

















# MAIN MAP AND GEOLOGY - 1 of 2


## Well Symbolology

-  Well with Digest Article Link
-  Well with DST Data





## Well Status

-  Drilling
-  Dry
-  Gas
-  Gas Shows
-  Gas with Oil Shows
-  Gas/Condensate
-  Junked and Abandoned
-  Oil
-  Oil Shows
-  Oil with Gas Shows
-  Oil/Gas
-  Oil/Gas Shows
-  Shows
-  Tight





## Unreleased Well with Commentary (Spud Year)

-  2012
-  2011
-  2010
-  2009
-  2008
-  2007
-  2006












## Pipelines

-  Oil
-  Gas
-  Oil/Gas
-  Condensate










## Licences, Quadrants and Blocks

-  Stratigraphic Split
-  Production Licence
-  Quadrants
-  Blocks and Part-Blocks

## Structure and Features

-  Normal Fault
-  Reverse Fault
-  Anticlinal Axis Fault
-  Synclinal Axis Fault
-  Sole Pit Inversion Axis
-  Salt Domes
-  Tertiary Volcanics and Intrusive Centres
-  Limit of Tertiary Volcanics
-  Granite
-  Transfers
-  Coastline

## Main Geology

-  Intra-basinal Highs
-  Jurassic Mature for Gas or Overmature
-  Jurassic Mature for Oil Generation
-  Jurassic Present but Immature
-  Permo-Triassic Basins with Jurassic Absent or Thin
-  Basement/L.Palaeozoic Platform
-  Upper Jurassic Shale Presence Uncertain
-  Subcrop of Permo-Triassic Sediments Older than the Mercia Mudstone
-  Base Paleocene in Gas Window

## MAIN MAP AND GEOLOGY - 2 of 2

### Field Labels (Status)

*FIELD* Producing or Under Development

*FIELD* Undeveloped

*FIELD* Shut-in / Depleted

### Field Outlines (Hydrocarbon Type)

 Oil

 Gas

 Oil/Gas

 Condensate


### Field Fills (Stratigraphic Interval)


 Pleistocene

 Pliocene

 Oligocene

 Tertiary

 Eocene


 Eocene; Oligocene

 Westphalian B

 Paleocene


 Upper Paleocene

 Cretaceous


 Upper Cretaceous and Danian Chalk


 Upper Cretaceous


 Lower Cretaceous

 Jurassic

 Upper Jurassic

 Upper Jurassic (shallow water sands)

 Upper Jurassic (deep water sands)

 Middle Jurassic

 Lower Jurassic

 Triassic

 Upper Triassic


 Middle Triassic

 Lower Triassic

 Pre-Triassic


 Upper Permian

 Lower Permian


 Upper Carboniferous

 Upper Carboniferous (Westphalian)

 Upper Carboniferous (Namurian)




 Lower Carboniferous

 Devonian

 Pre-Devonian

## **EAST AND WEST OF SHETLANDS RESERVOIR LAYERS - 1 of 4**

### **M Eocene - L Oligocene Stronsay Group**

-  M Eocene - L Oligocene Shelf Edge
-  M Eocene - L Oligocene Base of Slope
-  Deltaic Sands
-  Non Reservoir
-  Slope Sands
-  Basin Floor Sands








### **L Eocene Stronsay Group**

-  L Eocene (Frigg-L.Stronsay) Shelf Edge
-  L Eocene (Frigg-L.Stronsay) Base of Slope
-  Shallow Water Sandstone
-  Deep Water Sandstone
-  Non Reservoir





### **L Eocene Moray Grp to Balder Fm**

-  Deep Water Sandstone
-  Shallow Water/Deltaic Sandstone
-  Marginal Reservoir
-  Non Reservoir (claystone)
-  Non Reservoir
-  Tuff/Tuffaceous Claystone
-  Condensed Facies (<50ft)











### **U Paleocene (T40-T45 Sele-Flett)**

-  U Paleocene (Flett Fm) Basalt Edge
-  U Paleocene (T40-T45 Sele-Flett) Shelf Edge
-  Deep Water Sandstone
-  Shallow Water/Deltaic Sandstone
-  Tuff/Tuffaceous Claystone
-  Condensed Facies (<50ft)
-  Non Reservoir

