

II GEOLOGICAL REPORT

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## GEOLOGICAL REPORT

## 1. Stratigraphy

## a) Table of Chronostratigraphy (all depth in meters)

CHRONOSTRATIGRAPHIC TOPS      DEPTHS (KB)      DEPTH (MSL)

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 QUATERNARY

Holocene/

Pleistocene	123	(- 98)
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## TERTIARY

Pliocene	659	(- 634)
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Miocene	851	(- 826)
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Oligocene	1196	(- 1171)
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Eocene	1754	(- 1729)
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Paleocene	2299	(- 2274)
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Danian	2620	(- 2595)
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## CRETACEOUS

Maastrichtian-

Late Campanian	2666	(- 2641)
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Early Campanian	2730	(- 2705)
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Santonian	2785	(- 2760)
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Coniacian? - Turonian?	2825	(- 2800)
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Turonian	2873	(- 2848)
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Cenomanian	2924	(- 2899)
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Albian	2955	(- 2930)
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Early Albian-Aptian	2979	(- 2954)
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Early Aptian	2991	(- 2966)
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Barremian ?-

Neocomian	2992	(- 2967)
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## JURASSIC

Late - Middle Volgian	3004	(- 2979)
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Kimmeridgian -

Middle Oxfordian	3021	(- 2996)
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Early Oxfordian -

Middle Callovian	3062	(- 3037)
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Early Callovian	3089	(- 3064)
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Bathonian - Bajocian	3130	(- 3105)
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TRIASSIC	3183	(- 3158)
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TD	3289	(- 3264)
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## b) Table of Lithostratigraphy (all depth in meters)

<u>LITHOSTRATIGRAPHIC TOPS</u>	<u>DEPTH (KB)</u>	<u>DEPTH (m MSL)</u>	<u>THICKNESS</u>
NORDLAND GROUP	123	(- 98)	1073
Utsira Formation	884	(- 859)	218
HORDALAND GROUP	1196	(- 1171)	1103
Frigg Formation	2049	(- 2024)	30
ROGALAND GROUP	2299	(- 2274)	268
Balder Formation	2299	(- 2274)	36
Sele Formation	2335	(- 2310)	75
Lista Formation	2410	(- 2385)	137
Heimdal Formation	2547	(- 2522)	49
Maureen Formation	2596	(- 2571)	71
CHALK GROUP	2667	(- 2642)	288
Ekofisk Formation	2667	(- 2642)	4
Tor Formation	2671	(- 2646)	96
Hod Formation	2767	(- 2742)	104
Plenus Marl Formation	2871	(- 2846)	53
Hidra Formation	2924	(- 2899)	31
CROMER KNOLL GROUP	2955	(- 2930)	49
Rødby Formation	2955	(- 2930)	25
Sola Formation	2980	(- 2955)	11
Valhall Formation	2991	(- 2966)	13
HUMBER GROUP	3004	(- 2979)	66
Kimmeridge Clay Fm.	3004	(- 2979)	55
Heather Formation	3059	(- 3034)	11
BRENT GROUP	3070	(- 3045)	113
Hugin Formation	3070	(- 3045)	57
Sleipner Formation	3127	(- 3102)	56
TRIASSIC	3183	(- 3158)	106+
TD	3289	(- 3264)	

## 2. LITHOLOGICAL DESCRIPTION

### General information:

Period        are partly based on log interpretation/  
Epoch        correlation and partly on biostratigraphic report  
Age

Lithology: Description based on the samples and core  
description from the wellsite geologist on the  
rig.

### a) Summary

#### NORDLAND GROUP (123 - 1196 m KB)

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The Nordland Group extends from sea bottom to the base of Miocene at 1196 m KB. Down to about 550 m the lithology is mainly interbedded sand and clay. The sand is loose, fine to medium occasionally coarse grained with some pebbles and lithic fragments. The clay is medium greyish brown, soft, silty to very silty and calcareous. Fossils, and shell fragments are common throughout the group. With the exception of the Utsira Formation, the rest of the group consists of light to medium grey, soft, silty and calcareous clay with some stringers of medium to coarse, loose and rounded sand.

#### Utsira Formation (884 - 1102 m KB)

The Utsira Formation consists of sand with beds of clay of variable thickness. The sand is fine to very coarse, loose, rounded and moderately sorted. The clay is medium greyish green, soft, micromicaceous and silty.

Traces of shell fragments and forams are recognized.

HORDALAND GROUP (1196 - 2299 m KB)

The Hordaland Group consists mainly of claystone which is occasionally interbedded with sandstone, especially in the upper part of Oligocene and in the Frigg formation. Stringers of siltstone and limestone are recognized throughout the section, while stringers of dolomite are common in the lower part. The claystone is brownish grey-brownish red in the lower part of the section, soft to firm, occasionally subfissured, non to slightly calcareous, silty, micromicaceous and carbonaceous in parts. The siltstone is light grey, soft to firm, micromicaceous and carbonaceous in parts. The sandstone beds consist of clear to white quartz, very fine to medium grained, well sorted, subangular to subrounded and non calcareous. The limestone stringers are white to tan, occasionally light grey, microcrystalline and are firm to moderately hard. Finally, the dolomite stringers are buff to tan, microcrystalline and hard. Traces of tuff are seen in the lowermost part of the sequence. This tuff is light grey to greenish grey, slightly calcareous, moderately hard with black and white spots. Trace amounts of glauconite, pyrite and foraminiferas are seen throughout the sequence. Shell fragments occur in the upper part of the section.

ROGALAND GROUP (2299 - 2667 m KB)

The Rogaland Group is composed of shale and sandstone with traces of tuff in the uppermost part of the sequence. Stringers of limestone are common throughout the section.

Balder Formation (2299 - 2335 m KB)

The Balder Formation consists of a greenish grey to reddish brown, firm to moderately hard, non calcareous shale with white to tan, moderately hard, microcrystalline stringers of limestone. The tuff in this section is light to bluish grey, firm, non calcareous with white spots. Traces of pyrite are also seen.

Sele Formation (2335 - 2410 m KB)

The Sele Formation is composed of shale, one limestone layer and traces of pyrite. The shale is light to dark grey, firm to moderately hard, non calcareous, sticky in parts and occasionally micromicaceous and carbonaceous. The limestone is of the same type as described for the Balder Formation.

Lista Formation (2410 - 2547 m KB)

The Lista Formation consists of shale, sandstone beds and stringers of limestone. The shale is light to dark grey, greenish grey, firm to moderately hard, sticky in parts and non calcareous. The sandstone beds are composed of clear to white quartz grains, which are medium, occasionally fine and coarse grained, moderately sorted, subangular-subrounded, friable to hard and frequently with calcareous cement. Both the shale and the sandstone occasionally hold pyrite, glauconite and carbonaceous material. The limestone stringers are white to tan, moderately hard and microcrystalline, occasionally crystalline.

Heimdal Formation (2547 - 2596 m KB)

The Heimdal Formation is composed of sandstone of the same type as described for the Lista Formation, with a thin layer of limestone and shale in the uppermost part of the section.

Maureen Formation (2596 - 2667 m KB)

The Maureen Formation consists of interbedded sandstone and shale with limestone stringers. The sandstone is made up of clear to white quartz grains, which are medium grained, moderately sorted, subangular to subrounded, friable, occasionally hard and occasionally with calcareous cement. The shale is light greenish to dark grey, firm to moderately hard, silty in parts, non calcareous and occasionally carbonaceous. The limestone is white, soft to firm and chalky. Trace amounts of pyrite and glauconite have been observed in this section.

CHALK GROUP (2667 - 2955 m KB)

Ekofisk Formation (2667 - 2671 m KB)

The top of the Ekofisk Formation is recognized by an unconformity. The lithology in the section is made up of a white to off white, hard, brittle, crystalline to amorphous limestone, which is marly in parts.

Environment: Marine, outer shelf.

Tor Formation (2671 - 2767 m KB)

The Tor Formation consists of chalk and limestone. The chalk is white, buff, light pink brown and firm to moderately hard, occasionally very hard, while the limestone is chalky, white to cream colored, light brown, soft to hard occasionally very hard. Crystalline limestone has also been observed in this sequence.

Environment: Marine, outer shelf.

Hod Formation (2767 - 2871 m KB)

The Hod Formation is composed of limestone and some marl. It is a chalky, white to cream, occasionally light green colored, firm to hard, occasionally crystalline limestone with sections of light grey, firm to hard marl, which is grading into a limestone.

Environment: Marine, inner to outer shelf.

Plenus Marl Formation (2871 - 2924 m KB)

As the name indicates, the major constituent of the Plenus Marl Formation is marl. This light to medium grey, light pinkish grey, hard marl is interbedded with a white, cream to pink colored, microcrystalline limestone. Trace amounts of a clear, very fine to fine, subrounded, moderately sorted, calcareous cemented sandstone are also observed.

Environment: Marine, outer shelf.

Hidra Formation (2924 - 2955 m KB)

The Hidra Formation shows an almost identical lithology as the Plenus Marl Formation, i.e. marl interbedded with limestone, the difference being that the pink color of the marl, the limestone and the sandstone traces have vanished.

Environment: Marine, inner to outer shelf.

CROMER KNOLL GROUP (2955 - 3004 m KB)

Rødby Formation (2955 2980 m KB)

The Rødby Formation consists of a light to medium grey, hard marl with thin beds of a light to medium grey, reddish brown, firm to hard, calcareous to non calcareous claystone.

Environment: Marine, inner to outer shelf.

Sola Formation (2980 - 2991 m KB)

The Sola Formation is composed of interbedded marl, claystone and limestone. The marl and the claystone have the same properties as of the Rødby Formation, while the limestone is white to cream colored, microcrystalline and hard to very hard.



Valhall Formation (2991 - 3004 m KB)

The top of the Valhall Formation is shown by an unconformity. The lithology shows interbedded marl, claystone and limestone. The claystone is reddish brown, greenish grey, firm to hard, subfissured and slightly calcareous. The limestone is white, soft and chalky.

Environment: Marine, inner shelf.

HUMBER GROUP (3004 - 3070 m KB)

Kimmeridge Clay Formation (3004 - 3059 m KB)

The Kimmeridge Clay Formation exhibits two unconformities, one at the very top and one fifteen meters further down in the sequence. The lithology is composed of claystone with some limestone stringers. The claystone is greyish brown to black, firm to soft, subfissured to fissured, non calcareous, silty and carbonaceous while the limestone is white, soft and chalky.

Environment: Marine, inner shelf anaerobic/dysaerobic conditions.

Heather Formation (3059 - 3070 m KB)

The Heather Formation consists of interbedded shale and siltstone with limestone stringers. Two types of shales are observed in this section, one similar to the Kimmeridge Clay and one medium grey, hard, silty to very silty, with sand-grains. Traces of pyrite are seen in both of the different shale types.

Environment: Marine, inner shelf in upper part, marginal marine to deltaic in lower part.

BRENT GROUP (3070 - 3183 m KB)

Hugin Formation (3070 - 3127 m KB)

The Hugin Formation is composed of interbedded shale, siltstone and sandstone with layers of coal. The coal layers which are the first ones encountered in this well are black, firm to hard, vitreous, conchoidal fractured and lignitic in parts. The shale is of the grey type described for the Heather Formation, while the siltstone is dark brown, soft to friable argillaceous and pyritic. The sand is medium brown, fine to medium grained, angular to subangular, friable with dolomite - calcite cement.

Environment: Marine, marginal marine to inner shelf.

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Sleipner Formation (3127 - 3183 m KB)

The Sleipner Formation consists mainly of a clear to white, fine to medium grained sandstone. It is locally silty to coarse, friable to moderately hard, subangular to rounded, well sorted, non calcareous, occasionally dolomitic cemented. Layers of coal and shale, as described for the Hugin Formation, are also observed.

Environment: Non-marine, initially fluvio-deltaic, becoming deltaic.

