

QE18509
2125
v. 2

DOME AIVERK 2-I-45-70-30-133-30

DESCRIPTION OF CONVENTIONAL CORE

3937.0-3941.75 m: medium grey mudstone, 5% mica, subfissile.

3941.75-3941.77 m: medium grey sandy (very fine to fine grained) mudstone.

3941.77-3941.85 m: mudstone as above.

3941.85-3942.55 m: medium grey sandy (very fine to fine grained) mudstone.

3942.55-3942.70 m: sandy (fine to medium grained) mudstone, contorted to dip at a 45 degree angle.

3942.70-3943.90 m: mudstone as above.

NOTE: Dip is variable from 0-30 degrees with 45 degrees at 3942.55-3942.70 m. The strike is also variable.

GULF EI AL. AMAULIGAK I-65-70-10-133-30

DESCRIPTION FOR CORED INTERVAL 3559.6-3570.2 M MEASURED DEPTH,
APPROXIMATELY 3148 M TRUE VERTICAL DEPTH.

3559.6-3561.7 m: lost core.

3561.7-3562.0 m: light brownish grey medium grained sandstone (average grain size 360 micrometres), argillaceous and silty, scattered chert pebbles to 1 cm in size, moderately indurated, minor calcareous cement, vaguely bedded, petroliferous odour.

3562.0-3563.23 m: sandstone as above.

3563.23-3563.80 m: sandstone as above but with rare carbonaceous laminae.

3563.80-3564.45 m: fine grained sandstone (average grain size 240 micrometres), argillaceous, silty, slightly calcareous, abundant dark grey carbonaceous laminae, petroliferous odour.

3564.45-3566.70 m: medium to dark grey argillaceous coarse siltstone.

3566.70-3566.85 m: interlaminated light grey coarse siltstone and medium to dark grey mudstone.

3566.85-3567.25 m: argillaceous coarse siltstone.

3567.25-3567.55 m: coarse siltstone with minor carbonaceous laminae.

3567.55-3567.60 m: very fine grained sandstone (80 micrometre average grain size) with low-angle cross laminae (25 mm set thickness).

3567.60-3569.20 m: interlaminated light grey coarse siltstone and dark grey mudstone with minor very fine grained sandy lenses, soft sediment deformation.

NOTE: Only 7.35 of the 10.6 m were recovered as follows:

Box 1	3559.6-3560.2 m	Cut 0.6 m, Recovered 0.0 m
Box 2	3560.2-3561.7 m	Cut 1.5 m, Recovered 0.0 m
Box 3	3561.7-3563.2 m	Cut 1.5 m, Recovered 1.35 m
Box 4	3563.2-3564.7 m	Cut 1.5 m, Recovered 1.5 m
Boxes 5-7	Recovered all core	
Box 8	3569.2-3570.2 m	Cut 1.0 m, Recovered 0.0 m

DOME HUNT GULF KODAKOAK 0-22-70-30-134-00

DESCRIPTION FOR CORE #1

3484.65-3490.85 m: medium-dark grey mudstone with hackly parting, sandy with trace brown siderite laminae to 1 cm thick, moderately bioturbated, thin sandy lenses.

3490.85-3490.95 m: light brown very fine grained sandstone, oil stained.

3490.95-3491.62 m: mudstone with minor sandy lenses and traces of sand-filled burrows.

3491.62-3491.71 m: fine grained sandstone (average grain size 240 micrometres), at least 30% porosity, oil stained.

3491.71-3491.83 m: interlaminated sandstone and mudstone.

3491.83-3492.55 m: interlaminated sandstone and mudstone, in part disrupted.

3492.55-3492.63 m: light brown fine grained sandstone, porous, poorly indurated, oil stained.

3492.63-3492.71 m: sandstone.

3492.71-3492.93 m: sandstone with either mudstone intraclasts to 3 cm in size or disrupted bedding.

IOE MALLIK L-38-69-30-134-30

DESCRIPTION OF CORE #1

919.28-922.32 m (3016-3026 ft.): One box of unconsolidated and disaggregated fine-medium grained sand was recovered. In addition, 4 grey black rounded chert pebbles to 15 cm in size were observed, as well as a moderately sorted and moderately indurated calcite-cemented chert pebble conglomerate.

IOE TAGLU H-54-69-30-134-45

DESCRIPTION OF JUNK BASKET CORE RECOVERED IN THE INTERVAL 1104.3-1105.2 M (3623-3626 FT.)

0.00-0.13 m: light grey salt and pepper medium sandstone (400 micrometre average grain size), no reaction to 10% HCL.

0.13-0.44 m: light to medium grey fine to very coarse grained sandstone with abundant rip-up clasts to 3 cm in size, mainly composed of chert clasts but carbonaceous clasts (5%) are also present, in part soft sediment deformation, carbonized roots to 10 cm long and 2 cm wide.

