WELL NO: 30/7-2

NORSK HYDRO a.s

PETROLEUM DIVISION

CORE REPORT

CORE NO'S 1 (SHEET 1)

AREA: NORWEGIAN NORTH SEA
WELL RKB: 22·9 m
INTERVAL: 1753m - 1765,2m CUT: 12,25 RECOVERY: 94·4% (11·5 m)
SCALE: 1:50 (1cm = 0·5m)
GEOLOGIST: FELLOWES LEIVESTAD DATE: 27·9·75

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS (m) 1753·0	LITHOLOGICAL DESCRIPTIONS	SHOWS
				Intbd Sst, mic, gy, f, ang, m-crs, subrdd, fm, poor srt, abd Mic + Sh lt gy, fm, subfiss, wxy	No oil stain. Scat strong yel flu on crs grn, no vis cut.
			1753·6	Sh a/a grdg to Sst mic a/a.	No flu from arg material
1754			1754·1	Sst lt gy f ang m-crs ang-sub rdd, hd, abd Musc, scaft basic minerals: olivine, horneblende: poorly srt.	Patchy oil stain in crs grn, fair yel flu, no vis cut strong yel flu cut.
1755			1755·0	Sst dk gy abd arg material, abd Musc, scat Ligh: (rm) (srt).	a/a
			1755·3	Sd unconsol, lt gy, clr Qtz, m, subrdd, occ f, sub ang, occ (fm) scat Musc (srt.)	a/a
1756					
1757			1757·5	a/a, m-crs, more rdd.	Patchy oil stain, pale wh-yel flu, no vis cut, instant streaming strong pale yell flu cut.
1758			1758·4	Sd, patchy brn (oil stain) f-m subrdd, scat Musc	Patch oil stain, strong yel flu, inst streaming dk brn cut, yel flu cut.
1759			1758·9	Sltst mic dk gy rr m-crs Qtz (hd), fri abd	
				Musc abd arg material and:	No flu from arg material
				Sd brn f-m subang subrdd rr scat Musc	Shows on Sd above.
1760			1760·0	Sd unconsol brn f-m, subang-subrdd, abd dk minerals, scat Musc, moderately srt.	Patchy hearily oil stain bright yel-wh flu, inst streaming dk brn vis cut, wh flu cut.
			1760·75	Sst dk gy arg (fm) fri abd Musc + Biot (srt))	Patchy stain in crs grn, a/a
1761			1761·0	Sd, unconsol a/a	Oil saturated, a/a
			1761·75	Sd unconsol lt brn, m, subrdd, occ f, subang, rr crs-crs, rdd, clean, srt.	Oil sat strong strong light oil odour, strong bright yel flu inst streaming brn vis cut, strong bright yel flu cut.
1762					
1763					

WELL NO: 30/7-2

NORSK HYDRO a.s

PETROLEUM DIVISION

CORE REPORT

CORE NO'S 1 (SHEET 2)

AREA: CONTINUED FROM SHEET 1
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1: 50 (1cm = 0,5m)
GEOLOGIST: DATE:

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS (m)	LITHOLOGICAL DESCRIPTIONS	SHOWS
1764			1764	Sd, v uncons, a.a.	A.a.
				NO RECOVERY	
1765			1765·2		

WELL NO: 30 / 7-2

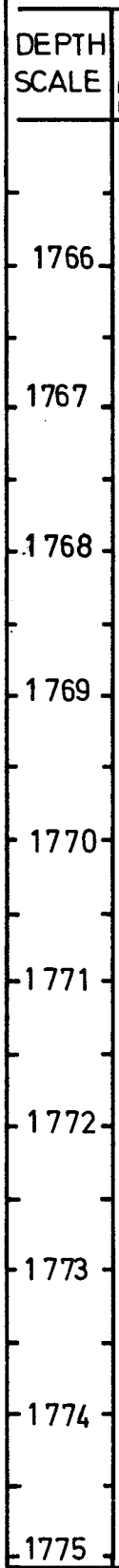
NORSK HYDRO a.s

PETROLEUM DIVISION

CORE REPORT

CORE NO'S 2 (SHEET 1)

AREA: NORWEGIAN NORTH SEA
WELL RKB: 22·9 m
INTERVAL: 1765·2 – 1775 m CUT: 1765·2 - 1780 m (15·0m) RECOVERY: 100%
SCALE: 1:50 (1cm = 0,5 m)
GEOLOGIST: FELLOWES LEIVESTAD DATE: 28.9.75.