### **U Paleocene (T36-T38 U Lista-Lamba)**

-  U Paleocene (T36-T38 U Lista-Lamba) Shelf Edge
-  Deep Water Sandstone
-  Condensed Facies (<50ft)
-  Non Reservoir

### **Wells**

-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

## **EAST AND WEST OF SHETLANDS RESERVOIR LAYERS - 2 of 4**





### **U Paleocene (T31-T36 L Lista-U Vaila)**

-  U Paleocene (T31-T36 L Lista-U Vaila) Shelf Edge
-  Deep Water Sandstone
-  Shallow Water Sandstone
-  Condensed Facies (<50ft)
-  Non Reservoir







### **U Paleocene (T22-T28 Lista-L Vaila)**

-  U Paleocene (T22-T28 Lista-L Vaila) Shelf Edge
-  Deep Water Sandstone
-  Shallow Water Sandstone
-  Condensed Facies (<50ft)
-  Non Reservoir





### **L Paleocene (Maureen-Sullom Fm)**

-  Deep Water Sandstone
-  Shallow Water Sandstone
-  Condensed Facies (<50ft)
-  Non Reservoir





### **Upper Cretaceous - Basal Paleocene**

-  Upper Cretaceous Limit of Ekofisk
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Cenomanian / Turonian Ssts. Locally Developed
-  Condensed Facies (<50ft)











### **Lower Cretaceous (Apto-Albian)**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies (<50ft)

### **Lower Cretaceous (Ryazanian-Barremian)**









-  Reservoir
-  Local Reservoir Development Inferred
-  Non Reservoir
-  Condensed Facies (<50ft)

### **Wells**











-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

## **EAST AND WEST OF SHETLANDS RESERVOIR LAYERS - 3 of 4**







### **Upper Jurassic (Upper Kimmeridgian-Ryazanian)**

-  Shallow Water Deltaic
-  Deep Water Sandstone
-  Reservoir Undifferentiated (West of Shetland)
-  Reservoir Developed Locally Over Intra-Basinal High (W of Shetland)
-  Reservoir Developed Along Flanks of High (W of Shetland)
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies (<50ft)

### **Wells**

-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data



### **Upper Jurassic (Oxfordian-Lower Kimmeridgian)**

-  Deep Water Sandstone
-  Reservoir Undifferentiated (West of Shetland)
-  Reservoir Developed Locally Over Intra-Basinal High (W of Shetland)
-  Reservoir Developed Along Flanks of High (W of Shetland)
-  Non Reservoir
-  Condensed Facies (<50ft)

### **Middle Jurassic**

-  Aalenian Reservoir
-  Aalenian-Bajocian Reservoir
-  Bathonian Reservoir
-  Callovian Reservoir
-  Bathonian Bajocian (overlying/stacked)
-  Bathonian Callovian Bajocian (overlying/stacked)
-  Callovian Bajocian (overlying/stacked)
-  Callovian Bathonian (overlying/stacked)
-  Non Reservoir

### **Lower Jurassic**

-  Non Reservoir
-  Reservoir

# EAST AND WEST OF SHETLANDS RESERVOIR LAYERS - 4 of 4

## Triassic

- Permo-Triassic Undifferentiated
- Reservoir

## Upper Permian

- Permo-Triassic Undifferentiated
- Reservoir
- Carbonate-Anhydrite
- Halite
- Non-Reservoir

## Lower Permian

- Permo-Triassic Undifferentiated
- Reservoir
- Non-Reservoir

## Devonian-Carboniferous

- Devonian-Carboniferous (Old Red Sst)
- Devonian-Carboniferous (Old Red Sst Granite)

## Wells







- Reservoir
- Marginal Reservoir
- Non-Reservoir
- Condensed (< 50 ft)
- Absent at Seafloor
- Absent (unconformity)
- Absent (fault)
- No Returns
- Not Reached
- No Data

## Basement Penetration Wells








- Metasediment
- Granite
- Basalt / Diorite
- Gabbro
- Gneiss
- Schist
- Not Reached
- No Data

## **CENTRAL NORTH SEA RESERVOIR LAYERS - 1 of 4**







### **Eocene (Stronsay Grp)**

-  Eocene Base of Slope
-  Eocene Shelf Edge
-  Eocene Subcrops Quaternary
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir







### **L Eocene (Upper Moray Grp - Balder Fm)**

-  Eocene Base of Slope
-  Eocene Shelf Edge
-  Lower Eocene Subcrops Quaternary
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies








### **Upper Paleocene (Lower Moray Grp - Sele Fm)**

-  Upper Paleocene (Lower Moray Grp-Sele Fm) Shelf Edge
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies
-  Subcrop













### **Upper Paleocene (Upper Montrose Grp - Lista Fm)**

-  Upper Paleocene (Upper Montrose Grp - Lista Fm) Shelf Edge
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies
-  Subcrop

### **Lower-Upper Paleocene (Lower Montrose Grp - Maureen Fm)**




-  Lower-Upper Paleocene (Lower Montrose Grp - Maureen Fm) Shelf Edge
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies
-  Limestone
-  Subcrop

### **Wells**





-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Limestone
-  Volcanics
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

## **CENTRAL NORTH SEA RESERVOIR LAYERS - 2 of 4**




### **Upper Cretaceous Lower Paleocene Chalk**

-  Limit of Ekofisk Formation
-  Chalk Distribution
-  Ekofisk Only





### **Lower Cretaceous (Apto - Albian)**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies

### **Lower Cretaceous (Upper Valanginian-Barremian)**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies

### **Lower Cretaceous (Ryazanian-Lower Valanginian)**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies















### **Upper Jurassic (Late Kimmeridgian-Ryazanian)**

-  Upper Jurassic (Late Kimm-Ryaz) Sediment Transport Point
-  Shallow Water Sand
-  Deep Water Sand
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies

### **Upper Jurassic (Oxfordian-Kimmeridgian)**






-  Shallow Water Sand
-  Deep Water Sand
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies

### **Wells**





-  Reservoir
-  Shallow Water Sand
-  Deep Water Sand
-  Marginal Reservoir
-  Non-Reservoir
-  Limestone
-  Volcanics
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

# **CENTRAL NORTH SEA RESERVOIR LAYERS - 3 of 4**




## **Middle Jurassic**

-  Limit of Rattray/Ron Volcanics
-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Rattray/Ron Volcanics




## **Lower Jurassic**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Condensed Facies

## **Middle Upper Triassic**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir


## **Lower Triassic**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir


















## **Upper Permian**

-  Reservoir
-  Marginal Reservoir
-  Non Reservoir
-  Carbonate-Anhydrite
-  Halite

## **Lower Permian**



-  Volcanics
-  Reservoir
-  Marginal Reservoir
-  Volcanics

## **Wells**













-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Limestone
-  Dolomite
-  Anhydrite
-  Anhydrite/Dolomite
-  Anhydrite/Halite
-  Halite
-  Volcanics
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

## CENTRAL NORTH SEA RESERVOIR LAYERS - 4 of 4













### Pre Permian

-  Carboniferous (Coal Measure)
-  Carboniferous (Firth Coal Fm)
-  Carboniferous (Tayport Fm)
-  Devonian / Old Red Sandstone
-  Caledonian Granite
-  Undiff. Paleozoic Metamorphics

### Pre-Permian Subcrop Wells

-  Carboniferous (undiff.)
-  Upper Carboniferous
-  Coal Measures
-  Firth Coal Formation
-  Lower Carboniferous
-  Old Red Sandstone
-  Middle Devonian Limestone
-  Dalradian Basement
-  Caledonian Basement
-  Granite Basement
-  Not Reached
-  No Data

### Carboniferous and Devonian Wells

-  Reservoir
-  Marginal Reservoir
-  Non-Reservoir
-  Limestone
-  Volcanics
-  Condensed (< 50 ft)
-  Absent at Seafloor
-  Absent (unconformity)
-  Absent (fault)
-  No Returns
-  Not Reached
-  No Data

### Basement Penetration Wells

-  Metasediment
-  Granite
-  Basalt
-  Gneiss
-  Schist
-  Not Reached
-  No Data

