SIMON PETROLEUM TECHNOLOGY

WELL: 6507/7-5A

Print:	Units:	Top	Bottom	Scale	TD
1558 E	[✓ M] F	445	2673	1:500	2673
Length: 23 FT	Initials: IC				

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

6.101.1

CONOCO NORWAY I

STATOIL/ARCO/TENNECO **WELL:** 6507/7-5A

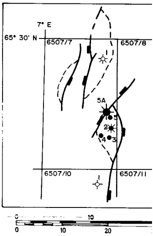
COMPOSITE WELL LOG

LOCATION : TD approximately at CN 8502-608 SP 203
Latitude : 65° 21' 48.16" N at TD
(65° 21' 30.27" N Top Hole Location)
Longitude : 07° 17' 10.34" E at TD
(07° 17' 35.08" E Top Hole Location)
ELEVATIONS :
K B Mean Sea Level : 25m
K B Sea Floor : 356m
Water Depth : 331m
Total Depth : 2673.0m RKB (2524.7m TVD)

7 NOV. 1986
REGISTRERT
OLJEDIREKTORATET

Country : NORWAY
Area : HALTENBANKEN
Licence : PL 095
Field : HEIDRUN
Date Spudded : 7th MAR 1986 (KOP)
T D Date : 25th MAR 1986
Date Completed : 5th APR 1986
Completion Status : P & A OIL & GAS WELL

LOCATION PLAT 1:500


7° E
65° 30' N
6507/7
6507/8
1
5A
1
5
2
4
3
6507/10
6507/11
1
0
10
20
0
10

CONOCO GEOLOGISTS

OPERATION GEOLOGIST:	Thorbjørn Pedersen
WELLSITE GEOLOGISTS:	Atle Andresen Ian Barron Carl F. Gyllenhammer Arild Skjervøy Mike Airey (EXLOG) Tim Herrett (EXLOG)

CONOCO ENGINEERS

ONSHORE DRILLING SUPERVISOR:	Paul Heard
OFFSHORE DRILLING SUPERVISORS:	Gary Motl Randy Hutton
ASST. DRILLING SUPERVISORS:	Dale Hejnal Steve Lewis

MUDLOG SERVICE

ANADRILL

DRILLING CONTRACTORS & RIG

NORCEM DRILLING A / S

SCHLUMBERGER LOGS

TYPE	Run No	INTERVAL	TEMP.	HOURS SINCE CIRC.
ISF/SLS/MSFL/GR	1	2196.5-1032.0m MD	60° C / 140° F	6:10
ISF/BHC/GR/SP	2	2569.0-2186.0m MD	81.7° C / 179° F	9:15
ISF/SLS/MSFL/GR		2432.0-1032.0m	(TVD REPLAY)	
HRT/CCL	1	2160.0-355.0m MD		

PLUG No	CEMENT	INTER
1	381 Sx "G" with 0.07 GPS D-81.	Plug ba 2196m
2	300 Sx "G" with 0.07 GPS D-81.	Balance from 2
3	474 Sx "G"	Balance from 4
4	169 Sx "G"	Cement

MUD TYPE	
SEAWATER WITH PREHYDRATED GEL	SE
KCL / POLYMER	10

BIT SIZE	INTERVA
26" with 36" HOLE OPENER	SEAFLOOR -
17½" pilot / 26" Bit	455m -
17½"	1040m -
17½"	(KOP) 1100m -
12¼"	2198m MD -

CASING

SIZE	SHOE	TYPE & CEMENT
30"	455m	310 ppf, X-52 Lynx 14-S Lead: 960 Sx Class "G" Tail: 250 Sx Class "G"
20"	1033m	130 ppf, X-56, Vetco LS Lead: 3204 Sx Class "G" Tail: 900 Sx Class "G"
13⅜"	2189m MD	72 ppf, N-80, Buttress Lead: 2000 Sx Class "G" Tail: 650 Sx Class "G"

WELLSITE CORE DATA

No.	INTERVAL	CUT	REC.	%	LOG CORR
1	2557.0-2572.0m	15.0m	11.80m	78.7	+2.5
2	2572.0-2573.0m	1.0m	0.85m	85.0	+2.5
3	2573.0-2595.0m	22.0m	19.32m	88.8	+2.5
4	2595.0-2611.7m	16.7m	15.14m	90.7	+2.5
5	2611.7-2622.5m	10.8m	10.8m	100.0	+2.5
6	2622.5-2634.0m	11.5m	7.93m	69.0	+2.5
	TOTAL	77.0m	65.84m	85.5	

TESTING

NOT TESTED
due to mechanical problems

AUTHORS:

ARILD SKJERVØY /
ATLE AA. ANDERSEN

APPROVED:

D.A.JENKINS

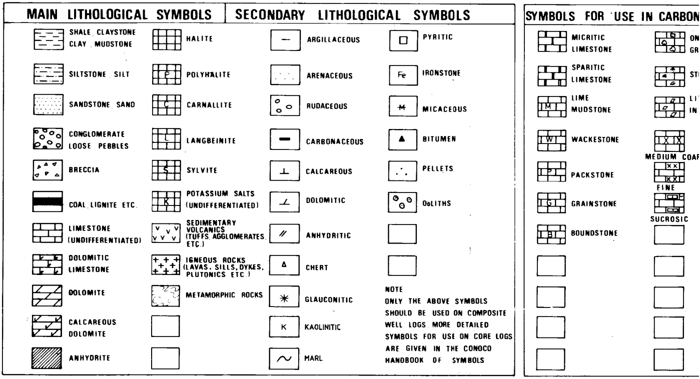
DRAFTED:

A. BANKS (EXLOG)

DATE:

