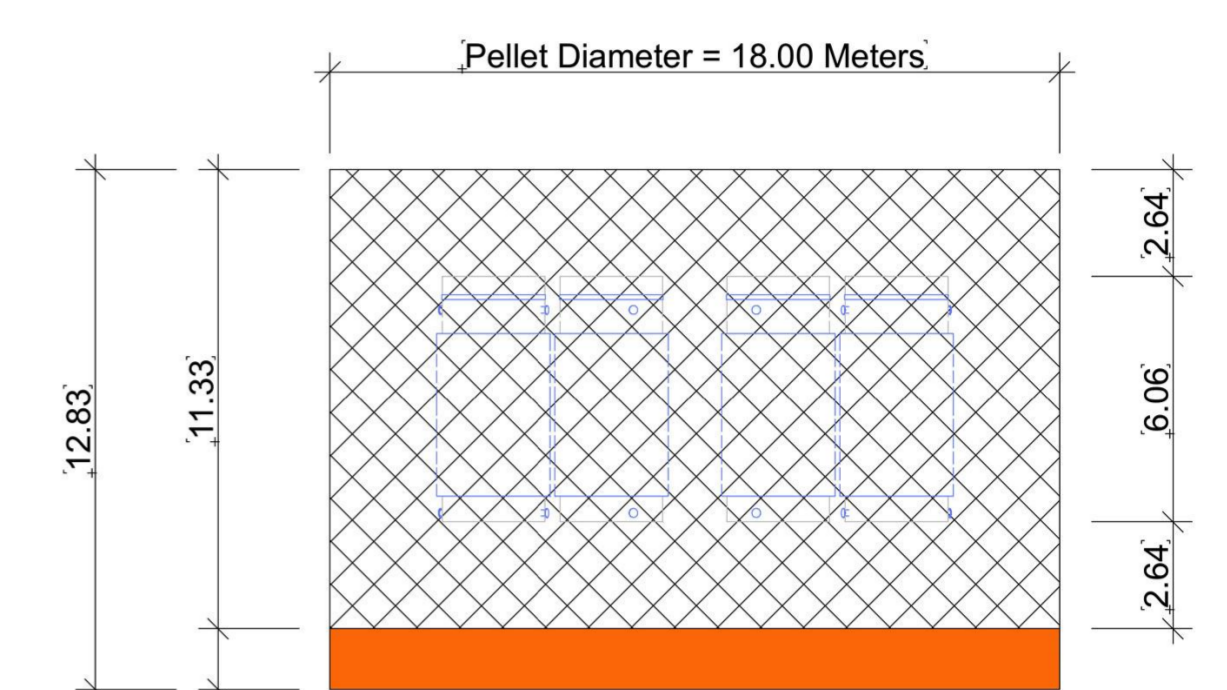


# DBHD 1.4.2 International

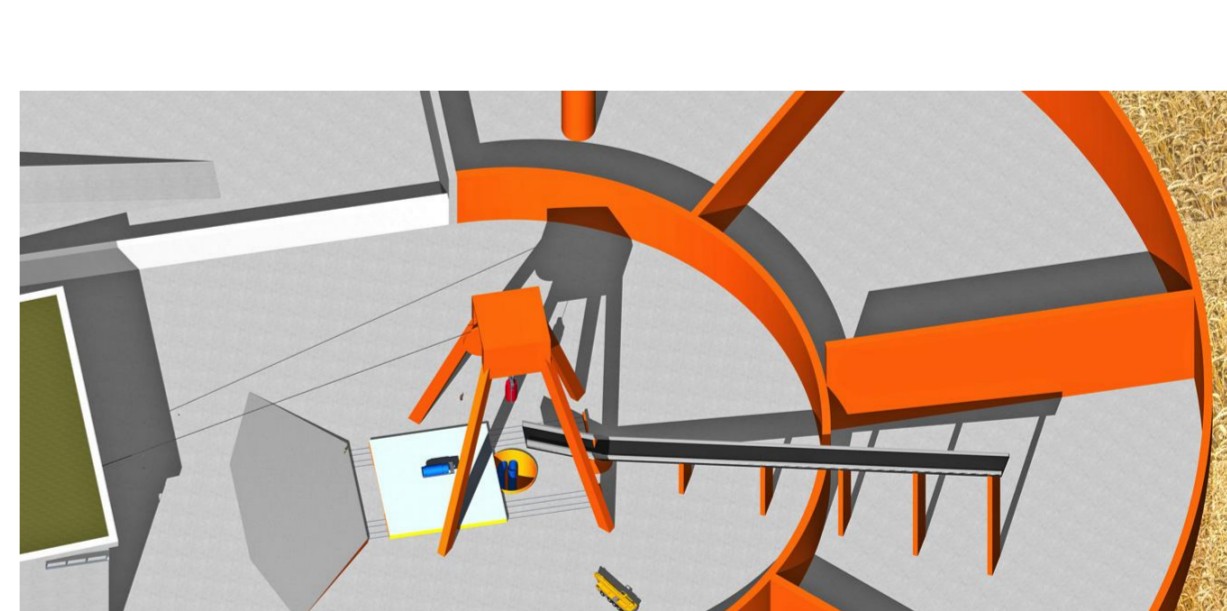
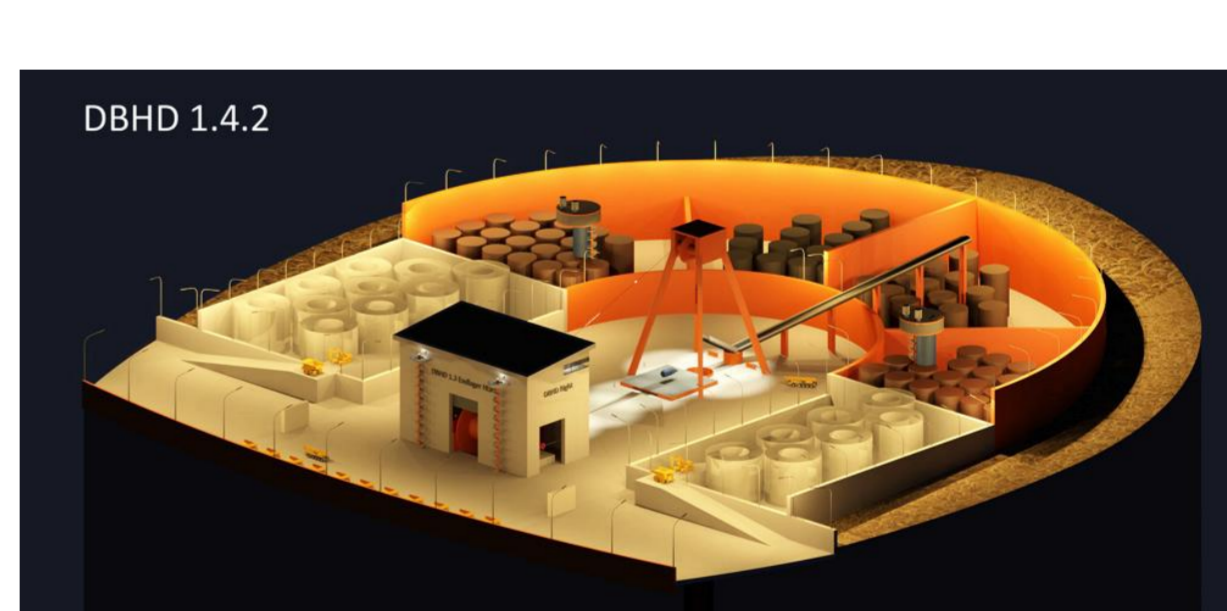
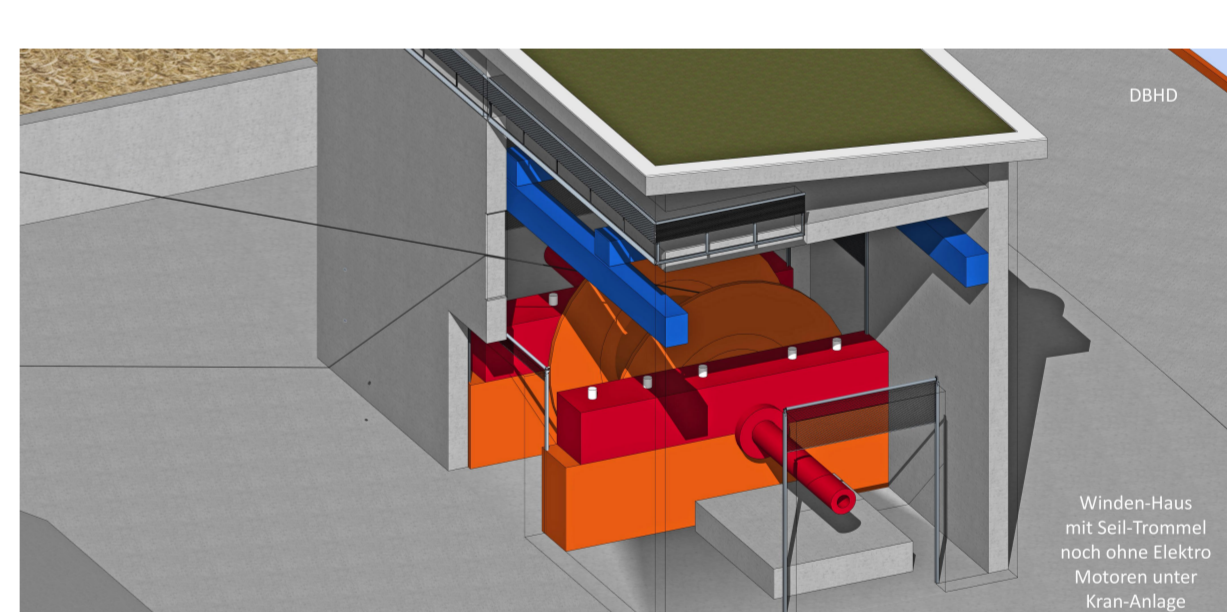
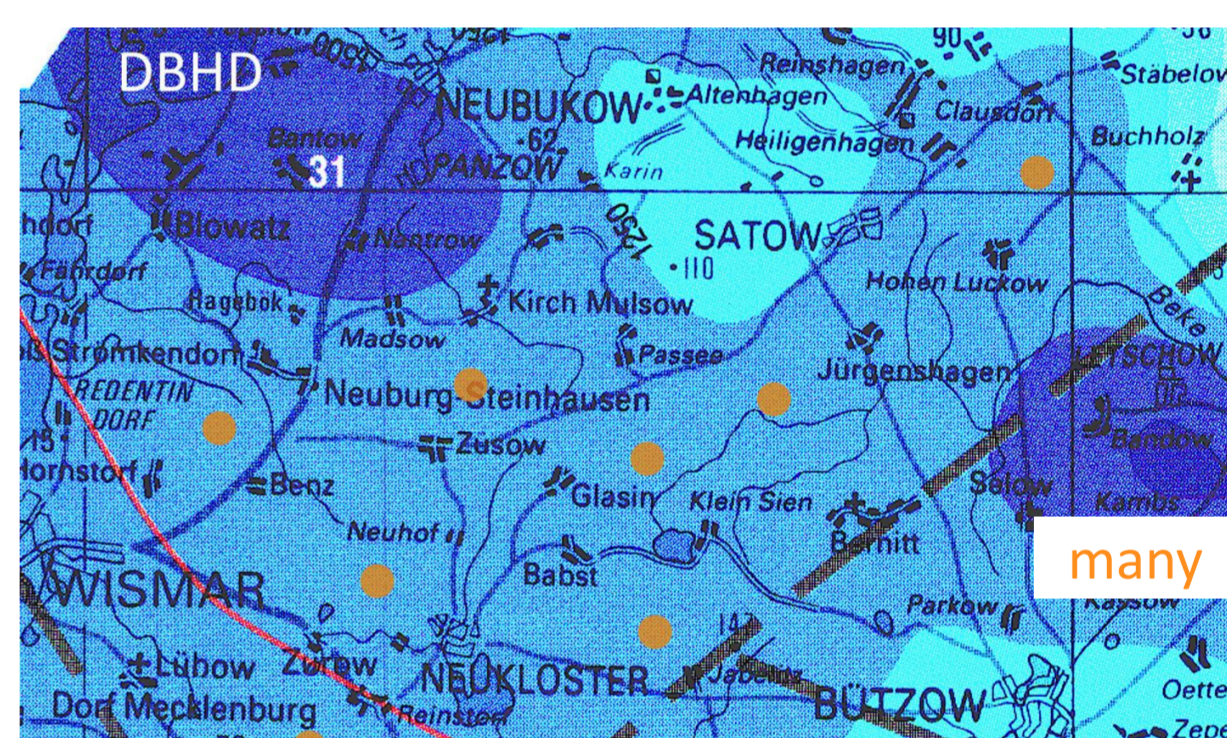
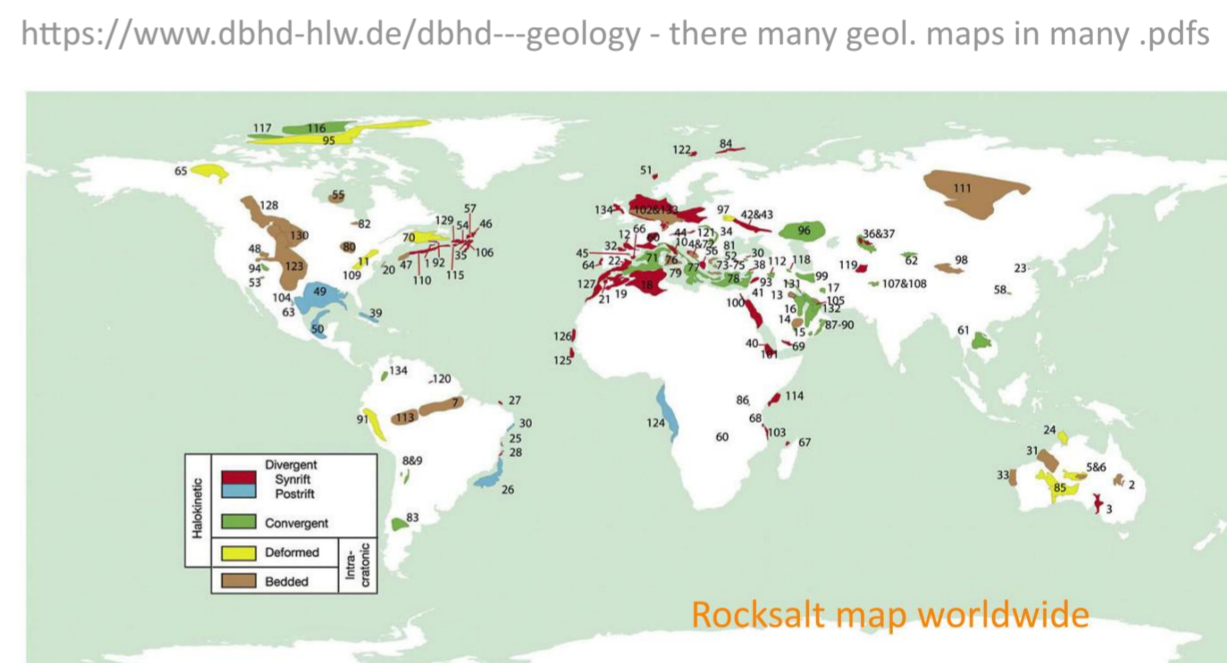
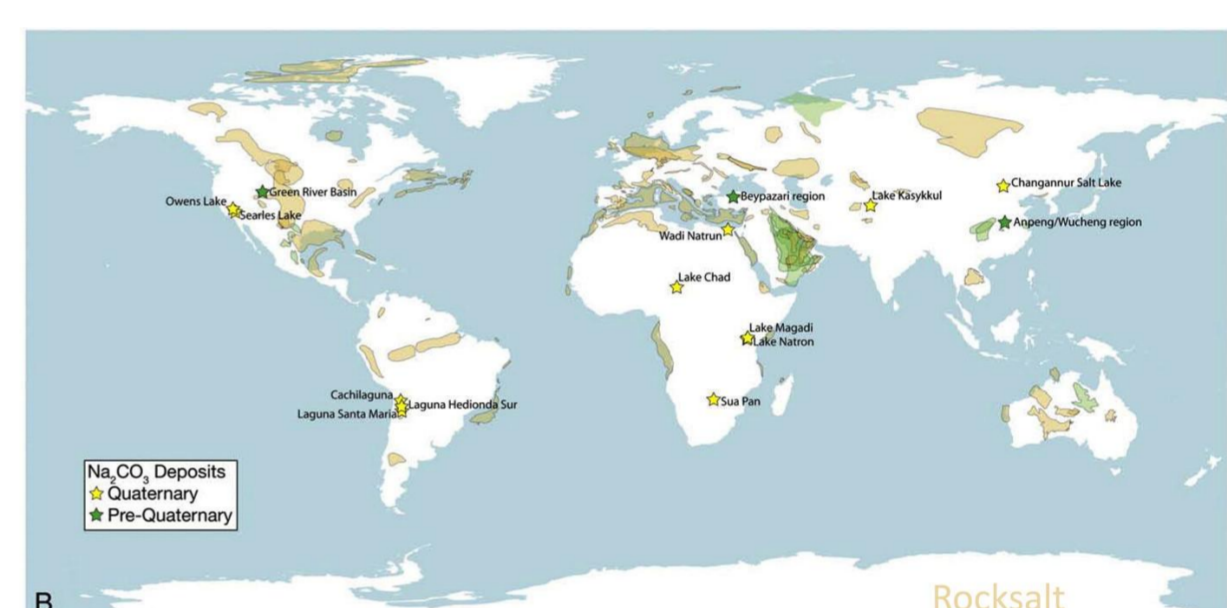
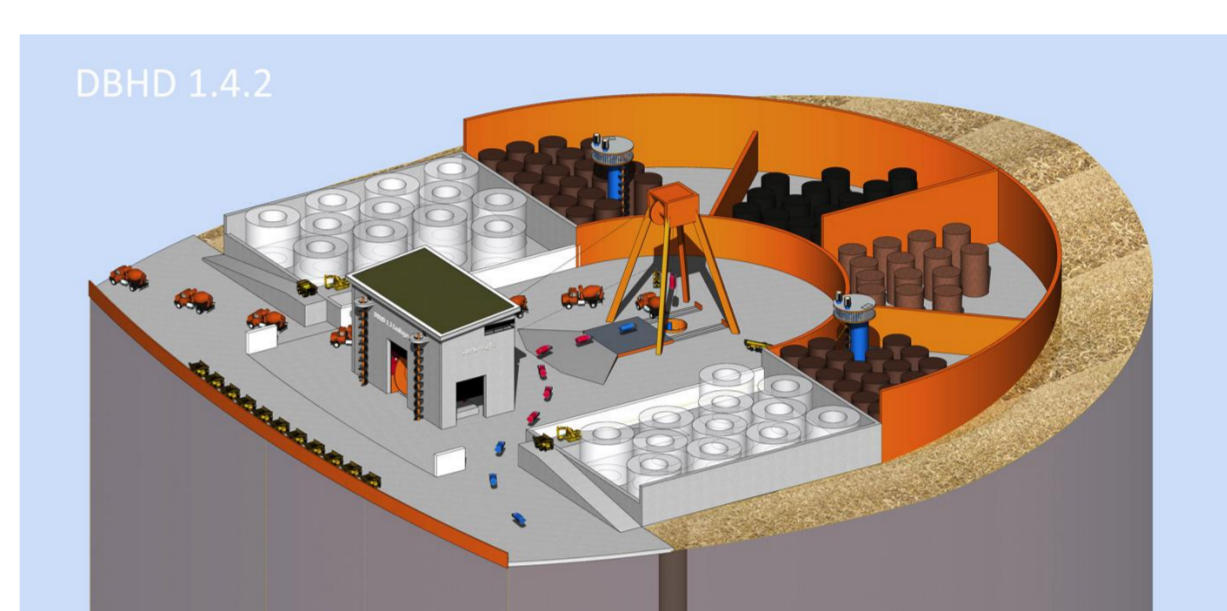
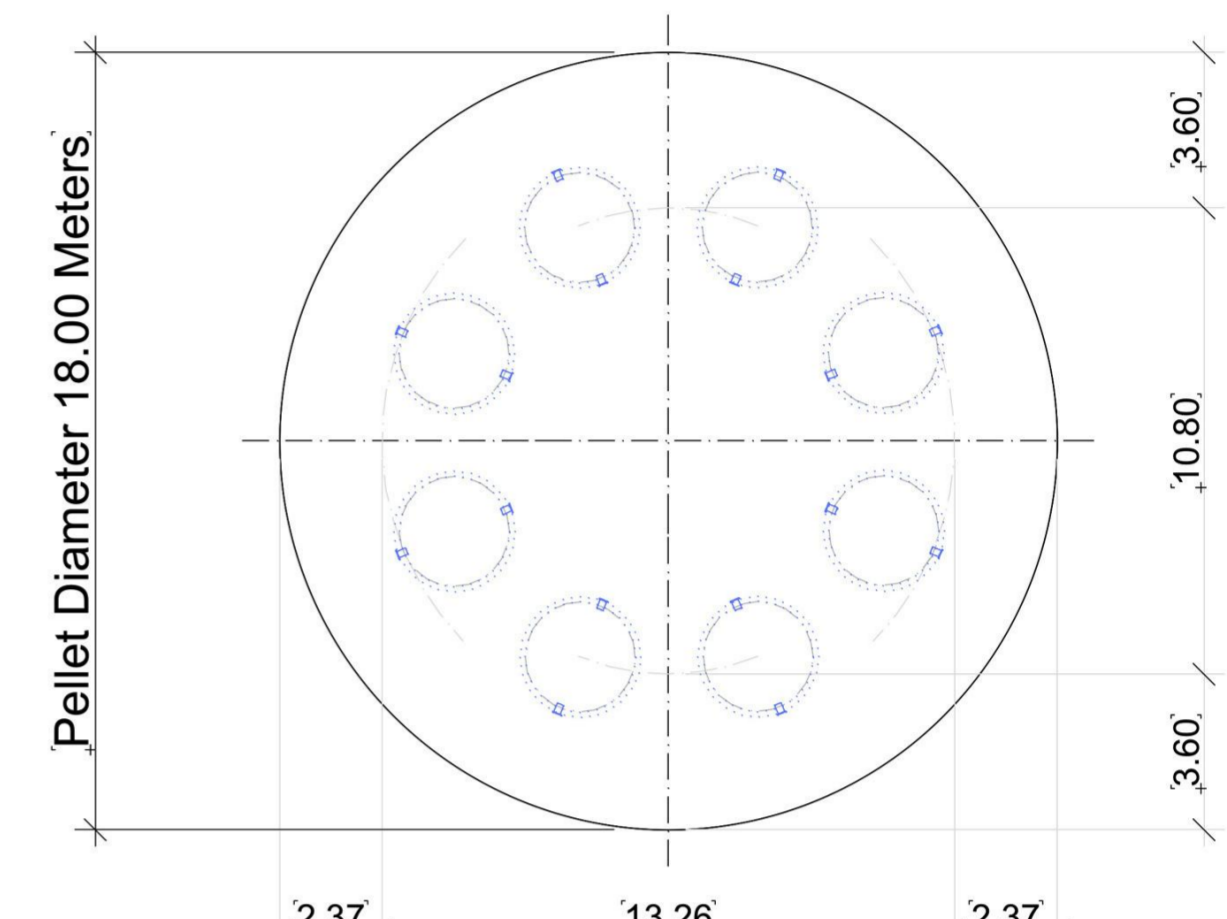


DBHD 1.4.2 International  
mid size pellet with 2.590 m³ concrete



Storage Area DBHD : D = 18 Meter / SBM Drill is D = 12 Meter

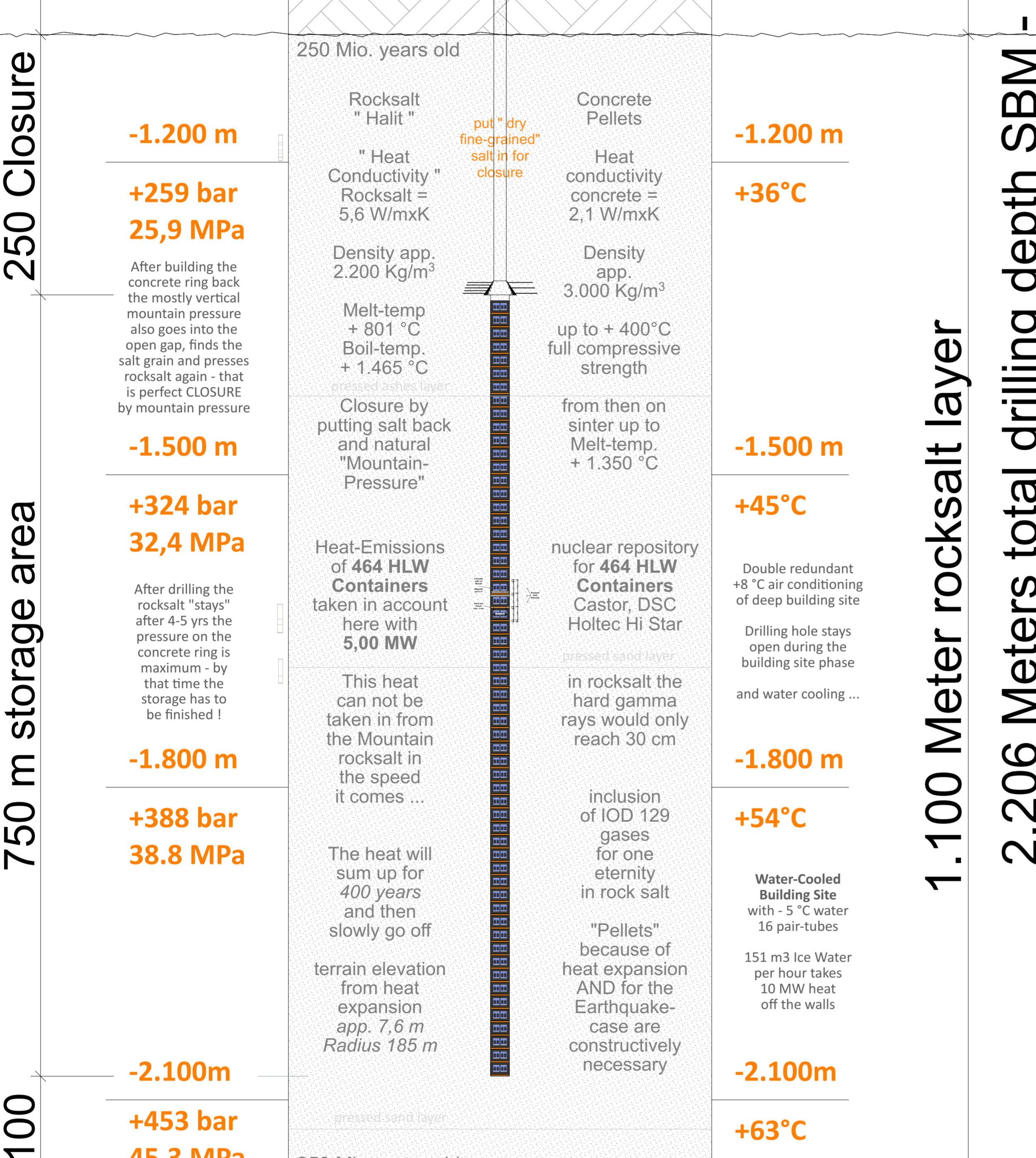
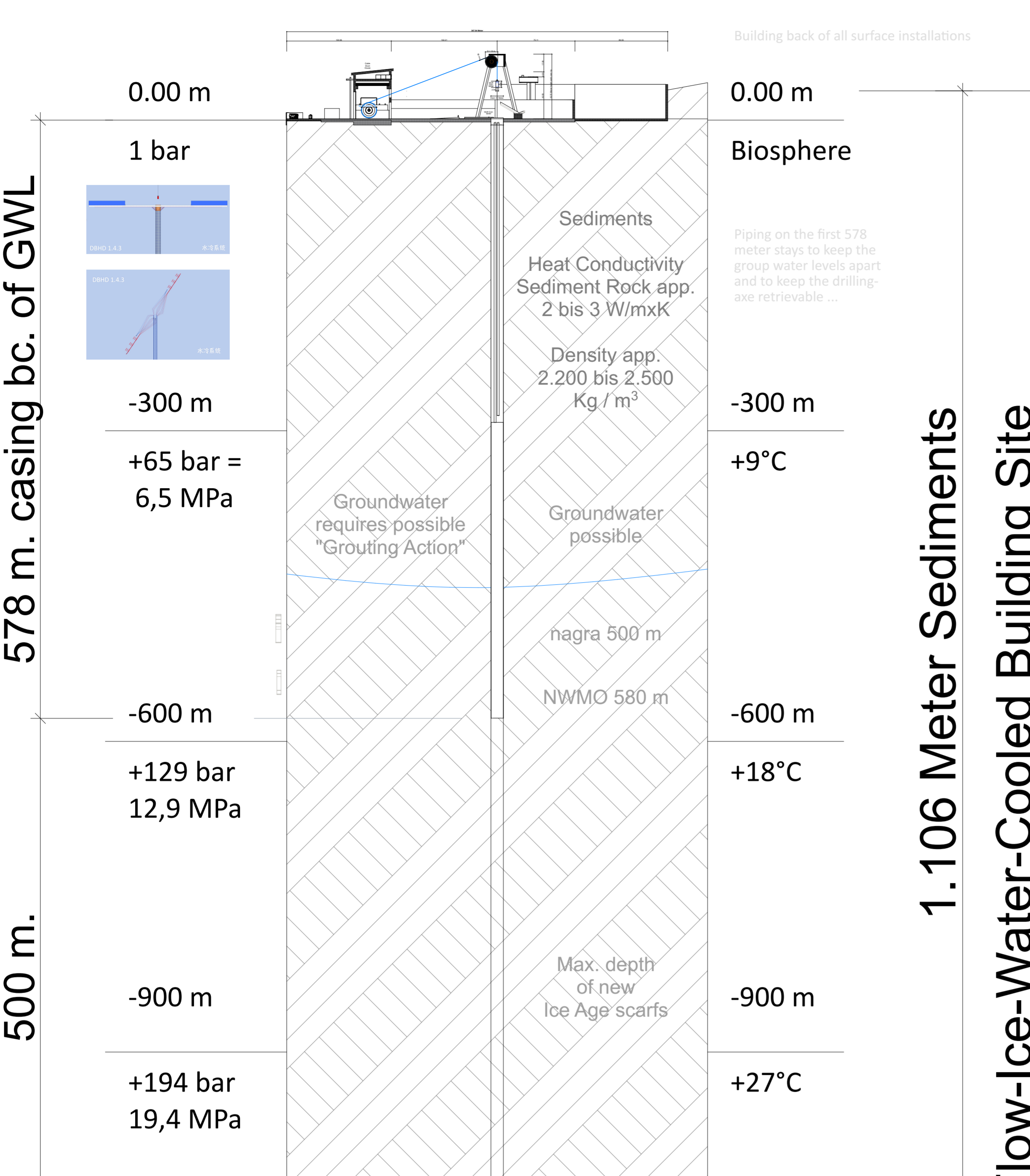
DBHD 1.4.2 International  
mid size pellet with 2.590 m³ concrete



