Permanent samling
Denne rapport tilhører
STATOIL
L&U DOK. SENTER
L. NR. 30083080002
KODE 15/12-2 NR-1.
Returneres etter bruk

No 1

STATOIL-ESSO

COMPLETION REPORT

15/12-2

50

WELLFILE

STAVANGER
MARS 1976

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S T A T O I L / E S S O 15/12-2

I INTRODUCTION

a) Well Designation: Statoil/Esso 15/12-2

b) Well Classification: New Field Wildcat

c) Well Location:

1. Country: Norway, North Sea
2. License: 038
3. Coordinates: Latitude 58° 08' 31,05" N
   Longitude 01° 55' 47,27" E
4. Seismic Location: Shotpoint 485
   Line 511 - 327
   1975 Survey
5. Water Depth: 85,9 m

II PURPOSE OF WELL

Well 15/12-2 was drilled in order to evaluate Jurassic formations on a seismic structure located in the eastern part of block 15/12.

III RESULTS OF WELL

The well was drilled to a total depth of 2924 m (KB), and bottomed in anhydrite of possible Permian age.

The Dogger sand was cored from 2823 m to 2835,4 m, with no show.

IV WELL HISTORY

a) General

1. Spud Date: 7 January 1976
2. Completion Date: 27 February 1976
3. Status: Plugged and Abandoned

4. Total Depth: 2924 m
5. KB: 25,0 m

b) Contractors

1. Rig: Ross Rig
2. Drilling: Ross Drilling Company A/S
3. Cementing and DST: Dowell-Schlumberger
4. Well Testing: Otis
5. Electric Logging: Schlumberger
6. Mud Logging: Baroid
7. Mud Service: Maritime
8. Marine Service: Grieg Offshore: Ibis One
   Karmøy Supply: Karmøy Boy
9. Location Service: Geoteam (Satnav)
10. Diving: Three-X
11. Helicopters: Helikopter Service A/S

c) Casing

1. 30" at 145 m
2. 20" at 356,5 m
3. 13 3/8" at 1811,5 m

d) Mud Program

Initial drilling from the sea floor to 370 m was with seawater and gel

A lignosulphonate-seawater mud system was used from 350 m to T.D. Mud weight was raised from the initial 9.2 to 11.8 at 2650 m.

e) Drilling Problems

Very few problems were encountered in the drilling operation. Sloughing shales were encountered below the 13 3/8" casing seat.

f) Coring

1. Conventional coring: (Description attached)
   Core no. 1: 2823 m - 2835,4 m
   Recovered 12,4 m, 100 %
2. Sidewall coring: (Description attached)
   Run 1. Shot 30, recovered 23
   Run 2. Shot 30, recovered 28

g) Logging

1. Baroid, ADT Unit includes the following data:

   a) Drilling rate
   b) Lithology
   c) Cutting gas
   d) Mud gas
   e) Chromatograph
   f) H_2S detector
   g) Shale density
   h) 20 other parameters

2. Schlumberger

Type of log		Interval (m)	Run nos.
a)	BHC - GR	145 - 368	1
b)	ISF - SONIC	356 - 781	1
	ISF - SONIC	356 - 1829	2
	ISF - SONIC	1812 - 2924	3
c)	FDC - CNL	2500 - 2924	1
d)	HDT	1850 - 2924	1

3. Comments on Log Analysis 15/12-2

A quantitative interpretation was done over the interval 2818 m - 2867 m (Thickness = 49 m) in the Dogger sand. The interpretation showed 100% water-bearing sand with no traces of hydrocarbons. A net thickness of porosity sand was calculated to 39,5 m.

The cut-off was based on log indications of hard (tight) streaks.

The sand is very clean with very small or no indications of cementation material. The clay content is generally small (0-20%), and the net sand has a porosity changing from 13,5% to 34,5%. The average net porosity is calculated to 26,5%.

The formation water resistivity was calculated to be 0,021 ohm - m. At BHT = 205°F the concentration of NaCl is 150 000 ppm.

4. Velocity Survey

Conducted by Seismograph Services Ltd. (SSL) after reaching T.D.

26 check shots, levels from 300 m to 2920 m (K.B.).

h) Abandonment

The well was abandoned on 27. February 1976. The well was plugged by four cement plugs. The well-head and guide-structure were retrieved after cutting the casing 4,57 m (15') below sea-floor.

The following plugs were placed in the borehole:

Plug 1:	2724,9 m - 2895,6 m
Plug 2:	1743,5 m - 1856,8 m
Plug 3:	292,6 m - 384,0 m
Plug 4:	152,7 m - 201,2 m

V STRATIGRAPHY

a. Table of stratigraphy.

Stratigraphic units	Drill depths (K.B.) (m)	Subsea (m)	Thickness
Quaternary/Pliocene	111	-86	849
Upper Miocene	960	-935	120
Middle Miocene	1080	-1055	150
Upper Oligocene	1230	-1205	120
Middle Oligocene/Eocene	1350	-1325	725
Paleocene	2075	-2050	159
Danian/Upper Cretaceous	2234	-2209	416
Lower Cretaceous	2650	-2625	53
Malm	2703	-2678	115
Dogger	2818	-2793	50
Triassic	2868	-2843	20
Zechstein	2888	-2863	36 +
T.D.	2924	-2899	

b. Short Description of Formations

1. Quaternary - Pliocene (111 m - 960 m, 849 m thick)

The first cutting sample was taken from 145 m. The Quaternary/Pliocene section consists of clay with a few sand interbeds, mainly in the upper part.

The clay is grey, soft, silty and sticky

The sand-sections consist of clear and milky white quartz-grains, with occasional rockfragments. The sand is medium grained, subangular to subrounded and poorly sorted.

In this section both foraminifera and shell fragments are generally abundant.

2. Miocene (960 m - 1230 m, 270 m thick)

The upper Miocene consists mainly of clay and sand. The sand is clear, quartzitic, very fine grained, subrounded to rounded and well sorted. Trace pyrite, glauconite and foraminiferas occur.

The clay is medium grey, sligthly calcareous, slightly silty, soft to firm and pyritic in parts. Interbedded in the clay is streaks of siltstone, which is grey-green, hard and is silica-cemented. In middle and lower Miocene the clay is grading into medium grey and is noncalcareous. The shale is silty, and soft to medium hard.

The top of Miocene is based on paleontology.

3. Upper Oligocene (1230 m - 1350 m, 120 m thick)

Shale is dominating in upper Oligocene. The shale is brown and light medium grey, silty, moderate firm and calcareous. Occasional occurrence of shell fragments and glauconite.

The top of the Oligocene is based on paleontology.

4. Middle Oligocene and Eocene (1350 m - 2075 m, 725 m thick)

This section consists of a grey to medium dark grey shale, which is firm, fissile and noncalcareous. The shale is frequently interbedded by dolomite stringers. The dolomite has a light brown to tan colour, and is silty and hard.

<u>The following tops are log correlated</u>:

5. Paleocene (2075 m - 2234 m, 159 m thick)

The upper part of Paleocene consist of light green-grey and greyish red shales. The shales are firm, fissile and noncalcareous with trace of glauconite. At 2125 m is a bed of white, soft tuff.

The lowermost part of the Paleocene consists of a firm, fissile and red-brown shale which is non-calcareous.

6. Danian/Upper Cretaceous (2234 m - 2650 m, 416 m thick)

The upper part of this division is represented by chalk. The chalk is white to tan, and contains abundant chert. The chalk becomes harder downwards. From 2475 m and downwards pink to buff chalk is found. A few interbeds of dark grey, soft and silty shale are also found.

In the lower part, an alternation of soft, brown marl with soft, calcareous siltstone and some detrital limestone are found.

7. Lower Cretaceous (2650 m - 2703 m, 53 m thick)

In the Lower Cretaceous strata, a very silty, soft, red brown and grey-green marl is found.

Jurassic (2703 m - 2868 m, 165 m thick)

8. Malm (2703 m - 2818 m, 115 m thick)

A soft, dark brown shale, rich in organic material, in parts peaty, is found in this interval. The shale turns more black downwards, and contains fair amounts of pyrite.

The top of the shale is very diagnostic on the gamma log.

9. Dogger (2818 m - 2868 m, 50 m thick)

This sand section, comprising the middle Jurassic Sandstone interval, was the main objective of this well. The sand was cored over an interval from 2823 to 2835 m.

The sand occurs in three increments, all fining uppwards, each 15-20 m thick.

The sand is ranging from very coarse to very fine grain size,

with medium sized sand dominating. It consists mainly of well sorted, rounded, clear quartz grains. Occasionally, well rounded feldspar grains can also be found. Traces of carbonaceous material is fairly common, and in the finer parts, pyrite is found. Porosities and permeabilities are very good.

The sand is very bioturbated, and as it is also tectonically disturbed, very few primary sedimentary structures are preserved. Along the minor fault planes, the sand is silica cemented.