TRIASSIC (3183 - 3289 (TD) m KB)

The Triassic sequence is composed of interbedded sandstone and shale with greenish grey, very hard, occasionally silty dolomite stringers in the uppermost part. The sandstone consists of clear quartz grains which are frosted, fine to coarse, rounded, poorly to moderately sorted with a green and orange stain. Further down the section, the sandgrains get more angular, better sorted and also show some dolomite cement and red stains. The shale is varicolored, soft and very calcareous. One layer of white to buff, chalky, crystalline limestone is also observed in this section.

Environment: Terrestrial, lacustrine/fluviatile.

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WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: Zeebregts                      Date: 17.09.81.

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
200	95 5	LCM Sst, clear qtzose, fine-med gn, subrnd, m srtd, uncons w/Excel interg porosity	No shows
200	50 40 10	Cement Sd, clear to S&P, qtzose, lithic i/p, fine- med gn, ang-subrnd, mod srtd, uncons, LCM	21.9.81 drl.ou shoe, No shows
202	50 30 10	Cement Sd, a/a, becoming coarser, fine-coarse, ang- subang, poorly srtd, uncons. LCM	-sample from below cement plug at 200m
210	80 20	Sd, a/a Clay & LCM	
220	80 20	Sd, pred vf, clr, qtzose Clay, a/a	
230	80 20	Sd, varicolored, qtzose, chert, glauc, occ coarse gn, pred fine-med, subang p. srtd, uncons, abund shell & fossil frags, common chert pebs. Clay, med gyish brn, gumbo, slty	Sd/Conglo
240		a/a	Note: wide vari ation in WOB
250		a/a	
260		a/a	
270	60 40	Sd/Conglo, a/a, chert peb. Clyst/mudst, med gyish brn, v slty, gumbo	
280	50 50	Sd/Congl, a/a, common shell & fossil frags Clyst, med gy, slty, gumbo	
290	75 25	Clyst, a/a Sd/Congl, a/a	



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Country: Norway                      Area: North Sea                      Field: Sleipner  
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 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: Zeebregts                      Date: 21.09.81

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remark.
300	80	Clyst, med gyish brn, gumbo, slty-v slty, calc, micromic	
	20	Sd, clr, qtzose, fine gn, s-w rnd, well srted, uncond w/EIG Ø	
	Tr	chert pebs, fossil frags	
310	80	Clyst, med gyish brn, gumbo, slty, calc, micromic	
	20	Sd, clr-mlky, qtzose, vf-f gn, w rnd, w srted, uncons	
320	85	Clyst, med gy, gumbo, sl slty, calc, micromic	
	15	Sd, a/a, common fossil frags, a/a	
330		a/a	
340		a/a	
350		a/a	
360	95	Clyst, lt-med gy, brnish at times, gumbo v sl slty, calcareous, micromic	
	5	Shell & fossil frags	
370	100	Clyst, a/a	
	Tr	Shell frags	
380		a/a	
390		a/a	
	Tr	qtz, peb, clear, well rnd, w srted	
400	100	Clyst, lt gy, sl grysh gy at times, slty, sl glauc, micromic, gumbo	
	Tr	scattered shell & fossil frags	
410		a/a	
420		a/a	
430		a/a	
	Tr	speckled carb mat	



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 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 17½"       Geologist: Zeebregts                      Date: 22-25.09.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
440	95	Clyst, med gy, gumbo, slty, sl sandy, non-calc	
	5	Slst, lt-med gy, qtzose, arg ip., uncons	
	Tr	Shell frags, carb/organic mat	
450		a/a	
460	100	Clyst, lt-med grnish gy, gumbo, slty, micromic	
	Tr	scattered shell frags	
470	100	Clyst, a/a, sl calc	
480		a/a	
485		a/a, calc	20" csg, 472m
490	100	Clyst, med gy, gumbo, slty, sl micromic, sl calc, cmt contamination	
500	40	Cement	
	40	Clyst, a/a mic calc	
	20	Sd/Conglo, varicoloured qtzose, chert, lithic, c-vc gn, ang, p srted, uncons	
510	60	Clyst, med gy, gumbo, slty, v-sl micromic calc	
	40	Contamination - Nut Plug	
520	90	Clyst, a/a	
	10	Sd, a/a, w/Nut Plug	
530	95	Clyst, lt-med gy, slty, sl micromic, calc	
540	95	Clyst, a/a	
	5	Sst, mlky, med-c gn, ang, m srted, uncons, EIG Ø	No shows
	Tr	Scattered Sd, qtzose, chert	
550	100	Clyst, lt gy, gumbo, slty, sl micromic	
	Tr	Scattered carb mat, calc	
560		a/a	
570	100	Clyst, lt-med gy, gumbo, slty, calc	
	Tr	Common scattered carb mat	
580		a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 17½"      Geologist: Zeebregts                      Date: 27.09.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
590	100	Clyst, lt-med gy, gumbo, slty, calc	
	Tr	Common scattered carb mat	
600	98	Clyst, lt gy, gumbo, slty, sl micromic, sl calc	
	2	Sand, clear, qtzose, vf-f gn s-w R, m srted, uncons w/EIGØ	No shows
	Tr	Scattered shell frags	
610	90	Clyst, a/a, becoms sl lt brnish	
	10	Common Sd, a/a	
	Tr	Common carb mat (coal)	
620		a/a	
630		a/a	
640		a/a	
650		a/a	
660		a/a, incr percentage fossil frags & shell frags	
670	90	Clyst, lt gy, speckled, gumbo, slty, micromic, sl calc, w/common scattered carb mat & shell frags	
	10	Sd, clear, qtzose, fine gn, SR, m srted, uncons w/EIG Ø,	No shows
680	75	Clyst, a/a, calc	
	25	Sd, med gy-clear, qtzose, f gn, ang-subrnd, m srted, uncons	
690		a/a	
700	75	Clyst, a/a	
	25	Sd, a/a	
710	70	Clyst, a/a	
	30	Sd, clear, qtzose, vf-f gn, occ crs, WR, p srted, uncons w/EIGØ	No shows
720	75	Clyst, lt gy, gumbo, micromic, calc	
	25	Sd, a/a	



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 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 17½"      Geologist:      Zeebregts      Date: 27-28.09.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
730	90	Clyst, lt gy, gumbo, slty, micromic, calc, w/common scattered carb mat	
	10	Sd, clear qtzose, f-med gn, w rnd, mod srted uncons w/EIG Ø	No shows
	Tr	Pyr	
740		a/a	
750		a/a	
	Tr	Scattered shell frags	
760	60	Clyst, a/a	
	40	Sd, a/a	
	Tr	Pyr nods	
770	75	Clyst, a/a	
	25	Sd, a/a	
	Tr	Common shell frags	
780	75	Clyst, a/a	
	25	Sd, a/a	
790	75	Clyst, a/a	
	25	Sd, varicoloured, qtzose, lithic, med-c gn, s-w rnd, mod srted, uncons	
	Tr	Common shell frags	
800	75	Clyst, a/a	
	25	Sd, a/a	
810		a/a	
820	60	Clyst, a/a, common scattered shell frags	
	40	Sd, a/a	
830	85	Clyst, lt to v lt gy, gumbo, slty, micromic, sl calc, common carb mat	
	15	Sd, a/a	
	Tr	Shell frags	
840	80	Clyst, a/a	
	20	Sd, a/a	
850	50	Clyst, a/a	
	30	Sd, a/a	
	20	Sh, med grnish gy, v sft-sft, slty, subfiss, micromic	
	Tr	Sltst, med brn, qtzose, uncons- sl arg cem, w srted, common scattered shell frags	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 17½"      Geologist: Glenn Zeebregts      Date: 28.09.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
860	75	Clyst, lt gy, gumbo, slty, micromic, sl calc, common pyr nods	
	25	Sd, clr-varicoloured, qtzose, lithic 10%, vf-f gn w rnd, m-w srted, uncons w/EIG Ø	No shows
	Tr	Pyr, Sh, grnish gy med grnish gy, v sft-sft, slty, subfiss, micromic	
870	80	Clyst, a/a	
	20	Sd, a/a	
	Tr	Sh, a/a	
880	60	Clyst, a/a	
	20	Sd, a/a	
	20	Sh, med grnish gy, sft, sub-fissile, slty, micro- mic. Common scattered fossiliferous & Shell mat.	
	Tr	Sh, black, fissile, med hd, v carb. micromic Common pyr nods	
890		a/a	
900	50	Sd, clear, qtzose, f-v gn, pred m gn, S-w rnd, p srted, uncons w/EIGØ	No shows
	25	Shell frags,	
	25	Clyst, a/a, common pyr nods, fossil mat.	No WOB
910	60	Sd, a/a, pred fine gn	
	40	Clyst, a/a Abund nut plug	
920	50	Sd, clear, blk, qtzose (2% lithic), f-v gn, pred fine, w rnd, m srted, uncons w/EIGØ	No shows
	25	Shell frags,	
	25	Clyst, lt-med gy, gumbo, slty, micromic Abund fossiliferous mat & pyr nodules	
930		a/a	
940	75	Sd, a/a, 5% lithic	
	25	Clyst & Sh mat, fossil frags	
950	75	Sd, clear, qtzose 2% lithic, vf gn, w rnd, w srted, uncons w/EIGØ,	Desander sampl. No shows
	25	Shell frags & Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 17½"      Geologist: G. Zeebregts      Date: 28.09.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
960	60	Sd, clear, qtzose (2% lithic), vf gn, w rnd, w srted, uncons w/EIGØ,	Desander sample No shows
	25	Shell frags	
	15	Nut plug med	
	Tr	Sh, gyish gy, v sft, slty, micromic	
970	90	Sd, a/a, pred fine gn	Mud cleaner
	10	Shell	sample
980	90	Sd, clear, qtzose, f gn, w rnd, w srted, a/a	Mud cond
	5	Shell frags	
	5	Sh, med gyish grn, v sft, micromic, slty, Common carb mat	
990	100	Sd, a/a	Mud cond.
	Tr	Sh, a/a	
1000	90	Sd, a/a	
	10	Clyst, lt-med gy, gumbo, slty, micromic Common shell frags & fossiliferous mat	
1010	75	Sd, a/a	
	15	Fossil & shell frags,	
	10	Clyst, a/a	
1020	50	Sd, becoming mlky in colour, subrnd	
	40	Fossil & shell mat	
	10	Clyst, a/a	
1030	75	Sd, a/a	
	25	Shell & fossil frags	
1040		a/a	
1050		a/a	
1060	90	Sd, clear-mlky, S & P, qtzose, (lithic 2%), med-c gn, s-w rnd, well srted, uncons, w/EIG Ø	No shows
	10	Shell frags & fossil mat	
1070	95	Sd, clear, S & P, qtzose, med-c gn, w rnd, w srted, uncons w/EIG Ø	No shows
	5	Cognima	
1080	95	Sd, a/a	
	5	Shell & fossil mat	
	Tr	Glauconite	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso      Date: 28.09.81  
 Hole size: 17½"      Geologist: G. Zeebregts

