[redacted]

SLEIPNER ØST

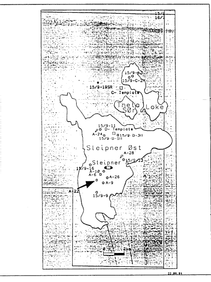
WELL: ~~15/9-A-22~~ 15/9-20 S

STATOIL

COMPLETION LOG
RESERVOIR SECTION

Scale 1 : 500

LOCATION MAP


15/9-19SR
C- Template
15/9-C-2H
Theta Sør
Loke
15/9-11
D- Template
A-24
15/9-D-3H
15/9-D-1H
Sleipner Øst
A-28
Sleipner
15/9-13
15/9-16
A-10
A-6
A-26
A-9
A-22
15/9-9
0
2km

REV.	COMPLETED	CONTR.	APPROVED	DATE
1				
2				
3				
4				

GENERAL:

License:	PL 046
Field:	SLEIPNER ØST
Slot No:	A 22
Slot Coordinates	6 470 259.918 mN
UTM Coordinates:	436 164.242 mE (Zone 31V)
Well type:	HEIMDAL GAS PRODUCER
RKB-MSL:	78.0m
Water Depth:	82.0m
Total Depth:	3626.0 mMD
Deepest Formation:	SMITH BANK FORMATION
Date Drilling Start:	15.02.94 (from 26" conductor)
Date at TD:	16.03.94
Logging Finished:	17.03.94
Well Completed:	13.06.94

CORES:

No.	INTERVAL (mMD)	CUT(m)	RECOVERED (%)
1	2940.0 - 2949.0	9.0	100.0
2	2949.0 - 2977.0	28.0	100.0
3	2977.0 - 3005.0	28.0	100.0
4	3005.0 - 3015.0	10.0	93.0
5	3015.0 - 3043.0	28.0	100.0
6	3216.0 - 3244.0	28.0	97.5

PERFORATED INTERVALS:

2933.0 - 2942.5 mMD
2942.5 - 2949.0 mMD
2953.0 - 2956.0 mMD

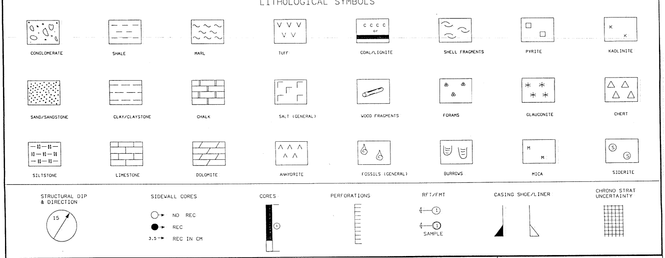
CASING AND FORMATION INTEGRITY:

26"	at	283.0 mMD / 283.0 mTVD	
18 5/8"	at	501.0 mMD / 500.6 mTVD	LOT: 1.65 SG EMW
13 3/8"	at	1729.0 mMD / 1503.0 mTVD	XLOT: 1.78 SG EMW
9 5/8"	at	2921.9 mMD / 2351.2 mTVD	LOT: 1.92 SG EMW
7"		3624.0 mMD / 2799.5 mTVD	

LOGGING ACROSS RESERVOIR INTERVALS

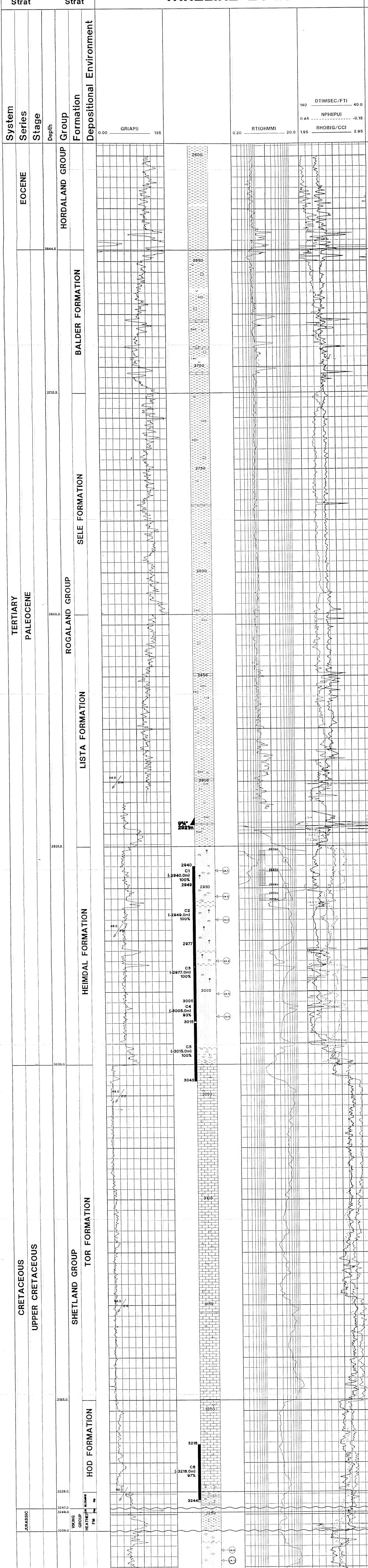
LOG TYPE	No.	INTERVAL (mMD)	DATE	COMMENTS
GR/DPR (MWD)	1	506.0 - 1735.0	18/02/94	BH - INTEQ MWD
GR/DPR (MWD)	2	1735.0 - 2928.0	25/02/94	BH - INTEQ MWD
BHC/LDL/GR	1A	2917.5 - 1729.0	02/03/94	SCHLUMBERGER
DIL/BHC/GR	2B	3627.0 - 2922.0	16/03/94	SCHLUMBERGER
LDL/CNL/GR	2B	3627.0 - 2922.0	16/03/94	SCHLUMBERGER
RFT/HP/GR	2A	3577.0 - 2942.0	17/03/94	SCHLUMBERGER, 21 PRESSURE POINTS, 1 SEGREGATED SAMPLE
VSP	2A	3588.0 - 1788.0	22/03/94	SCHLUMBERGER, GEOQUEST
CBLs RUNS IN 13 3/8" AND 9 5/8" CASINGS AND 7" LINER				