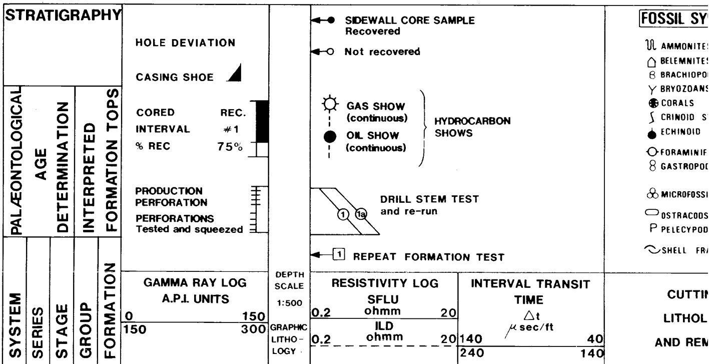
OCTOBER 1986

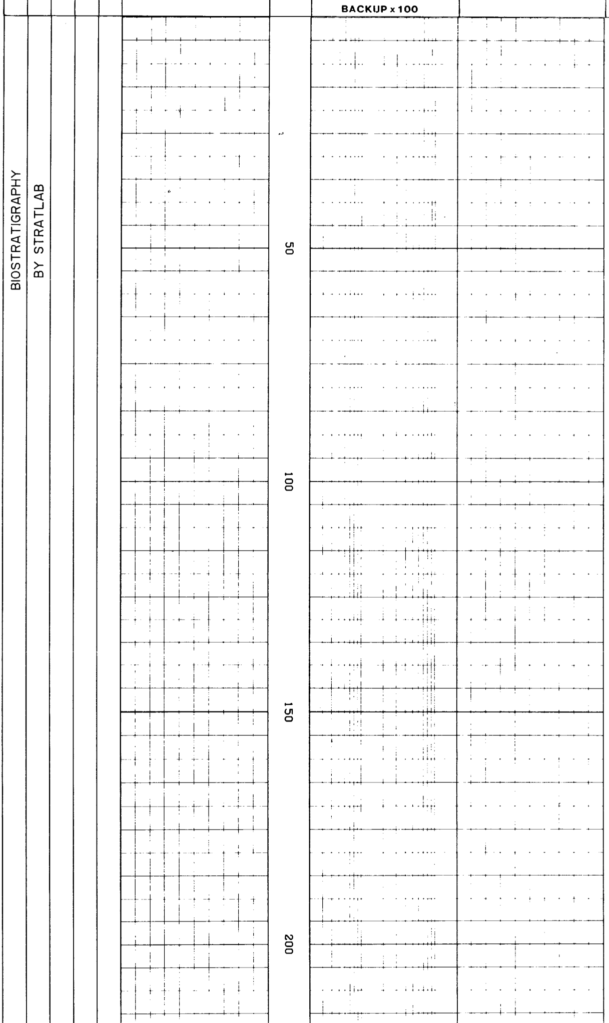
REMARKS: MWD logs down to 1035m KB are from 6507/7-5.
Between 1035m KB and 1100m KB logs were run in a previously cased hole section.
Below 2569m KB no wireline logs were run due to stuck pipe and
unsucessfull fishing leaving a 387m fish in the hole, however, the section was
MWD logged.

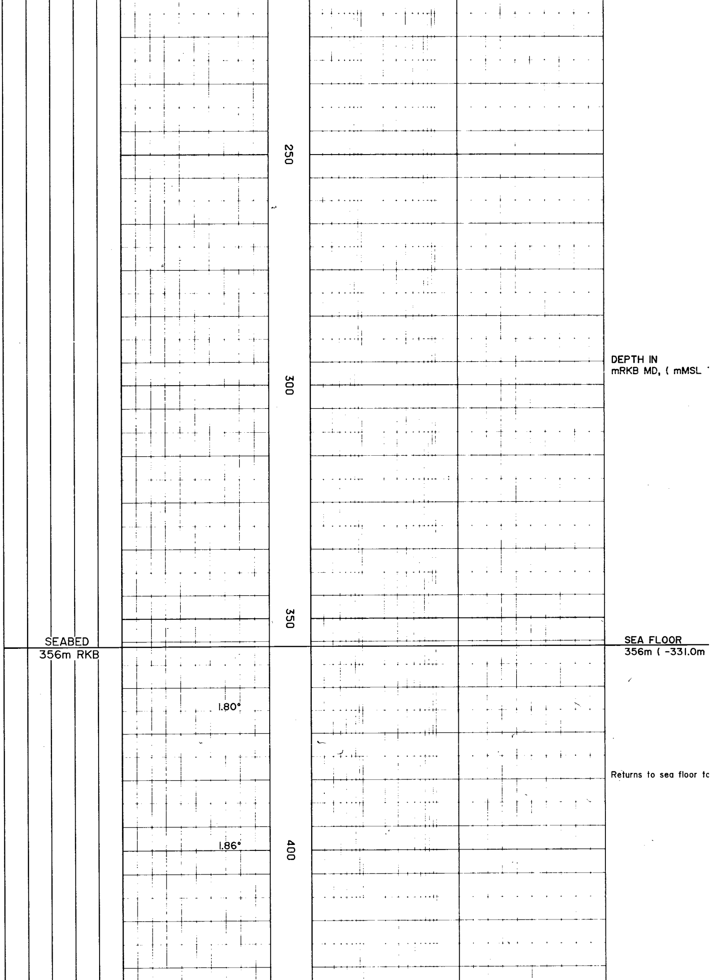

MAIN LITHOLOGICAL SYMBOLS
SHALE, CLAYSTONE CLAY, MUDSTONE
SILTSTONE, SILT
SANDSTONE, SAND
CONGLOMERATE LOOSE PEBBLES
BRECCIA
COAL, LIGNITE ETC.
LIMESTONE (UNDIFFERENTIATED)
DOLOMITIC LIMESTONE
DOLOMITE
CALCAREOUS DOLOMITE
ANHYDRITE
HALITE
POLYHALITE
CARNALLITE
LANGBEINITE
SYLVITE
POTASSIUM SALTS (UNDIFFERENTIATED)
SEDIMENTARY VOLCANICS (TUFFS, AGGLOMERATES, ETC.)
IGNEOUS ROCKS (LAVAS, SILLS, DYKES, PLUTONICS ETC.)
METAMORPHIC ROCKS
SECONDARY LITHOLOGICAL SYMBOLS
ARGILLACEOUS
ARENACEOUS
RUDACEOUS
CARBONACEOUS
CALCAREOUS
DOLOMITIC
ANHYDRITIC
CHERT
GLAUCONITIC
KAOLINITIC
MARL
PYRITIC
Fe
IRONSTONE
MICACEOUS
BITUMEN
PELLETS
OoLITHS
SYMBOLS FOR USE IN CARBON
MICRITIC LIMESTONE
SPARITIC LIMESTONE
LIME MUDSTONE
WACKESTONE
PACKSTONE
GRAINSTONE
BOUNDSTONE
ON
GR
ST
LI
IN
MEDIUM COAR
FINE
SUCROSIC