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1090	95	Sd, clear, S & P, qtzose, med-c gn, w rnd, w srted, uncons w/EIG Ø	No shows
	5	Shell & fossil mat	
	Tr	Glauconite	
1100		a/a	
1110	60	Sd, a/a	
	40	Clyst, lt grnish gy, slty, micromic, gumbo w/common speckled carb mat	
		Common shell frags & fossil mat	
1120	70	Clyst, lt grnish gy, a/a	
	30	Sd, a/a	
1130	80	Clyst, lt grnish gy, slty, micromic, gumbo common glauc w/Common speckled carb mat	
	20	Sd, a/a	
	Tr	Shell frags & fossil mat	
1140	90	Clyst, a/a	
	10	Sd, a/a	
1150	80	Clyst, lt grnish gy, slty-v slty, micromic gumbo, sl glauc, calc	
	15	Sd, a/a	
	5	Sst, v lt buff, qtzose, vf gn, w rnd, w srted, sft w/ sl sil cem, EIG Ø	No shows
1160	100	Clyst, lt-med grnish gy, slty, sndy ip., micromic, calc, w/common pyr staining	
1170		a/a	
1180	100	Clyst, med-brnsh gy, sft-frm, sl micromic, sl carb, sl slty, non calc	
1190	100	Clyst, a/a	
	Tr	Glauc	
1200	100	Clyst, a/a	
1210	100	Clyst, a/a	
	Tr	Lst, wh-lt gry, frm-hd, microxln	
	Tr	Sd, med-crs, w rnd-v w rnd	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 01.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
1220	100	Clyst, med-brnsh gy, sft frm, sl micromic, sl carb, sl slty, non calc	
	Tr	Lst, wh-lt gry, frm-hd, microxln	
	Tr	Sd, med-crs, w rnd-w rnd	
	Tr	Glauc	
1230		a/a	
1240	70	Clyst, a/a	
	30	Sltst, lt gry, sft, sl carb, sl glauc	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1250	90	Clyst, a/a	Tr Forams
	10	Sltst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, tan, xln, hd	
	Tr	Glauc	
1260		a/a	
1270	100	Clyst, med-brnsh gry, sft frm, sl slty, occ micromic, occ carb, occ glauc, calc	Shell frags and forams
	Tr	Sd, clr-mlky wh qtz, med-crs, subrnd-w rnd	
	Tr	Lst, wh-tan, hd, xln or microxln	
1280	100	Clyst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1290	100	Clyst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
1300	100	Clyst, a/a	Shell frags
	Tr	Sd, a/a	
	Tr	Lst, a/a	
1310	100	Clyst, a/a, but also greenish gry	
	Tr	Coal, blk, brittle	
	Tr	Sd, a/a	
	Tr	Lst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 01.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
1320	100	Clyst, med-brnsh gry, sft frm, sl slty, occ micro- mic, occ carb, occ glauc, calc, abund glauc	
	Tr	Lst, wh-tan, hd, xln or microxln	
	Tr	Pyr	
	Tr	Sd, clr-mlky wh qtz, med-crs, subrnd-w rnd occ pyr cmtd	
1330	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Sd, a/a	
	Tr	Glauc	
1340	70	Clyst, a/a w/abund glauc	
	30	Sd, clr-mlky wh qtz, med-crs, subrnd-w rnd	
	Tr	Lst, a/a	
1350	100	Clyst, a/a	Forams & Shell frags
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1360	100	Clyst, med-brnsh gry, occ grnsh gry, sft frm sl micromic, occ carb, glauc, slty ip. sl calc	
	Tr	Sd, clr-mlky wh qtz, med-crs, subrnd-w rnd	
	Tr	Lst, buff-tan, frm, microxln	
	Tr	Glauc	
1370	100	Clyst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, a/a, and also shell frags	
	Tr	Glauc	
1380	100	Clyst, a/a, w/abund glauc	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
1390	100	Clyst, a/a, but more slty	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1400	100	Clyst, a/a, occ subfiss	Forams
	Tr	Lst, a/a	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"      Geologist: S.I. Eide                      Date: 01.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
1410	80	Clyst, med-brnsh gry, occ grnsh gry, sft-frm sl micromic, occ carb, glauc, slty ip. sl calc	
	20	Sltst, lt gry, sft, micromic, carb, glauc	
	Tr	Lst, buff-tan, frm, microxln	
	Tr	Glauc	
1420	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1430	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Sd, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
	Tr	Pyr	
1440	90	Clyst, med-brnsh gry, sft-frm, occ subfiss, sl micromic, sl carb, sl calc	
	10	Sltst, lt gry, sft, micromic, carb, occ glauc, non calc	
	Tr	Glauc	
1450	90	Clyst, a/a	Tr Forams
	10	Sltst, a/a	
	Tr	Glauc	
1460	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, tan, frm-mod hd, microxln	
	Tr	Glauc	
1470	100	Clyst, a/a	Tr of worm burrows
	Tr	Sltst, a/a	
	Tr	Glauc	
1480	100	Clyst, a/a	
	Tr	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 01.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remark
1490	100	Clyst, med-brnsh gry, sft frm, occ subfiss, sl micromic, sl carb, sl calc	
	Tr	Sltst, lt gry, sft, micromic, carb, occ glauc, non calc	
	Tr	Lst, tan, frm-mod hd, microxln	
	Tr	Glauc	
	Tr	Pyr	
1500	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1510	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1520	90	Clyst, med-brnsh gry, sft frm, occ subfiss v glauc, micromic and carb ip, slty ip, sl calc	Tr forams
	10	Sltst, lt gry, sft, micromic, carb, glauc	
	Tr	Lst, wh-tan, frm-mod hd, microxln	
1530	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc (abund)	
1540		a/a	
1550		NO SAMPLE	
1560	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
	Tr	Sd, clr-mlky wh qtz, med-crs, subrnd-w rnd	
1570	70	Clyst, a/a	
	30	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 02.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
1580	80	Clyst, med-brnsh gry, sft frm, occ subfiss v glauc, micromic and carb ip, slty ip, sl calc	Tr forams
	10	Sltst, lt gry, sft, micromic, carb, glauc	
	10	Lst, wh-tan, frm-mod hd, microxln	
	Tr	Glauc	
1590	70	Clyst, a/a	
	30	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
	Tr	Glauc	
	Tr	Sd, a/a	
1600	80	Clyst, med-brnsh gry, frm, occ subfiss, sl micromic, non-sl calc	
	20	Sltst, lt gry, occ glauc, occ carb, non calc	
	Tr	Glauc	
	Tr	Lst, a /a	
1610		a/a	
1620		a/a	
1630	80	Clyst, non calc, else a/a	
	20	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1640		a/a	
1650	80	Clyst, a/a	Shell frags
	20	Sltst, a/a	
	Tr	Lst, a/a	
1660	80	Clyst, a/a	
	20	Sltst, a/a	
	Tr	Lst, a/a	
1670	90	Clyst, a/a	Tr forams
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1680	80	Clyst, a/a	
	20	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Pyr, Glauc	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 02.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remark
1690	80	Clyst, med-brnsh gry, frm, occ subfiss, occ	
		slty, occ glauc, occ carb, non-sl calc	
	20	Sltst, lt gry, sft, micromic, occ glauc,	
		non calc	
	Tr	Lst, wh-tan, frm-mod hd, microxln	
	Tr	Glauc	
1700	70	Clyst, a/a	Tr forams
	30	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1710	90	Clyst, a/a	Tr forams
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1720	90	Clyst, occ grnsh gry, else a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1730	90	Clyst, a/a	Shell frags
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1740	90	Clyst, a/a	Forams
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	
1750	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc, Pyr	
1760	90	Clyst, a/a	Forams
	10	Sltst, a/a	
	Tr	Lst, a/a	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 03.10.81

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1770	90	Clyst, med-brnsh gry, frm, occ subfiss, occ micromic, occ carb, slty ip	
	10	Sl calc Sltst, lt gry, sft-frm, carb and glauc ip. non calc	
	Tr	Lst, wh-tan, frm-mod hd, microxln	
1780	90	Clyst, occ greenish gry, else a/a	worm tubes
	10	Sltst, a/a	forams
	Tr	Lst, a/a	
1790	80	Clyst, a/a	
	10	Sltst, a/a	
	10	Lst, a/a	
	Tr	Glauc	
1800	80	Clyst, a/a	Worm tubes
	10	Sltst, a/a	forams
	10	Lst, a/a	
1810		a/a	
1820	80	Clyst, a/a	
	10	Sltst, a/a	
	10	Lst, a/a	
	Tr	Glauc	
1830	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Lst, a/a	
1840	80	Clyst, a/a	
	10	Sltst, a/a	
	10	Lst, a/a	
	Tr	Glauc	
	Tr	Pyr	
1850	90	Clyst, a/a	Tr forams
	10	Sltst, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 03.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
1860	90	Clyst, med-brnsh gry, frm, occ subfiss, occ slty, occ micromic, occ carb, non-sl carb	
	10	Lst, wh-tan, frm-mod hd, microxln	
	Tr	Slstst, lt gry, frm, micromic, carb	
	Tr	Pyr	
1870	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Slstst, a/a	
1880	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Slstst, a/a	
	Tr	Pyr	
1890	90	Clyst, a/a	
	10	Lst, a/a	
	Tr	Slstst, a/a	
	Tr	Pyr	
1900	90	Clyst, a/a	
	10	Lst, a/a	
	Tr	Slstst, a/a	
	Tr	Pyr	
1910		a/a	
1920		a/a	
1930	90	Clyst, a/a	
	10	Lst, a/a	
	Tr	Slstst, a/a	
	Tr	Pyr (abund)	
1940	80	Clyst, med-dk gry, frm, occ subfiss, micromic occ sl carb, non calc	
	10	Sst, clr qtz, vf-f, w srted, subang-subrnd, non calc, glauc	
	10	Lst, tan, mod hd, xln or microxln	
	Tr	Dol, tan, hd-v hd, microxln	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 03.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
1950	85	Clyst, med-dk gry, frm, occ subfiss, micromic occ sl carb, non calc	
	10	Lst, tan, mod hd, xln or microxln	
	5	Sst, crl qtz, vf-f, w srtd, subang-subbrnd, non calc, glauc	
	Tr	Dol, tan, hd-v hd, microxln	
1960	90	Clyst, a/a	
	5	Lst, a/a	
	5	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Glauc	
1970	85	Clyst, a/a	
	5	Lst, a/a	
	5	Sst, a/a	
	5	Dol, a/a	
	Tr	Pyr	
1980	90	Clyst, a/a	
	5	Sst, a/a	
	5	Dol, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
1990	50	Clyst, grnsh gry, frm, non calc	
	30	Clyst, med-brnsh gry, a/a	
	10	Sst, a/a	
	5	Dol, a/a	
	5	Lst, a/a	
	Tr	Pyr	
2000	80	Clyst, grnsh gry, frm, non calc	
	10	Sst, a/a	
	5	Dol, a/a	
	5	Lst, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist:                      S.I. Eide                      Date: 03.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2005	80	Clyst, grnsh gry, frm, non calc	
	10	Sst, clr-mlky qtz, vf-f, occ med, subang-subrnd, w srted, calc cmtd	
	5	Lst, tan, frm-mod hd, microxln	
	5	Dol, tan, mod hd-hd, microxln	
	Tr	Pyr	
2010		a/a	
2015	85	Clyst, a/a	
	5	Sst, a/a	
	5	Lst, a/a	
	5	Dol, a/a	
	Tr	Pyr	
2020	90	Clyst, a/a	
	5	Lst, a/a	
	5	Dol, a/a	
	Tr	Sst, a/a	
	Tr	Pyr	
			Forams
2025	85	Clyst, a/a	
	5	Lst, a/a	
	5	Dol, a/a	
	5	Sst, a/a	
2030	85	Clyst, a/a	
	5	Lst, a/a	
	5	Dol, a/a	
	5	Lst, a/a	
2040	90	Clyst, a/a	
	5	Lst, a/a	
	5	Sst, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 03.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2045	95	Clyst, grnsh gry, frm, non calc	
	5	Dol, tan, hd, microxln	
	Tr	Sst, clr-wh qtz, f-med, w srted, subang-subrnd	
	Tr	Lst, wh-tan, frm-mod hd, microxln	
2050	85	Clyst, a/a	
	10	Sst, a/a	
	5	Lst, a/a	
2055	90	Clyst, a/a	
	5	Sst, a/a	
	5	Dol, a/a	
	Tr	Mica	
2060	90	Clyst, a/a	
	10	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
	Tr	Mica	
2065	95	Clyst, a/a	
	5	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
2070	80	Clyst, a/a	
	20	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
	Tr	Mica	
2075	60	Clyst, a/a	
	40	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Mica	
2080	60	Sst, a/a	
	40	Clyst, a/a	
	Tr	Dol, a/a	
	Tr	Mica	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 04.10.81