The interval contains bed(s) of light brown, hard and dense siderite.

10. Triassic (2868 m - 2888 m, 20 m thick)

The Triassic interval consists of shales, mostly light grey-green, but also some red-brown. The shales are soft and silty, and in parts very pyritic.

11. Zechstein (2888 m - T.D., 36 m + thick)

The well bottoms in an anhydritic section. The anhydrite has a sucrosic to amorphous texture, and is grey-white and mostly soft in cutting samples. Minor amounts of shales and siltstones are interbedded.

VI RESERVOIRS

1. Upper Miocene sand (992 m - 1038 m), apparently good reservoir, no show.

2. Dogger sandstone (2818 m - 2868 m), good reservoir, no show.

VII CONCLUSION

The principal objective of the 15/12-2 well was to test the Dogger sandstone, were oil shows had been encountered in the 15/12-1 well. A secondary object was a possible sand in the Paleocene.

No sand was found in the Paleocene. The Dogger sandstone was found 304 meters higher than in the 15/12-1 well. The sandstone proved to have very good reservoir qualities, but was completely water-bearing.

Prepared by:

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Statoil

WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway | AREA: North Sea | FIELD: Wildcat

WELL NO: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: Statoil/Esso

HOLE SIZE: 17½" | GEOLOGIST: ÅS & SGL | DATE: 9 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
145-155	100 tr	Cly, sli slty, gy, stcky, sft Shell frags	
165		AA	
175		AA	
185		AA	
195		AA + tr meta rock frags	
205		AA	
215		AA	
225	60	Sd, clr-mlky qtz and rock frags, subang - subrnd, med grn, poor srtd	
	40 tr	Cly, AA Shell frags	
235	70 25	Sd, AA, crs-vcrs Cly, AA	
	5	Shell frags	
245		AA	
255	90 10	Cly, slty, gy, stcky Sd, AA	
275	60 40	Cly, AA Sd, AA	
	tr	Shell frags	
285	95 5	Cly, gy, stcky Sd, AA	
295	100	Cly, sl slty, gy, stcky	
305		AA + tr shell frags	
315		AA "	
325		AA "	
335		AA + tr sd, fn grn	
345		AA + tr	
355		AA	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway	AREA: North Sea	FIELD: Wildcat
WELL NO: 15/12-2		
COORDINATES: 58° 08' 31,03'N ; 01° 55'47,27"		
K.B.E.: 25 meters	COMPANY: Statoil/Esso	
HOLE SIZE: 17½"	GEOLOGIST: J.H., S.H., E.L.	DATE: 17 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
365		AA	
375		Poor sample, mainly cement, some gry, cly, sft, loose grn of SD, clr to brn, subrund-rnd. Tr. foss fragm.	
385	100	Cly, sft, stky, noncalc	
395	95	Cly AA, 5% SD md grnd, clr subrund	
405	100	AA	
415	100	Cly AA, tr sh fragm	
425		AA	
435		AA, Tr forams, Tr sd	
445		AA, incr sd, clr, med grnd, subang.	
455		AA, Tr sd, tr siltst.	
465		AA	
475		AA	
485	100	Cly, med. gry, sltly silty, sft	
495		AA	
505		AA	
515		AA	
525		AA	
535		AA	
545	100	Cly, med. gry, silty, sft, stcky	
555	100	AA	
565	100	Cly, AA, slightly calcarous, Tr. sd grains	
575		AA	
585		AA	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway | AREA: North Sea | FIELD: Wildcat

WELL NO: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: Statoil/Esso

HOLE SIZE: 17½" | GEOLOGIST: JH, SH, EL | DATE: 17 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
595	100	Cly, AA	
605	100	AA	
615		AA	
625		AA	
635		AA	
645		AA	
655	100	Cly, med. gry, slty, sft, stcky. Non calc.	
665	100	AA	
675	"	AA	
685	"	AA	
695	"	AA	
705	"	AA less silt	
715	"	AA	
725	100	Cly AA, slty, sl calc.	
735	"	AA	
745	"	Cly, AA Tr. rock fragm.	
755	"	AA	
765		AA	
775		AA	
785		AA	
795		AA	
805		AA	
815		AA	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY	Norway	AREA	North Sea
FIELD	Wildcat		
WELL NO:	15 12-2		
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"		
K.B.E.:	25 meters	COMPANY:	Statoil/Esso
HOLE SIZE:	17½"	GEOLOGIST:	JH, SH, EL
DATE:	17 Jan 1976		

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
825		AA	
835		AA	
845		AA	
855		AA	
845		AA, a little firmer, non calc	
855		AA	
865		AA	
875		AA	
885		AA	
895		AA	
905		AA	
915		AA	
925		AA	
935		AA	
945		AA	
955		AA	
965		AA	
975	100	Cly, med gry, sl calc, sl slty, sft to frm in parts, pyritic. Tr Ls, buff, mod. hd.	
985	100	Cly AA	
995		Cly AA, incr firmness	
1005		AA, tr sltst, lt gry to grnish, hard, tr sh fragm	
1015		AA, tr slst mainly const. of silica cmt qtz grn, a few glauc. grns, gy-grn, tr sh fragm	
1025	100	Cly AA, abn sh fragm	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY	Norway	AREA North Sea	FIELD Wildcat
WELL NO:	15/12-2		
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"		
K.B.E.:	25 meters	COMPANY: Statoil/Esso	
HOLE SIZE:	17½"	GEOLOGIST. JH, SH, EL	DATE: 17 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1035	90 10	Cly AA sh, dk brn - blk, med firm. Tr sh fragm	Sand possibly lost on shale shaker.
1045	100	Cly AA very silty, mica, tr sh fragm	Sand in the desander from 1050 m
1055		AA + Tr of mica flakes	
1065		AA	
1075		AA Sand from desander:	
		Sd, clear, vy fn, subrnd-rnd, qtz, gd srtd Tr Pyrite, Glauconite, Lignite (?), Tr forams	No show
1085	90 10	Cly, AA Sh, dk gry-blk, med firm, silty	
		Tr qtz grns, AA	
1095	60 40	Cly, AA Shale, AA	
1105		AA	
1115		Cly, AA	
		18 Jan 1976	
1125	100	Cly/sh, med gy, non calc, slty, soft to firm	
		Tr Sd, clear vy fn	
1135	100	Cly/shale AA. Tr sltstone, lt gy, calc, hard	
1145		AA	
1155		AA	
1165		Cly/shale AA	
1175		AA	
1185		AA	
1195		AA - soft-mod firm cuts	(spls. improving)
1205		AA " " " "	↓
1215		AA " " " "	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	Norway	AREA:	North Sea	FIELD:	Wildcat
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	Statoil/Esso		
HOLE SIZE:	17½"	GEOLOGIST:	JH, SH, EL	DATE:	18 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1225		Sh - brn & lt-med gy - mod firm, non calc, slty (still lots of stcky clay in spl.); tr shells; tr f.g. ss	
1235		Sh AA	
1245		Sh - silty pred. med gy, some brn. mod. firm. non-calc. lighter gy bas glauc.	good cuts
1255		Sh brn & gy AA	good spl.s
1265		Sh brn & gy AA	
1275		Sh - mainly brn silty-mod firm tr. glauc tr shells	
1285		Sh brn AA - (soft)	soft
1305		Sh " " "	
1315		Sh " " "	
1325		Sh " " "	
1335		Sh/slyst AA	
1345		Sh/slyst AA med firm to sft	
1355		AA	
1365		AA	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	Norway	AREA:	North Sea	FIELD:	Wildcat
WELL NO:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	Statoil/Esso		
HOLE SIZE:	17½"	GEOLOGIST:	JH, SH, EL	DATE:	19 Jan 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1375	100	Sh/Clyst, soft to med firm, med gr to lt brn, silty, non calc, tr glauc, tr sh fragm	
1385		Clyst. sh less med gry, lt brn, dom, also dk brn, AA Tr. Sh fragm.	
1395		Sh/Clyst AA, calc in parts Tr Dolomite, tan, hard, Shell fragms	
1405		AA	
1415		Sh/Clyst AA, non calc Tr Dolo AA, Shell fragm	
1425		AA	
1435		Sh/Clyst, med gy to lt and dk brn, AA Tr Sltstone, lt gy, med hd, calc. Tr Shell fragm	
1445		Sh/Clyst AA	
1455		Sh/Clyst AA. Tr shell fragms	
1465	90	Shale, med gy to dk gy and brn, soft to mod firm, silty, glauconittic	
	10	Shale, gy-grn, firm, slty, sl clac. Tr. Dolomite, tan to lt red-brn, mod hd. Tr Microfossils	
1475		AA	
1485	70	Shale, med-dk gy, brn, AA	
	30	Shale, gy-grn, blue-grn, soft to mod firm, non calc, slty	
	Tr	Ls, dolomittic, tan, hd	
1495		Shale, AA, Tr Sltst, lt gry, silicacement, hard	
1505		Shale AA, 5% Sltst, AA	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31.05" N ; 01° 55' 47.27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	17½"	GEOLOGIST:	W.H. - F.Aa	DATE:	27.1.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
535	100	Shale, med - dk gy, slty, non-cale,	
		med, hard, fissile.	
	Tr.	Shale, brn, med, hard.	
	Tr.	Sltst, lt, gy, med, hard.	
	Tr.	Lignite.	
	Tr.	Dol, buff, slty, hard.	
		-lt, brn.	
1535-45	100	Shale AA, soft - firm.	
	Tr.	Shale, brn, slty,	
	Tr.	Dol, AA.	
1545-55	100	Shale aa.	
	Tr.	Dol, aa.	
555-65	100	Shale, aa.	
	Tr.	Dol, aa.	
565-75	100	Shale, med, gy. Firm. Slty, fissile.	
	Tr.	Shale, dk, gy. Firm.	
	Tr.	Pyr.	
	Tr.	Lignite	
	Tr.	Dol, buff - lt brn, hard, slty.	
	Tr.	Silicified microfossils.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	17½"	GEOLOGIST:	W.H. - F.Aa.	DATE:	27.-28.1.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
575-85	100	Shale, med - dk gy. Firm, slty, fissile.	
	Tr.	Shale, brn.	
	Tr.	dol, buff - yellow, hard, slty.	
585-95	100	Shale, med - dk gy. Firm- slightly slty.	
	Tr.	Dol, buff, hard, slty.	
		lt, brn.	
595-1605	100	Shale, a,a, fissile.	
	Tr.	Dol, biff - lt brn, hard, slty.	
	Tr.	Silicious fossils. Hard. Wellreunded, white.	
1605-15	100	Shale a,a.	
	Tr.	Dol, a,a, less than before.	
	Tr.	Sltst, red - brn. Med, hard, shaly.	
	Tr.	Shell fragments.	
1615-25	100	Shale, a,a, med - hard - hard.	
	Tr.	Dol, buff - lt, brn, hard, limy, slty.	
25-35	100	Shale, med, gy - dk, gy - brn, fissile.	
		Soft - med, hard, Slightly slty. Non cale.	
	Tr.	Dol, buff - lt brn, med, hard, limy.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 17½" | GEOLOGIST: F.Aa. | DATE: 28.1.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
635-45	100	Shale aa.	
	Tr.	Dol. aa.	
645-55	100	Shale aa.	
	Tr.	Dol, aa.	
1655-65	100	Shale aa.	
	Tr.	Dol, aa.	
	Tr.	Silicified fossils. White, well rounded hard.	
65-75	100	Shale aa.	
	Tr.	Dol, aa.	
75-85	100	Shale, med, gy - brn. Firm. Fissile	
		Slightly slty. Non cale.	
	Tr.	Dol, buff - lt brn. Slty. Hard.	
85-95	100	Shale aa.	
	Tr.	Dol, aa.	
	Tr.	Silicic material, white, wellrounded, hard.	
5-1705	100	Shale aa.	
	Tr.	Dol, aa.	

