

APPENDIX 2
Petrographic composition of the Devonian rocks

Borehole	Sample code	Stratigraphy	Lithology	Depth [m]	% composition									
					Clastic			Authi- genic	Carbonate		Evapo- rite	Clayey	Acces- sory	Ore
					Q	Fl	Ms	Gl	Ca	DI	An	Hm	Zr	Pr
Abramów-1	Ab-1	Famennian	biodetrital limestones	3074.0	n.d.	n.d.	n.d.	n.d.	92	6	n.d.	1	n.d.	1
Lublin IG 1	Lb-1	Famennian	biodetrital limestones	2397.3	n.d.	n.d.	n.d.	n.d.	89	8	n.d.	1.5	n.d.	1.5
Świdnik IG 1	Sw-1	Famennian	calcareous dolomites	2602.5	n.d.	n.d.	n.d.	n.d.	39	53	n.d.	3	n.d.	5
Świdnik IG 1	Sw-1	Famennian	calcareous dolomites	2216.0	n.d.	n.d.	n.d.	n.d.	20.5	78	n.d.	1	n.d.	0.5
Korczmín IG 2	Kr-2	Famennian	dolomites	1354.2	n.d.	n.d.	n.d.	n.d.	n.d.	93	n.d.	2	n.d.	5
Świdnik IG 1	Sw-1	Famennian	dolomites	2487.9	n.d.	n.d.	n.d.	n.d.	6.5	92	n.d.	n.d.	n.d.	0.5
Korczmín IG 2	Kr-2	Famennian	dolomites	1590.5	n.d.	n.d.	n.d.	n.d.	7	89	n.d.	2	n.d.	2
Ciecierzyn-1	Cn-1	Famennian	dolomites	3776.5	n.d.	n.d.	n.d.	n.d.	n.d.	93	n.d.	2	n.d.	5
Lublin IG 1	Lb-1	Famennian	marls	3512.6	n.d.	n.d.	n.d.	n.d.	43.5	6.5	n.d.	46	n.d.	4
Lublin IG 1	Lb-1	Famennian	marls	3529.5	n.d.	n.d.	n.d.	n.d.	48	9.5	n.d.	37.5	n.d.	5
Lublin IG 1	Lb-1	Famennian	marls	3547.5	n.d.	n.d.	n.d.	n.d.	40	11.5	n.d.	43.5	n.d.	5
Abramów-1	Ab-1	Famennian	marls	4105.0	n.d.	n.d.	n.d.	n.d.	39	9.5	n.d.	47	n.d.	4.5
Lublin IG 1	Lb-1	Famennian	sandstones	2195.4	73	4	n.d.	5	n.d.	0.5	n.d.	14.5	n.d.	3
Lublin IG 1	Lb-1	Famennian	sandstones	2210.9	73	5	1.5	1	n.d.	1	n.d.	18	n.d.	1
Lublin IG 1	Lb-1	Famennian	sandstones	2224.6	65	6	2	1	n.d.	3	n.d.	21	n.d.	1
Glínnik- 2	Gl-1	Famennian	sandstones	2330.5	72	3	n.d.	7	n.d.	0.5	n.d.	12.5	n.d.	5
Abramów-1	Ab-1	Frasnian	dolomites	4632.0	n.d.	n.d.	n.d.	n.d.	n.d.	93	n.d.	3	n.d.	4
Abramów-1	Ab-1	Frasnian	dolomites	4369.0	n.d.	n.d.	n.d.	n.d.	n.d.	98	n.d.	1	n.d.	1
Krekhiv-1	Kkh-1	Frasnian	dolomites	1564.0	n.d.	n.d.	n.d.	n.d.	n.d.	95	n.d.	3	n.d.	2
Korczmín IG 2	Kr-2	Frasnian	dolomites	2000.0	n.d.	n.d.	n.d.	n.d.	n.d.	98.7	n.d.	1	n.d.	0.3
Lublin IG 1	Lb-1	Frasnian	dolomites	4234	n.d.	n.d.	n.d.	n.d.	n.d.	98	n.d.	1.5	n.d.	0.5
Krekhiv-1	Kkh-1	Frasnian	calcareous dolomites	1489.3	n.d.	n.d.	n.d.	n.d.	30	66	n.d.	2	n.d.	2
Krekhiv-1	Kkh-1	Frasnian	calcareous dolomites	1503.7	n.d.	n.d.	n.d.	n.d.	29	64	n.d.	2	n.d.	5
Lokachi-4	Lo-4	Frasnian	dolomites with anhydrite concretions	841.7	n.d.	n.d.	n.d.	n.d.	n.d.	80	18	2	n.d.	n.d.
Gielczew IG 1	Gi-1	Frasnian	dolomites with anhydrite concretions	1750	n.d.	n.d.	n.d.	n.d.	n.d.	77	20	3	n.d.	n.d.