DEPTHS (m)	LITHOLOGICAL DESCRIPTIONS	SHOWS
1765·2	Sd, unconsol, lt brn (oil stain), mostly m, subrnd tr, Musc, mod - poor srtd.	Very strong lt oil odour heavily oil stain, bright yel - wht flu, instant streaming vis cut dk brn yel - wht flu cut.
1769·5	Sh dk gy firm - hd, subfis - fis abn Musc, tr Biot, tr Lign, and mica Sltst, dk gy firm occ m - crs Qtz, abn Musc abn arg mat.	No shows
1771·0	Sd, unconsol, lt brn, (oil stain), mostly m, occ crs, subrnd, arg at top and base, w srtd.	As in Sd above.
1772·0	Mica Sltst, dk gy firm occ m - crs abn Musc, tr Biot, occ subtis	No shows
1772·5	Sd unconsol, dk brn (oil saturated) rare scat Musc increasing at base, mod - w srtd poor at base.	As in Sd above.

WELL NO:
30/7 - 2

NORSK HYDRO a.s

PETROLEUM DIVISION

CORE REPORT

CORE NO'S
2
(SHEET 2)

AREA: CONTINUED FROM SHEET 1
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: DATE:

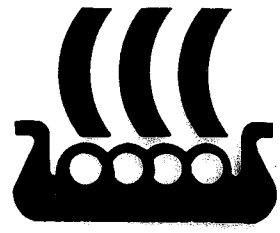
DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS (m)	LITHOLOGICAL DESCRIPTIONS	SHOWS
1776				Sd, a.a.	a.a.
			1776·5	Mica Sltst a.a.	No shows
1777		M M M M	1777.0		
				Sd, unconsol lt brn(oil saturated) mostly m-crs scat Musc poor-mod srtd.	As in Sd above
1778					
1779					
1780			1780·2		

WELL NO: 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 3 SHEET ※ 1

AREA: Norwegian North Sea
WELL RKB: 22,9 m
INTERVAL: 1780,2m - 1792,4m CUT: 12,2m RECOVERY: 100%
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: FELLOWES LEIVESTAD RYDBERG DATE: 29.9.75



DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
			1780,2		
1781				Sd, uncons, clr qtz, dk yelsh brn (oil-stained), m grnd grdg into f, subrnd, fairly well srtd, tr musc, tr hd blk mineral. V sl increase in grainsize downwards.	Uniform, strong, whsh yel fluo yelding an instant streaming, stro yelsh wh fluo cut. Uni form heavy tan oil sta ning w/ amber vis cut. Saturated w/ oil. Fluo a/a but patchy.
1782					
1783			1782,6	Sd, mainly a/a but loc vf grnd and more mic.	Patchy, fair, whsh yel flu yelding an instant, strea ming, strong yelsh wh fluo cut.
			1783,15	Sd, uncons, clr qtz, olv gry, m grnd grdg into f w/ tr Slt, m-poorly srtd, v musco-vitic, tr hd blk min. V sl tr Sh, dk gry.	No fluo - no stain.
1784					
1785					No fluo - no stain.
1786			1786,0	Sd, a/a w/ tr biotite.	Patchy, fair, yel fluo yel-ding an instant, strong/fa yelsh wh fluo cut. No vis stain or vis cut. Only v locally sl tr of yel fluo.
1787			1786,8	Sd, uncons, clr qtz, dk yelsh brn (oil-stnd), m-f grnd, ang-subrnd, fairly well srtd, tr musc, tr hd blk min.	Patchy, fair, yel fluo yel-ding an instant, strong yelsh wh fluo cut. Patcl tan oil stn w/ pale straw vis cut
			1787,7	Sd, w/ tr of Slt as in intval 1783,15-1786,0m.	Only v locally patchy y fluo yelding an instant fair yelsh wh fluo cut. No vis cut or vis stain.
1788					
1789			1788,7	Sd, uncons, clr qtz, dk gelsh brn (oil-stained), m-f, loc vf grnd, subrnd-sub-ang, fairly well srtd, sl tr mica, sl tr dk hd min.	Uniform, strong, yel flu yelding an instant, stron wh/yelsh wh fluo cut. Uniform tan oil staining dk amber vis cut. Satu rated w/ oil.
1790					