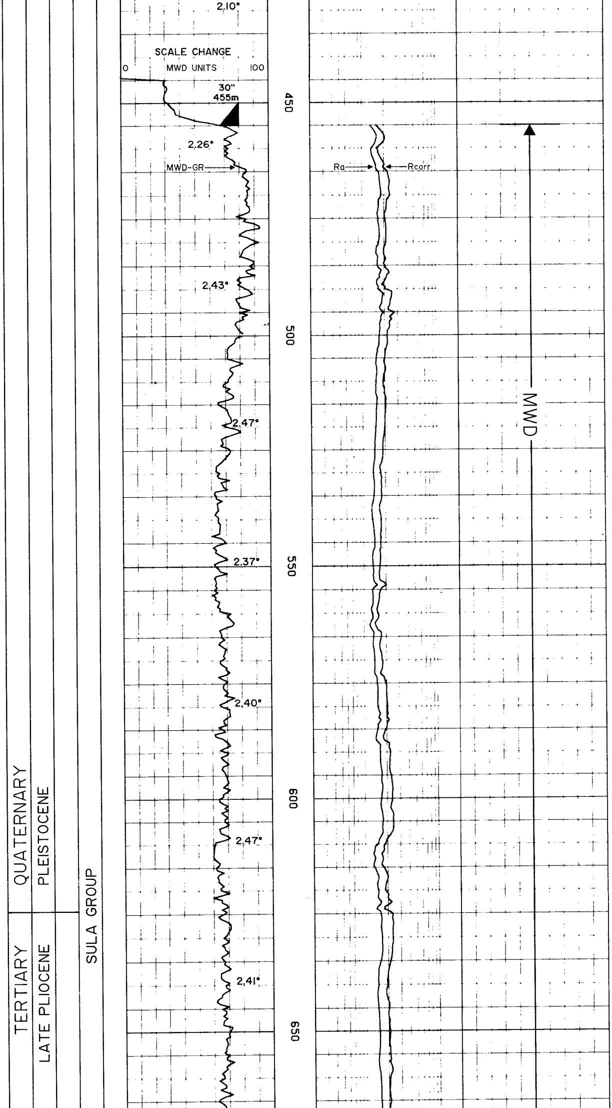
NOTE
ONLY THE ABOVE SYMBOLS SHOULD BE USED ON COMPOSITE WELL LOGS. MORE DETAILED SYMBOLS FOR USE ON CORE LOGS ARE GIVEN IN THE CONOCO HANDBOOK OF SYMBOLS