Komarów IG 1	Ko-1	Givetian	dolomites	2321.5	n.d.	n.d.	n.d.	n.d.	n.d.	93	n.d.	5	n.d.	2
Peremyshliany-1	Pe-1	Givetian	dolomites	1033.0	n.d.	n.d.	n.d.	n.d.	n.d.	92	n.d.	4	n.d.	4
Peremyshliany-1	Pe-1	Givetian	dolomites	1038.0	n.d.	n.d.	n.d.	n.d.	n.d.	92	n.d.	5	n.d.	3
Lokachi-4	Lo-4	Givetian	dolomites	886.0	n.d.	n.d.	n.d.	n.d.	n.d.	97	n.d.	2	n.d.	1
Lokachi-5	Lo-5	Givetian	dolomites	885.0	n.d.	n.d.	n.d.	n.d.	n.d.	96	n.d.	3	n.d.	1
Lokachi-5	Lo-5	Givetian	dolomites	905.6	n.d.	n.d.	n.d.	n.d.	n.d.	88	7	2	n.d.	3
Lokachi-5	Lo-5	Givetian	dolomites	903.4	n.d.	n.d.	n.d.	n.d.	n.d.	95	2	n.d.	n.d.	3
Krekhiv-1	Kkh-1	Givetian	dolomites	1745.0	n.d.	n.d.	n.d.	n.d.	n.d.	95	n.d.	3	n.d.	2
Krekhiv-1	Kkh-1	Givetian	dolomites	1791.0	n.d.	n.d.	n.d.	n.d.	n.d.	93	n.d.	3	n.d.	4
Krekhiv-1	Kkh-1	Givetian	dolomites	1809.0	n.d.	n.d.	n.d.	n.d.	n.d.	96	n.d.	2	n.d.	2
Lokachi-27	Lo-27	Givetian	dolomites	832.0	n.d.	n.d.	n.d.	n.d.	n.d.	96	n.d.	2	n.d.	2
Lokachi-27	Lo-27	Givetian	dolomites	845.0	0.3	n.d.	n.d.	n.d.	4.7	92	n.d.	2	n.d.	1
Lokachi-5	Lo-5	Givetian	calcareous dolomites	831.7	n.d.	n.d.	n.d.	n.d.	21	75	n.d.	3	n.d.	1
Peremyshliany-1	Pe-1	Givetian	calcareous dolomites	972.0	n.d.	n.d.	n.d.	n.d.	23	73	n.d.	3	n.d.	1
Korczmín IG 2	Kr-2	Givetian	marly dolomites	2380.9	n.d.	n.d.	n.d.	n.d.	n.d.	51	n.d.	47	n.d.	2
Gielczew IG 1	Gi-1	Givetian	marly dolomites	2133.4	n.d.	n.d.	n.d.	n.d.	n.d.	74	n.d.	18	n.d.	8
Lokachi-27	Lo-27	Givetian	biodetrital dolomitized limestones	816.0	n.d.	n.d.	n.d.	n.d.	69	24	n.d.	2	n.d.	5
Lokachi-27	Lo-27	Givetian	biodetrital dolomitized limestones	861.0	n.d.	n.d.	n.d.	n.d.	68	25	n.d.	3	n.d.	4
Lokachi-5	Lo-5	Givetian	biodetrital dolomitized limestones	856.6	n.d.	n.d.	n.d.	n.d.	76	23	n.d.	1	n.d.	n.d.
Lokachi-5	Lo-5	Givetian	dolomites with anhydrite concretions	841.9	n.d.	n.d.	n.d.	n.d.	n.d.	76	17	3	n.d.	4
Lokachi-5	Lo-5	Givetian	dolomites with anhydrite concretions	864.4	n.d.	n.d.	n.d.	n.d.	n.d.	73	27	n.d.	n.d.	n.d.
Peremyshliany-1	Pe-1	Givetian	dolomites with anhydrite concretions	1006.0	n.d.	n.d.	n.d.	n.d.	n.d.	69	30	n.d.	n.d.	1
Lokachi-27	Lo-27	Givetian	anhydrites	827.8	n.d.	n.d.	n.d.	n.d.	n.d.	15	79	1	n.d.	5
Lokachi-5	Lo-5	Givetian	anhydrites	823.0	n.d.	n.d.	n.d.	n.d.	n.d.	20	70	10	n.d.	n.d.
Lokachi-5	Lo-5	Givetian	anhydrites	847.4	n.d.	n.d.	n.d.	n.d.	n.d.	16	83	1	n.d.	n.d.
Lokachi-27	Lo-27	Givetian	sandstones	833.0	80	n.d.	n.d.	n.d.	n.d.	19	n.d.	n.d.	0.3	0.7
Lokachi-27	Lo-27	Givetian	sandstones	837.0	91	n.d.	n.d.	1	n.d.	4.5	n.d.	n.d.	0.5	3
Lokachi-27	Lo-27	Givetian	sandstones	838.0	91	n.d.	n.d.	n.d.	n.d.	5.7	n.d.	n.d.	0.3	3
Lokachi-27	Lo-27	Givetian	sandstones	851.0	94	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	3	n.d.	3
Lokachi-5	Lo-5	Givetian	sandstones	814.0	95	n.d.	n.d.	n.d.	n.d.	5	n.d.	n.d.	n.d.	n.d.