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remarks
2085	70	Clyst, grnsh gry, frm, non calc	
	30	Sst, clr occ mlky wh qtz, f-med w srted, subrnd-subang, non calc	
	Tr	Dol, tan, hd, microxln	
	Tr	Mica	
	Tr	Pyr	
2090		a/a	
2095	90	Clyst, a/a	
	10	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
2100	70	Clyst, a/a	
	30	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Mica	
2105	90	Clyst, a/a	
	10	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Mica, Pyr	
2110	100	Clyst, a/a	
	Tr	Sst, a/a	
	Tr	Dol, a/a	
2115		a/a	
2120	90	Clyst, a/a	
	10	Sst, a/a	
	Tr	Dol, a/a	
2125		a/a	
2130	90	Clyst, grnsh gry, frm, occ subfiss, non calc	
	10	Sst, clr occ mlky wh qtz, f, w srted, subang-subrnd, fri, fair por	
	Tr	Lst, tan, mod hd, xln or mircroxln	
	Tr	Dol, tan, mod hd, microxln	
2135	70	Clyst, a/a	
	30	Sst, occ calc cmted else a/a	
	Tr	Glauc	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 04.10.81

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remarks
2140	90	Clyst, grnsh gry, frm, occ subfiss, non calc	
	10	Sst, clr occ mlky wh qtz, f, w srted, subang-subbrnd, fri, fair por, occ calc cmtd	
	Tr	Dol, tan, mod hd, microxln	
	Tr	Pyr	
2145	100	Clyst, a/a	
	Tr	Sst, a/a	
	Tr	Lst, tan, mod hd, xln or mircroxln	
	Tr	Pyr	
2150	100	Clyst, a/a	
	Tr	Sst, a/a	
	Tr	Dol, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
2155	90	Clyst, a/a	
	10	Sltst, lt gry, sft, non calc	
	Tr	Sst, a/a	
2160	90	Clyst, a/a	
	10	Sltst, a/a	
	Tr	Sst, a/a	
	Tr	Lst, a/a	
2165	100	Clyst, a/a	
	Tr	Sltst, a/a	
	Tr	Sst, a/a	
	Tr	Dol, a/a	
2170		a/a	
2175	100	Clyst, a/a	
	Tr	Sltst, a/a	
	Tr	Dol, a/a	
2180	90	Clyst, a/a	
	10	Lst, tan, frm-hd, microxln	
	Tr	Dol, a/a	
	Tr	Pyr	
2185		a/a	
2190		a/a	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 04.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2195		NO SAMPLE	
2200	90	Clyst, grnsh gry, frm, occ subfiss, non calc	
	10	Lst, tan, frm-hd, microxln	
	Tr	Dol, tan, mod hd, microxln	
	Tr	Pyr	
2205	95	Clyst, a/a	
	5	Lst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
2210		NO SAMPLE	
2215	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
2220	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Dol, a/a	
2225	90	Clyst, grnsh gry, frm, occ subfiss, non calc occ pyr incl	
	5	Lst, tan occ wh occ clr, frm-mod hd	
	5	Dol, tan, hd, microxln	
	Tr	Sd, clr-mlky wh qtz, f-med, w srtd, subang- subrnd, lse, occ calc cmtd	
	Tr	Pyr	
2230	90	Clyst, a/a, more fissile	
	5	Lst, a/a	
	5	Dol, a/a	
	Tr	Pyr	
2235	100	Clyst, a/a	
	Tr	Dol, a/a	
	Tr	Lst, a/a	
	Tr	Sd, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 05.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2240	100	Clyst, grnsh gry, frm, occ subfiss, non calc occ pyr incl	
	Tr	Lst, clr-mlky wh, hd, xln	
	Tr	Dol, tan, frm-hd, sucr, occ dk spots	
	Tr	Pyr	
2245	100	Clyst, a/a	
	Tr	Lst, a/a	
	Tr	Dol, a/a	
2250	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Dol, a/a	
	Tr	Pyr	
2255	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Dol, a/a	
2260		a/a	
2265	70	Clyst/Sh, grnsh gry, frm, non calc, occ pyr	
	30	Clyst/Sh, red-brn, frm, non calc	
	Tr	Sd, clr qtz, vf-f, w srtd, subang-subrnd, fri	
	Tr	Tuff, grnsh gry w/wh spots, frm-mod hd, sl calc	
	Tr	Lst, tan occ clr-mlky wh, frm-mod hd	
2270	60	Clyst/Sh, grnish gry, a/a	
	40	Clyst/Sh, red-brn, a/a	
	Tr	Lst, a/a	
2275	90	Clyst/Sh, grnsh gr, red brn, frm, occ pyr, occ blk spots, non calc	
	10	Lst, a/a	
	Tr	Tuff, lt-grnsh gry w/wh spots, mod hd	
2280	90	Clyst/Sh, a/a	
	10	Lst, a/a	
	Tr	Tuff, wh-lt gry, lam, blk spots	
	Tr	Pyr	
2285		a/a	
2290	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 05.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2295	95	Clyst, grnsh gry, red brn, frm, occ pyr, occ blk spots, non calc	
	5	Lst, tan occ clr-mlky wh, frm-mod hd	
	Tr	Tuff, wh-lt gry w/blk spots, calc occ pyr	
	Tr	Pyr	
2300	90	Clyst, a/a	
	10	Lst, a/a	
	Tr	Tuff, a/a	
	Tr	Pyr	
2305	95	Clyst/Sh, grnsh gry, red brn, frm, subfiss- fiss, occ pyr, occ blk spots, non calc	
	5	Lst, wh-tan, mod hd, microxln, occ xln	
	Tr	Tuff, lt gry-grnsh gry, w/wh & blk spots, suc	
	Tr	Pyr	
2310	80	Clyst/Sh, a/a	
	20	Lst, a/a	
	Tr	Tuff, a/a	
	Tr	Pyr	
2315	85	Clyst/Sh, a/a	
	10	Lst, a/a	
	5	Tuff, a/a	
	Tr	Pyr	
2320	90	Clyst, grnsh gry, occ red-brn, else a/a	
	5	Lst, a/a	
	5	Tuff, a/a	
2325	75	Clyst/Sh, a/a	
	15	Tuff, a/a	
	10	Lst, a/a	
	Tr	Pyr	
2330	75	Clyst/Sh, a/a	
	20	Lst, a/a	
	5	Tuff, a/a	
2335	85	Clyst/Sh, a/a	
	10	Lst, a/a	
	5	Tuff, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 05.10.81.

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remarks
2340	90	Clyst/Sh, grnsh gry, red brn, frm, subfiss- fiss, occ pyr, occ blk spots, non calc	
	5	Lst, wh-tan, mod hd, microxln, occ xln	
	5	Tuff, lt gry-grnsh gry, w/wh & blk spots suc	
2345	95	Clyst/Sh, a/a	
	5	Tuff, a/a	
	Tr	Lst, a/a	
2350	90	Clyst/Sh, lt gry-grnsh gry, red-brn, frm- mod hd, fiss, occ v pyr, non calc	Clyst/Sh is getting more
	10	Lst, wh-tan, mod hd, occ microxln, occ xln	fissile, dens
	Tr	Dol, tan, hd-v hd, microxln	and harder
	Tr	Tuff, blsh gry w/wh spots, frm, non calc	downwards
	Tr	Pyr	
2355	95	Clyst/Sh, a/a	
	5	Lst, a/a	
	Tr	Dol, a/a	
2360	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Tuff, a/a	
2365	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Tuff, a/a	
	Tr	Pyr	
2370	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Tuff, a/a	
2375	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
2380	100	Clyst/Sh, a/a	
	Tr	Lst, a/a	
	Tr	Tuff, a/a	
	Tr	Pyr	
2385		a/a	
2390		a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 05.10.81.

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2395	100	Sh, lt-med gry, occ grnsh gry, occ red-brn, frm-mod hd, occ micromic, non calc, slty ip.	
	Tr	Lst, wh-tan, mod hd, microxln, occ xln	
	Tr	Tuff, lt-bluish gry, wh spots, frm occ lam	
2400	95	Sh, occ lam else a/a	
	5	Lst, a/a	
	Tr	Tuff, a/a	
2405		a/a	
2410	90	Sh, a/a	
	10	Lst, a/a	
2415	80	Sh, a/a	
	20	Lst, a/a	
2420	90	Sh, a/a	
	10	Lst, a/a	
2425	90	Sh, a/a	
	10	Lst, a/a	
	Tr	Tuff, a/a	
	Tr	Pyr	
2430	90	Sh, a/a	
	10	Lst, a/a	
2435	90	Sh, a/a	
	10	Lst, a/a	
	Tr	Pyr	
2440	70	Sh, a/a	
	30	Kao, wh-lt gry, sft, stky	
	Tr	Lst, a/a	
	Tr	Pyr	
2445	50	Sh, a/a	
	40	Lst, a/a	
	10	Kao, a/a	
	Tr	Lst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist:                      S.I. Eide                      Date:                      05.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
2450	50	Sh, med-dk gry, frm-mod hd, occ micromic slty ip, non calc	
	30	Lst, wh-tan, mod hd, microxln, occ xln	
	20	Kao, wh-lt gry, sft, stky	
	Tr	Pyr	
2455	60	Sh, a/a	
	40	Lst, a/a	
2460	80	Sh, a/a	
	20	Lst, a/a	
	Tr	Pyr	
2465		a/a	
2470	70	Sh, a/a	
	20	Kao, a/a	
	10	Lst, a/a	
	Tr	Pyr	
2475	50	Sh, a/a	No shows
	30	Sst, clr qtz, occ mlky wh, f-med, lse-fri, mod srted, subang-subrnd, occ pyr, occ calc cmted, fair por	
	20	Lst, a/a	
	Tr	Pyr	
	Tr	Coal, blk, brttle	
2480	50	Sst, a/a	
	30	Sh, a/a	
	20	Lst, a/a	
	Tr	Coal, a/a	
2485	50	Sst, a/a	
	30	Sh, a/a	
	20	Lst, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 06.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
2490	50	Sh, grnsh-dk gry, frm-mod hd, slty ip. occ v pyr, occ carb lam	
	30	Sst, clr occ mlky wh qtz, f-med occ crs, fri-mod hd, mod srtd, subang-subrnd, occ calc cmtd	
	20	Lst, wh-tan, mod hd, microxln	
2495	80	Sst, a/a	
	10	Lst, a/a	
	10	Sh, a/a	
2500	70	Sst, a/a	
	20	Lst, a/a	
	10	Sh, a/a	
2505		a/a	
2510	80	Sst, a/a	
	10	Lst, a/a	
	10	Sh, a/a	
2515	60	Sst, a/a	
	30	Sh, a/a	
	10	Lst, a/a	
	Tr	Pyr	
2520	60	Sst, a/a	
	30	Sh, a/a	
	10	Lst, a/a	
2525	60	Sst, occ glauc, occ carb, else a/a	
	30	Sh, a/a	
	10	Lst, a/a	
2530		a/a	
2535	70	Sst, a/a	
	20	Sh, a/a	
	10	Lst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date:07.10.81

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2440	80	Sst, clr-mlky wh qtz, med-crs, mod srted, subang-subrnd, fri occ hd, occ calc cmted	
	10	Sh, grnsh gry, frm-mod hd, non calc	
	10	Lst, wh-tan, mod hd, microxln	
	Tr	Pyr	
2445		a/a	
2450	90	Sst, a/a	
	5	Sh, a/a	
	5	Lst, a/a	
	Tr	Pyr	
2455	80	Sst, a/a	
	10	Sh, a/a	
	10	Lst, a/a	
	Tr	Pyr	
2460	90	Sst, a/a	
	5	Sh, a/a	
	5	Lst, a/a	
	Tr	Pyr	
2465	100	Sst, a/a	
	Tr	Sh, a/a	
	Tr	Lst, a/a	
	Tr	Pyr	
2470		a/a	
2475		a/a	
2580	100	Sst, clr-mlky wh qtz, med-crs, mod srted, subang-subrnd, fri	
	Tr	Lst, a/a	
	Tr	Pyr	
2585		a/a	
2590		a/a	
2595		a/a	
2600		a/a	
2605		a/a	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"      Geologist: S.I. Eide                      Date: 07.10.81

