SOUTHERN NORTH SEA STRATIGRAPHY

DX GEOLOGICAL

ERA / PERIOD	SUPER GROUP	GROUP	FORMATION	MEMBER	LITHOLOGY	DESCRIPTION	AGE Ma
PLEISTOCENE			UNDIFFERENTIATED			Dark grey glutinous clay containing pebbles and/or bands of chert, igneous rock, loose sand grains, coal, limestone, shell fragments etc.	0.0
TERTIARY		NORTH SEA	UNDIFFERENTIATED			Soft grey clay with occasional sand horizons, shell fragments, glauconite, the clays can be micromicaceous.	1.6
CRETACEOUS		CHALK	UNDIFFERENTIATED			White to pale grey Chalk, becoming pink to red near the base. Often with abundant chert.	65.0
			PLENUS MARL			Dark grey/black carbonaceous Claystone.	
			HIDRA			White to light grey Chalk, becoming pink towards base. Minor Chert.	
		CROMER KNOLL	RED CHALK			Pink Chalk to red-brown Marls and calcareous Claystones.	
			SPEETON CLAY			Medium to dark grey Claystones and Shales	
			SPILSBY SANDSTONE			Very fine to medium grained, unconsolidated Sandstone.	
JURASSIC		HUMBER	KIMMERIDGE CLAY			Grey to dark grey Claystone.	152.1
			CORALLIAN LIMESTONE			Pale grey and oolitic Limestone.	
			OXFORD CLAY			Grey Claystone with ironstone nodules.	
		WEST SOLE	UNDIFFERENTIATED			Grey Claystone with beds of Siltstone and thin Sandstone.	
		LIAS	UNDIFFERENTIATED			Variably light grey, grey, dark grey and greyish green, micromicaceous and pyritic Claystones.	209.5
TRIASSIC		RHAETIC	WINTERTON			Typically red or grey-green non-calcareous Claystones.	
				RHAETIC SANSTONE		Fine to medium grained Sandstone often with Dolomite or Dolomitic Limestone stringers.	
						Typically red or grey-green non-calcareous Claystones.	
		HAISBOROUGH	TRITON ANHYDRITIC	UPPER KEUPER		Red-brown Claystone with subordinate amounts of grey-green Claystone. Traces of Anhydrite and Dolomite may occur throughout.	
				KEUPER ANHYDRITIC			
				MIDDLE KEUPER			
			DUDGEON SALIFEROUS	KEUPER HALITE		Halite, colourless or pale yellow orange.	
				LOWER KEUPER		Red-brown Claystones with nodules and thin beds of anhydrite.	
			DOWSING DOLOMITIC	UPPER DOWSING		Red-brown Claystones with nodules and thin anhydrites. Slightly more Dolomitic than above.	
				MUSCHELKALK HALITE		Colourless or pale yellow orange Halite.	
				LOWER DOWSING		Red-brown Claystone with grey-green Claystone and Siltstone. Dolomite and Anhydrite beds.	
				ROT HALITE		Colourless or pale yellow orange Halite.	
				ROT CLAYSTONE		Thin red-brown silty Claystones.	
		BACTON	BUNTER SANDSTONE			Red brown, fine to medium grained, often friable Sandstone, interbedded with red brown claystones.	
			BUNTER SHALE	ROGENSTEIN		Red-brown claystone, often silty or associated with minor amounts of grey-green siltstone and anhydrite.	
				BUNTER CLAYSTONE		Red-brown claystones predominate and in places may be silty. Traces of dolomite and anhydrite present. Overall, less silty than the Rogenstein.	
				BROCKELSCHIEFER		Red-brown clays and siltstones with occasional fine grained sandstones. Claystones often grade to silt.	
PERMIAN	ZECHSTEIN	Z5	GRENZANHYDRIT			White to light grey, hard Anhydrite.	250.0
		Z4	ALLER HALITE			Halite and various other salts such as carnalite, sylvite and polyhalite. Variably colourless, yellow, pink, red and orange.	
				ALLER POTASH		Potassium and magnesium salts.	
			PEGMATITANHYDRIT			White to light grey, hard Anhydrite.	
			ROTER SALZTON			Red or red-brown Claystones.	
		Z3	LEINE HALITE			Halite with various other potassium and magnesium salts such as Carnalite, Sylvite and Polyhalite. Variably colourless, yellow, pink, red and orange.	
			HAUPTANHYDRIT			Off white to cream, light grey Anhydrite.	
			PLATTENDOLOMIT			Light brownish grey to dark grey, dark grey-brown Dolomite and Dolomitic Limestone.	
			GRAUER SALZTON			Thin grey Claystone / Siltstone.	
		Z2	DECKANHYDRIT			Thin white to off white, cream Anhydrite.	
			STASSFURT HALITE			Colourless to pale pink and orange Halite.	
				STASSFURT POTASH		Potassium and magnesium salts, especially polyhalite.	
			BASALANHYDRIT			White to off white, pale cream to pale grey Anhydrite.	
			HAUPTDOLOMIT			Grey/dark grey, tan, argillaceous Dolomite, Dolomitic Limestone or Limestone	
		Z1	WERRAANHYDRIT			White to cream, pale grey, hard Anhydrite with occasionally Dolomite interbeds and lenses.	
			ZECHSTEINKALK			Dark grey, brown black Dolomite with thin Anhydrite stringers and nodules.	
			KUPFERSCHIEFER			Black, carbonaceous, micaceous, pyritic Shale.	
		ROTLEIGENDES	UPPER LEMAN SANDSTONE			Thin red-brown and greenish-grey, fine to medium and occasionally coarse grained Sandstone. Variably poor to good porosity.	268.8
			SILVERPIT			Red-brown Claystones and Siltstones.	
				SILVERPIT HALITE		Halite, colourless or pale yellow orange.	
			LOWER LEMAN SANDSTONE			Thin red-brown and greenish-grey, fine to medium and occasionally coarse grained Sandstone. Variably poor to good porosity.	
CARBONIFEROUS	UPPER	STEPHANIAN	BARREN RED BEDS	ZONE 3		Interbedded red-brown Sandstones, Siltstones and Shales. Occasional Gravel and Pebble beds.	295.1
				ZONE 2			
				ZONE 1			
		WESTPHALIAN	COAL MEASURES	D COAL MEASURES		Typically white to grey in colour with finer sediments being darker. Thin Coal seams, Sandstones and Siltstones.	304.0
				C COAL MEASURES			
				B COAL MEASURES			
				A COAL MEASURES			
		NAMURIAN	MILLSTONE GRIT	NAMURIAN B		Interbedded Sandstones, Siltstones and Shale cyclothems. Medium to dark grey, dark blue-grey, hard, blocky, silty, carbonaceous and micromicaceous Claystones. Very pale grey to pale yellow-brown, very fine to medium , rarely coarse grained Sandstones. Non or very rare Coal seams.	313.0
				NAMURIAN A			