Version 0.2.7									
Calculation 6x DBHD 1.4.2 nuclear repository International									
Last edit: 27. January 2020 / Dipl.-Ing. Volker Goebel CH, DE / Nuclear Repository Planner sw									
Capacity: 2.647 MW Containers Generated / plus 572 MW Containers from Switzerland									
Repository Storage Depth: from -1.350 Meters down to -2.180 Meters									
Based on: Draft/Plan from 2014 - 2020 actually in Version 1.4.2 with Time Table									
Investment									
Type of Invest	Amount	Offer / Quote	Factor	Total	Comment	Area	Depth	Start	End
11	Repository Piers	2016-2020 (4 yrs)	Ing. V. Goebel	80000000	310000000	4	Shell, Ribs, SBM	yes	
12	Probe-Drilling	2 x 2	Prof. Dr. G. Herres	80000000	160000000	4	Cores - 2.500 m	yes	
13	Soil Land Purchase	6,6 km²	from local sources	600000000	600000000	4	6 x 110.000 m²	yes	
14	South Ringing	2 x 2000	Herrmann/Goebel	400000000	400000000	4	2 x 2000 m	yes	
15	External streets	40 km	infill over	120000000	120000000	4	new / enhance	yes	
16	DB Ring Connection	6 x	DB Ring metal	30000000	30000000	4	1st of 6 locations	yes	
17	Internal connection	6 x	Steel/Aluminum	150000000	150000000	4	1st of 6 locations	yes	
18	Water connection	6 x	ind. water	180000000	180000000	4	1st of 6 locations	yes	
19	Internal connection	6 x	artificial	300000000	300000000	4	1st of 6 locations	yes	
20	Drill platform case	6 x	43.000 m³	15000	258000000	4	floors and walls	yes	