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2610	100	Sst, clr-mlky wh qtz, med-crs, mod srt'd, subang-subr'd, fri, occ calc cmt'd	
	Tr	Lst, wh-tan, mod hd, microxln	
	Tr	Pyr	
2615	100	Sst, a/a	
	Tr	Lst, wh, sft-fr'm, chlky, microxln ip.	
	Tr	Pyr	
2620	95	Sst, a/a	
	5	Chlk, wh-lt gry, sft-fr'm	
	Tr	Pyr	
2625	95	Sst, v calc cmt'd, else a/a	
	5	Chlk, a/a	
	Tr	Pyr	
2630	95	Sst, clr occ mlky wh qtz, med occ crs, mod srt'd, subang-subr'd, fri occ hd, occ calc cmt'd	
	5	Chlk, wh-lt gry, sft-fr'm	
	Tr	Pyr	
2635		a/a	
2645	50	Sst, clr trans qtz, occ mlky wh, med-crs, subang-subr'd, fri, occ hd	
	50	Sh/Clyst, lt gy, v calc, sft, occ gy, mod hd, non calc, slty ip, occ brnish gy, slty	Much of the Sh/Clyst could be cavings
	Tr	Chlk, wh-lt gy, sft-fr'm	
2650	80	Sh/Clyst, a/a	Caving ?
	20	Sst, a/a	
	Tr	Chlk, a/a	
	Tr	Glauc	
2655	50	Sh, varicol. a/a	
	30	Chlk, clayey, a/a	
	20	Sst, a/a	
	Tr	Glauc	
2660	80	Sst, as 2645	
	10	Sh/Clyst, a/a	
	10	Chlk as 2655	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4"    Geologist: S.I. Eide                      Date: 08.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2665	75	Sst, clr trans qtz, occ mlky wh, med-crs, subang-subrnd, fri, occ hd	
	20	Chlk, wh-lt buff, frm, occ wh-lt gy, clayey	
	5	Sh/Clyst, lt gy, v calc, sft, occ gy, mod hd, non calc, slty ip, occ brnish gy, slty	
	Tr	Glauc	
2670	90	Chlk, a/a, sft-frm, occ hd	
	5	Sst, a/a	
	5	Sh/Clyst, a/a	
	Tr	Dol, lt brnish gy, hd	
2675	90	Chlk, a/a	
	10	Sh/Clyst, a/a	
	Tr	Sd, a/a	
	Tr	Pyr	
2680	90	Chlk, a/a	
	10	Sh/Clyst, a/a	
	Tr	Sd, a/a	
	Tr	Dol, lt brnish, hd	
	Tr	Pyr	
2685	100	Chlk, wh-buff, frm-mod hd	
	Tr	Sh/Clyst, varicol, lt gy, non calc, slty ip. occ brnish gy, non calc, mod hd, occ bluish lt gy, sft, calc	
	Tr	Sst, mlky wh-lt brn, occ clr trans qtz, med-crs, poor to fair srt, subrnd	
2690	95	Chlk, a/a	
	5	Sh/Clyst, a/a	
	Tr	Sst, a/a	
	Tr	Lst, lt brn-brn, mod hd, microxln	
	Tr	Foss frags,	
2695	100	Chlk, a/a	
	Tr	Sh/Clyst, a/a	
	Tr	Sst, a/a	
	Tr	Lst, a/a	
2700	100	Chlk, a/a	
	Tr	Sh/Clyst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters    Company : Statoil/Norsk Hydro/Esso  
 Hole size: 12 1/4" Geologist:                      S.I. Eide                      Date: 09.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
2705	90	Chlk, wh-buff, frm-mod hd, grng to Lst, micoxln, mod hd ip.	
	10	Sh/Clyst, varicol, lt gy, non calc, slty ip. occ brnish gy, non calc, mod hd, occ bluish lt gy, sft, calc	
	Tr	Pyr	
2710	95	Chlk, occ v hd, else a/a	
	5	Sh/Clyst, occ brnish, mod hd, non calc, else a/a	
	Tr	Pyr	
	Tr	Glauc	
2715	100	Chlk, wh-buff, occ wh-lt brnish (pink), else a/a	
	Tr	Sh/Clyst, a/a	
	Tr	Sst, clr mlky qtz, sli calc cmt, med, occ crs, fair srted, subrnd,	
2720	100	Chlk, wh-lt pink brn, frm-mod hd, occ hd, xln, ls	No shows
2725		a/a	
2730		a/a	
2735		a/a	
2740	100	Lst, chlky, wh-lt brn, frm-mod hd, ip xln, hd-v hd	
	Tr	Clyst, lt gy-lt grn gy, blkky, frm	
2745		a/a	
2750		a/a	
2755	100	Lst, chlky, wh-cream, sft-frm, occ mod hd	
	Tr	Clyst, brn, frm, blkky, calc	
2760		a/a	
2765		a/a	
2770		a/a	
2775	100	Lst, clky, wh-cream, frm-hd, occ xln	
	Tr	Clyst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: T. Kristensen              Date: 20.10.81.

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2780	100 Tr	Lst, clky, wh-cream, frm-hd, occ xln Clyst, brn, frm, blkky, calc	No shows
2785	100 Tr	Lst, chlky, wh-cream, lt brn, frm-hd, occ xln Clyst, a/a	
2790		a/a	
2795	95 5	Lst, a/a Clyst, red brn, frm, blkky-subfiss, calc	
2800		a/a	
2805		a/a	
2810		a/a	
2815	95 5 Tr	Lst, chlky, wh-cream, frm-hd, occ xln, to sucrosic, locally pale green Clyst, red brn, frm blkky-subfiss-fiss, calc Clyst, lt gry-grn, subfiss-blck, v calc	
2820	95 5 Tr	Lst, a/a, locally light green grey Clyst, a/a Clyst, a/a	
2825		a/a	
2830		a/a	
2835		a/a	
2840	50 45 5	Lst, chlky, wh-cream, frm-hd, a/a Mrl, lt gry-frm, frdng to Lst, a/a no xln Clyst, a/a	
2845	100 Tr Tr	Lst, cream, hd splintery, xln Clyst, a/a Mrl, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"      Geologist: C. Baker                      Date: 22.10.81.

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2850	100 Tr	Lst, cream, hd, splintery xln clean Clyst, red brn and gry green, v calc, splintery fiss-subfiss	No shows
2855	100 Tr	Lst, a/a, locally grey - 30% Clyst, a/a	
2860	100 Tr	Lst, cream, grey - 30%, pink and orange ip. Clyst, a/a	
2865	100	Lst, grn -50%, Cream - 30%, buff-pink 20%, hd, a/a, gry, grdng to Mrl	
2870	80 20 Tr	Mrl-Lst, lt gry, hd-brit Lst, buff-pnk, hd-brit, a/a Clyst, a/a	Plenus Marl ?
2875	100	Mrl, a/a	
2880	95 5	Mrl, lt-gry-med gry, grdng to Lst a/a Lst, cream-pnk, a/a	
2885	90 10 Tr Tr	Mrl, lt gy (60%), med gry (30%), lt gry Lst, wh-cream-pnk Clyst, a/a Sst, clr-w/green grains, f-v f, subrnd, med srtd, glauc	
2890	100 Tr	Mrlm med gry (50%) lt pnkish gry (50%) frm-hd, a/a, v calc Lst, cream, sh	
2895	100 Tr	Mrl, med gry (60%), lt pnkish gry (40%), a/a Clyst, a/a	
2900	100 Tr Tr	Mrl, 50% / 50%, a/a Sst, a/a Clyst, a/a	
2905	100 Tr Tr	Mrl, 80% / 20% a/a Lst, wh, frm-hd, blkky Clyst, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"      Geologist: C. Baker                      Date: 23.10.81.

DEPT	LITH.%	LITHOLOGIC DESCRIPTION	Shows&Remarks
2910	90	Mrl, med gry 80% / lt pnkish gry 20%	
	10	Lst, wh, l occ green occ pnk, occ orange hd, blkky, xln-microxln	
2915	80	Mrl, med gry, pnkish gry, hd brit, sl silty	Mrl texture
	20	Lst, greyish, orange, pnk, wh-greenish, hd, blkky	Top L Cretac.?
2920	60	Mrl, a/a	
	40	Clyst/Mrl/Lst, brick red, brn, fiss-subfiss, frm	
2925	50	Mrl, a/a	
	30	Clyst, a/a, occ purple	
	20	Lst, green, orange-brn, occ wh, hd, blkky	
2930	40	Lst, wh-pnk, hd-v hd, microxln, pnk gradng to Mrl	
	20	Mrl, med-greenish gry, subfiss, hd silty	
	20	Clyst, green, waxey, fiss-subfiss, frm, calc, occ silty glauc, v calc	waxey
	10	Clyst, red-brn, silty, fiss, sft-frm, calc	
	10	Clyst/Sh, drk gry, hd slightly calc	
2935		a/a w/good Tr Sst, brn-green, v fn-silt, w rnd w srtd, glauc calc cmt	No shows
2940	30	Clyst, green a/a	
	20	Mrl, a/a	
	20	Lst, a/a	
	20	Clyst, red-brn, a/a	
	10	Sst, a/a	
2945	40	Mrl, med gry, a/a	
	30	Lst, a/a	
	20	Sst, a/a	
	10	Clyst, green-red-grey, frm, a/a	
2950	40	Lst, wh, a/a, occ xln	
	30	Mrl, med gry, a/a	
	30	Mrl, lt gry, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 23.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2955	30	Lst, wh-cream, hd-v hd, microxln	
	30	Mrl, lt gry, hd,	
	30	Mrl, med gry, hd,	
	10	Sst, gry, green, v fn, w rnd, w srt, glauc calc cmt, arg	No shows
2960	35	Mrl, med gry, hd, a/a	
	35	Mrl, lt gry, hd, a/a	
	10	Lst, wh-cream, a/a	
	10	Sltst, gry, frm, v arg,	
	10	Clyst, lt green, gryish red purple	
2965	35	Mrl, med gry, a/a but bcmg less calc	
	35	Mrl, lt gry, a/a, but bcmg less calc	
	30	Sltst/Sst, brn-greenish grey, v f, w srted, frm, arg, glauc, calc	
	Tr	Lst/Clyst, a/a	
2970	90	Clyst, lt-med gry, v calc, hd-v hd	
	10	Sltst, brn-gry, v arg, a/a, less glauc	
	Tr	Lst/Clyst, a/a	
2975	60	Clyst, rdish brn, blkky, hd-v hd	
	30	Clyst/Mrl, med gry, subfiss, hd	
	10	Sltst/Sst, greenish gry, brn, frm, v fn Sd to Slt, mod srt, subang, v arg calc	
	Tr	Lst, wh, w/Sd grn or clear calc	
2980	80	Clyst, red brn-orange, bckky, hd-v hd	
	20	Clyst, greenish gry, hd-v hd non calc	
	Tr	Calc	
	Tr	Sltst, a/a	
	Tr	Lst, a/a	
2985	80	Clyst, red-brn, fiss-subfiss, fm hd, a/a	
	20	Clyst, grn-gry, a/a	
	Tr	Sst/Sltst, green-trans, sft, v f Sd, subang, mic (musc + bio), calc cmt.	