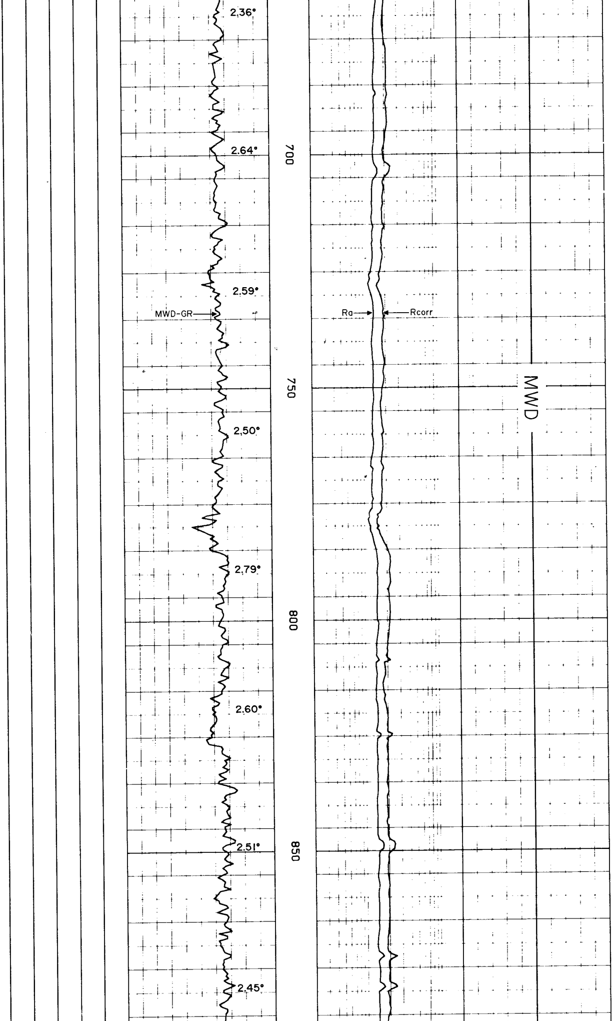
LITHOLOGY

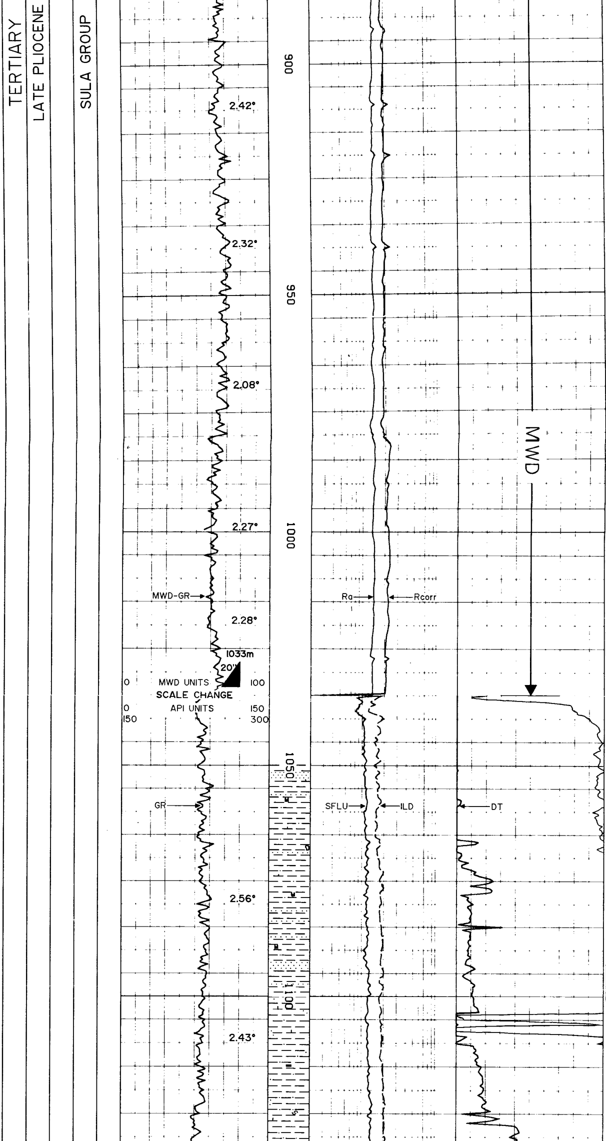

STRATIGRAPHY
PALÆONTOLOGICAL AGE DETERMINATION
INTERPRETED FORMATION TOPS
SYSTEM
SERIES
STAGE
GROUP
FORMATION
HOLE DEVIATION
CASING SHOE
CORED INTERVAL
% REC
REC.
#1
75%
PRODUCTION PERFORATION
PERFORATIONS Tested and squeezed
GAMMA RAY LOG
A.P.I. UNITS
0
150
150
300
DEPTH SCALE
1:500
GRAPHIC LITHO - LOGY
SIDEWALL CORE SAMPLE Recovered
Not recovered
GAS SHOW (continuous)
OIL SHOW (continuous)
HYDROCARBON SHOWS
DRILL STEM TEST and re-run
1
1a
1
REPEAT FORMATION TEST
RESISTIVITY LOG
SFLU ohmm
0.2
20
ILD ohmm
0.2
20
INTERVAL TRANSIT TIME
Δt
μ sec/ft
140
40
240
140
FOSSIL SY
AMMONITE
BELEMNITE
BRACHIOPO
BRYOZOANS
CORALS
CRINOID S
ECHINOID
FORAMINIF
GASTROPOD
MICROFOSSI
OSTRACODS
PELECYPOD
SHELL FR
CUTTI
LITHOL
AND REM











NO CHECK SHOTS
HENCE, NO TWT's

DEPTHS IN
mRKB MD, (mM

CEMENT CONTAMI

CLAY: grey, soft, silty, variably calca possibly mica?, abu colourless, transluc coarse, angular to inclusions.

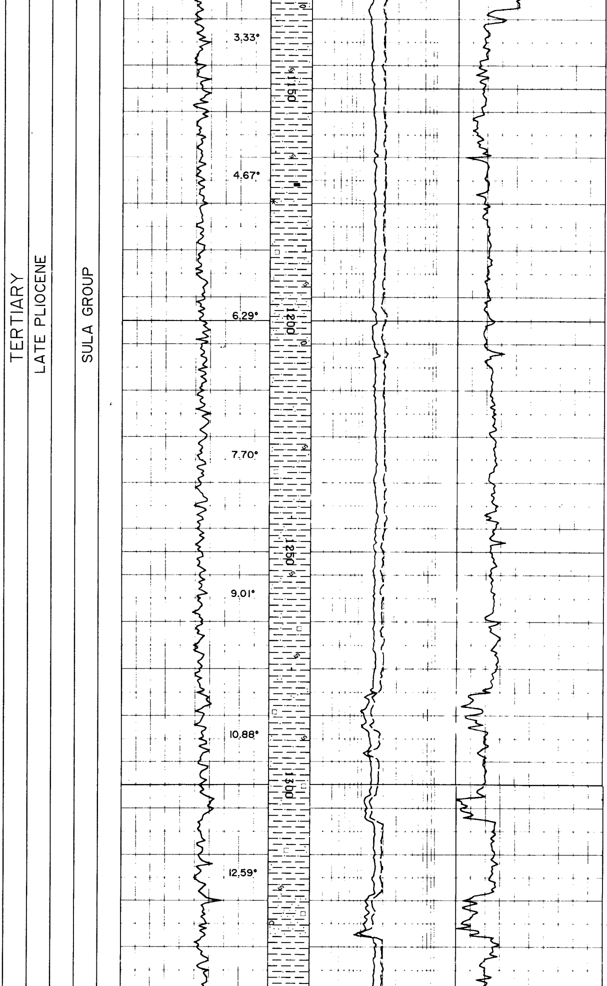
SAND: colourless, c subangular to subrc lithic fragments (q

CLAY & SAND: as fragments, glauconi hard lithic fragment

KICK-OFF FOR SID
AT 1100m WITH N
BENT-SUB.

CLAYSTONE: mediu light grey, soft, stic abundant very fine very calcareous, ca
SAND: translucent, fine to coarse, sub

TR SHELL FRAGM



TRACE ROCK FRA
occasionally mottled
quartzitic, micaceou

CLAYSTONE: mediu
moderately calcared
fine sand, glauconiti

TRACE SANDSTON
fine to fine, friable,

SAND: translucent t
black, medium to co
coarse, angular to s

TR PYRITE

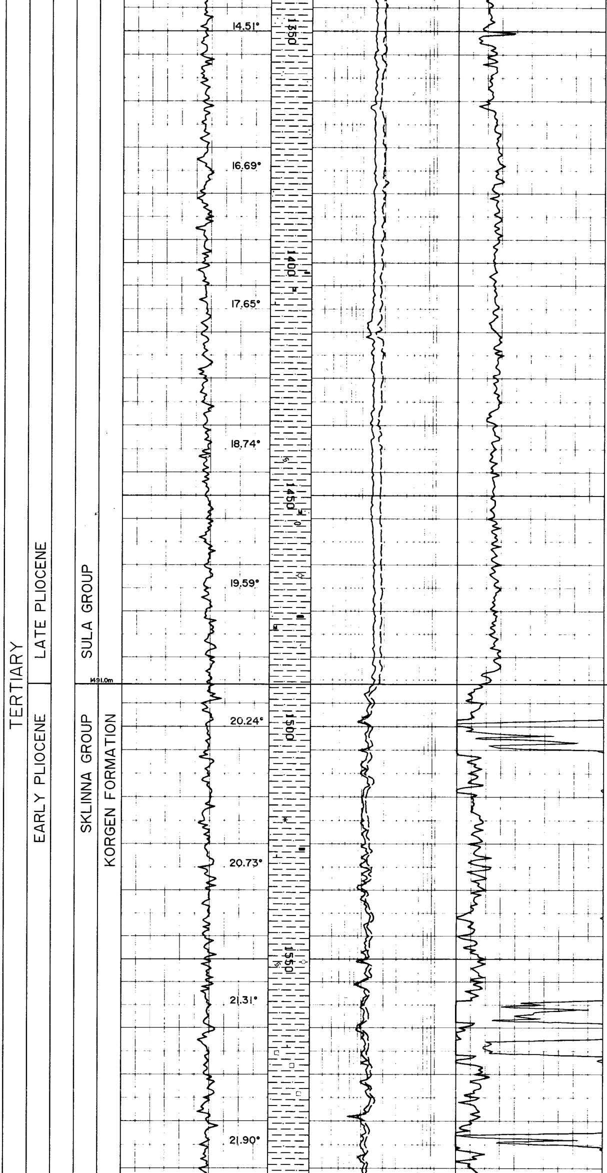
TR ROCK FRAGME
FRAGMENTS: as ab

CLAYSTONE: as ab

SAND: opaque to cl
coarse, angular to s

TR PYRITE.

