I5 NORSKE SHELL 31/2-13

Geoservices **MASTERLOG** geological evaluation

COMPANY

WELL

Field
State
Location long. lat.
Elevation RT/MSL MSL/SB
RT/GL Alt.
Depth reference ☐RT ☐MSL ☐SB ☐GL
Logging unit type N°
Rig name Type
Drilling contractor

SHEET N°

Logged date from to
Logged depth from to
Engineers

OTHER LOGS

☐ Gaslog from to
☐ Core analysis from to
☐ Geopressure from to

FINAL DATA

Spudding date
Final date
Total depth(TD)
Vertical TD
Horizontal displacement
Azimuth from north

CASING DATA

Diameter shoe at
Diameter shoe at
Diameter shoe at
Diameter shoe at

REMARKS

MUD

W Weight (kg/l)
V Viscosity (sec)
PV Plastic viscosity (cps)
Y Yield point (lbs/100 ft²)
G Gel (lbs/100 ft²)
WL Water loss (cc)
MC Mud cake (mm)
CL Chloride contents (ppm)
Ph Hydrogen potential
Rm Mud resistivity (Ω . m²/m)
Rmf Mud filtrate resistivity (Ω .m²/m)
LC Lost circulation

(volume) Mud loss
(volume) Mud gain

DRILLING

NB New bit
RR Rerun bit
DB Diamond bit
TB Turbo drill
CB Core bit

WOB Weight on bit ( )
RPM Rotation (rpm)
PP Pump pressure ( )
FR Mud flow rate ( )

TG Trip gas
CG Connection gas

(depth) (angle) Deviation survey

LITHOLOGY

Conglomerate
Sand
Sandstone
Clay-claystone-shale
Silt-siltstone
Quartzite
Limestone
Oolitic limestone
Dolomite
Marl
Salt
Anhydrite
Gypsum
Flint-chert
Coal-lignite
Metamorphic rocks (gneiss)
Extrusive rocks (basalt)
Intrusive rocks (granite)
Pyrite
Glauconite
Mica
Fossils in general

CORES

C (core number)
rec (percentage %)
◀ Sidewall core

TESTS

DST (test number)
← FIT
← RFT
○ Dry
⊕ Fresh water
⊕ Salted water (salinity)
● Oil (flow rate)
☼ Gas (flow rate)

DATE | MUD (weight kg/l 1.2 1.4 1.6 1.8; viscosity cps 50 60 70 80; water loss cc 4 8 12 16) | BIT | RATE OF PENETRATION (SCALE 2 meter/hour 10 8 6 4 2 1 0.6 0.4 0.2 0.1; 6 10 20 30 60 100 200 600 min/meter; SCALE 1 meter/hour 100 60 40 20 10 8 6 4 3 2 1; 0.6 1 2 3 6 10 20 40 60 min/meter) | DEPTH meter | CARBONATE ANALYSIS CO_3C_a total carbonates (20 40 60 80) | LITHOLOGY CUTTINGS % (80 60 40 20; 20 40 60 80) | LITHOLOGICAL LOG | FLUO direct cut | HYDROCARBON GAS total gas % equivalent methane (10 50 100; 1 5 10) | cores | tests

SCALE 1/ UNIT : METER
each horizontal division equals meter

DESCRIPTION ENGINEERING REMARKS

I.25
SCALE I
1850
WT? I0
H20
XI6
I2.25
I6/I6/I6
WOB 30-40
RPM I20
PP 3200
SPM I30
4.II.84
I.25
I900
I618
0-I0%
I646

SLTST dk gy earthy non sw
l sft-frm occ((s)) occ(sh
ell frags)((calc))

MRL? pa gy earthy-(ang)br
k non swl sft-sft arg(cru
shed carbonate cemented s
st?)

SLTST dk gy earthy non sw
l sft-frm occ((s))((calc)
)

MALM 0282 Geoservices