21	Mat. storage ring	6 x	70.000 m³	900	276000000	4	floors and walls	yes	
22	Storage Ribs	3 x 6		300000000	300000000	4	1st of 6 locations	yes	
23	Heavy Duty tracks	6 x		300000000	300000000	4	1st of 6 locations	yes	
24	Compaction	20.000 Tons	DB Ring/comp	30000	600000000	4	1st of 6 locations	yes	
25	Compaction	3.667 Tons	DB Ring/comp	30000	120000000	4	1st of 6 locations	yes	
26	Planning Offices	scientific expertise	many disciplines	220000000	220000000	4	cover 12 years	yes	
27	Approval fees	many agencies		500000000	500000000	4	DB, Gov. Agencies	yes	
28	Startband, SBM	6 x	Thyssen-Bornemisze	30000000	180000000	4	Temp. Structures	yes	
29	Shaft Drills 12 x 12 m	6 x	Thyssen-Bornemisze	335000000	335000000	4	1st of 6 locations	yes	
30	Spring-constr. wall	9,3 x 1.350 m	12.555 m³ x 6	600000	42.2000000	4	1st of 6 locations	yes	
31	Shaft completion	3 sets	Sieming Techno	300000000	300000000	4	Temp. Transport	yes	
32	Water connection	6 x	artificial	300000000	300000000	4	1st of 6 locations	yes	
33	Artificial connection	6 x	artificial	300000000	300000000	4	1st of 6 locations	yes	
34	Artificial connection	6 x	artificial	300000000	300000000	4	1st of 6 locations	yes	
35	Watercooling Sets	6 x	Steel/Hamburg	65000000	310000000	4	1st of 6 locations	yes	
36	Watercooling Sets	6 x	Steel/Hamburg	65000000	310000000	4	1st of 6 locations	yes	