# **SOUTHERN NORTH SEA RESERVOIR LAYERS - 1 of 4**

## **Lower Triassic Southern North Sea**

- ◆ Bunter Wells
- ◇ Absent / No Sand Developed

### Bunter Sandstone Fm. Gross Thickness (C.I. 200 ft)

- 200
- 400
- 600
- 800
- 1000
- 1200

- Northern Limit of Hewett Sandstone Member
- Bunter Subcrop
- Proximal Fluvial Braid Plain Facies (High Net/Gross)
- Distal Fluvial Flood Plain Facies (Low Net/Gross)

## **Lower Triassic East Irish Sea**

- ◆ Sherwood (Orms./St.B) Wells
- ◇ Absent
- 81 Thickness of Sherwood Sandstone Grp (ft)
- Sherwood Sandstone Group Subcrop
- Sherwood Sandstone at Seafloor

## **Upper Permian Z3 North Sea**

- ◆ Z3 Plattendolom Wells
- ◇ Absent / Undiff

### Plattendolomit Gross Thickness (C.I. 50 ft)

- 0
- 50
- 100
- 150
- 200
- 250
- 300

- Basinal Facies (<50 ft)
- Shelfal/Shoal Facies (>50 ft)
- Marginal Clastic Facies

## **Upper Permian Z2 North Sea**

- ◆ Z2 Hauptdolomi Wells
- ◇ Absent / Undiff

### Hauptdolomit Gross Thickness (C.I. 50 ft)

- 0
- 50
- 100
- 150
- 200
- 250

- Basinal Facies (<50 ft)
- Shelfal/Shoal Facies (>50 ft)

## **Upper Permian Z1 North Sea**

- ◆ Z1 Zechsteinkalk Wells
- ◇ Absent / Undiff

### Zechsteinkalk Gross Thickness (C.I. 50 ft)

- 0
- 30
- 50
- 100
- 150
- 200
- 250





- Basinal Facies (<50 ft)
- Shelfal/Shoal Facies (>50 ft)
- Marginal Clastic Facies

## **Upper Permian Z3, Z2 and Z1 Irish Sea**
















- 81 Thickness of Upper Permian (ft)
- Sandstone
- Silty Sandstone
- Mudstone with Thin Interbedded Anhydrite/Halite
- Thick Halite
- Upper Permian Subcrops Sea Floor

## **SOUTHERN NORTH SEA RESERVOIR LAYERS - 2 of 4**






### **Lower Permian North Sea**

-  Leman Wells
-  Absent
-  Southern Limit of Silverpit Formation
-  Limit of Silverpit Halite

#### Leman Sandstone Gross Isopach (C.I. 100 ft)

-  0
-  50
-  100
-  200
-  300
-  400
-  500
-  600
-  700
-  800
-  900
-  Total Isopach Upper & Lower Leman Sandstone
-  Lower Leman Isopach
-  Leman Sandstone Formation
-  Silverpit Formation (no significant sand devpt.)











### **Thermal Maturity of Carboniferous at Base Permian**

-  Immature
-  Mature for Oil Generation
-  Early Mature for Gas
-  Peak Mature for Gas Generation (Ro 1.2 - 2.0)
-  Late to Post Mature for Gas Generation (Ro > 2.0)

### **Lower Permian Irish Sea**


































**81** Thickness of Lower Permian (ft)

#### Gross Lower Permian Isopach (C.I. 500 ft)
















-  500
-  1000
-  1500
-  2000
-  2500
-  Sandstone Facies
-  Sandstone/Siltstone
-  Siltstone/Claystone
-  Conglomerate (Brockham Facies)
-  Lower Permian Subcrops Sea Floor

## **SOUTHERN NORTH SEA RESERVOIR LAYERS - 3 of 4**













### **Pre Permian Subcrop Wells (Southern North Sea)**

-  Basal Westphalian A
-  Carboniferous (undiff)
-  Devonian?
-  Dinantian
-  Dinantian (Arnsbergian / Brig)
-  Dinantian (Early-Mid Briganti)
-  Late Devonian (Fammenian)
-  Late Westphalian B
-  Latest Westphalian A
-  Namurian
-  Namurian (Choikerian)
-  Namurian (Kinderscoutian)
-  Namurian (Marsdenian)
-  Namurian (Marsdenian-Yeadonia)
-  Namurian (Pendelian / Arnsber)
-  Namurian (Pendelian)
-  Namurian (undiff)
-  Namurian A
-  Namurian B
-  Namurian B-C
-  Namurian C (Yeadonian)
-  Tournaisian
-  Visean
-  Westphalian (undiff)
-  Westphalian A
-  Westphalian A - Namurian B
-  Westphalian A / B
-  Westphalian A or Namurian
-  Westphalian B
-  Westphalian B?
-  Westphalian C
-  Westphalian C / D
-  Westphalian D
-  Westphalian D?