ROCK FRAGMENTS:
occasionally mottled
quartzitic, trace mic
SAND: opaque to cle
smokey quartz, fine
angular to subrounde



CLAYSTONE: mediu
very silty, trace ver
moderately calcareou
slightly micromicaceo

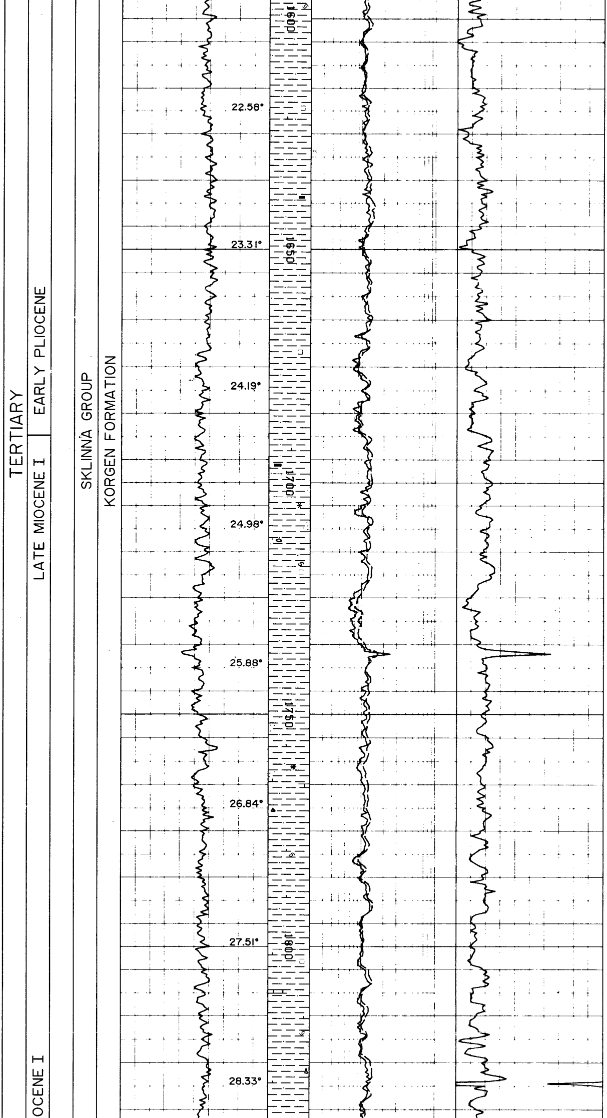
TR SANDSTONE: da
mottled brown, very
hard to firm, subang
TR ROCK FRAGMEN
TR FORAMINIFERA

CLAYSTONE: mediu
slightly silty, moderat
carbonaceous, slightl
trace very fine sand.

TOP KORGEN
1491m (-1455

CLAYSTONE: medium
olive grey, soft, occ
sticky, slightly silty,
trace carbonaceous
glauconite, trace ver

TR FORAMINIFERA



CLAYSTONE: as abov
moderately silty.

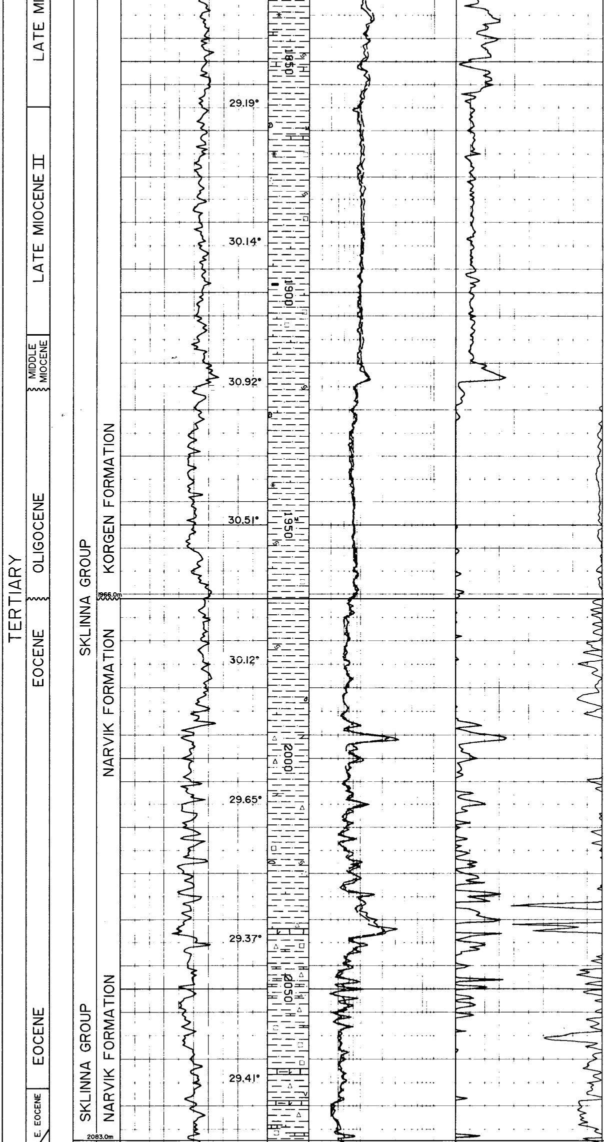
CLAYSTONE: medium
moderately calcareous
carbonaceous materia
very fine sand, micro
glauconite.
TR SANDSTONE: whi
subangular, and SHEL

TR ROCK FRAGMENT
hard, quartzitic, mica
trace pyrite.