37	Cable Drums	6 x	10000	15000	840000000	4	1st of 6 locations	yes	
38	Work-Over Rigs	3 x	Steel/Bullseye	32000000	96000000	4	with return pulley	yes	
39	Dynamic Ribs	6 x	concrete const.	19000000	114000000	4	1st of 6 locations	yes	
40	Transition Cone	6 x	concrete const.	8800000	52800000	4	12 m to 18 m.	yes	
41	Watercooling	6 x	10.000 m³	4.800000	28800000	4	1st of 6 locations	yes	
42	Watercooling	6 x	10.000 m³	4.800000	28800000	4	1st of 6 locations	yes	
43	Rocksalt Salt Sale	4 x 255.000 m³	rough quality	500000	200000000	4	1st of 6 locations	yes	
44	Concrete Pellets	58 Pellets	2.590 m³ x 18 x 6	600000	300000000	4	Quality Concrete	yes	
45	Approval fees	6 x	100 m³ x 18 x 6	600000	600000000	4	1st of 6 locations	yes	
46	Approval fees	18 Pellets	70 m³ x 18 x 6	700000	126000000	4	1st of 6 locations	yes	
47	Approval fees	18 Pellets	70 m³ x 18 x 6	700000	126000000	4	1st of 6 locations	yes	
48	Closure works	6 x	own Salt gran.	600000000	600000000	4	1st of 6 locations	yes	
49	Building back	6 x	own Salt gran.	110000000	110000000	4	1st of 6 locations	yes	
50	Unforeseeables	3%		110233344	110233344	4	not RB airport	yes	
51	Total	January 2020	Version 27		3'993'134'644				
52									
53									
54									
55									
56									
57									

HEIGHT LOCATION: GEOLOGY  
± 0.00 = 50 meters above sea l. (Location xx°xx'xx" North / xx°xx'xx" East) "near ..."  