WELLSITE SAMPLE DESCRIPTION

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 Well no: 15/9-10  
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 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 24.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
2990	70	Clyst, rd-brn, subfiss, frm-hd, v slightly calc, silty	
	20	Clyst, green-med gry, frm-hd, slty-v slty	
	10	Sst, slty, green-trans, sft, v f Sd, subang, mic musc bio, calc cmt	No shows
	Tr	Sltst/Sst, greyish blue, Sd grns floating in silt matrix, foliated, banded, TUFF?	
2995	60	Lst, chalky, wh, sft, micritic	
	25	Clyst, red-brn, a/a	
	10	Clyst, gry, grdng to Sltst, a/a	
	5	Sst, slty, a/a	
	Tr	Sd, lse, med, rnded, frosted	
	Tr	Pyr	
3000	30	Lst, a/a, bcmg frm-sft, blkky xln	
	30	Clyst, a/a	
	30	Clyst, a/a	
	10	Sst, slty, dusky purple gry,	
	Tr	Sst, wh-trans, sft-lse, w rnd, w srt.	
	Tr	Pyr	
3005	25	Sh, dusky yellow brn (gry brn-blk) frm-sft, fiss-subfiss, non calc	
	25	Clyst, rd-brn, a/a	
	25	Clyst, green, a/a	
	25	Lst, a/a	
	Tr	Pyr	
	Tr	Sd, wh, a/a	
3010	100	Sh, a/a, non calc-slty mlk blk carbonaceous lam	
	Tr	Sd, calcite, Pyrite, (Sd, coarse, fros, rnd)	
3015	95	Sh, a/a, adundant flaky carb + foss	
	5	Sd, crs, rnd	
	Tr	Pyr	
	Tr	Clyst, a/a	
	Tr	Lst, a/a	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 24.10.81.

DEPT	LITH.#	LITHOLOGIC DESCRIPTION	Shows&Remarks
3020	100	Sh, brn-gry-blk, becmg gryer, frm-sft, subfiss, dull brn, flow to crush cut, non calc	yellow crush cut
	Tr	Clyst, green and rd, frm-hd, slightly calc-non calc	
3025	100	Sh, a/a	
	Tr	Sst, wh w/floating grains in Kao	
3030	80	Sh, a/a, bcmg brnish-blk to gry blk, blkky, sft-crumbly, non fiss, slty, less flow,	
	15	Lst, cream-wh, frm-sft, chlky	
	5	Clyst, buff-yellow, v soft, blkky, cryptofissile non calc	
3035	100	Sh, a/a, brnish black, less gry	
3040	100	Sh, a/a	
	Tr	Clyst, orange-rd, frm-sft, non calc	
3045	100	Sh, a/a	
	Tr	Pyr	
	Tr	Coal, blk, blkky, concl	
3050	90	Sh, a/a, bcmg light silvery gry brn, slty	
	5	Pyr	
	5	Coal, blk, vitreous, blkky, concl	
3055	100	Sh, a/a, v slty	
	Tr	Sd, lse, coarse, (50-60% Sd, org or redst subrnd)	frm desilter
3060	80	Sltst, silver gry, clay matrix, non calc	Poor dull fluo
	10	Sh, brn-gry, a/a	weak yellow
	10	Lst, wt, a/a	crush cut
	Tr	Pyr	
	Tr	Sst, clear-gry brn, v f-slt, occ coarse,	
	Tr	Coal, blk, vitreous	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date:25.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3065	70	Sh, brn-blk, loc slty, blkky, frm, carb, pyr, non calc	
	10	Clyst, green, red-brn, subfiss, calc	
	10	Pyr	
	10	Lst	
3070	60	Coal, black, vitreous, concl frac	
	20	Sst, slty, gry-brn, v fn-occ med, w srt'd arg, micro pyr,	No shows
	10	Pyr	
	10	Sd, clear quartz, subrnd-subang, med	
3075	50	Coal, a/a, bcmng more lign	Core 71 - 71.4 see core no. 1
	30	Sltst, drk brn, sft, micritic arg, quartz + pyr grn,	
	10	Sst, brn sft, f-v f, occ orange, w srt'd, w rnd	
	10	Pyr	
3078	40	Clyst, buff orange, w/floating slt and Sd non calc	
	40	Sltst, a/a	
	10	Pyr	
	10	Sd, a/a	
3080	50	Coal, a/a	
	50	Sst/Clyst, a Sst w/Clay matrix Clay a/a Sdst, clear, orange quartz, slt-med, ang-w rnd, v sft, non calc	
3082	60	Sst, a/a	
	40	Sst, med brn, f-v f, ang-subang, friable, occ coarse-v coarse, grn w/quartz over-growth, Calc-Dol cmnt,	
3082.25		Sltst, dk brn, slt-f Sd, arg, pyr, carb, friable-mod hd, poor srt'd, subrnd	
3082.5		Slt/Sh, dk brn, hd, abund, carb, pyr	
3083		Sh, brn, hd, fiss, micro lam w/carb plant remains, non calc, micromic	
3083.5		Sh, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 27.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows & Remarks
3084		Coal, black, vitrous, brit Sltst, dk brn, slt-f Sd, arg, pyr, carb, friable-mod hd, poor srtd, subrnd, grdng to Sst, v f,	Poor-fair show fair fluor, v short streamir cut and crush out, gald yel fluor - pale yellow cut
3084.5		Sd, brn, slt to f Sd, rnd, mod srt, friable to hd, Kao + Pyr, micro lam w/Coal	Micromic dull fluor, slight crush cut
3085		Coal, a/a	
3085.5		Sltty Sh, a/a	No shows
3086		Sltst, a/a, micro lam w/Coal, no flour tr crush out	v poor show
3086.5		Clyst, v slty, blcky, dusky brn, hd to sft- svapst texture	No shows
3087		Sh, dk brn a/a, w/Pyrite replacement of foss	Slight tr crus cut
3087.5		a/a	
3088		a/a	
3088.5		Sltty Sd, a/a,	
3089		Sltty Sh, gryish brn, frm, subfiss, slightly calc,	No show
3089.5		Sltst, grdng to Sst, brnish blk, slt-v f Sd arg, kaolin, pyr, dol	Tr show
3090		Sltst, a/a	Tr show
3095.5		Clyst, slty, dusky brn blcky, hd, sft- soapy texture	No show
3091		a/a	



WELLSITE SAMPLE DESCRIPTION

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 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 27.10.81.

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
3091.5		Sltty Clyst, a/a increasing slt, no fluor Tr crush cut	Tr show
3092		a/a, Tr crush cut	Tr show
3092.5		Clyst, dusky brn, a/a blkky w/concl frac abund plant remains, micromic	No show
3093		Sltty Sh, a/a, Kao, Tr crush cut	Tr show
3093.5		Clyst, a/a	No show
3094		Sltty Sh, a/a	No show
3094.5		Sltty Sh, a/a, fair crush cut	crush cut
3095		Sltst, a/a	No show
3095.5		Clyst, a/a	
3096		Sltst, a/a, dull flour Sst, lt brn-clear, f-med, abund pyr, kao	No show Tr crush cut
3096.5		Sltty Sd, bcmng more sdy, a/a	No show
3097		Sst/Sltst, dk brn, slt-med, subang, hd- friable, abund Clay, pyr, no flour,	Tr crush cut
3097.5		Sst, brnish-gry, hd, f-med, subrnd, v con- solidated, kao, silica cmnt, dol cmnt,	Tr fluor No cut
3098		Sst, dk brn, v f-slt, subang, v tight, mic, silca cmnt, pyr,	No show
2098.5		Sltty Sh, dk brn, hd, subfiss, mic,	No show
3099		Sst, pale yellow brn, slt-med, rnd, w srt, friable, kao, v tight,	No show
3099.5		Sst, brn a/a, more arg, more kao, abund pyr, no flour,	Tr crush cut



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 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 27.10.81.

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remarks
3100		Sst, pale yellow brn, slt-med, rnd, w srt, friable, kao, v tight, friable micro lam w/plant remains	No fluor Tr crush cut
3105	40	Sltst, dk brn, slt-med, subang, hd-friable, abund Clay, pyr, no flour,	
	30	Sh, slty, dk brn, hd, subfiss, mic, no flour, Tr crush cut	
	30	Sst, a/a	
3110	80	Sst, brn-trans, v f-slt, ang, poor srt, friable, calc cmnt, flour, no cut mineral	
	10	Clyst, drk gry, frm, non calc	
	10	Clyst, pnk-org. frm, blkcy	
3115	40	Sltty Sh, a/a	
	30	Sltst/Clyst, a/a, light brn	
	20	Sh, dk, med gry, fiss, mic, frm, non calc	
	10	Lst, wh, hd, xln	
3120	40	Sst, slty, a/a	
	30	Coal	
	15	Sltty Sh, a/a	
	15	Sltty Clyst, a/a, light brn	
3125	60	Sd, clear-trans, friable to lse, f-v f, w rnd, w srt, no flour, no cut	
	40	Coal	
3130	80	Sd, clear quartz, lse, w rnd, w srt, local orng stain, pyrite ip.	
	20	Coal	
3135	90	Sd, a/a, 30% fluor, no cut, mineral, no calc	
	10	Coal	
3137.5		Sst, gry-orange, f-m, mod srt, subang, fri, poor-fari poor, Kao, silca cmnt, no cut, dul fluor	No show
3138		Sst, a/a, m-c, w srt, subang, v fri, good poor, Kao only, no cut dul fluor	
3138.5		Sst, a/a-wh, silt-coarse, subrnd-subang, Kao	



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 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 28.10.81.

DEPT	LITH. %	LITHOLOGIC DESCRIPTION	Shows&Remarks
3139		Sst, gry-silver, f-slt, v w srt, subang, fiolated w/abun bio + misc mic up to 80% Kao, no show, no poor	
3139.5		Sst, clear-wh, slt-v coarse, poor srt, ang, hd, silca cmnt-calc, kao, good gold yell fluor, no cut	no cut
3140		<del>Sst, a/a, loec green, loc org st a/a</del>	<del>a/a</del>
3140.5		a/a	
3141		Sst, clear-wh, f-med, w srted, slghly calc Kao, good poor, poor fluor, dol	
3141.5		Sst, a/a, f-corse, poor srt, dol	
3142.5		a/a, med-f, a/a	
3143		a/a, med, fin, w srted, good por, poor fluor, calc, dol, kao	
3143.5		a/a, fluor spotty	
3144		a/a	
3144.5		a/a, finer	
3145		a/a	
3145.5		a/a	
3146		Sst, clr-wh, f-med-coarse, mod srt, good poor, fri, dol, spotty mineral fluor	
3146.5		Sst, a/a, f-med w srt, non dol fri	
3147		Sst, a/a, f-slt, a/a	
3147.5		a/a, v fri, Tr, dol cmnt	
3148		a/a	
3148.5		Sst, clr-wh, f, w srt, rnd-subrnd, fri dol, good fluor	Gd fluor no cut



WELLSITE SAMPLE DESCRIPTION

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 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 28.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3149.5		Sst, wh-trans, slt-coarse, poor srt, subang fair-good poor, fracs w/dol, fracs w/Clyst, pale green, waxy texture, infils fractures	poor fluor
3150		Sst, wh-trans, org + green stained, f, v w srt, poor por, dol, + kao-cmnt, v fri	No fluor
3150.5		Sst, wh-trans, a/a, f-med, w srt, poor por, lse-fri, dol, kao	No show
3151		Sst, a/a, slt-f, w srt, poor por, tr dol cmnt, kao	No show
3151.5		a/a	
3151.8		a/a, slt-f, loc coarse, poor por	
3153		Sst, brn gry, f-med ang-subang, mod srt, dol cmnt, mineral fluor only fair por, fri-v fri	No show no cut
3153.5		a/a	
3154		Sst, a/a, f-v coarse, good por	a/a
3154.5		Sst, a/a	
3155		Sst, a/a	
3155.5		Sst, a/a, f-med, ang, poor srt, dol cmnt mic, secondary quartz growth, poor por	a/a
3156		Sst, clear wh, f-med, moc srt, subrnd, dol cmnt, locc green grn + red, fair por	a/a
3156.5		Sst, a/a, f-coarse, poor srt, a/a	
3157		Sst, a/a, f-med	a/a
3157.5		Sst, wh-clear, v f-f, aubang, good srt, dol cmnt, poor por, dol	a/a
3158		Sst, a/a, f-coarse, subrnd, poor srt, good por, dol	a/a