### **Pre Permian Subcrop Wells (Irish Sea)**

-  Carboniferous (undiff)
-  Dinantian
-  Earliest Westphalian A
-  Early Palaeozoic
-  Namurian
-  Namurian (Early Pendelian)
-  Namurian (Pendelian)
-  Namurian A/B (Kinderscoutia)
-  Namurian B
-  Namurian B (Kinderscoutian)
-  Namurian B/C
-  Stephanian / Westphalian D
-  Westphalian (undiff)
-  Westphalian A
-  Westphalian B

### **Pre Permian Subcrop**

-  Hewett Wells
-  Collyhurst Wells
-  Zechstein Wells
-  Absent
-  Westphalian C/D
-  Westphalian B
-  Westphalian A
-  Namurian
-  Dinantian
-  Devonian
-  Lower Palaeozoic
-  Undifferentiated

## **SOUTHERN NORTH SEA RESERVOIR LAYERS - 4 of 4**

### **Upper Westphalian C-D**

🟡 Upper Westphalian C/D Wells

⬜ Absent

**1099** Spot Thickness (ft)

Upper Westphalian Gross Thickness (C.I. 500 ft)

— 0

— 500

— 1000

— 1500

🟡 Distribution of Westphalian C/D

### **Lower Westphalian A-B**

🟡 Lower Westphalian A/B Wells

⬜ Absent

**1089** Thickness of Westphalian A/B (ft)

> <sup>602</sup> Thickness of Partial Penetration of Westphalian A/B (ft)

---- Westphalian A/B Gross Sand Percentage (from Collinson et. al. 1993)

— Approx Depositional Limit of Murdoch Sandstone (from Conway and Valvante 2003)

🟡 Westphalian A/B Subcrops + Westphalian C/D

🟠 Westphalian B Subcrops Base Permian

🟡 Westphalian A Subcrops Base Permian

### **Namurian**

🟡 Namurian Wells

⬜ Absent

**1089** Drilled Thickness (ft) and Stages Encountered

---- Namurian A/C Gross Sand Percentage (from Collinson et. al. 1993)