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Den norske stats oljeselskap a.s
Postboks 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,09" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATIOIL/ESSO		
HOLE SIZE:	17½"	GEOLOGIST:	F - R Aa	DATE:	28.1.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
705-15	100	Shale aa.	
	Tr.	Dol, aa.	
15-25	100	Shale aa.	
	Tr.	Dol, aa.	
25-35	100	Shale, med - dk gy, firm, fissile.	
		Slty, non-calc.	
	Tr.	Dol, aa.	
	Tr.	Ls, buff, dolomitic, soft - med, hard.	
35-45	100	Shale aa.	
	Tr.	Dol, buff - lt brn, hard, slty.	
	Tr.	Ls, aa.	
45-55	100	Shale aa.	
	Tr.	Dol, aa.	
55-65	100	Shale aa.	
	Tr.	Dol, aa.	
65-75	100	Shale aa.	
	Tr.	Dol, aa.	
75-85	100	Shale aa. + Sh, brn, firm, fissile.	
	Tr.	Dol, aa.	
	Tr.	Silicic material. Sylindrical.	
85-95	100	Sh, med gy/gy bn, firm fiss, rare slty stks, w/	
	Tr.	Dolo, aa. Bf/tan	
95-1805	100	As above	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway | AREA: North Sea | FIELD: Wildcat

WELL NO.: 15/12-2

COORDINATES: 58 ° 08 '31,05" N ; 01 ° 55 ' 47,27"

K.B.E.: 25 meters | COMPANY: Statoil/Esso

HOLE SIZE: 17½" | GEOLOGIST: F - R Aa | DATE: 28.1.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1805-15	100	As above	
15-25	100	As above	
25-35	100	Sh, aa.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway | AREA: North Sea | FIELD: Wildcat

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: Statoil/Esso

HOLE SIZE: 12 1/4" | GEOLOGIST: SGL/JP/ÅS | DATE: 3. Feb. 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
1845	100 tr	Sh, med gy, firm, fissile, noncalc Dol, buff-tan	
	tr	Fossil frags (some pyritized (gastropods). Pyr	
1855		aa.	
1865	90 10	Sh, aa Dol, aa, tr aa	BGG 10 units
1875	100	Sh, aa, tr aa	
1885		aa	
1895	100 tr	Sh, aa Dol, aa	Max. gas
1905		aa	15 units
1915	100	Sh, aa, mainly lt gy	
1925		aa	
1935		aa	
1945	100	Sh, aa, mainly lt gy - gy-grn, sli softer. Tr. aa, mica	
1955	100 tr	Sh, aa Dol, aa	
	tr	Carbon mat., black	
1965	tr	aa glauconite	
1975	100 tr	Sh, aa, and sh, lt brown Dol, aa	
1985		aa	
1995		aa	
2005		aa	
2015		aa	
2025		aa	
2035		aa	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	Norway	AREA:	North Sea	FIELD:	Wildcat
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31.05" N ; 01° 55' 47.27"				
K.B.E.:	25 meters	COMPANY:	Statoil/Esso		
HOLE SIZE:	12 1/4"	GEOLOGIST:	SGL/JP/ÅS	DATE:	3 & 4 Feb. 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2045		aa	
2055		aa	
2065	100	Sh, aa and sh, brnish gy. Tr aa	
2075	100	Shale, lt green-gy and sh, gryish-red, firm, fissile, noncalc	
	tr	Dol, tan and rd-brwn, hd	
	tr	Glauconite, tr pyr	
	tr	siliferous mat., wh, hd.	
2085		aa	
2095		aa + tr carb. mat., tr lst, buff, hd	
2105		aa	
2115		aa	
2125		aa	
	tr	tuff , wh, sft	
2135		aa	
2145		aa	
	tr	calcite,	
		incr. amount of glauc.	
2155	95	Sh, aa	
	5	Glauc., sm glauconized fossil frags	
	tr	aa	
2165		aa	
2175	100	Sh, red-brn, lt-med gy, grn-gy	
	tr	aa + tuff	
2185		aa	
	tr	slts, wh-lt brwn-yelsh, ld, sli calc.	No show
2195		aa	No silt in deslter
2200		aa	
2205	100	Shale aa, rd-brn dominating	
	tr	aa	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: Norway | AREA: North Sea | FIELD: Wildcat

WELL NO.: 15/12-2

COORDINATES: 58 ° 08 ' 31,05 N ; 01 ° 55 ' 47,27"

K.B.E.: 25 meters | COMPANY: Statoil/Esso

HOLE SIZE: 12 1/4" | GEOLOGIST: SGL/JP/ÅS | DATE: 3 & 4 Feb. 1976

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2215		aa	
2220		aa	
2225		aa	Drlg break at 2229 m. Top
2235	20	Chalk, wh, med hd-sft	Chalk?
	80	Shales, red-brn & grn-gy	Cavings
	tr	aa	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08 ' 31,05" N ; 01° 55 ' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	SGL/ÅS	DATE:	4.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2238	35	Chlk,aa.	No show
	65	Sh, aa.	
	tr	aa.	
2241	50	Chlk,aa.	
	50	Sh, aa.	
	tr	Aa, and tr chert	
2245		Aa.	
2248	20	Chlk, aa.	
	80	Sh, aa.	
2251	10	Chlk, aa.	
	90	Sh, aa.	
2255	35	Chlk, aa.	
	65	Sh, aa.	
2258		Aa.	
2261		Aa.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: AsH/SH/BK | DATE: 7.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2264	10	Chalk, wh, mod hd.	
	90	Shale, grn - gy, re - brn, mod hd, sl fissil non calc, (shale comes from upper hole).	
	tr	Pyrite	
	tr	Limestone, clear wh, xln.	
2270	20	Chalk aa.	
	80	Shale as caving aa.	
2273	30	Chalk aa.	
	60	Shale aa (caving).	
2276	30	Chalk aa.	
	70	Shale aa.	
2279		aa.	
2282	50	Chalk aa.	
	50	Shale, caving aa.	
2285	60	Chalk aa.	
2288		Aa, tr. of fossil frags.	
2291	70	Chalk aa.	
	30	Shale aa, caving.	
2294	70	Chalk aa.	
2297	60	Chalk aa.	
	40	Shale aa.	
	tr	Limestone, lt brn - lt rd, xln, hd.	
	tr	Fossil, fragments, (syl).	
2300	50	Chalk aa.	
	50	Shale, grn - gy, red - brn, aa (caving).	
	tr	Limestone, lt, brn p lt red; ls, clear wh, xln.	
	tr	Fossils (sylinders), glauconite.	