WELL NO.
30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S
3
SHEET ※ 2

AREA: CONTINUED FROM SHEET ※1
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: DATE:

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
1791		M M M	1792,4	A/a	A/a
1792					

WELL NO.
30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S
4
SHEET * 1

AREA: Norwegian North Sea
WELL RKB: 22,9
INTERVAL: 1792,4-1802,5 CUT: 1792,4-1800,6 (8,2m) RECOVERY: 81,5 %
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: FELLOWES LEIVESTAD RYDBERG DATE: 30.9.75

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
			1792,4	Sd, uncons, dk yelsh brn (oil stained), m grnd loc grdg into f grnd, subang-subrnd, micaceous (muse), well srtd, tr hd blk min (hornblend?).	Uniform/patchy, strong, whsh yel fluo yelding an instant streaming wh/blsh wh cut fluo. Uniform/patcl tan oil staining w/ dk amber vis cut?
1793			1793,5	Sd, a/a but m gry. Poss v sl increase in grainsize.	No stain - no fluo.
			1793,8	Sd, as 1792,4-1793,5m but locally sl more fine grained.	Show as 1792,4-1793,5m
1794					
1795					Patchy, fair yel fluo yel-ding an instant wh cut fluo. Patchy tan oil stair w/ pale straw cut.
			1795,4	Sd, as 1793,5-1793,8m.	Only v sl tr of yel patch fluo.
1796					
			1796,6	Sd, as 1792,4-1793,5m.	Patchy, fair yel fluo yelding a instant wh cut fluo. Tan sto
			1796,8	Sd, as 1793,5-1793,8m.	No stain - no fluo.
1797					
			1797,75	Sd as 1793,5-1793,8m w/ laminae of Sh, dk gry, fiss, well ind, tr pyr.	No stain - no fluo.
1798			1798,0	Sd, as 1792,4-1793,5m.	Show as 1792,4-1793,5 bu straw vis cut.
			1798,25	Sd, as 1793,5-1793,8m interlaminated w/ Sh, dk gry, subfiss, m well ind, v slty, v mic	No stain - No fluo.
1799					
			1799,25	Sd, as 1793,5-1793,8m.	No stain - no fluo.
1800					
			1800,6		
1801		No Recovery			
1802					

WELL NO: 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 4
SHEET * 2

AREA: CONTINUED FROM SHEET 1
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: DATE:

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
1802		No Recovery	1802,5		

WELL NO 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 5
SHEET # 1

AREA: Norwegian North Sea
WELL RKB: 22,9 m
INTERVAL: 1802,5 - 1816,2 m. CUT: 1802,5-1814,1 (11,6m) RECOVERY: 84,4 %
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: FELLOWES, LEIVESTAD, RYDBERG DATE:

DEPTH SCALE	RECOVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
			1802,5	Interlaminated Sst, gry, f-vf grdg into Sltst, m hd, ang-subrnd, and Sh, gry-dk gry, smooth, mica, slty.	
1803			1803,4	Sh, clean, dk gry, smooth, mica.	
			1803,5	As 1802,5-1803,4 m.	
1804			1804,3	Sst, clr qtz, v frbl, f-vf, m srtd, sl arg, v poorly cons.	Patchy yel strong fluo yelding an instant streaming blsh wh cut fluo. Patchy stain uniform, yel, fair fluo. Uniform tan stain. Saturated.
1805			1804,9	Sd, clr qtz, dk yelsh brn (oil stained), f-m, rnd-subrnd, v srtd, (mic)	
			1805,2	Sst, clr qtz, dk yelsh brn (oil stained), f-m, rnd-subrnd, well sorted, sl mic, v poorly consolidated.	Uniform yel, fair fluo yelding an instant, strong streaming blsh wh cut fluo. Uniform tan oil staining. Amber-dk amber vis cut. Saturated.
1806					
1807			1807,0	Sd, uncons, clr qtz, dk yelsh brn (oil-stain), f-m, rnd-subang, well sorted, (mic).	Show a/a
1808					A/a
1809				A/a	A/a
1810					A/a
1811					A/a
1812				A/a	A/a