CLAYSTONE: medium
moderately to very c
silty, abundant black
glauconite.
TR SAND: coarse to
angular to subangular,
lithic fragments, LIME
to light yellow grey,
soft, brittle, black sp

CLAYSTONE: as abo
TR: nodular pyrite, c
coarse clear quartz g
fragments, lithic frag

LIMESTONE: off whit
grey, moderately har
black specks.



TR: SILTSTONE; gree
glauconitic, sandy, bla

TR: LIMESTONE: yello
to moderately hard, c

CLAYSTONE: medium
soft, sticky, slightly to
calcareous, glauconite,
silty, slightly sandy, in
pyrite.
TR SANDSTONE: firm
very fine to fine, glau
black grains, shell frag
fragments, medium to
grains, LIMESTONE, a

CLAYSTONE: grey to
calcareous cement, sil
material, occasional m
pyrite.

CLAYSTONE: medium
grey green, predomina
grey, soft to moderat
occasionally sticky, ca
black specks, glauconi
glauconite aggregate,
very fine sand, micron
very silty-SILTSTONE.
TR LITHIC FRAGMENT
quartz, shell fragments
occasional elongated p
TR LIMESTONE: off v
brittle.

TOP NARVIK F
1966.0m (-188

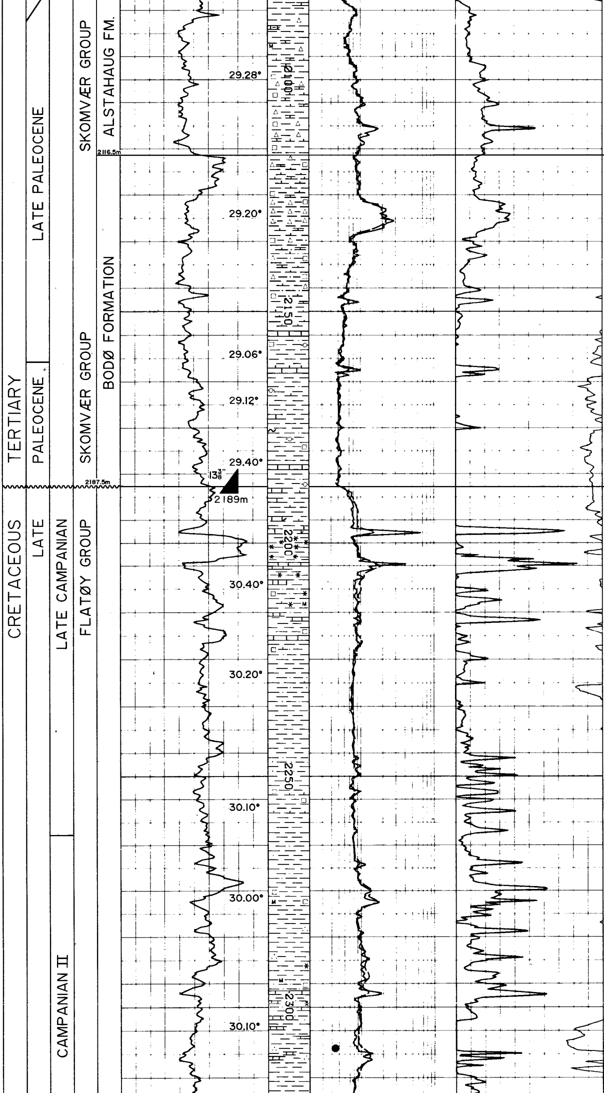
CLAYSTONE grading
above, decreasingly c
CLAYSTONE: light gre
soft to moderately ha
~~predominantly blocky,~~
fissile & splintery, pre
calcareous, occasional
occasionally grading m
occasionally sticky.
TR: SHELL FRAGMEN
FRAGMENTS, medium
grains, MARL: soft, o
elongated circular pyri
nodular pyrite, hard o
DOLOMITE.
As above, grading silic
hard to very hard, oc
translucent, grading to
in part.

CLAYSTONE: as abov
grey. TR: orange hard
lithic fragments, shell
pyrite, SANDSTONE: n
hard, speckled black t
medium, black grains b
argillaceous, poor visib

LIMESTONE: off white
microcrystalline, dolom
CLAYSTONE: light blu
moderately hard to ha
cherty, pyrite, occasio
grains.
SILTSTONE: brown, fi
hard, silica & calcareo
argillaceous.
SILTSTONE: light grey
cement, crumbly, well

CLAYSTONE: medium
firm, silica cement, py
ARGILLACEOUS LIMES
grey, occasionally buff
moderately hard, occa
CLAYSTONE: medium
firm, silica cement, sp
& dark flakes (tufface
pyrite.

TOP ALSTAHA



2083.0m (-19
ARGILLACEOUS LIMES
grey, occasionally buff
moderately hard, occa

As above, repetitions
ARGILLACEOUS LIMES
variable cement of sili
material.

TOP BODØ FM.
2116.5m (-201

As above, CLAYSTON
cherty.

CLAYSTONE: light gre
to grey brown/occasi
purple brown grey/lig
yellow brown, soft to
to splintery, calcareou
occasionally grading tr
waxy, silty in part.
LIMESTONE: predonin
opaque, occasionally t
occasionally medium g
hard.
TR: nodular and cryst
MARL: white, soft, or
FORAMINIFERA: abund
circular, recrystalised
centre.

TOP FLATØY
2187.5m (-20
CLAYSTONE: as abov
increasingly calcareous
decreasing chert.
LIMESTONE: off white
occasionally translucen
occasionally orange br
to very hard, occasion
CEMENT CONTAMINA
comprised 30% glauc
grains.
CLAYSTONE: green/g
slightly calcareous, sil
LIMESTONE: dark gre
impervious.
CLAYSTONE: medium
slightly to moderately
to subfissile, silty, wit
stringers.

CLAYSTONE: as abov
horizons.