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Postboks 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	AH/SH/BK	DATE:	7.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2303	40	Chalk, aa.	
	60	Sh, lt gy - dk grn, brn - red brn, aa.	
	tr	Sd grns; Ls, clear - lt red aa.	
2306	50	Chalk aa.	
	50	Shale, aa.	
	tr	Chert, white, angular; Ls, aa.	
2309		Aa.	
2312		Aa	
2315	70	Chalk, aa.	
	30	Shale, aa.	
		Tr Pyrite, tr glauc, tr fossil fragm.(bellemnites).	
2318	70	Chalk aa.	
	30	Shale aa.	
		Tr ls, lt rd, clear, tr glauc.	
2321	80	Chalk aa.	
	20	Shale, aa (gr. grn and brn - rd).	
		Tr glauc.	
2324	80	Chalk aa.	
	20	Shale, aa.	
	tr	Ls, clear to red - brn, hd, xln.	
2327	90	Chalk, white to buff, soft to firm	
	10	Shale, aa.	
	tr	Ls, aa, chert, white.	
2330	90	Chalk, aa.	
	10	Shale, gy - grn, gy, fissil, non calc.	
	tr	Fossil fragm. (bellemnites).	
2333	90	Chalk, aa.	
	10	Shale, aa.	
		Tr of dol.,hd, brn.	
2336	90	Chalk, aa.	
	10	Shale, aa.	
		Tr glauc?, tr ls, lt rd.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	AsH/SH/BK	DATE:	7.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2339	90	Chalk, wh - buff, sft - md hd.	
	10	Shale, brn - gy, fissil, non calc, md hd,	
		+ shale, rd - brn, sl. fissil, non calc.	
2342	80	Chalk, aa.	
	20	Shale, aa.	
	tr	Glauc, ls, aa.	
2345	80	Chalk, aa.	
	20	Shale, aa, tr glauc.	
2348	80	Chalk, aa.	
	20	Shale, aa.	
		Tr glauc, tr ls, clear - rd - brn, hd.	
2351	90	Chalk, aa.	
	10	Shale, aa.	
		Tr glauc, pyr, ls, tr bellemnites.	
2354	90	Chalk, aa.	
	10	Shale, aa.	
2357	90	Chalk, aa.	
	10	Shale, aa, tr glauc.	
2360		Aa.	
2361		Aa (Bottoms up).	
2363	40	Chalk, aa.	
	60	Shale, aa (cavings, increased after the trip).	
2366	60	Chalk, aa.	
	40	Shale, aa.	
	tr	Ls, wh to buff, lt brn, hd, xln.	
2369		Aa.	
2372	70	Chalk, aa.	
	30	Sh, aa.	
	tr	Chert, wh, ang, Tr Glauc.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08'31.05"N ; 01° 55'47.27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	AsH/SH/BK	DATE:	7.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2375	60	Chert, aa.	
	30	Sh, grn - gy, rd - brn aa.	
	10	Sh, dk gy - dk brn, slty, soft, non calc.	
	tr	Ls, aa; Glauc aa.	

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Postboks 300 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08 '31,05"N ; 01° 55'47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	BK/AaH/SH	DATE:	8.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2378	80	Chalk, wh to buff, mod hd aa.	
	20	Sh, gy - grn, red - brn, aa, sh, dk gy-blk aa.	
	tr	Ls, aa, Tr Pyrite, Tr Beleminitella.	
2381		Aa.	
2384	80	Chalk, aa.	
	20	Sh, gy - grn, red brn, dk gy aa.	
	tr	Glauc, Tr Pyrite, Tr Ammonites.	
	Tr	Dolo, gy, hd, xln, Tr chert, gy.	
2387	80	Chalk, aa.	
	15	Sh, gy - grn, red. brn aa.	
	5	Sh, dk gy - blk, mod. hd, slty, non calc.	
		Tr ls, aa.	
2390		Aa.	
		Tr Glauc; Tr ls, lt brn, xln, hd.	
		Tr Dol, aa.	
2393		Aa.	
2396		Aa.	
2399		Aa.	
2402		Aa.	
2405		Aa.	
2408		Aa, tr of dirty, gy, chalk.	
		Tr, of lt gy, slty shale, else aa.	
2411		Chalk, wh - buff, inc, buff - pink and hard chalk.	
		+ Shale aa, tr dk brn, calc, shale.	
		Tr of v hd. grn - brn ls.	
2414	80	Chalk aa, w/buff - pink chalk.	
	20	Shale, aa.	
	tr	Ls, hd, gr - brn, aa, ls, brn, sft.	
2417		Bcmg. more pink, chalk, else aa.	
		Tr glauc.	
		Tr dk brn, calc. shale, sft.	

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Den norske stats oljeselskap a.s
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WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: AsH/SH/BK | DATE: 8.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2420	80	Chalk, pink, wh - buff, hd.	
	20	Shale, dk gy, brn - rd, grn- gy, aa.	
	tr	Sand, fn grn, gy, sft - fri.	
	tr	Ls, gy, sft, ls, gy - brn, v hd, xln.	
	tr	Dk brn, calc. shale, sft, (marl)?	
2423		Aa.	
		Tr of chert.	
2426		Aa.	
2429		Aa.	
2432	80	Chalk aa.	
	15	Sh, dk gy, brn - rd, grn - gy, aa.	
	5	Marl, brn, gy, soft	
	tr	Ls, gy - brn aa, tr pyrite, tr glauc.	
	tr	Dol, yellow, hd.	
2435		Aa.	
2438	40	Chalk, aa.	
	45	Sh, aa.	
	10	Ls, gy - wh, vy hd, splintery.	
	5	Marl, aa.	
	tr	Glauc.	
2441		Aa.	
2444	60	Chalk, wh - buff, pink and gy, soft to hd.	
	30	Sh, gy - grn, red - brn, dk gy aa. The gy - grn shale dominates.	
	5	Marl, aa.	
	5	Ls, aa.	
2447		Aa.	
2350		Aa.	
2453		Aa.	
		+ Tr pyrite. Ammonite and foram (pyritized).	

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Den norske stats oljeselskap a.s
Postboks 2[illegible] 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B. E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	BK/AsH/SH	DATE:	9.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2456	50	Chalk, buff - pink and 2h, mod hd.	
	50	Shale, grn - gy, lt g - dk gy, rd - brn aa.	
	5	Marl, rd - dk brn, sft.	
	0-5	Ls, lt gy, hd, xln.	
	tr	Pyr, chert, glauc.	
2459		Aa.	
2462		Incr. limestone aa (ca 10%).	
		else aa.	
		Tr bellemnites.	
2465		Aa.	trip.
2468	80	Shale, lt gy - gn, mod hd - sft, sl fissile, slty, concalc use diamond bit.	
	- 90	Shale, gy - dk gy, mod hd, silty, non calc.	
	10	Chalk, wh - buff, mod hd.	
	tr	Limestone, brn - clear, v hd, xln.	
	tr	Bellemnites, pyr, (glauc).	
2471	90-95	Shale, aa, (50/50 dk gy/gn - gy).	
	5-10	Chalk, aa.	
2474	20	Chalk, aa.	
	80	Shale, gn - gy, dk gy, aa.	
	0- 5	Marl - calc shale, brn, sft, sl fissile.	
	tr	Ls, pyr, glauc aa.	
2477		Aa.	
	tr	Dol, lt gy, hd.	
2480	70	Sh, lt gy to gy - grn, soft to mod firm, vy slty in parts, (dominates) sh,	(Most of the shale might be
		gy, dk gy, brn, calc in parts.	cavings. The
	30	Chalk, aa.	fine-cutted
	tr	Marl aa, Ls aa.	chalk (diamond bit) might be
2483		Aa.	desolved in the mud)