🟠 Namurian Subcrops/Westphalian

🟡 Namurian Subcrops/Permian/Post-Permian

### **Dinantian**

🟡 Pre-Namurian Wells

**1089** Drilled Thickness (ft) and Stages Encountered

— Approx Limit of Fell Sandstone

🟠 Dinantian Subcrops Upper Carboniferous

🟡 Dinantian Subcrops Permian/Post-Permian

**LICENCE OPERATOR NAMES AND ABBREVIATIONS:**

AIMWL	AIMWELL ENERGY LIMITED
AMOCO	AMOCO (U.K.) EXPLORATION COMPANY
AMOCO	AMOCO U.K. PETROLEUM LIMITED
ANTRM	ANTRIM RESOURCES (N.I.) LIMITED
APCHE	APACHE NORTH SEA LIMITED
ARCO	ARCO BRITISH LIMITED
ATP	ATP OIL & GAS (UK) LIMITED
AUROR	AURORA PRODUCTION (UK) LIMITED
BAYGS	BAYERNGAS E & P LIMITED
BAYGS	BAYERNGAS EUROPE LIMITED
BG	BG GROUP
BG	BG INTERNATIONAL (CNS) LIMITED
BG	BG INTERNATIONAL (NSW) LIMITED
BG	BG INTERNATIONAL LIMITED
BHP	BHP BILLITON PETROLEUM LIMITED
BKSAP	BLACK SAPPHIRE RESOURCES LTD
BP	BP
BP	BP EXPLORATION (ALPHA) LIMITED
BP	BP EXPLORATION BETA LIMITED
BP	BP EXPLORATION OPERATING COMPANY LIMITED
BRDGE	BRIDGE
BRDGE	BRIDGE NORTH SEA (CENTRAL) LIMITED
BRDGE	BRIDGE NORTH SEA LTD.
BRDGE	BRIDGE ENERGY (CNS) LIMITED
BRDGE	BRIDGE ENERGY (SNS) LIMITED
BRIT	BRIT OIL PUBLIC LIMITED COMPANY
BURL	BURLINGTON RESOURCES (IRISH SEA) LIMITED
CAITH	CAITHNESS OIL LIMITED
CARIZ	CARRIZO OIL & GAS, INC.
CENT	CENTRICA
CENT	CENTRICA NORTH SEA GAS LIMITED
CENT	CENTRICA OFFSHORE UK LIMITED
CENT	CENTRICA RESOURCES LIMITED
CHALL	CHALLENGER MINERALS (NORTH SEA) LIMITED
CHEV	CHEVRON
CHEV	CHEVRON NORTH SEA LIMITED
CHRY	CHRYSAOR LIMITED
CNPIL	CONOCOPHILLIPS (U.K.) LIMITED
CNPIL	CONOCOPHILLIPS PETROLEUM COMPANY U.K. LIMITED
CNPIL	CONPHIL
CNR	CNR INTERNATIONAL (U.K.) LIMITED
CORSR	CORSAIR PETROLEUM (24TH ROUND) LIMITED
DANA	DANA
DANA	DANA PETROLEUM (BVUK) LIMITED
DANA	DANA PETROLEUM (E&P) LIMITED
DEO	DEO PETROLEUM U.K. LIMITED
DETNO	DET NORSKE
DNO	DNO UK LIMITED
DONG	DONG

DONG	DONG E&P (UK) LIMITED
ECHO	ECHO EXPLORATION LIMITED
EDISN	EDISON
ELF	ELF EXPLORATION UK LIMITED
ELIXR	ELIXIR PETROLEUM (EUROPE) LTD.
ENC	ENCORE (NNS) LIMITED
ENC	ENCORE GAS STORAGE LIMITED
ENC	ENCORE PETROLEUM LIMITED
ENDEV	ENDEAVOUR ENERGY UK LIMITED
ENI	ENI
ENI	ENI HEWETT LIMITED
ENI	ENI UK LIMITED
ENI	ENI ULX LIMITED
ENI	ENI TNS LIMITED
ENQST	ENQUEST DONS LIMITED
ENQST	ENQUEST HEATHER LIMITED
ENQST	ENQUEST THISTLE LIMITED
ENRES	ENERGY RESOURCE TECHNOLOGY (U.K.) LIMITED
ENT	ENTERPRISE OIL LIMITED
EOG	EOG RESOURCES UNITED KINGDOM LIMITED
EON	E.ON RUHRGAS UK E&P LIMITED
EON	E.ON RUHRGAS UK EU LIMITED
EON	RUHRGAS
ESSO	ESSO
FAIR	FAIRFIELD ACER LIMITED
FAIR	FAIRFIELD CEDRUS LIMITED
FAIR	FAIRFIELD FAGUS LIMITED
FAIR	FAIRFIELD BETULA LIMITED
FAROE	FAROE PETROLEUM (U.K.) LIMITED
FINA	FINA PETROLEUM DEVELOPMENT LIMITED
FINA	FINA EXPLORATION LIMITED
FIRST	FIRST OIL EXPRO LIMITED
FOCUS	FOCUS ENERGY LIMITED
FRONT	FRONT
GDF	GDF SUEZ
GDF	GDF SUEZ E&P UK LTD
GRNBY	GRANBY (TRISTAN) LIMITED
GTO	GTO LIMITED
HANNU	HANNU NORTH SEA LIMITED
HANSA	HANSA HYDROCARBONS LIMITED
HESS	HESS LIMITED
HESS	AMERADA
HOLYW	HOLYWELL RESOURCES LIMITED
HRL	HYDROCARBON RESOURCES LIMITED
HURIC	HURRICANE EXPLORATION PLC
IDEMI	IDEMITSU
IGAS	IGAS EXPLORATION UK LIMITED
IONA	IONA ENERGY COMPANY (UK) LIMITED
IRAN	IRANIAN OIL COMPANY (U.K.) LIMITED
ITHCA	ITHACA ENERGY (UK) LIMITED