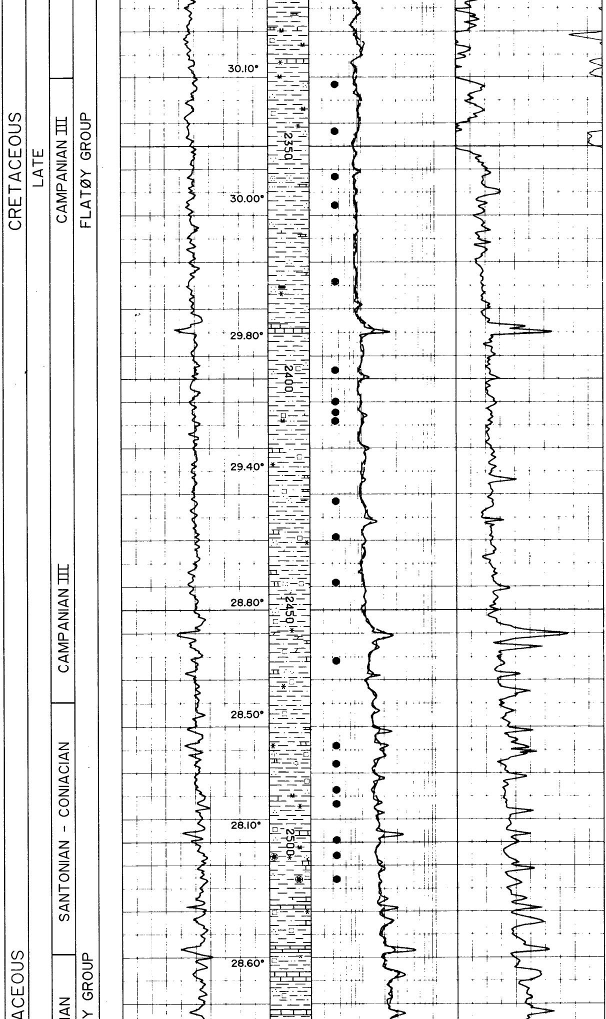
CLAYSTONE: as abov
micromicaceous.

TR: quartz grains, cle
coarse to very coars
low sphericity.

CLAYSTONE: medium
to moderately hard, v
calcareous, silty, micr
pyrite, with thin string
LIMESTONE: light bro
firm, slightly imperviou

TR: SILTSTONE: med
crumbly, poorly ceme
WHITE FAST CUT.

CLAYSTONE: as abov



CLAYSTONE: medium
sticky, amorphous, silt
calcareous in part, py
TR LIMESTONE: light
cryptocrystalline, glau

TR SANDSTONE: yello
firm to moderately ha
grading SILTSTONE,
glauconite. YELLOW F
MODERATE TO SLOW
YELLOW WHITE CUT
RESIDUE, fair to poor

CLAYSTONE: medium
light grey green, soft
hard, amorphous, bloc
part, very silty, occas
SILTSTONE, micromic
part, black specks.
LIMESTONE: buff to
to very hard, cryptoc
TR SANDSTONE: light
loose to firm, modera
very fine sand, silty,
silty matrix, occasiona
glauconite, coal, YELL
WHITE FAST STREA
WHITE RESIDUE, fair

CLAYSTONE: medium
blocky, sticky, non to
silty, occasionally gra
micromicaceous, micro
black specks.

LIMESTONE: light bro
grey, firm to hard, ve
splintery.

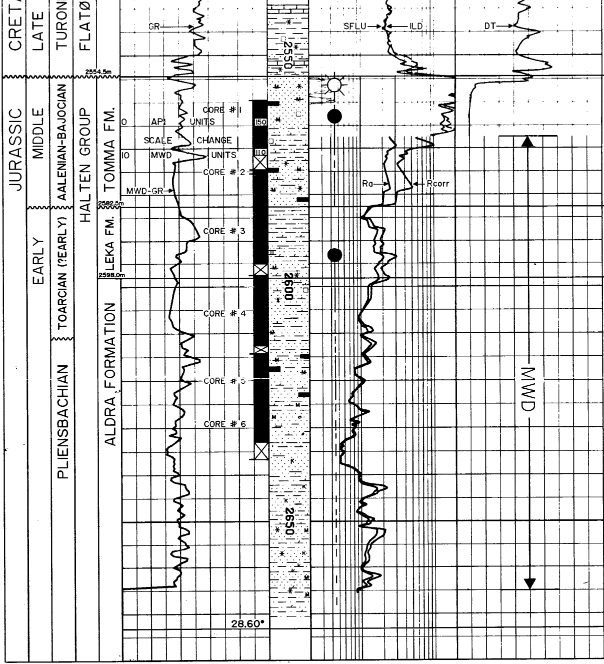
TR SANDSTONE: yello
stain, brown to grey
moderately cemented,
sorted, subangular to
TO CREAM SPOTTY
BRIGHT FLUORESCEN
SLOW BLOOMING TO
CREAM TO WHITE C
RESIDUE FLUORESCE
visible porosity.
TR DOLOMITE: pale
friable to very hard.
TR GLAUCONITE: am

CLAYSTONE: medium
non calcareous, occas
calcareous, micromica

LIMESTONE: off whit
firm to moderately h
occasionally microcrys
TR SANDSTONE: bro
grey, firm, friable, m
silty to argillaceous c
silt, grading argillaceo
angular to subangular.
FAIR YELLOW SHOW
CUT, WEAK WHITE
TR : pyrite nodules,

CLAYSTONE: as abo

LIMESTONE: as abov
TR SANDSTONE: ligh
moderately calcite ce
subangular to subrour
TR: crystalline pyrite,



amorphous glauconite

TOP TOMMA

2554.5m (-2

SANDSTONE: light grey, friable
fine, well sorted, angular to su
translucent to milky grains, hea
slightly silty & argillaceous, blac
(from 2562.5m) UNIFORM ME
FLUORESCENCE, INTERMEDIAT
CREAM TO WHITE CUT, CREA
CALCAREOUS SILTSTONE: ligh
very hard, very calcareous, ar
sand, micropyrite. Show: PATC
FLUORESCENCE, NO CUT.
SANDSTONE: oil stain, light ye
moderately hard, mod to well
cement, subangular to subroun
laminated with Siltstone, calcar

TOP LEKA FM

2582.5m (-2

SILTSTONE: medium to dark g
hard, well cemented, argillaceo
dolomitic & argillaceous in part
fragments, grading to SANDST
MEDIUM TO BRIGHT YELLOW
FAST STREAMING TO BLOOM
CUT, LIGHT YELLOW RESIDU