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	AsH/SH	DATE:	10.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2486	50	Sh, aa.	
	40	Ch, wh - buff, pink, soft to mod. hd (aa).	
	10	Ls, wh - clear, hd, xln, splintery.	
	tr	Sltst, gy, ry soft; tr dol, gy - yellow gy, hd	
	tr	Pyrite.	
2489		Aa.	
2492	50	Chalk, aa.	
	40	Shale, ltgy - gn, dk gy, brn aa.	
	10	Ls, clear - gy, hd, xln.	
	tr	Silstone, lt gy, lse - fri.	Trip.
2495		Aa.	
2498	35	Chalk, wh - gy, pink, soft, grading	
		to gy, lt brn, soft marl, sd grns in chalk.	
	60	Sh, aa, sllghtly increase of gy - dk gy, slty	
		shale, content.	
	5	Ls, wh, xln, mod hd.	
	tr	Aa.	
2501		Aa.	
2504	90	Chalk, wh - gy, mod hd.	
	10	Sh aa.	
	tr	Sltst, gy, soft to hd.	
	tr	Sd, clear, vy fn, subrd tr pyrite.	
	tr	Microfossils.	
2507		Aa.	
2510	95	Chalk, wh - gy, pink, soft - hd,(incr.pink chalk).	
	5	Sh, aa.	
	tr	Sandgrains, clear, rnd, f - med grnd.	
	tr	Sltst, aa, tr ls, clear - gy, granular.	
2513	90	Chalk, wh - lt gy, sand - slt grns in chalk	
		seems to be more granular (limestone?), lt gy,	
		gran, ls.	
		else aa.	
2516	30	Chalk, aa.	
	60	Ls, clear - lt gy, hd, xln.	
	tr	Sd grains, tr glauc.	
	5	Shale, aa.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	RK/AsH/SH	DATE:	11.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2519	30	Chalk, wh -, sft - mod hd, aa.	
	60	Ls, lt gy - buff, xln, hd to soft aa.	sandgrains in ls.
	5	Shale, gn - gy, dk gy, aa.	
	tr	Sandgrains, glauc.	
2522		Aa, more pink - colored grns.	
2525	60	Ls, aa, soft to hd, wh - pink, w/qtz grns	
		and a few glauc. grns. Increased content of	
		the pink - colored ls.	Pink material
	30	Chalk, aa.	seems to be de-
	10	Shale, aa, partly vy slty.	solved in the
			mud (marl?,clay?)
2528		Aa.	
2531	70	Chalk + Ls aa.	
	20	Shale, gy - grn, dk gy	
	10	Siltstone to vy fn sand, clear, py	No show
		calcareous, vy glauconittic, soft, partly argill.	
2534	50	Silt to fn sand - aa, tr mica.	
	30	Chalk + Ls aa.	
	15	Shale, med gy - dk gy, partly calcareous.	
	5	Marl, lt gy , vy soft, sticky. occ.	Marl probly most-
		probly as matrix for the siltstone	ly dissolved by
	tr	Pyrite.	the mud.
2537		Aa, sl. incr. silt/sand.	No show
2540		Aa.	No show
2543	60	Sand/silt aa, v glauconitic.	No show
	30	Ls/chalk aa.	
	5	Shale aa.	
	5	Marl, lt gy, sft.	
2546	70	Marl, brn, sft, sticky, slty.	
	20	Silt/sand aa.	
	10	Ls/chalk aa and shale aa.	
2549	30	Marl, brn, aa, slty.	
	60	Silt-sandst, aa, glauc.	
	10	Ls, chalk, shale aa.	

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Den norske stats oljeselskap a.s
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WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: RK/AsH/SH | DATE: 11.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2552	40	Siltstone, lt gy, sft, glauc, calc.	probb.
	40	Siltstone/marl, sft, brn - lt re, calc.	much of the fine
	20	ls/chalk aa.	marl is dissolued
	tr	Shale, dk gy, gn - gy, aa.	in the mud.
2555		Aa.	
2558	80	Siltstone, gy, arg, calc - marl, sft, glauc.	
	20	Shale + ls + chalk aa.	
2561	70	Sltst + marl aa.	No show
	30	Sh + ls + chalk aa.	
	tr	Shale, blk, flaky, non calc.	
2564		Aa.	
2567	80	Sltst + marl aa, mostly gy, some lt brn - red,	
		less argill.	
	20	Sh + ls + chalk aa.	
2570		Aa.	
2573		Aa.	No show
2576		Aa + tr of red - brn, sft marl.	
	tr	Shale/clyst, blk, firm.	
	tr	Sd, clear, vy fn - fn, subrd	
2579		Aa.	NS
2582		Aa.	

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Postboks 2.N 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08 ' 31.03'N ; 01° 55 '47.27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: JH & FRAa | DATE: 12-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2585	50	Sltst, lt gy, soft, calc glauc.	No show
	20	Chalk, wh-buff, soft	
	30	Shale, lt gy - dk gy, brn-red, firm	
	Tr.	Sd, v.fn. clear subrounded	
2588	80	Sltst, lt gy, clear, red-brn, soft, calc. glauc. micaceous	
	10	Shale aa.	
	10	Clay washed away	
	Tr.	Chalk aa.	
	Tr.	Sand v. fn.	
2591	70	Sltst. aa.	
	20	Shale aa.	
	10	Clay washed away	
	Tr.	Sand v.fn.	
2594	90	Sltst. wh-lt. gy & dk gy-brn-red calc. soft glauc, micac.	
	10	Shale, lt gy-grn l.red. firm, fissile	
	Tr.	Chalk, wh. soft	
2597	90	Sltst. aa.	
	10	Sh. aa.	
	Tr.	Ch. aa	

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Postboks 2011 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	IH & FRAa	DATE:	12-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2600	80	Sltst. aa.	
	20	Sh. aa.	
	Tr.	Ch. aa.	
2603	80	Sltst. aa.	
	20	Shale aa.	
	Tr.	Chalk aa.	

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Postboks 300 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58° 08' 31,05" N ; 01° 55' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: E.L,J.H,F.Aa. | DATE: 13-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2606	80	Sltst. clea - wh. -lt gy, - grn - red - brn.	
		Soft. micac. glauc. very calc.	
	20	Shale. lt gy - grn. firm. fissile, calc.	
	Tr.	chalk. wh. soft. (cavings)	
2609	90	Sltst. aa.	
	10	Shale aa.	
2612	100	Sltst. aa. (less red - brn. coloured sltst.).	
	Tr.	Shale lt gy - grn. firm, fissile, calc.	
2615	100	Sltst. aa.	
	Tr.	Shale aa.	
		VFG.	
2618	100	Sltst. A/A (≈Slty LS.) (grain LS) (Detrital)	
		VFG.	
2621	100	Sltst. A/A (≈Slty LS.) (grain LS) (Detrital)	
		Detrital	
2629	100	LS Grain - type V.F.G, silty, glauc.	
		wh - lt gray, tr pyritic	
2627	100	LS - A/A	
2630	100	LS A/A	
2633	100	LS A/A	
2636	100	LS A/A	
2642	100	LS A/A (Tr siltst)	

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Postboks 300, 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58 ° 08 '31,05" N ; 01 ° 55 '47,27 "

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: E.L,J.H,F.Aa | DATE: 13-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2645	100	LS, detrital, v.f.gr.,slty,glauc.	
	Tr.	wh - lt gy. pyrite.	
2648	100	LS, aa. less white. LT.gy. very silty	
2651	100	LS. aa.	
2654	100	LS a/a dolemitic in paits	
		Tr sh red - brownish, tr sh lt - dkgr a/a Tr pyr	
2658	100	LS A/A v. pyritic.	
		Tr. red Matl.	
2660	100	LS detrital VFG A/A	
		Silty becoming pale grn - wh due inc to abvnd. glauc. pyritic	
2664	100	LS - AA	c/o
2664	100	LS	
-10Min	100	LS A/A	
2666	60	MARL, Rd - BRN, Md SFT - Firm	
	40	LS, A/A, tr pyr.	
2669	70	MARL A/A	
	30	LS A/A	
2671	50	MARL A/A	
	50	LS A/A	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	E.L,I.H,F.Aa.	DATE:	14-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2675	40	MARL A/A	
	40	LS A/A	
	20	SHALE, lt - med gy. firm, fissile, calc.	
		Slty. glauc.	
2678	60	Shale a/a	
	30	LS a/a	
	10	Marl a/a	
2681	90	Shale a/a	
	10	LS a/a	
	Tr.	Marl a/a	
2884	50	Shale a/a more glauc.	
	50	Ls. wh. - lt gy. soft.	
	Tr.	Marl. a/a	
	Tr.	Sand. f - med grn. clear quartz	
	Tr.	Ls. tan. slty. firm.	
2687	50	Shale a/a	
	50	LS a/a	
	Tr.	Marl a/a	
	Tr.	Ls. tan a/a	
2690	60	Shale a/a	
	40	Ls a/a	
	Tr.	Quarts grn. clear. hd. subrounded. v.f - med.	
	Tr.	Sh. red - brn, fissile, firm, calc.	
	Tr.	Ls, yellow - tan, slty.	
	Tr.	Pyrite & mica.	

stc oil
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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08 '31,05"N ; 01 ° 55 ' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	E.L,I.H,F.Aa	DATE:	14-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2693	80	Shale a/a	
	20	Ls a/a	
	Tr.	Ls tan a/a	
	Tr.	Pyrite	
	Tr.	Quarts grn a/a	
	Tr.	red shale.	
2696	90	Shale a/a	
	10	Ls a/a	
	Tr.	Pyrite, red shale, Quartz grains, tan ls.	
2699	100	Shale, blk. slty, firm, fissile.	
	Tr.	Quarts grains. f. grn. clear.	
2702	100	Shale, brn, slty, Noncalc. (Hotshale)	
		Top Jurassic peaty.	MW to 11.8
2705-	100	Shale a/a (Good spls.)	4 - 5 GU.
2741		Abund. pyrite	
2756			
2759		Shale a/a, tr coal, tr pyr.	
2762		A/A tr pyr.	
2765		A/A tr pyr.	
2768		A/A tr pyr.	
2771		Sh A/A, becoming darker, nearly blk. tr pyr.	

