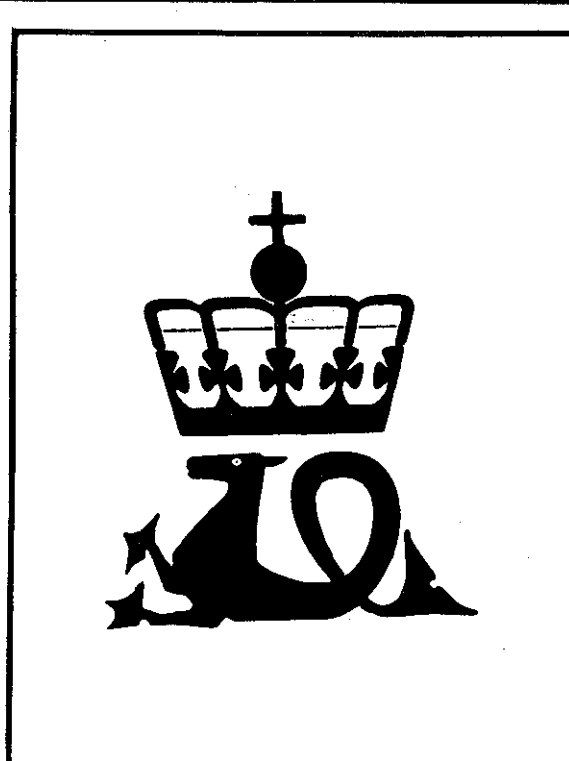


WELL NO: 31/4-3
 OPERATOR: NORSK HYDRO
 LICENSE NO: 055
 FIELD: BRAGE

TOTAL DEPTH: 4981 m RKB
 KBE: 25 m
 WATER DEPTH: 170 m

COORDINATES: 60° 35'12.2"N, 3° 5'38.1"E
 SPUD CLASSIF.: WILDCAT
 COMPL. CLASSIF.: GAS & OIL DISCOVERY P & A

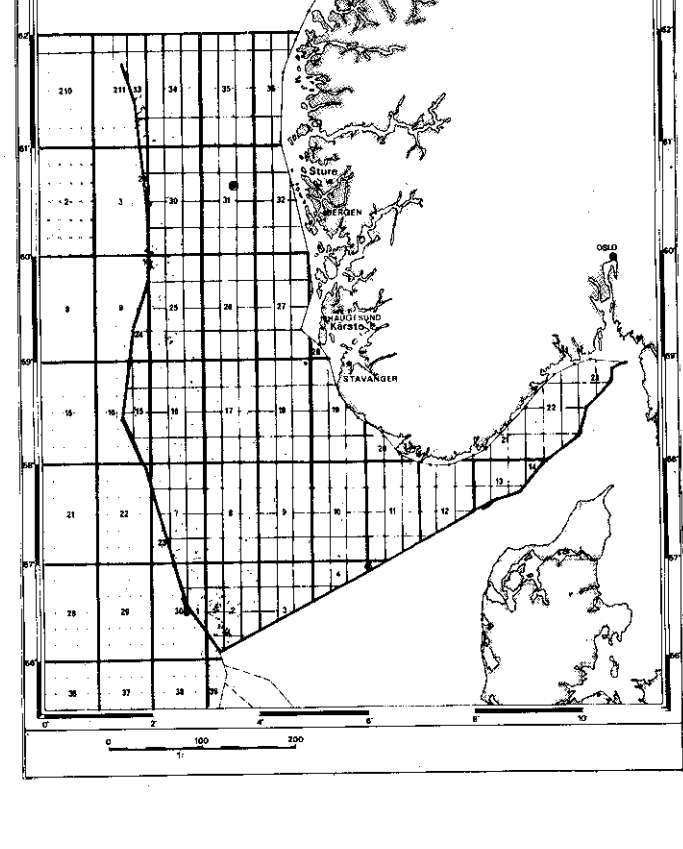


OLJEDIREKTORATET

SPUD DATE: 24.12.79
 COMPL. DATE: 11.5.80
 RIG: TREASURE SEEKER

LICENSE GROUP:
 STATOIL 50%
 ESSO 20%
 AVCO 15%
 NORSK HYDRO 10%
 BP 5%

LOCATION MAP



COMPLETION LOG

scale 1 : 4000

PERIOD	EPOCH / STAGE GROUP	FORMATION	DEPTH M(RKB)	GENERALIZED LITHOLOGY	LOG DEPTH M (RKB)	RESTIVITY / ACOUSTIC	DESCRIPTION
QUATERNARY	Pleistocene		195 - 200		195 - 200		Seabed at 195 m (RKB)
TERTIARY	Miocene - Pliocene	Nordland	200 - 800		200 - 800		Cl: lt gy, sft, stky, slty, sdy, mic, calc, (glc), intbd w/ S: clr, pred f-m, subang-subrnd, (glc), slty w/Ls, Shells, Lgn & Cht
			800 - 1000		800 - 1000		S: clr-wh, vf-crs, subang-subrnd, clean, poor-mod srt w/trc of Lgn, Shells, Forams & Glc Cl: lt gy-olv gy, sft, stky, slty, glc, (calc), (carb) w/strgs of S, Ls w/Pyl, Glc & Shells
TERTIARY	Oligocene	Hordaland	1000 - 1500		1000 - 1500		Cl/Clst: brn gy-dusky yel brn-olv gy, sft-fm, mtky, occ blk, slty, (glc), (mmic), (carb), (pyr) w/strgs of Slstst, Sst & Ls, w/m Fossils & Forams
			1500 - 1800		1500 - 1800		Clst/Sh: grn gy-olv gy, occ dusky yel brn-brn blk, sft-fm blk-fiss, incr frm & fiss dnwrd, (mmic), (pyr), Slty, intbd w/Slstst, Dol, Ls Clst/Sh: brn-gy-grn-blu grn, frm, blk, fiss, slty, pyr, mmic, w/Tuff & Strgs of Ls & Slstst
TERTIARY	Eocene	Rogaland	1800 - 2000		1800 - 2000		Sh/Clst: grn-gy-brn-blue gy, frm-sft, blk, fiss, pyr, glc, slty w/strgs of Ls, Sst & Slstst
			2000 - 2200		2000 - 2200		Clst/Sh: gy-olv gy, sft-fm, blk, fiss, mmic, calc intbd w/Ls Clst: intbd w/Ls Sh: dk gy-blk, frm, carb, (mica) Sst: wh-md gy-clr, vf-f, strgs of m-crs, fri, subang-subrnd, srt, glc, mica, carb, w/calc cmt bds Slstst: yel brn-gy, frm, mica, calc, w/bds of Sst, Sh Sst: wh-gy-clr, vf-f, occ crs, subang-subrnd, srt, mica, carb, glc, w/calc cmt bds