LOTOS	LOTOS
LUNDN	LUNDIN
MAHON	MAHONA ENERGY LIMITED
MAR	MARATHON
MAR	MARATHON OIL U.K., LTD.
MAR	MARATHON OIL NORTH SEA (G.B.) LIMITED
MARIN	MARINER EXPRO NORTH SEA LIMITED
MARSK	MAERSK
MARSK	MAERSK OIL EXPLORATION UK LIMITED
MARSK	MAERSK OIL NORTH SEA UK LIMITED
MARSK	MAERSK OIL UK LIMITED
MOBIL	MOBIL NORTH SEA LLC
MPX	MPX NORTH SEA LIMITED
NAUTL	NAUTICAL PETROLEUM PLC
NEXEN	NEXEN
NEXEN	NEXEN EXPLORATION U.K. LIMITED
NEXEN	NEXEN PETROLEUM U.K. LIMITED
NIPPN	JX NIPPON EXPLORATION AND PRODUCTION (U.K.) LIMIT
NIPPN	NIPPON OIL EXPLORATION AND PRODUCTION U.K. LIMITED
NOBLE	NOBLE ENERGY (OILEX) LIMITED
NOREC	NORECO
NORFK	NORFOLK RESOURCES UK LIMITED
NORTH	NORTH ENERGY
OMV	OMV
OMV	OMV (U.K.) LIMITED
PA	PA RESOURCES UK LIMITED
PERCO	PERENCO GAS (UK) LIMITED
PERCO	PERENCO UK LIMITED
PETCN	PETROCAN
PETCN	PETRO-CANADA UK LIMITED
PETCN	PETRO-CANADA (UK) LIMITED
PREM	PREMIER
PREM	PREMIER OIL EXPLORATION LIMITED
PREM	PREMIER OIL ONS LIMITED
PREM	PREMIER OIL UK LIMITED
REACH	REACH EXPLORATION (UK) LIMITED
REAP	REAP U.K. (2) LIMITED
REAP	REAP U.K. (3) LIMITED
REPSL	REPSOL
ROCKS	ROCKSOURCE
ROCKS	ROCKSOURCE UK LIMITED
RWE	RWE DEA UK SNS LIMITED
RWE	RWE-DEA
SABLE	SABLE ENERGY (UK) LIMITED
SAGEX	SAGEX PETROLEUM UK LIMITED
SERCA	SERICA ENERGY (UK) LIMITED
SHELL	SHELL
SHELL	SHELL U.K. LIMITED
SHELL	SHELL EP OFFSHORE VENTURES LIMITED
SILV	SILVERSTONE CNS LIMITED

SPRNG	SPRING
STAT	STATOIL
STAT	STATOIL (U.K.) LIMITED
STER	STERLING RESOURCES (UK) LIMITED
STRAT	STRATIC ENERGY (UK) LIMITED
SUMIT	SUMMIT PETROLEUM LIMITED
SUNCR	SUNCOR ENERGY UK LIMITED
SUSEX	SUSSEX ENERGY LIMITED
SWIFT	SWIFT EXPLORATION LIMITED
TALIS	TALISMAN
TALIS	TALISMAN ENERGY (UK) LIMITED
TALIS	TALISMAN NORTH SEA LIMITED
TAQA	TAQA BRATANI LIMITED
TOTAL	TOTAL
TOTAL	TOTAL E&P UK LIMITED
TRAP	TRAP OIL LTD
TULLW	TULLOW OIL SK LIMITED
VALNT	VALIANT CAUSEWAY LIMITED
VALNT	VALIANT EXPLORATION LIMITED
VENT	VENTURE NORTH SEA GAS LIMITED
VENT	VENTURE NORTH SEA OIL LIMITED
VERIT	VERITAS GEOPHYSICAL LIMITED
VNG	VNG
VOLAN	VOLANTIS EXPLORATION LIMITED
WNTSH	WINTERSHALL
WNTSH	WINTERSHALL (E&P) LIMITED
WNTSH	WINTERSHALL NOORDZEE B.V.
XCITE	XCITE ENERGY RESOURCES LIMITED
ZEUS	ZEUS PETROLEUM LIMITED