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Postboks 300, 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY: NORWAY | AREA: NORTH SEA | FIELD: WILDCAT

WELL NO.: 15/12-2

COORDINATES: 58 ° 08 '31,05" N ; 01 ° 55 ' 47,27"

K.B.E.: 25 meters | COMPANY: STATOIL/ESSO

HOLE SIZE: 12 1/4 | GEOLOGIST: E.L,F.Aa,I.H. | DATE: 15-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2774	100	Shale a/a	
	Tr.	Pyrite	
2777	100	Shale a/a	
	Tr.	Pyrite	
2780	100	Shale a/a	
	Tr.	Pyrite	
2783	100	Sh. a/a	
	Tr.	Pyr.	
2786	100	Shale a/a, sli calc, tr pyr. tr coal.	
2789	100	Shale a/a	
		Tr sand, tr.pyr, tr lignite	
2792	100	Shale a/a	
		Tr sand. pyr & lignite	
2795	100	Shale a/a	
		Same traces	
2796	100	Shale a/a	
		Same traces, less pyr.	
2798	100	Shale a/a, SFT to med firm, sh calc, tr pyr,	
		tr lignite	
2801		Shale a/a, clk gry - brown	
2807			
2807	90	Shale - organic A/A w/somc mineralized matl	ROP ~2 MPH
	10	(or less) sd - loose Qtz F - MG.	
2810	90	Sh A/A	ROP ~ 2 MPH
	10	Sd - loose Qtz F - MG.	

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Postboks 300 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58 ° 08 '31,05"N ; 01 ° 55 ' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	E.L,I.H,F.Aa.	DATE:	16-2-76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2810-		I-M Drlg brek	3.4 MPH
2811		CKD FOR FLOW ~ 5 min.	
	80	Sd Qtz F - Mb Loose	
		V. rnd grains No Show	No chg in R mud
	20	Sh A/A	2.5 - 3.4 MPH
2813	80	Sd a/a	
	20	Sh a/a	2.3 - 2.5 MPH
2816	100	Sd a/a v.f - med grn.	

stc: oil
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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58 ° 08 ' 31,05 ' N ; 01 ° 55 ' 47,27 "				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	E.L,J.H,F.Aa.	DATE:	16.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2819	100	Sand, clear, v.f - med grn. v.w.rounded	
	Tr.	Pyrite	
2822	100	Sand aa.	
	Tr.	Pyrite	
2825	100	Sand aa.	No show
	Tr.	Pyrite	
		Greater shale - content in the sample.	
		Brn sh & lt gy - grn shale. Probably cavings.	
2823-2835		Core # 1	
		Sand, well consolidated, f - med, grn, clear quartz	
		Tr, pyr. Shalestringers (ca. 1 cm thick),gy sh.	
		Sd, sltly calc, fairly sorted, w.rounded.	
		Tight, thin lignite streaks.	No show
2837	100	Sd, cl, mainly, wh, F - Md grn, ang -wrnd.	
		Fairly sorted.	No show
2840	100	Sd aa, weak tr dol ls.	
2843	100	Sd aa.	
2846	100	Sd aa, tr pyr, tr lignite	
2849	100	Sd aa.	
2852	100	Sd aa.	
2855	100	Sd aa.	
	Tr.	Calc. mat, Ls.	
2858	100	Sd aa.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58 ° 08 '31,05" N ; 01 ° 55 '47,27 "				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	E.L,J.H,F.Aa.	DATE:	18.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2861	100	Sandst, f - med, grn, clear quartz. w.rounded, fairly sorted.	No show
	Tr.	Pyr, lignite, ls (detrital).	
2864	100	Sd aa.	
2867	100	Sd aa.	
2870	80	Sd aa.	wash out,tripping
	20	Cavings (sh etc.). Bad sample.	
2873	70	Sd aa.	
	20	Sltstst, wh, calc, pyritic, hd,(what causes the low drill - rate).	
	10	Sh, red, firm, fissile (probably cavings).	
	Tr.	Pyr.	
2874	70	Sltst, wh - lt gy, cal, silicacemented, highly pyritic, hd.	No show
	20	Sh, red - brn, hd, pyritic (lighly).	
	10	Sh aa.	
	Tr.	Pyr.	
2875	80	Sltst, aa.	
	10	Sh aa.	
	10	Sd aa.	
	Tr.	Pyr.	
2876	60	Sd loose F - C, qtz rnded.	
	40	Siltst wh aa pyritic, p = 2,52	
2879	80	Sltst aa, very, very pyritic	
	20	Sd aa.	
2882	90	Sltst aa. super pyrite	
	10	Sd aa.	

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WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,05" N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	EL,JH,FAa, & SH,RK,SGL,ÅS	DATE:	19.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2885	50	Silst, wh - lt gry, sli calc,	
	40	Sk, clr, F - Med gr,	
	10	Sh, cavings,	
		Strong tr. pyrite.	
2888	60	Sltst,aa. strongly pyritic,	
	40	Sd aa.	
2890	80	Sltst aa. wh - ltgy - red (oxydised) super-pyritic	
	20	Sd aa.	
2891	60	Sltst aa.	
	20	Sh, ltgy - grn, sft	
	20	Sd, aa.	
	tr	pyrite	
2894	70	Sltst, aa. incr red.	
	20	Sd, aa.	
	10	Sh, aa.	
	tr	pyrite	
	tr	dol, buff & yellow, sft	
2897	50	Sltst, aa.	
	40	Sh, aa.	
	10	Sd, aa.	
	tr	pyrite, tr dol ca, tr anh.	
2900	60	Sh aa.	
	30	Sltst aa.	
	10	Sd, aa.	
	tr	aa. + tr anhydrite, wh, sft, amorph.	
2903	40	Sh, aa.	
	60	Sd, fn - crs, clear, wh, lt red - brn, sub ang-	
		sub rd to Sltst wh, hd, silica cemented,	
	Tr	Pyrite, anhydrite, dolomite aa.	
2906		AA	

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slc oil
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Postboks 4001 Stavanger

WELLSITE SAMPLE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2				
COORDINATES:	58° 08' 31,09'N ; 01° 55' 47,27"				
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	RK,SH,SGL,ÅS	DATE:	20.2.76

DEPTH	LITH. %	LITHOLOGIC DESCRIPTION	Shows & Remarks
2909		aa.	
2912		aa + tr sh, red - brn, firm - sft, sli calc.	
2915		aa.	
2918	60	Sh, dk gy, sli slty, sli calc. firm, fiss.	
	10	Sh, lt grn aa.	
	10	Sd, clr aa.	
	20	Slts aa.	
	tr	Sd, red aa.	
	tr	Anhyd, pyr, red sh.	
2921	50	Sh, dk gy aa.	
	10	Sh, lt grn aa.	
	20	Sd, clr, aa.	
	20	Slts, aa.	
	tr	Sd, red aa.	
	tr	Anhyd (strong), pyr, red sh	
2924		aa. very strong tr anhyd.	