TERTIARY	Paleocene	Rogaland	2200 - 2400		2200 - 2400		Slstst: yel brn-gy, sft-fm, mica, calc, carb, w/bds of Sst, Sh Sst: clr-gy, vf-m, occ crs, mod hd, w/strgs of Coal Sst: clr-gy m-crs, pbly, mod hd, srt, (glc), (carb) Clst/Sh: gy, yel brn, olv gy, frm-sft, mmic, slty, non calc w/bds of Sst: clr, vf-crs, lse, subang-subrnd, prly srt, calc cmt, (glc), w/bds of Ls Sst: clr-wh-mk, Qtz, m-crs, subang-subrnd prly srt, w/calc cmt strgs & Clst Clst/Sh: w/strgs of Sst, Slstst & Ls
			2400 - 2600		2400 - 2600		Sst: clr-gy, vf-f, occ m, grng to Slstst, fri-hd, ang-subrnd, w/calc cmt, mica carb, plant remains Slstst: md-gk gy, mod hd, mica, (carb), calc intbd w/Clst/Sh & strgs of Sst and Ooliths
TERTIARY	Eocene	Hordaland	2600 - 2800		2600 - 2800		Sst: gy-clr, vf-v crs, pred m, mod hd-fri prly-mod srt, sl silica-calc-dol cmt mic, pyr, w/bds of Sh/Clst, Slstst & strgs of Coal and Ls
			2800 - 3000		2800 - 3000		Sst: grn gy-clr, f-m, occ vf & v crs, fri-lse, mod-fell srt, sl calc cmt, w/calc cmt bds, intbd w/Slstst, Ls and Sh: gy grn-gy, occ dusky rd, mod hd, (mic), (pyr), slty
TERTIARY	Eocene	Hordaland	3000 - 3200		3000 - 3200		Intbd Sst & Slstst w/bds of Sh & strgs of Ls Sst: clr-wh-lt rd-yel orng, occ lt brn & gy grn, Qts w/minor Feldspar, arktic, pred vf-f, occ m-crs, fri-mod hd, ang, mod-prly srt, sl silica-calc cmt, w/calc cmt bds, mic, clay matrix Slstst: gy-grn gy-brn-gy brn, mod hd, blk, fiss, sl calc
			3200 - 3400		3200 - 3400		Clst/Sh: brn-gyrd, Sft-mod hd, blk-fiss, plty, sl calc, grdg to Slstst, intbd w/Sst
TERTIARY	Eocene	Hordaland	3400 - 3600		3400 - 3600		Slstst: brn-gy brn, frm-mod hd, blk, arg, occ grdg to Sst, mmic, sl calc, intbd w/Sst, Clst/Sh Ls & trc of Anhd
			3600 - 3800		3600 - 3800		
TERTIARY	Eocene	Hordaland	3800 - 4000		3800 - 4000		
			4000 - 4200		4000 - 4200		Sst: gyrd-brn-gy-clr-wh-grn-lt rd, Qtz w/minor Feldspar, pred vf-f, occ m-crs-pbl, mod hd, pred ang-subang, prly-mod srt, calc & (silica) cmt, mic, intbd w/Slstst, Clst/sh & Ls
TERTIARY	Eocene	Hordaland	4200 - 4400		4200 - 4400		
			4400 - 4600		4400 - 4600		
TERTIARY	Eocene	Hordaland	4600 - 4800		4600 - 4800		
			4800 - 4981		4800 - 4981		Sst: brn rd-rd brn-orng-yel-clr-wh, Qtz w/minor Feldspar, arktic, pred vf-m hd-fri, pred subang, mod-prly srt, well silica cmt & (calc) cmt, mic, w/bds of Slstst, Ls & Clst/Sh
TRIASSIC ?			4981		4981		TD=4981m