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"      Geologist: C. Baker                      Date: 29.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3158.5		Sst, wh-clear, v f-f, aubang, good srt, dol cmnt, poor por, dol, f-good srt, poor dol cmnt, mic, kaolin	
3159		Sst, a/a	
3159.5		Sst, a/a, v f-f, good srt, subrnd, dol kaolin, poor por	
3160		Sst, a/a	a/a
3160.5		Sst, clean wh, med-f, subrnd, v poor por, v kaolin	
3161		a/a	
3161.5		a/a, mod por, less kao	a/a
3162		Sst, yell wh, tran, f-coarse, poor srt, ang-subang, lse-fri, gd por, gd fluor dol + kaolin cmnt	No cut
3162.5		Sst, a/a Clyst, pale green, sft, soapy, fracture filling	a/a
3163		Sst, redish brn, v f-med, hd-friable, poor srt, ang, good por	a/a
3163.5		a/a	
3164		a/a	
3164.5		Sst, wh-trans, slt-med, fri, poor srt, ang, good por, loc green + pink stain grains	a/a
3165		Sst, redish brn, f-med, fri, mod-poor srt, subang, mod por, dol	a/a
3165.5		Sst, wh trans, a/a Clyst, soapy green in frac	a/a
3166		Sst, redish brn, med, mod w srt, subang-subrnd, dol	a/a
3166.5		a/a	





WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 29.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3167		Sst, yel brn, f, mod srt, subang, v f, mod por, dol	No cut
3167.5		Sst, yel brn, slt-med, poor srt, v fri, gd por	
3168		Sst, wh, v f, w srt, rnd, fri, calc, poor por, kaoline	a/a
3168.5		Sst, yel brn, f-med mod srt, subang, calc cmnt, dol fri	a/a
3169		Sst, yel, f-coarse, poor srt, ang, dol calc cmnt, good por	a/a
3169.5		Sst, wh, slt-coarse, poor srt, subrnd, fri, kaolin, mod por, mod fluor	No show No cut
3170		Sst, lght yell brn, med-fri, w srt, subrnd fri-hd, good por	a/a
3170.5		Sst, wh, slt-coarse, v, fri, subang, v poor srt, non calc or dol	a/a
3171		Sst, a/a	
3175	100	Sd, clear, med-coarse, mod srted, w rnd, no vis cmnt, loc green or red grns	
3180		Sd, clear f-coarse, poor srt, subrnd, dol cmnt, abund green + red grns	
3185	90 10 Tr	Sd, clear-brn, f-med, mod srt, subrnd Dol, wh-brn, sft-chlky-cmnt frm Sd, a/a Sh, brn, dk gry, frm	
3190	90 10 Tr	Sd, coarse-v coarse-med, subang, good srt to pyr Dol, a/a Sh, a/a	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 29.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3195	90	Sd, clear, f-coarse, w rnd, poor srt, gen + red stained	Top Triassic
	10	Clyst, dk rd brn, sft, more frosted + corroded	
	Tr	Clyst, greenish gry, sft, blkky, v calc	
	Tr	Clyst, pale purple, v calc	
	Tr	Clyst, light green-waxy, v calc	
	Tr	Clyst, dk gry, v calc	
	Tr	Lst, buff dk, xln	
3200	90	Sd, a/a	
	10	Clyst, a/a	
	Tr	Pyr	
3205	60	Sd, a/a	
	20	Lst, wh, sft, chlky	
	10	Clyst, red brn, sft, subfiss-blky	
	10	Clyst, v dk gy, brn, fiss, slty	
		Clyst, pale gry	
	Tr	Pyr	
3210	60	Sd, a/a	
	15	Clyst, a/a	
	15	Clyst, a/a	
	10	Lst, a/a	
3215	60	Sd, a/a	
	20	Lst, a/a	
	10	Clyst, a/a	
	10	Clyst, a/a	
	Tr	Pyr	
3220	60	Sd, clear qrtz, loc green-org, red stain, f-med, w srt, w rnd, lse	No show
	20	Clyst, red-brn, dk brn, mid gry, green, frm, blk-subfiss, v calc	
	10	Lst, wh, xln, blkky	
	10	Pyr, broken from Sst matrix	
3225	50	Sd, a/a	
	30	Clyst, a/a	incr. red Clyst
	20	Lst, a/a	
	Tr	Pyr	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 29.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3230	50	Sd, clear qrtz, loc green-org, red stain, f-med, w srt, w rnd, lse	No show
	20	Clyst, red-brn, dk brn, mid gry, green, frm, blk-subfiss, v calc	slow break at 3233
	20	Clyst, lt gry, frm, split-blky, slty, non calc	
	10	Lst, wh, xln, blkky	
3235	70	Sd, clear-qrtz, loc org or green stain, med v-w-srt, w rnd	
	20	Clyst, a/a	
	10	Lst, a/a	
3240	30	Sd, a/a, w/abund frost coarse grns	
	30	Clyst, a/a	
	20	Lst, a/a	
	20	Clyst, gryish red, blk, v hd, slty, mic, calc	
3245	40	Clyst, gryish red, blk, v hd, a/a	
	30	Sd, a/a	
	20	Sh, dk gry-blk, hd, non calc	
	10	Dol, greenish gry, v hd, loc slty	
3250	80	Clyst, a/a	
	10	Sh, a/a	
	10	Dol, a/a	No show
	Tr	Sd, a/a	
3255	60	Clyst, a/a	
	30	Lst, wh, sft, clky	
	10	Sh, a/a	
3260	40	Lst, sft, wh, arg, no cut	No show
	40	Clyst, red-gry-brn, blkky, v hd, slty mic calc	
	20	Clyst, green-gry, sft, waxey	
3265	40	Lst, a/a	
	40	Clyst, red gry, a/a	
	20	Sst, clear, locc org, med, w srt, w rnd loc coarse	No show
	Tr	Dol, gry green, hd, loc slty	
	Tr	Clyst, green, a/a	
	Tr	Gypsum ?	



WELLSITE SAMPLE DESCRIPTION

Country: Norway                      Area: North Sea                      Field: Sleipner  
 Well no: 15/9-10  
 Coordinates: 58° 19' 42.92"N; 01° 46' 20.61" E  
 K.B.E.: 25 meters      Company : Statoil/Norsk Hydro/Esso  
 Hole size: 8½"              Geologist: C. Baker                      Date: 30.10.81.

DEPT	LITH. #	LITHOLOGIC DESCRIPTION	Shows&Remarks
3270	40	Clyst, pnk, red-gry-brn, blcky, v hd, slty mic calc	
	30	Lst, sft, wh, arg, no cut	
	30	Sst, wh-green, v f-f, w srt, w rnd, v-consol, silc cmnt	
	Tr	Pyr	
	Tr	Gyp	
	Tr	Dol	
3275	40	Clyst, rd gry, a/a	
	30	Lst, a/a w/Sd grains	
	20	Sh, dk brn Sh, subfiss, hd	
	10	Sst, wh-pnk, hd f-v f, w srt, ang, v consol, silc	
	Tr	Calc	
3280		a/a	
3285	40	Clyst, red brn frm, non calc, a/a	
	30	Lst, wh sft	
	20	Sh, blk, fiss-v fiss	
	10	Sst, wh-clear brn stained grns, hd w srt, ang dol cmnt, w conso, loc coarse frosted red stained	
	Tr	Calc, hd	
3289	80	Clyst, red brn-org, frm, blcky slightly calc-cryptofossile	
	10	Sh, dk fiss	
	10	Lst, a/a, arg, loc gy	TD 3289 Drillers depth



## CONVENTIONAL CORE DESCRIPTION

FIELD SLEIPNER WELL NO. 10 AREA 15/9 NORTH SEA  
 CORE NO. 1 INTERVAL from 3061 to 3062.4 CORED 1.4 REC 1.4 100 %  
 FORM. HEATHER ? GEOLOGIST C. BAKER DATE 25/10 - 81

DEPTH	CORING RATE 2 4 6 8 10 12 14	LITHOLOGY/ GRAIN SIZE <small>mu si vf f m c vc</small>	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3061			20							Sh-Silt: med gry, hd	
			20							fiss, slty, patchy	
3061.25			5							blk carb, floating Sd	
			45							grn, v f, rnd, Tr Calc	
5			20							abund pyr, 80% as cmnt	
			10							Sh: dk gry-blk, fiss,	
75			0							coal-lig frag, pyr	
			0							veins, non calc, micro	
3062			5							mic	
			5							Sh-Siltst: a/a, w/lens	
25		10							of Sh and Sd, infills		
		45							of pyr, apparent dip-		
4		30							is cross bedded in		
		45							filled frac		

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CONVENTIONAL CORE DESCRIPTION

FIELD SLEIPNER WELL NO. 15/9-10 AREA 15/9 NORTH SEA  
 CORE NO. 2 INTERVAL from 3082 to 3100 CORED 18 REC 18 100 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 27/10-81

DEPTH	CORING RATE 5 10 15m/Hr	LITHOLOGY/ GRAIN SIZE mu si vf f m c vc	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
82			5							Siltst: dk brn, Silt-vf ang, pyr, carb, friable-hd poor srt, sub-rnd	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
.5		WAX CORE	5							Silty Sh: dk brn, hd, abund carb, pyr	
83			8							Coal: blk, vitrious, brit	
.5			8								
			8								
			8								
.5			10							Siltst: a/a, grads to Sd, rnd, mod srt, fair flow, v slow streaming cut, gold fluor, pale yel cut	
84			10								
.5			10								
			10								
			15							Silty Sh/Siltst: no flour Tr crush cut	
85										Coal: a/a	
.5											
86										Clyst: occ blk, dusky brn, hd to sft	
.5											
87										Sh: dk brn, hd, fiss micro lam w/carb, non calc, micro-mic	
.5											

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### CONVENTIONAL CORE DESCRIPTION

FIELD Sleipner WELL NO. 15/9-10 AREA North Sea  
 CORE NO. 2 INTERVAL from 3082 to 3100 CORED 18 REC. 18 100%  
 FORM. Mid Jurassic GEOLOGIST C. Baker DATE 27/10-81

DEPTH	CORING RATE 5 10 15	LITHOLOGY/ GRAIN SIZE mu si vf f m c vc	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3088			5							Sh: dk brn, hd, fiss Clyst: dusky brn hd	
			0							Silty Sst: brn, silt- vf, rnd, mod srt. fri- hd, kao, micromic	☾ ☽
			0								
			0								
			0								
3089			0							Sh: a/a	
			0							Siltst-Sst: brn wh blk, Silt: vf, arg, kao, dol	
			0								
			0								
3090			0								
			0							Clyst: dusky brn, blk	
			0								
			0								
3091			0							Silty Clyst: no fluor Tr crush cut	
			0								
			0								
			0								
3092			0							Clyst: dusky brn, blk w/conch frac, abund plant remains, micromic	☞ ☞ ☞ ☞
			0								
			0								
3093			0								

mu si vf f m c vc  
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**CONVENTIONAL CORE DESCRIPTION**

FIELD SLEIPNER WELL NO. 15/9-10 AREA 15/9 NORTH SEA  
 CORE NO. 2 INTERVAL from 3082 to 3100 CORED 18 REC. 18 100 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 27/10-81