LITHOLOGICAL SYMBOLS


CONGLOMERATE
SHALE
MARL
TUFF
COAL/LIGNITE
or
SHELL FRAGMENTS
PYRITE
KAOLINITE
SAND/SANDSTONE
CLAY/CLAYSTONE
CHALK
SALT (GENERAL)
WOOD FRAGMENTS
FORAMS
GLAUCONITE
CHERT
SILTSTONE
LIMESTONE
DOLOMITE
ANHYDRITE
FOSSILS (GENERAL)
BURROWS
MICA
SIDERITE
STRUCTURAL DIP & DIRECTION
15
SIDEWALL CORES
NO REC
REC
3.5
REC IN CM
CORES
PERFORATIONS
RFT/FMT
SAMPLE
CASING SHOE/LINER
CHRONO STRAT UNCERTAINTY

Chrono Strat | **Litho Strat**

WIRELINE LOGS



Lithological Descriptions

RKB - MSL 78m
WATER DEPTH 82m

CLST: med gry - olv gry, brn gry - brn blk, dk gn gry, gry rd, frm, blky, waxy text i.p., occ slily slty, pred non calc

ROGALAND GROUP
BALDER FORMATION
2644.5 mMDRKB (2077.9 mSS)

CLST: bl gry, dk gn gry, frm - hd, blky, occ sbfis, pyr, occ tuff w/ blk and wk spks, slly calc - mod calc

LS: wh - yel gry, frm - hd, microxln, occ pyr

SELE FORMATION
2712.5 mMDRKB (2125.4 mSS)

CLST: olv gry - olv gn gry, med gry, brn gry, sft - frm, blky - sbfis, micromic, tr pyr, pred non calc

TR LS: as above

LISTA FORMATION
2820.0 mMDRKB (-2200.8 mSS)

CLST: med lt gry - med gry, sft - frm, blky, non calc

LS: wh - gry wh - brn wh, sft, blky, occ arg

CLST: a.a. also lt gry - med gry - brn gry

SST: lt gry, clr - trnsl qtz, v f, sbang, fri, mod calc cmtd

CLST: med lt gry - med gry brn, sft - frm, blky, occ calc

LS: wh - gry wh - brn wh, sft - frm, blky

9 5/8" CASING AT 2921.9 mMD/ (2351.2 mTVD)
LOT: 1.92 SG EMW

HEIMDAL FORMATION
2931.0 mMDRKB (-2279.6 mSS)

SST: med gry - olv gry, clr - trnsl qtz, smky qtz, f - med, mod - wl srtd, sbang - sbrndd, lse - frm, wk sil cmt, glauc, mic, mod vis por

SST: pred f, else a.a.

CLST: dk gry, sol, frm, micromic, carb, slily calc

CLST: dk gn gry, frm, wxy text, non calc

SST: f - med, else a.a.

CLST: dk gn gry, frm, wxy text, non calc

SST: pred lse, else a.a.

CLST: a.a.

SST: med gry - olv gry, clr - trnsl qtz, smky qtz, f - med, mod - wl srtd, sbang - sbrndd, lse, tr wk sil cmt, glauc, tr mic, gd vis por

SST: a.a.

CLST: gn gry, frm - hd, non calc

SST: arg sst w/lams of clst, tr of carb, pyr, pr vis por, else a.a.

CLST: mod calc, else a.a.