WELL NO. 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 5 SHEET # 2

AREA: CONTINUED FROM SHEET # 1.
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: DATE:

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
1813		M		A/a	A/a
					A/a
				A/a	A/a
1814		M M	1814,1	Tr Sh, dk grey, mic.	A/a
1815		No Recovery			
1816			1816,2		

WELL NO.: 30/7 - 2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 5 SHEET # 3

AREA: Norwegian North Sea
WELL RKB: 22.9 m
INTERVAL: 1814.1 – 1816.2 m CUT: 2.1 m RECOVERY: 100 %
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: Rydkeeng Kiler DATE: 1.10.75

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
			1814.1	Cly, gensh gy, sticky.	No fluo
1814.5			1814.6	Sd, uncons, clr, qtz, dk yish brn (oil stnd), m-f, w srtd, subang-subrnd, (mica)	Uniform fair/yel fluo, yielding an instant wh streaming cut fluo. Uniform oil stain. Lt and vis cut.
1815			1815.25		
			1815.4	Cly, A/a	No stain
1816			1816.2	Sd, A/a.	Show a/a
1817					

Remarks:
When coring co.no. 6 the unrecovered part of co.no 5 was picked up in the core-barrel.
The recovery of the whole core no 5 is thus 100%.

WELL NO. 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 6 SHEET # 1

AREA: Norwegian North Sea.
WELL RKB: 22.9 m
INTERVAL: 1819 - 1821.7 m CUT: 2.7 m RECOVERY: 100%
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: Rydberg Kihle DATE: 1.10.75

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
			1819.1	Sd, uncons, dk yelsh brn (oil stained), m-f, w srtd, subang - subrnd, (mica).	Uniform, fair yel fluo, yielding an instant wh streaming cut fluo. Uniform oil staining w/light amber oil cut.
1820				Sd, uncons, clr, qtz, m qzy, m - f, w srtd, subang - subrnd, v sl mica.	No stain - no fluo.
1821					
			1821.7		
1822					

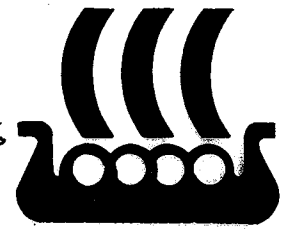
Remarks
A depth correction of 2.8 m was made before this core was cut.

WELL NO. 30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S 7

AREA: Norwegian North Sea
WELL RKB: 22,9m
INTERVAL: 1970 - 1980m. CUT: 1970,0 - 1979,02 (9,02) RECOVERY: 90,2%
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: Kihle Rydberg DATE: 4.10.75



DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
1970				Sst, olv gy, m-f, ang-subang, well srtd, frbl, v poorly cons, sl calc, good vis por.	Rare small spots of dul yel fluo
1971			1971,25	Sh, olv blk, splintery, subfis, clean.	vp cut fluo. Fluo will not disapear w/ HCl so prob not mineral fluo
			1971,80		
1972			1972,10	Sd, olv gy, f, well srtd, ang-subang.	No fluo - no stain.
			1972,25	A/a + Sh, m dk gy, sft, (mic).	
				Sh, dk gy, sft, subfis, splintery, (pyr).	
			1972,75		
1973				Sd a/a.	No flu - no stain.
			1973,35		
				Sst, olv gy, m-f, ang-subrnd, p cons, well srtd, good vis por.	
1974			1974,10	Slt/vf Sd, m gy, v mic (biotite), v arg.	No fluo - no stain.
			1974,65	Irregular winding interlaminations between Sst, m-f, well srtd, ang-subang and Sh, grnsh gy, sft, subfiss.	No fluo - no stain.
1975			1975,10	Sh, gry, pyr, firm, slty	
			1975,60	← Sd, brnsh olv gy (oilstained), f-m, w srtd, r-subrnd	
			1975,70	← Sh, olv blk, splintery, fis, clean, (mic)	1975,6-1975,7m and 1975,9-1976,15m: Uniform, strong, yel fluo, yelding an instant strong, blsh wh, cut fluo. L amber vis cut. Uniform amber oil-staining.
1976			1975,90	← Oilstained Sd a/a.	
			1976,15	Sst, m-f, subrnd-subang, m cons, (calc)	
			1976,60		
1977				Sst, v hd, l gry, f-vf, loc m, subang-subrnd, m well srtd, v sl calc, very well cmtd w/ silic, no vis por.	1976,60-1979,02m: Very weak patchy dull yel fluo yelding a very slow weak whitish cut fluo. No vis stain.
1978					
1979			1979,02	No Recovery	

WELL NO.
30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S
8
SHEET ※1

AREA: Norwegian North Sea
WELL RKB: 22,9
INTERVAL: 1981,7 – 2000,0 CUT: 5,18 m RECOVERY: 30,0 %
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: Kihle Rydberg DATE: 5.10.75

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
				Correction: No fractures in Breccia at 1985,90 – 1986,55m as drawn in lith column.	
				Remarks: ① The No Recovery zones interpreted from R.O.P. ② Very strong drilling brake @ 1989,0 m. ③ Lowermost 1,17 m of core was taken out of barrel on drillfloor. After 10 min of hammering on barrel without more return, decision to lay down barrel on catwalk and pump out. Barrel was raised 1m above drill floor and suddenly the hole rest of the core (4,01m) fell out in a mess.	Prob the fitting together of the core pieces has been successful.
1982		No Recovery	1981,7		
1983			1983,7		
1984		M		Sst, l olv gy, m-f, rnd-subrnd, sft-m hd, ((mica)), m well cemented, w/ calc/silic cmt.	No fluo – no stain.
1985			1985,6	Sst, l gy, f, s'ang-s'rnd, v hd, (mica), cmt a/a	
		M	1985,8	Clyst, olv gy, sft, subfiss.	
1986			1985,9	Breccia, v hd. Sst a/a as matrix. Irregular lumps and frags (up to 3-4cm) of Sh, olv blk and Lst, v l gry, dense, v hd.	
			1986,55	Lst, v hd, v l gry, m-f	Frequent fissures have a film of sticky brnsh oil. Uniform strong yel fluo. Inst, wh cut f No fluo in Sst.
1987			1987,0	Sst, l gy, v hd, m-f, poor vis por.	
			1987,25	Breccia + Lst a/a	Show a/a
		No Recovery	1987,50		
1988			1988,00	Sh, olv gy + Sst, dk gy, f, s'a, w srtd, hd.	On Sst, patchy fair fluo yelding an instant strong wh cut fluo. L brn stain
			1988,25	Breccia a/a, v hd.	Show as in breccia above
1989			1989,0	Sd, clr qtz, l brnsh, (oil stained), f-m, m well srtd,	Uniform, strong, yel fluo yelding an instant strong yellow white cut fluo! L. amber staining.
			1989,17		
1990		No Recovery			
1991					

WELL NO
30/7-2

NORSK HYDRO a.s
PETROLEUM DIVISION
CORE REPORT

CORE NO'S
8
SHEET # 2

AREA: CONTINUED FROM SHEET # 1
WELL RKB:
INTERVAL: CUT: RECOVERY:
SCALE: 1:50 (1cm = 0,5m)
GEOLOGIST: DATE:

DEPTH SCALE	RE-COVERY	LITHOLOGICAL COLUMN	DEPTHS	LITHOLOGICAL DESCRIPTIONS	SHOWS
1991					
1992					
1993					
1994					
1995		No Recovery			
1996					
1997					
1998					
1999					
2000			2000		