Lokachi-27	Lo-27	Givetian	siltstones	863.0	67	3	2	1	n.d.	5	n.d.	22	2	4
Lokachi-3	Lo-3	Givetian	siltstones	950	71	2.5	3	1	n.d.	4	n.d.	15	2	5
Korczmín IG 2	Kr-2	Eifelian	dolomites	2488.0	1	n.d.	n.d.	n.d.	n.d.	94	n.d.	2	n.d.	3
Komarów IG 1	Ko-1	Eifelian	sandstones	2432.3	87	5	5	n.d.	n.d.	2.5	n.d.	0.5	n.d.	n.d.
Gielczew IG 1	Gi-1	Eifelian	sandstones	2235	89	5	2	n.d.	n.d.	2	n.d.	2	n.d.	n.d.
Gielczew IG 1	Gi-1	Eifelian	dolomites with anhydrites	2141	n.d.	n.d.	n.d.	n.d.	n.d.	48	51	1	n.d.	n.d.
Komarów IG 1	Ko-1	Eifelian	dolomites with anhydrites	2455.6	n.d.	n.d.	n.d.	n.d.	n.d.	41	58	1	n.d.	n.d.
Gielczew IG 1	Gi-1	Emsian	sandstones	2344.1	90	n.d.	n.d.	n.d.	n.d.	0.5	n.d.	9.5	n.d.	n.d.
Komarów IG 1	Ko-1	Emsian	siltstones	2531.2	60	n.d.	3	3.3	n.d.	0.2	n.d.	26	0.5	7
Korczmín IG 2	Kr-2	Emsian	siltstones	2499.7	65	5	3	3	n.d.	0.5	n.d.	23	0.5	n.d.
				Number of samples	Average									
		Famennian	biodetrital limestones	2	n.d.	n.d.	n.d.	n.d.	90.5	7	n.d.	1.25	n.d.	1.25
		Famennian	calcareous dolomites	2	n.d.	n.d.	n.d.	n.d.	24.5	71.6	n.d.	1.7	n.d.	2.2
		Famennian	dolomites *	4	n.d.	n.d.	n.d.	n.d.	3.5	91.8	n.d.	1.5	n.d.	3.2
		Famennian	sandstones *	4	71	4.5	0.8	3.5	n.d.	1.2	n.d.	16.5	n.d.	2.5
		Famennian	marls *	4	n.d.	n.d.	n.d.	n.d.	42.6	9.3	n.d.	43.5	n.d.	4.6
		Frasnian	dolomites *	5	n.d.	n.d.	n.d.	n.d.	n.d.	96.5	n.d.	1.9	n.d.	1.6
		Frasnian	calcareous dolomites	2	n.d.	n.d.	n.d.	n.d.	29.5	65	n.d.	2	n.d.	3.5
		Frasnian	dolomites with anhydrite concretions	2	n.d.	n.d.	n.d.	n.d.	n.d.	78.5	19	2.5	n.d.	n.d.
		Givetian	dolomites *	12	n.d.	n.d.	n.d.	n.d.	0.4	93.5	0.82	2.82	n.d.	2.46
		Givetian	calcareous dolomites	2	n.d.	n.d.	n.d.	n.d.	22	74	n.d.	3	n.d.	1
		Givetian	marly dolomites	2	n.d.	n.d.	n.d.	n.d.	n.d.	62.5	n.d.	32.5	n.d.	5
		Givetian	biodetrital dolomitized limestones *	3	n.d.	n.d.	n.d.	n.d.	71	24.5	n.d.	2	n.d.	2.5
		Givetian	dolomites with anhydrite concretions	3	n.d.	n.d.	n.d.	n.d.	n.d.	72.7	24.7	1	n.d.	1.6
		Givetian	anhydrites	3	n.d.	n.d.	n.d.	n.d.	n.d.	17	77.3	4	n.d.	1.7
		Givetian	sandstone *	5	90.2	n.d.	n.d.	0.2	n.d.	6.84	n.d.	0.6	0.22	1.94
		Givetian	siltstones *	2	69	2.75	2.5	1	n.d.	4.5	n.d.	18.5	2	4.5
		Eifelian	sandstones	2	88	5	3.5	n.d.	n.d.	2.25	n.d.	1.25	n.d.	n.d.
		Eifelian	dolomites with anhydrites	2	n.d.	n.d.	n.d.	n.d.	n.d.	44.5	54.5	1	n.d.	n.d.

Q – quartz; Fl – feldspar; Ms – muscovite; Gl – glauconite; Ca – calcite; DI – dolomite; An – anhydrite; Hm – hydromica; Zr – zircon; Pr – pyrite; n.d. – not determined; * – reservoir rocks from gas and oil producing and adjacent boreholes