TOP ALDRA F

2598.0m (-2

SANDSTONE: oil stain in part,
dark grey, firm to very hard,
cemented, dolomitic in part, fir
well sorted, moderate sphericit
silty & argillaceous in parts. Tr
laminations, calcareous, black
UNIFORM-SPOTTY MEDIUM-F
SLOW-INTERMEDIATE-FAST
MEDIUM CREAM CUT, LIGHT
FLUORESCENCE.
SHALE LAMINATED SANDSTO
firm to moderately hard, slight
argillaceous cement, very fine
coarse, subangular to rounded,
occasionally massive, occasion
silty. Tr: mica, coal, pyrite, do
Shale: dark grey brown, firm,
silty. PATCHY-STREAKY MED
FLUORESCENCE, INTERMEDIA
BLOOMING WHITE CUT, CRE
SANDSTONE: (part lam with S
brown, firm to very hard, friab
sorted, subangular to subrounc
argillaceous predominantly kao
specks, dolomitic siltstone in u
UNIFORM-PATCHY BRIGHT-D
YELLOW FLUORESCENCE, FA
EVEN BRIGHT-MEDIUM WHIT
BROWN RESIDUE FLUORESCE
SILTSTONE: green to black, m
poorly cemented, pyrite, trace
fragments.
SANDSTONE: in form of loose
occ pink, medium to coarse, s
fine sandstone, pale brown, wi
STREAMING CUT, POOR CRUS
SANDSTONE: white, clear qua
fine, very well sorted, occasio
occasional dolomitic & calcare
mica, abundant loose sand, ve
to subrounded, poorly sorted,
POOR CREAM FLUORESCENC
SLOW STREAMING FAINT-ME
CRUSH CUT, WHITE-LIGHT Y

TOTAL DEPT

2673.0m (-2

CORE CHIP DESCRIPTION (NON SHIFTED DEPTHS)

CORE NO. 1 Cored 2557.0-2572.0m (15m) Rec 78.7%

2557.0-2567.8m SANDSTONE: lt gy-lt yl, fri, vf-m, pred f, w srtd, A-SA, mod spher, trnsl-milky grs, arg i.p., mica, arg & mica bnds, occ slty, carb specs/coal, pyr, glau, SHOWS from 2561.5m: fnt-m unf crm - wh fluor, slow strmg-intm blmg fnt-m crm-wh cut, crm-wh resd, pred gd vis por.

2567.8-2568.8m CALCAREOUS SILTSTONE: lt-m gy, hd-v hd, v w calc cmtd, f sd, mica, pyr, SHOWS in sdy parts: fnt crm-wh fluor, n-slow fnt cut, n-p vis por, occ fr.

CORE NO. 2 Cored 2572.0-2573.0m (1m) Rec. 85%

2572.0m DOLOMITIC SILTSTONE: dk gy-dk bn, v hd, v w cmtd, dol/calc cmtd, bk specs, vf sd i.p., ? arg, n vis por.

2572.85m SANDSTONE: bn oil stn, fri-lse, f-m, SA-R, w srtd, glau, coal frags, mica, n calc, bri unf yl fluor, fast strmg bri wh cut, lt yl-crm resd, gd vis por.

CORE NO 3 Cored 2573.0-2595.0m (22m) Rec. 88.8%

CORE NO. 4 Cored 2595.0-2611.7m (16.7m) Rec. 90

2595.0-2610.14m SANDSTONE: lt bn oi
lt-dk gy-lt yl-dk b
vf-m, p-w srtd, SA-
v sl calc-v w calc
arg lams, dol i.p.,
specs, calc cmtd fr
unf-ptchy m crm-lt
occ sp, m fast-slow
cut, occ wh, wh-lt
gd-n vis por, SILTS
& 2607.6m: dk gy, f
mass, n-sl calc, mi
sdy in pt, SHALE la
pred m-dk gy, sbfis
Clyst: lt bn-lt gy,
calc.

CORE NO. 5 Cored 2611.7-2622.5m (10.8m) Rec 100

2611.7-2622.54m SANDSTONE intlam w/
lt gy, lt yl, lt-m
lse-v hd, gnly vf-m
srtd, SA-R, occ w-v
gnly n calc, slty i
carb, coal lams i.p
cmt i.p., occ vc sd
of dol cmtd Sst, un
fluor, occ n fluor,

2573.0-2582.9m SANDSTONE w/occ lams SILTSTONE, LIMESTONE & SHALE, Sst:lt bn-lt yl oil stn, lt yl, lt-dk gy, dk gy bn-bn, occ ptch bk, lse-mod hd, occ v hd, pred vf-f, pred w-mod srtd, occ p srtd, SA-SR, n calc-v w calc cmtd, bcmg arg & slty, kao, glau, mica, carb specs, unf-ptch-streaky m-bri yl fluor, fast-slow strmg-blmg bri-fnt wh cut, lt yl resd, exc-n vis por, from 2580.2m:n-p shows, Sltst: dk gy, mod hd, arg, sbfis, occ vf sd, v mica, n calc, Lst lams at 2578.4m: lt gy-wh, v hd.

2582.9-2592.32m SILTSTONE grdg SHALE grdg SANDSTONE at base, Sltst: dk gy-dk gy bn-bn, mod-v hd, v w consol, arg, dol, carb specs, mica, grdg Sh: dk gy-bn, mod hd, sbfis-fis, sl dol, carb frags, Sst: m gy-m yl, m-dk bn, frm, stky, vf & slty, mod srtd, bcmg vf-vc, p srtd, mod consol, mica, pyr, arg, carb frags, bcmg arg/calc cmtd, glau, w/Lst clasts, sp-ptch yl fluor, tr crush cut bcmg fast strmg m wh-crm cut, lt yl resd, fr vis por.

bri-fnt wh-crm cut, bri-fnt wh-crm resd gd-n vis por, Sh: d fis, v mica, occ sl n calc.

CORE NO.6 Cored 2622.5-2634.0m (11.5m) Rec 69%

2622.5-2630.43m SANDSTONE: wh-lt gy hd, pred fri, f, lc srtd, SA-SR, mod sp kao mtx, loc slty, mica i.p., loc sl s cmtd in pt, poss bi dull-bri gold fluor fast strmg-even m-b fnt crush cut-n cut resd, gd-n vis por, SILTSTONE at 2622.5 splty, tube-formed bioturb, fracs w/shc SHALE lams at 2623. bn, fis, mica.