DEPTH	CORING RATE 5 10 15	LITHOLOGY/ GRAIN SIZE mu si vf f m c vc	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3093										Clyst: dusky brn, blk Silty Sh	
3094			0							Siltst-Sst: brn-blk, silt-vf, arg, kao, pyr, dol	
3095			0							Clyst: a/a	
3096			0							Sst: brnsh gry, hd, f-m, subrnd, v con, poor por, kao, silica cmt, Dol cmt, Tr fluor no cut	
3097			0								
3098			5 5								

mu si vf f m c vc  
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**CONVENTIONAL CORE DESCRIPTION**

FIELD SLEIPNER WELL NO. 15/9-10 AREA 15/9 NORTH SEA  
 CORE NO. 2 INTERVAL from 3082 to 3100 CORED 18 REC. 18 100 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 27/10-81

DEPTH	CORING RATE	LITHOLOGY/ GRAIN SIZE <small>mu si vf f m c vc</small>	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
99		WAX CORE 	5						Sst: yel-brn, silt-med, rnd, well srt, fri, kao, v tight, no show		
3100			5						Sst: a/a, w/micro lam of plant remains		
			10								
			5								
			10								

mu si vf f m c vc  
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**CONVENTIONAL CORE DESCRIPTION**

FIELD SLEIPNER WELL NO. 15/9-10 AREA NORTH SEA  
 CORE NO. 3 INTERVAL from 3137 to 3153 CORED 16 REC 15 93 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 28/10-81

DEPTH	CORING RATE 5 10 15	LITHOLOGY/ GRAIN SIZE mu si vl f m c vc	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3137										Sst: gry-orange, f-m, mod srt, subang, fri, kao, silca	□ □
3138											
3139										Sst: gry-silver, f-silt, v well srt, subang, frioliated w/ abund (80%) bio+muc mic, kao, dol blocks of Clay	
3140											
3141										Sst: clear wh, f-med, w srted, dol, kao, good por, poor fluor	
3142											

WAX

mu si vl f m c vc  
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**CONVENTIONAL CORE DESCRIPTION**

FIELD SLEIPNER WELL NO. 15/9-10 AREA NORTH SEA  
 CORE NO. 3 INTERVAL from 3137 to 3153 CORED 16 REC 15 93 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 28/10-81

DEPTH	CORING RATE 5 10 15	LITHOLOGY/ GRAIN SIZE mu si vf f m c vc	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3143		[Dotted pattern]	5							Sst: clr wh, f-med, w srted, dol cmt, kao, good por, in filled with floury dol powder	[Diagonal lines]
44		[Dotted pattern]	5								[Diagonal lines]
3145		[Dotted pattern]	10								[Diagonal lines]
46		[Dotted pattern]	60								[Diagonal lines]
47		[Dotted pattern]	10								[Diagonal lines]
3148		[Dotted pattern]	35								[Diagonal lines]

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### CONVENTIONAL CORE DESCRIPTION

FIELD Sleipner WELL NO. 15/9-10 AREA North Sea  
 CORE NO. 3 INTERVAL from 3137 to 3153 CORED 16 REC 15 93 %  
 FORM. Mid Jurassic GEOLOGIST C. Baker DATE 28/10-81

DEPTH	CORING RATE	LITHOLOGY/ GRAIN SIZE <small>mu si vf f m c vc</small>	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.	
				Stain	Fluor	Cut	Poor	Fair	Good			
48			30							Sst: clear wh, f, well srt, subang, fri slightly dol		
			40									
			0									
			0									
3149				20								
				5								
				60								
				5								
3150												
3151				60								
3152				40								



**CONVENTIONAL CORE DESCRIPTION**

FIELD Sleipner WELL NO. 15/9-10 AREA North Sea  
 CORE NO. 4 INTERVAL from 3153 to 3171 CORED 18 REC. 18 100 %  
 FORM. Mid Jurassic GEOLOGIST C. Baker DATE 30/10-81

DEPTH	CORING RATE	LITHOLOGY/ GRAIN SIZE	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3153		 WAX							Sst: brn gry, f-med, ang subang, mod srt, dol cmt, mineral fluor no cut, fair poor, fri-v fri		
3154									a/a, f-v coarse, good por		
3155			60						a/a, f-med, poor srt mic, second quartz growth, poor por		
3156									Clyst: green, waxy in cracks a/a, f-coarse		
3157									a/a, f-med a/a, vf-f		
3158									a/a, f-coarse		

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### CONVENTIONAL CORE DESCRIPTION

FIELD SLEIPNER WELL NO. 15/9-10 AREA NORTH SEA  
 CORE NO. 4 INTERVAL from 3153 to 3171 CORED 18 REC 18 100 %  
 FORM. MID JURASSIC GEOLOGIST C. BAKER DATE 30/10-81

DEPTH	CORING RATE	LITHOLOGY/ GRAIN SIZE <small>mu si vf f m c vc</small>	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3159										Sst: brn gry, vf-f, good srt, subrnd, dol, kao, poor por	
3160											
3161										a/a, m-fn	
3162											
3163										Sst: redish brn, vf-med hd-fri, poor srt, ang, good por	Clay in fill 
3164											

mu si vf f m c vc



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### CONVENTIONAL CORE DESCRIPTION

FIELD Sleipner WELL NO. 15/9-10 AREA North Sea  
 CORE NO. 4 INTERVAL from 3153 to 3171 CORED 18 REC 18 100%  
 FORM. Mid Jurassic GEOLOGIST C. Baker DATE 30/10-81

DEPTH	CORING RATE 10 20 30m/H	LITHOLOGY/ GRAIN SIZE m u s i v f f m c v c	DIP (apparent)	SHOWS			POROS			LITHOLOGIC DESCRIPTION	MISC.
				Stain	Fluor	Cut	Poor	Fair	Good		
3165		WAX	45							Sst: redish brn, vf-med, hd fri, poor srt, ang	
3166			30							Sst: wh-trans, silt-med, fri, mod poor srt, ang, fair loc green + pink stain grns	SLUMPS 
3167			30							Sst: redish brn, med, well srted, subang-subrnd, dol	
3168			50							Sst: yel brn, silt-med, poor srt, v fri good por	
3169			60							Sst: wh v f, w srt, rnd, fri, calc, loc poor por, kao	
										Sst: yell brn, f-med, mod srt, subang, calc cmt, dol, fri	SLUMPS 

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**SIDEWALL CORE DESCRIPTION**

COUNTRY:	Norway	AREA:	North Sea	FIELD:	Sleipner
WELL NO.:	15/9-10	RUN NO.:	1	INTERVAL:	2342.6 - 2662.5 m
COORDINATES:	58 ° 19 '42.92" N ; 01 ° 46 '20.61" E				
K.B.E.:	25 meters	COMPANY:	Statoil/Norsk Hydro/Esso		
HOLE SIZE:	12 1/4"	GEOLOGIST:	S.Evensen/S.Bjerkenes	DATE:	11.10.81

DEPTH	REC.	LITHOLOGIC DESCRIPTION	POROSITY	SHOWS
2662.5	50	Sst, lt gy, f, occ med, few grns v crs, poor srted, subang-subrnd, non calc, loose-frm	Fair	No
2659	75	Sst, lt gy-lt brn, f-m, occ crs, poor srted subang-subrnd, non calc, fri	Fair	No
2645	50	Sst, as 2659 m	Fair	No
2637	60	Sst, lt gy, occ brnish, qtz, f-m, occ crs, poor srted, subang-subrnd, non calc, lse-fri	Fair	No
2627.4	75	Sst, lt gy, occ ly brnish qtz, vf-f, poor srted subang-subrnd, hd-frm, non calc tr glauc	Fair	No
2618	75	Sst, lt gy, occ ly brnish qtz, vf-f, poor srted, subang-subrnd, hd, non calc	Poor	No
2616	70	Sst, lt gy, vf-f, poor srted, ang-subang, lse-fri, qtz mtx, non calc	Poor	No
2610.5	90	Sst, as 2618 m	Poor	No
2605	60	Sst, lt gy, vf-f, fair-poor srted, subang-subrnd, fri, non calc	Fair	No
2595	40	Sst, lt gy, f-m, fair-poor srted, subang-subrnd, lse, non calc	Fair/Good	No
2592.9	25	Sst, lt gy, f-m, poor srted, subang-subrnd, frm-fri, non calc, tr of glauc, sli sil cmt	Fair/Good	No
2591	25	Sst, lt gy, f-m, poor srted, subang-subrnd, lse-fri, non calc	Fair/Good	No
2585.8	80	Sst, lt gy, f-m, poor srted, subang-subrnd, lse-fri, tr calc	Fair/Good	No
2583	75	Sst, as 2586 m, non calc	Fair	No
2580	60	Sst, as 2583 m	Poor	No
2572.6	90	Sst, lt gy, f-m, few grs crs, poor srted subang-subrnd, frm-fri, non calc	Fair	No
2570.1	75	Sst, lt gy, f-m, poor srted, subang-subrnd, fri-lse, non calc, Tr of glauc	Fair	No
2564.9	60	Sst, as 2572 m	Fair	No
2562.1	90	Sst, lt gy, vf-m, occ crs grns, poor srted subang-subrnd, frm, Tr calc	Poor	No
2556.9	60	Sst, lt gy, f-m, occ crs grns, poor srted, subang-subrnd, frm-lse	Fair	No
2553	60	Sst, as 2557 m, frm,	Fair	No





## SIDEWALL CORE DESCRIPTION

COUNTRY: Norway	AREA: North Sea	FIELD: Sleipner
WELL NO.: 15/9-10	RUN NO.: 2	INTERVAL: 3290 - 2706 m
COORDINATES: 58° 19' 42.92" N ; 01° 46' 20.61" E		
K. B. E.: 25 meters	COMPANY: Statoil/Norsk Hydro/Esso	
HOLE SIZE: 8 1/2"	GEOLOGIST: C. Baker	DATE: 1.11.81

DEPTH	REC.	LITHOLOGIC DESCRIPTION	POROSITY	SHOWS
3281	0			
3244	50	Claystone, gryish red, frm, calc, slightly swelling to cryptofissile	NONE	NONE
3224	40	Sst, buff, v fn-med, soft, dol cmt, mic, kerogen flks, loc red+gren stained grns	NONE/TR	NONE
3201	85	Sst, wh trans, v fn-fn, firm, do cmt, mic no flow, not cut	POOR	NONE
3184	50	Sst-Lst, wh-tran, m-coarse, hd-v hd, calc-dol cmt, tight, grn grns, loc Lst, wh sft	POOR	NONE
3137.5	60	Sst, wh fn-med, ang-subang, hd, kaolin, non calc, mic-musc	FAIR	NONE
3131	48	Clayst, yellow brn, non calc, silt, mic	NONE	NONE
3126.2	30	Sst, pale brn, fn-v fn, ang, fri, well sort, dol cmt	FAIR	NONE
3116.5	90	Shale, brnish gry, hd, fiss, mic, slighty silty slightly calc,	NONE	NONE
3079	100	Shale, brnish brn, frm-hd, fiss-blocky, mic non swell, non calc	NONE	NONE
3076	30	Siltstone-Sst, pale brn, v fn sd-silt, fri, poor, swells in acid, arg, lam brn/pale brn,	POOR	FAIR
				yel fluid se stp wh cut
3072.5	35	Coal, blk, vitreous, hd	NONE	NONE
3062	30	Clayst, gryish blk, frm, v calc,	NONE	NONE
3056	30	Sh, dusky yellow brn, firm non calc, blocky, hygrofiss, amber fluor, cut-yellow, gd crush cut	NONE	FAIR
3024	100	Sh, dusky yell brn, frm, fiss, v calc, cryptofiss,	NONE	NONE
3005	90	Sh, dusky yell brn, fiss, calc, cryptofiss	NONE	NONE
3002	30	Lst, wh, hd wary, arg, chalky-wackestone to pry	NONE	NONE
2999	20	Lst, wh, hd, splitery a/a w/gry micro lam	NONE	NONE
2991	70	Clayst-Marl, moderate brn, soft, v calc	NONE	NONE
2988	0			
2984	0			