SHETLAND GROUP
TOR FORMATION
3035.0 mMDRKB (-2350.8 mSS)

LS: pred wh, hd chky, occ arg LS, lt olv gry w/ lam of gn gry CLST

LS: a.a.

LS: wh - gry wh - dk rd brn - mod brn, frm - hd, arg

LS: gry wh - lt brn - mod brn, frm - hd, arg

CLST: rd brn, sft - frm, blky, v calc

HOD FORMATION
3195.0 mMDRKB (-2456.8 mSS)

LS: lt brn gry, lt gn gry - gn gry, v lt gry, bl wh, hd, microxln, micropyr

LS: a.a. w/lams of clst; dk grnsh gry, frm, micropyr, v slily calc

CLST: dk rdish brn, hd, mic, v calc

BLODØKS FORMATION
3239.0 mMDRKB (-2485.1 mSS)

CLST: dk rd brn, hd, mic, v calc
LS: lt gn gry, hd, micropyr

DRAUPNE FORMATION 3247 mMD/ (-2490.2 mSS)

HEATHER FORMATION
3249.0 mMDRKB (-2491.4 mSS)

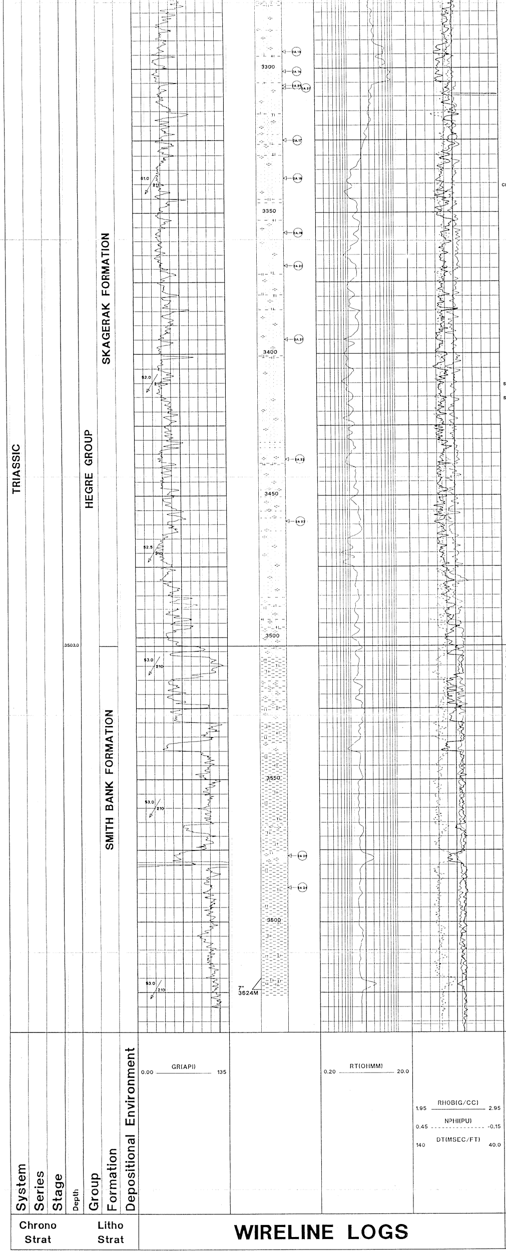
CLST: dk gn gry, frm - hd, slty, slily carb, non calc

HEGRE GROUP
SKAGERAK FORMATION
3258.5 mMDRKB (-2497.5 mSS)

SST: lt brn gry - med dk gry, clr - trnsl qtz, pred f, occ med, mod srtd, sbang - sbrnd, app lse, abd wh arg mtx

CLST: dk rd brn - gry brn, bl gry i. p., frm - hd, slty - v slty grdg arg SLST i.p., non calc

SLST: med gry - mod brn, brn rd, sft - frm, arg - v arg grdg slty CLST i.p., loc sdy, non calc



CLST: dk rd brn - gry brn, occ bl gry, as above

SD: qlz, clr - trnsl, vf - med, sbang - rndd

SLTST: med gry - mod brn - gry brn, sft - frm, arg

SMITH BANK FORMATION
3503.0 mMDRKB (-2649.0 mSS)

CLST: dk rdlsh brn, med bl gry, frm - hd, slty, non calc

SST: lt brn gry - med dk gry, clr - trnsl qtz, pred f, occ med, mod srtd, sbang - sbrndd, app lse, com wh arg mtx

SLTST: med gry - mod brn - gry brn, sft - frm, arg

CLST: dk rdlsh brn - grylsh brn, occ bl gry, frm - hd, slty, non calc

7" LINER AT 3624.0 mMD/ (2799.5 mTVD)

TOTAL DEPTH OF WELL 3626.0 mMD
(-2722.7 mSS)

Lithological Descriptions