CONVENTIONAL CORE DESCRIPTION

FIELD _____ | WELL NO. 15/12-2 | AREA NORTH SEA, NORWAY

CORE NO. 1 | INTERVAL from 2823 to 2835,4 | CORED 12,4 | REC 12,4 | 100 %

FORM. DOGGER | GEOLOGIST K. LIEN, A. SPINNANGR | DATE 23.2.76

DEPTH	LITHOLOGY / GRAIN SIZE (mu si vf f m c vc)	SHOWS STAIN S	STAIN F	STAIN G	CUT P	CUT F	CUT G	FLUOR P	FLUOR F	FLUOR G	Φ P	Φ F	Φ G	LITHOLOGIC DESCRIPTION	MISC.
2823														Sandstone, light grey, clear quartz grains, fine grained, well sorted and well rounded, poorly cemented, non calcareous.	PYRITE, CARBONACEOUS MATERIAL NO SHOW
2824														Sandstone, medium grey, silty, bioturbated.	
2825															CHERT LAYER
2826														Sandstone, medium grey, clear quartz grains, medium to fine grained, well sorted and well rounded, poorly cemented, non - calcareous. Bioturbated with frequent burrows. Partly tectonically disturbed.	
2827															
2828															

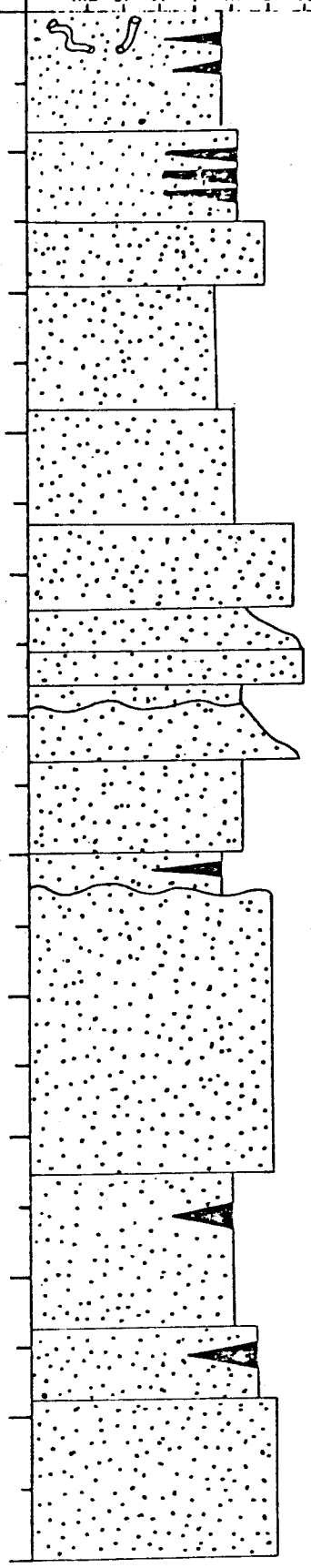
→ increasing mu si vf f m c vc

CONVENTIONAL CORE DESCRIPTION

FIELD _____ WELL NO. 15/12-2 AREA NORTH SEA, NORWAY

CORE NO. 1 INTERVAL from 2823 to 2835,4 CORED 12,4 REC 12,4 100 %

FORM. DOGGER GEOLOGIST K. LIEN, Å. SPINNANGR DATE 23.2.76

DEPTH	LITHOLOGY / GRAIN SIZE (mu si vf f m c vc)	SHOWS STAIN S	STAIN F	STAIN G	CUT P	CUT F	CUT G	FLUOR P	FLUOR F	FLUOR G	Φ P	Φ F	Φ G	LITHOLOGIC DESCRIPTION	MISC.
2828														Sandstone, a.a, frequent hard streaks, silica cemented	
2829															
2830															
2831															
2832															
2833															

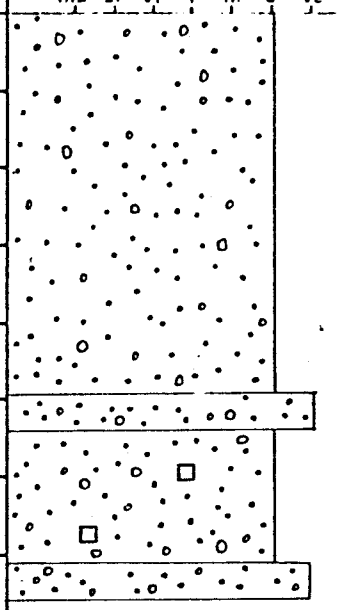
increasing
mu si vf f m c vc

CONVENTIONAL CORE DESCRIPTION

FIELD _____ | WELL NO. 15/12-2 | AREA NORTH SEA, NORWAY

CORE NO. 1 | INTERVAL from 2823 to 2835,4 | CORED 12,4 | REC 12,4 | 100 %

FORM. DOGGER | GEOLOGIST K. LIEN, Å. SPINNANGR | DATE 23.2.76

DEPTH	LITHOLOGY / GRAIN SIZE (mu si vf f m c vc)	SHOWS STAIN S	STAIN F	STAIN G	CUT P	CUT F	CUT G	FLUOR P	FLUOR F	FLUOR G	Φ P	Φ F	Φ G	LITHOLOGIC DESCRIPTION	MISC.
														Sandstone, a.a, scattered granules, 3-4 mm.	
2834															
2835															

increasing
mu si vf f m c vc

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SIDEWALL CORE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2	RUN NO.:	2	INTERVAL:	1885 m - 2890 m, rec. 28 of 30
COORDINATES:	58 ° 08 ' 31.05" N ;	01 ° 55 ' 47.27"			
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	SH,RK,SGL,ÅS	DATE:	21.2.76

DEPTH	REC.	LITHOLOGIC DESCRIPTION	POROSITY	SHOWS
2890	1/4	Anhyd, gy - wh, sucrosic.		
2844	1/4	SSt, ltgy - grn, friable,	Fair	No show
2766	1/2	Sh, blk, fissile, micace.		
2755	1/2	Sh, aa.		
2615	1/2	Sltst, ltgy - grn, calc, mod hd.		
2585	1/4	Marl, lt gy, slty.		
2555	1/3	Marl, lt gy.		
2495	1/4	Chalk, wh - gy, argill, firm.		
2463	L			
2430	1/4	Chalk, wh - gy, argill, firm.		
2420	1/4	Chalk, gy, more argill than 2430, fissile.		
2390	1/3	Chalk, gy - wh, argill, fissile.		
2360	1/3	Chalk, gy - wh, argill.		
2290	1/4	Chalk, wh, firm.		
2275	1/3	Chalk, aa.		
2245	L			
2236	1/4	Chalk, aa.		
2232	1	Sh, med gy, firm, vy calc.		
2207	1	Sh, dk grn - gy, mod hd.		
2194	1	Sh, grn gy, firm.		
2174	1	Sh, gy, firm.		
2154	1	Sh, dk grn - gy, firm.		
2125	1	Sh, dk gy, mod sft.		
2081	1/2	Sh, dk gy, mod hd, sltly calc.		
2061	1	Sh, dk grn - gy, firm, shell fragm.		
2052	1	Sh, aa.		
2010	1	Sh, aa.		
1972	1	Sh, aa.		
1932	1	Sh, aa.		
1885	1	Sh, dk brn, firm.		

Statoil
Den norske stats oljeselskap a.s

SIDEWALL CORE DESCRIPTION

COUNTRY:	NORWAY	AREA:	NORTH SEA	FIELD:	WILDCAT
WELL NO.:	15/12-2	RUN NO.:	1	INTERVAL:	1885 m - 2890 m, rec. 23 of 30
COORDINATES:	58° 08' 31,05'N ;	01° 55' 47,27"			
K.B.E.:	25 meters	COMPANY:	STATOIL/ESSO		
HOLE SIZE:	12 1/4	GEOLOGIST:	SH,RK,SGL,ÅS.	DATE:	21.2.76

DEPTH	REC.	LITHOLOGIC DESCRIPTION	POROSITY	SHOWS
2922	0			
2913	0			
2902	1/4	Anhydrite, gryish white, sucrosic		
2922	0			
2913	1	Clay, silty, extremely anhydritic, gray-white		
2902	0			
2884	3/4	Cly, lt gy - grn, slty, sft		
2880	3/4	Cly, lt gy - grn, slty, anhydritic, sft		
2876	3/4	Cly, lt gy - grn, slty.		
2869	1/4	Cly, lt gy - grn, slty.		
2859	1/4	SS, lt gy - grnish, fn, tr pyrite, friable fair		No show
2844	LB			
2822	1/2	SS, vy fn - fn, gy - grn, friable, tr pyrite fair		No show
2813	1/2	Sh, blk, fissile tr glauconite		
2789	1/4	Sh, blk, micac., fissile		
2755	0			
2735	3/4	Sh, blk, fissile, smell of carbide		
2705	1	Sh, blk, fissile, plant remains		
2701	1/4	Marl, gryish wh, sft		
2695	1/4	Marl, gryish wh, sft		
2671	1	Marl, red brn, sft		
2663	1/2	Marl, gy-grn, vy slty, sft		
2651	1/2	Sltst, gy - grn, vy calc, sft		
2645	1/2	Sltst, lt gy-grn, calc, mod hd		
2555	MF			
2541		Marl, red - brn, slty, mod hd		
2530	1/2	Sltst, grnish gy, extemely glauconittic		
2526	1/4	Sltst, lt brn,		
2343	1/4	Chalk, white, argill, mod hd		
2335	1/5	Chalk, wh. argill, mod hd		

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STATEX A/S LABORATORY

FINAL REPORT

Company: Statoil/ Esso Exploration and Prod. Date: 23. 2. 76.