Note: Only 0.44 m (17.5 inches) of core was recovered.

IOE TAGLU WEST P-03-69-30-135-00

DESCRIPTION OF CORE #1

1478.28-1485.90 m (4850-4875 ft.): mudstone, hackly parting, no sand.

GULF EI AL. W. TARSUUT P-45-70-00-136-15

DESCRIPTION FOR CORE #1

2474.3-2474.8 m: medium grey argillaceous mudstone.

2474.8-2475.0 m: muddy very fine sandstone.

2475.0-2475.8 m: medium grey argillaceous siltstone.

2475.8-2476.2 m: muddy very fine sandstone.

2476.2-2476.5 m: mudstone as above.

2476.5-2477.4 m: muddy very fine sandstone.

2477.4-2477.8 m: mudstone as above.

2477.8-2481.0 m: muddy very fine sandstone as above.

2481.0-2481.8 m: mudstone as above.

2481.8 m: bottom of core.

SUN BVX EI AL. UNARK L-24-69-40-134-30

DESCRIPTION OF CONVENTIONAL CORE

2731.01-2731.31 m (8960-8961 ft.): fine sandstone, salt and pepper, average grain size 160 micrometres, argillaceous, silty and micaceous with thin dark grey carbonaceous laminae, scattered chert pebbles to 8 mm in size, subhorizontal lamination.

2731.31-2731.47 m (8961.0-8961.5 ft.): fine sandstone, average grain size 160 micrometres, as above but low-angle cross-bedding.

2731.47-2731.83 m (8961.5-8962.7 ft.): medium grey silty (coarse) mudstone, subhorizontal thin carbonaceous laminae.

2731.83-2731.92 m (8962.7-8963 ft.): as above but with fine grained sandstone laminae.

2731.92-2731.95 m (8963-8963.1 ft.): fine sandstone (200 micrometre average grain size), silty, argillaceous, estimated 5% coal fragments, low-angle cross-bedding.

2731.95-2732.17 m (8963.1-8963.8 ft.): mudstone as above with minor 2 cm thick sandy beds.

2732.17-2732.20 m (8963.8-8963.9 ft.): fine sandstone (200 micrometre average grain size), 20% black chert, cross-bedded.

2732.20-2732.53 m (8963.9-8965.0 ft.): medium grey mudstone, coaly fragments to 5 mm in size, subhorizontal laminae.

2732.53-2732.71 m (8965.0-8965.6 ft.): medium grey mudstone with thin sandy laminae.

2732.71-2732.78 m (8965.6-8965.8 ft.): fine sandstone (200 micrometre average grain size), accentuated by carbonaceous films.

2732.78-2732.93 m (8965.8-8966.3 ft.): interlaminated very fine to fine grained sandstone and mudstone.

2732.93-2733.45 m (8966.3-8968.0 ft.): mudstone with minor very fine to fine grained sandstone laminae.

2733.45-2733.60 m (8968-8968.5 ft.): fine to medium grained sandstone, silty and argillaceous, rare thin argillaceous subhorizontal laminae, minor bioturbation, rip-up clasts to 2 cm in size.

2733.60-2734.67 m (8968.5-8972.0 ft.): light to medium grey mudstone with scattered chert pebbles, carbonaceous and contains coaly fragments.

2734.67-2734.97 m (8972.0-8973.0 ft.): mudstone as above.

2734.97-2735.12 m (8973.0-8973.5 ft.): sandy mudstone with minor fine to medium grained sandstone laminae.

2735.12-2735.37 m (8973.5-8974.3 ft.): mudstone as above, subhorizontally stratified, common coal fragments.

2735.37-2735.88 m (8974.3-8976.0 ft.): sandy (very fine to fine grained) mudstone with thin sandstone laminae, minor cross-bedding and intraclasts to 2 cm in size.

2735.88-2736.19 m (8976.0-8977.0 ft.): sandy (very fine to fine grained) mudstone with minor sandstone laminae.

2736.19-2738.02 m (8977.0-8983.0 ft.): missing core.

2738.02-2738.93 m (8983.0-8986.0 ft.): mudstone with minor sandstone laminae.

2738.93-2738.96 m (8986.0-8986.1 ft.): medium sandstone.

2738.96-2739.54 m (8986.1-8988.0 ft.): mudstone as above.

2739.54-2739.69 m (8988.0-8988.5 ft.): mudstone with 20% sandstone laminae.

2739.69-2739.76 m (8988.5-8988.7 ft.): medium sandstone (300 micrometre average grain size), kaolinite cement.

2739.76-2740.76 m (8988.7-8992.0 ft.): mudstone with minor very fine to medium grained sandstone laminae.

2740.76-2743.81 m (8992.0-9002 ft.): lost core.