APPENDIX 1

Mineralogical characteristics of rock samples using XRD analysis

No.	Borehole	Sample	Age	Lithology	Depth [m]	Geological unit	Quartz (Q)	Feldspars (Fd)	Calcite (C)	Dolomite (D)	Halite (Ha)	Siderite (Sy)	Pyrite (P)	Hematite (Hm)	Ankerite (A)	Kaolinite (Kl)	Micas (M)	Chlorite (Ch)	Potassium feldspars (Fd-K)	Plagioclase (Pl)	Sum of clay minerals (Σclay)
							[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
1	Zakrzyn IG 1	891	P1	s	4425	Fore-Sudetic Homocline	65	13	-	10	-	-	-	1	2	-	-	-	-	-	9
2	Czaplinek IG 2	892	P1	s	4016	Pomeranian Anticlinorium	84	2	8	<1	-	-	-	<1	-	-	-	-	-	-	4
3	Zabartowo-1	893	P1	c	3956	Pomeranian Anticlinorium	21	12	17	5	1	-	-	1	<1	-	-	-	-	-	42
4	Brudzewek-1	889	C	c	3818	Fore-Sudetic Homocline	46	7	1	1	1	-	-	2	1	-	-	-	-	-	41
5	Zabartowo-2	894	C	s	4500	Pomeranian Anticlinorium	90	-	6	1	-	-	-	-	-	-	-	-	-	-	3
6	Bielsk-2	129	Cw	s	4545	Warsaw Synclinorium	84.1	-	-	-	-	1.3	-	-	-	4.6	4.7	5.3	-	-	14.6
7	Bielsk-2	141	Cw	s	4589	Warsaw Synclinorium	86	-	-	-	-	-	-	-	2.3	6.5	4.1	-	-	-	10.6
8	Koszalin IG 1	887	Cwi	s	3008	Pomeranian Synclinorium	76	1	1	-	-	-	<1	-	19	-	-	-	-	-	2
9	Moracz IG 1	890	Cwi	s	4650	Pomeranian Anticlinorium	85	<1	11	1	-	-	-	<1	-	-	-	-	-	-	1
10	Opoczno PIG 2	896	Cwi	s	3045	Holy Cross Mts. Anticlinorium	31	36	7	4	-	-	1	-	-	-	-	-	-	-	21
11	Ustronie IG 1	888	Ct	s	3154	Pomeranian Anticlinorium	93	-	<1	2	-	-	-	<1	2	-	-	-	-	-	1
12	Dygowo-1	137	Ct	s	3790	Pomeranian Anticlinorium	24.8	-	0.5	1.4	-	-	-	-	-	0.9	11	2.9	43.7	14.8	14.8
13	Lublin IG 1	883	D2	s	4508	Lublin Synclinorium	89	2	1	-	-	-	-	-	-	-	-	-	-	-	8
14	Radawiec Mały-1	139	De	c	4304	Lublin Synclinorium	48	-	-	13.2	-	-	3.8	-	-	0.2	31.5	1.1	2.2	-	32.8
15	Maciejowice IG 1	881	D1	s	4374	Warsaw Synclinorium	50	27	1	2	<1	-	-	-	-	-	-	-	-	-	19
16	Krępiec-1	130	Dem	c	4501	Lublin Synclinorium	50.4	-	0.6	0.2	-	-	-	3.1	-		27.5	7.8	4.4	6	35.3
17	Ulhówek IG 1	886	Dem	s	3037	Lublin Synclinorium	97	-	1	-	-	-	<1	-	-	-	-	-	-	-	1
18	Słupsk IG 1	872	Sw	c	3546	Peri-Baltic Syneclise	46	21	10	3	1		1		<1						17
19	Lębork IG 1	879	Sla	c	3247	Peri-Baltic Syneclise	33	2	30	2	-	-	-	-	-	-	-	-	-	-	33
20	Terebin IG 5	877	Ot	s	3034	Lublin Synclinorium	94	<1	<1	2	-	-	-	-	-	-	-	-	-	-	2
21	Goczałkowice IG 1	873	Cm	s	3012	Upper Silesian Trough	78	7	<1	<1	<1	-	-	1	-	-	-	-	-	-	11
22	Łopiennik IG 1	874	Cm2	s	4588	Lublin Synclinorium	99	-	-	-	-	-	-	-	-	-	-	-	-	-	1
23	Prabuty IG 1	871	Cm2	s	3460	Peri-Baltic Syneclise	99	-	-	1	-	-	-	-	-	-	-	-	-	-	
24	Hel IG 1	869	Cm1	s	3457	Peri-Baltic Syneclise	92	1	<1	-	-	-	-	-	-	-	-	-	-	-	6
25	Okuniew IG 1	870	Cm1	s	4106	Warsaw Synclinorium	83	6	<1	3	<1	-	1	-	-	-	-	-	-	-	5
26	Siedliska IG 1	876	Cm1	s	3007	Mazovia-Lublin Graben	65	18	1	<1	-	-	<1	-	-	-	-	-	-	-	15
27	Żarnowiec IG 1	878	Cm1	s	3233	Peri-Baltic Syneclise	79	<1	1	<1	<1	-	-	1	<1	-	-	-	-	-	16
28	Busówno IG 1	868	Pt	s	4153	Lublin Synclinorium	74	21	1	1	-	-	-	1	-	-	-	-	-	-	2

s – sandstone, c – claystone; Pt – Precambrian, Cm – Cambrian, Cm1 – Lower Cambrian, Cm2 – Middle Cambrian, Ot – Ordovician, Tremadoc, Sla – Silurian, Llandoverian, Sw – Silurian, Wenlock, D1 – Lower Devonian, D2 – Middle Devonian, Dem – Devonian, Emsian, De – Devonian, Eifelian, C – Carbonifereous, Cwi – Carboniferous, Visean, Ct – Carboniferous, Tournaisian, Cw – Carboniferous, Westphalian, P1 – Lower Permian