Top Rocksalt -1.100 meters, Thickness 1.100 meters / geol. deepstep +3.0 °C / 100 meters

BUILDING		CLIENTS		DBHD 1.4.2 Developer	
DBHD 1.4.2 International deep safe nuclear repository "Deep Big Hole Disposal" / Vertical Castor Storage		464 HLW containers mean 4.640 tons net HLW per DBHD		Dipl.-Ing. Volker Goebel	
Deep, safe, geological HLW Container repository with Containers in concrete pellets in rocksalt - SBM drilling		China, Canada, USA, Lithuania, France, Netherlands, Brazil, India, Argentina, Russia and 23 other countries with NPP / HLW leftovers		Project Nr. 06 Version 1.4.2	
PLANNING		INGENIEUR-UND ARCHITECTURBÜRO GOEBEL / Dept. of nuclear waste		Dipl.-Ing. Volker Goebel	
8832 Wilen b. Wollerau, Switzerland / Ratsteich 15, 19057 Schwern		PLANNING		DATE: 01. February 2020	
DRAFT-DRAWINGS OF DBHD 1.4.2 International / Miniworld Example with 464 HLW Containers		PLANNING		SCALE: many - but all "to scale"	
024 DBHD_1.4.2_International_nucl_rep		PLANNING		PLANS: 1.682 x 594 mm put on a door	



Task	Start	End	Status
Task 1	2014-01-01	2014-03-31	Completed
Task 2	2014-04-01	2014-06-30	Completed
Task 3	2014-07-01	2014-09-30	Completed
Task 4	2014-10-01	2014-12-31	Completed
Task 5	2015-01-01	2015-03-31	Completed
Task 6	2015-04-01	2015-06-30	Completed
Task 7	2015-07-01	2015-09-30	Completed
Task 8	2015-10-01	2015-12-31	Completed
Task 9	2016-01-01	2016-03-31	Completed
Task 10	2016-04-01	2016-06-30	Completed
Task 11	2016-07-01	2016-09-30	Completed
Task 12	2016-10-01	2016-12-31	Completed
Task 13	2017-01-01	2017-03-31	Completed
Task 14	2017-04-01	2017-06-30	Completed
Task 15	2017-07-01	2017-09-30	Completed
Task 16	2017-10-01	2017-12-31	Completed
Task 17	2018-01-01	2018-03-31	Completed
Task 18	2018-04-01	2018-06-30	Completed
Task 19	2018-07-01	2018-09-30	Completed
Task 20	2018-10-01	2018-12-31	Completed
Task 21	2019-01-01	2019-03-31	Completed
Task 22	2019-04-01	2019-06-30	Completed
Task 23	2019-07-01	2019-09-30	Completed
Task 24	2019-10-01	2019-12-31	Completed
Task 25	2020-01-01	2020-03-31	Completed
Task 26	2020-04-01	2020-06-30	Completed
Task 27	2020-07-01	2020-09-30	Completed
Task 28	2020-10-01	2020-12-31	Completed
Task 29	2021-01-01	2021-03-31	Completed
Task 30	2021-04-01	2021-06-30	Completed
Task 31	2021-07-01	2021-09-30	Completed
Task 32	2021-10-01	2021-12-31	Completed
Task 33	2022-01-01	2022-03-31	Completed
Task 34	2022-04-01	2022-06-30	Completed
Task 35	2022-07-01	2022-09-30	Completed
Task 36	2022-10-01	2022-12-31	Completed
Task 37	2023-01-01	2023-03-31	Completed
Task 38	2023-04-01	2023-06-30	Completed
Task 39	2023-07-01	2023-09-30	Completed
Task 40	2023-10-01	2023-12-31	Completed
Task 41	2024-01-01	2024-03-31	Completed
Task 42	2024-04-01	2024-06-30	Completed
Task 43	2024-07-01	2024-09-30	Completed
Task 44	2024-10-01	2024-12-31	Completed
Task 45	2025-01-01	2025-03-31	Completed
Task 46	2025-04-01	2025-06-30	Completed
Task 47	2025-07-01	2025-09-30	Completed
Task 48	2025-10-01	2025-12-31	Completed
Task 49	2026-01-01	2026-03-31	Completed
Task 50	2026-04-01	2026-06-30	Completed
Task 51	2026-07-01	2026-09-30	Completed
Task 52	2026-10-01	2026-12-31	Completed
Task 53	2027-01-01	2027-03-31	Completed
Task 54	2027-04-01	2027-06-30	Completed
Task 55	2027-07-01	2027-09-30	Completed
Task 56	2027-10-01	2027-12-31	Completed
Task 57	2028-01-01	2028-03-31	Completed
Task 58	2028-04-01	2028-06-30	Completed
Task 59	2028-07-01	2028-09-30	Completed
Task 60	2028-10-01	2028-12-31	Completed
Task 61	2029-01-01	2029-03-31	Completed
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Task 65	2030-01-01	2030-03-31	Completed
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Task 70	2031-04-01	2031-06-30	Completed
Task 71	2031-07-01	2031-09-30	Completed
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Task 75	2032-07-01	2032-09-30	Completed
Task 76	2032-10-01	2032-12-31	Completed
Task 77	2033-01-01	2033-03-31	Completed
Task 78	2033-04-01	2033-06-30	Completed
Task 79	2033-07-01	2033-09-30	Completed
Task 80	2033-10-01	2033-12-31	Completed
Task 81	2034-01-01	2034-03-31	Completed
Task 82	2034-04-01	2034-06-30	Completed
Task 83	2034-07-01	2034-09-30	Completed
Task 84	2034-10-01	2034-12-31	Completed
Task 85	2035-01-01	2035-03-31	Completed
Task 86	2035-04-01	2035-06-30	Completed
Task 87	2035-07-01	2035-09-30	Completed
Task 88	2035-10-01	2035-12-31	Completed
Task 89	2036-01-01	2036-03-31	Completed
Task 90	2036-04-01	2036-06-30	Completed
Task 91	2036-07-01	2036-09-30	Completed
Task 92	2036-10-01	2036-12-31	Completed
Task 93	2037-01-01	2037-03-31	Completed