Well: 15/12 - 2 Core: No. 1

Field: State: Norway

DEPTH ~~FEET~~ Meter.	PERMEABILITY MILLIDARCY KA	KL	HELIUM POROSITY %	SATURATION POROSITY %	PORE SATURATION SO	STW	GRAIN DENS.	FORMATION DESCRIPTION
2823	28	23	25.0					
2824	12	10	23.1				2.68	
2825	158	142	19.6					
2826	30	25	30.2					
2827	368	338	29.9				2.63	
2828	154	139	29.9					
2829	661	631	32.5					
2830	249	229	27.9				2.66	
2831	1810	1750	28.6					
2832	355	325	25.6					
2833	1578	1528	33.0				2.65	
2834	1886	1826	32.4					
2835	1117	1067	31.1				2.69	

Nr 1

WELLFILE

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STATER A/S LABORATORY

FINAL REPORT

Company Statoil/ Esso Exploration and Prod. Date 23. 2. 76.

Well 15/12 - 2 Core No. 1

Field State Norway

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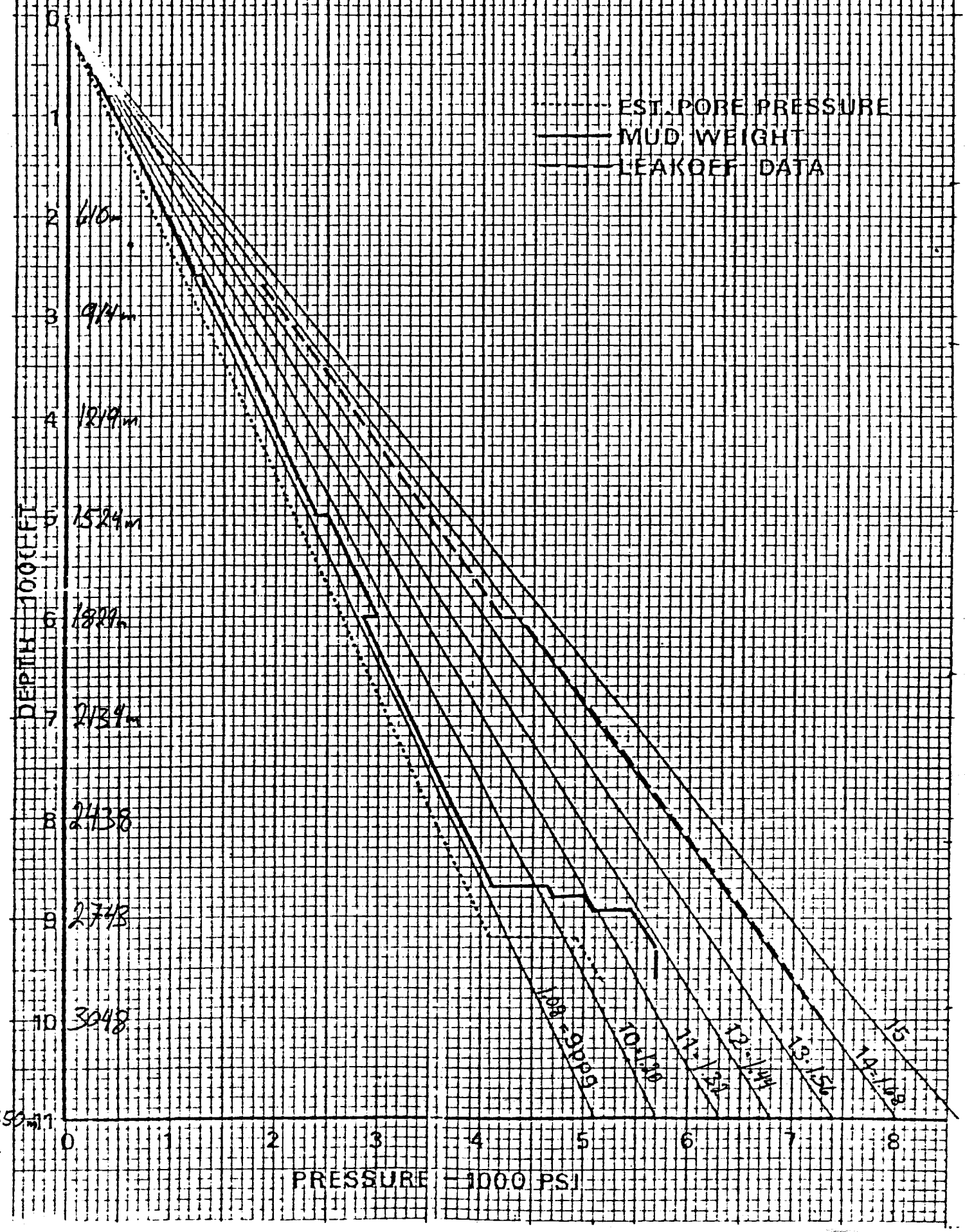
2832	355	325	25.6					
2833	1578	1528	33.0				2.65	
2834	1886	1826	32.4					
2835	1117	1067	31.1				2.69	
								$\bar{K}_{aritm.} = 618$ md
								$\bar{K}_{geom} = 241$ md

WELLFILE

PRESSURE PROFILE
NORWEGIAN NORTH SEA
WELL 15/12-2



WELLFILE

STATOIL/ESSO GROUP

WELLBORE SCHEMATIC

WELL 15/12-2

RKB-Sea level: 24.99 mtr.(82 ft)
Water Depth : 85.95 mtr.(282 ft)
RKB-Mudline :110.94 mtr.(364 ft)

Csng Cut 4.57mtr(15 ft) below Sea floor

Sea Floor Clear

Mud line - 110.94 mtr (364 ft) RKB
30" open hole to 145.38 mtr (477 ft)
30" Csng (x-52 310#/ft) Set at 145.38 mtr (477 ft) and cemented with 650 Sx Class "G" plus 1% $CaCl_2$ (15.8#/gal) with returns to the sea floor.

Plug #4 - 152.7 - 201.16 mtr (48.47 mtr) [501-660 ft (159 ft)] 150 Sx Class "G" plus 2% $CaCl_2$. Tagged plug.

26" open hole to 370.33 mtr (1215 ft)
20" Csng (x-52 94#/ft) set at 355.7 mtr (1167 ft) RKB and cemented with 1200 Sx Class "G" plus 8% Gel (13.8#/gal) followed by 300 Sx Class "G" neat (15.8#/gal) with returns to the sea floor.

Plug #3 - 292.6 - 384.04 mtr (91.45 mtr) [960-1260ft (300 ft)] perforated 13 3/8" Csng from 350.5 - 352 mtr (1150 - 1155 ft) with 20 shots squeezed 20"x13 3/8" Csng annulus with 265 Sx Class "G" plus 2% $CaCl_2$. Calculate cement in annulus from 350-441.96 mtr (1150-1450 ft) Cement in hole from 292.6 -384 mtr (960-1260 ft) Plug pressure tested to 1000 psi.

17½" open hole to 1837.33 mtr (6028 ft)
13 3/8" Csng (J-55 68#/ft) Set at 1813.56 mtr (5950 ft) and cemented with 1000 Sx Class "G" plus 8% gel (13.9#/gal) followed by 300 Sx Class "G" neat (15.6#/gal)
Top of cement from CBL at 1235.9 mtr (4055 ft)

Plug #2 - 1743.45 - 1856.84 mtr (113 mtr) [5720-6092 ft (372 ft)] 400 Sx Class "G" neat
Tagged and pressure tested to 2000 psi.

All Depths Listed refer to Ross Rig RKB.

Plug #1 - 2724.91-2895.6 mtr (107.69 mtr [8940-9500 ft (560 ft)] . 400 Sx Class "G" neat plus .07 gal/sk D-81 retarder.

12 1/4" hole
TD:2923.94 mtr.
(9583 ft)

E-32P

statoil / ESSO

15/12-2

COMPLETION LOG

Scale 1:1000

COORDINATES: 56°29'29.5" N 02°25'29.5" E

LOCATION: Block 15/12 Norwegian Sector, North Sea

DATE SPUD: 19.10.1976

DATE TD: 12.12.1976

DATE RIG RELEASED: 12.12.1976

RIG: Sedco 135 F

RT ELEVATION: 25.0 m

WATER DEPTH: 70.0 m

TD: 3660 m

DRILLER: 3660 m

LOGGER: 3660 m

CASING: 20" 1.5 m, 13 3/8" 1.5 m, 9 5/8" 1.5 m

CORE DIA: 5 inch, 5 inch

CORE NO. 1 inch, 2 inch

1 - 1.5 m

2 - 1.5 m

3 - 1.5 m

4 - 1.5 m

5 - 1.5 m

6 - 1.5 m

7 - 1.5 m

8 - 1.5 m

9 - 1.5 m

10 - 1.5 m