

Jeremy Daines

Objective	Provision of operational & studies petrophysical expertise in oil & gas exploration, appraisal & development. This includes extensive multi-discipline experience in well-planning, operations, integrated studies, capturing uncertainty, data acquisition, unitisation/redetermination & reserves assessment.		
Attributes	<ul style="list-style-type: none">▪ Wide international experience of all conventional reservoir types built up through 30+ years working in Operations, Exploration, Appraisal and Development projects.▪ Highly professional, honest, well organised, positive, disciplined, responsible, flexible & punctual.▪ Excellent inter-personal & presentation skills, especially with different nationalities or cultures.▪ Self-critical lead, team or individual worker who is open to ideas & improvement.▪ Primary expertise with Geolog & Terrascience software. Some use of Interactive Petrophysics plus exposure to Techlog & PowerLog software.▪ Strengths include: Team builder, mentoring, staff development, analytical, strategic, responsibility, belief & ideas. 2012 <i>INSIGHTS Discovery profile available on request.</i>		
Experience	2011 TO PRESENT <i>Independent Consultant</i>	OLEUM KHAOS LIMITED	LONDON, UK
	<ul style="list-style-type: none">▪ Prediction of missed pay in a large number of wells, using machine-learning, for a national oil and gas regulator.▪ Review & re-evaluation of the Rotliegende in 7 UK Southern North Sea wells for a small independent.▪ Review of the UAE offshore Zora gas field for a National Oil Company.▪ Review of the tight gas Khazzan field in Oman, for a National Oil Company.▪ Review of the Egyptian Gulf of Suez Amal, plus Western Desert, Ferdaus, Abrar, Sidra, Rayyan, Rawda & Ganna fields for a small independent.▪ Review of the Permo-Trias reservoirs in well Balal-11 for a National Oil Company.▪ Review of the fractured Devonian Huamampampa reservoir in the Bolivian Huayco block for a small independent.▪ Review of Thomas-Stieber based petrophysical evaluation of 160 wells in the West Siberian Pottymsko-Inginsky, Vostochno-Inginsky & Palyanovo blocks for a small independent.▪ Review of onshore Nigeria Ughelli East & West fields' petrophysics for a small independent.▪ 1 day seminar, for representatives of the Benin National Oil Company, on petrophysical evaluation plus data, including NOC requirements from Licensees.▪ Low-Mid-High case evaluations of 8 UKCS wells' Lower Cretaceous & Upper Jurassic intervals for input to rock physics & volumetrics, for a small independent.▪ Estimation of reservoir properties in over 100 onshore wells in the Viforata field in Romania, for a medium independent.▪ Review of Alkinz & Ras el Baida wells, offshore Mauritania, for a small independent.▪ Review of legacy UK East Irish Sea (EIS) South Morecambe's reservoir characterisation, static modelling, plus construction of 70 EIS wells' logs & core data; QC of both, plus summary of recommended technical approaches provided to a medium independent.▪ Review of the UK Montrose oil field's petrophysics with recommendations for enhanced reservoir description, for a medium independent.▪ Evaluation of Paleocene & Triassic pay intervals in UK appraisal well 30/13a-9, for a medium independent.▪ Review of the UK Main Area Claymore wells' current & legacy evaluations, followed by:▪ Integrated evaluation of 73 Claymore wells, for input to full field static & dynamic models, for a medium independent.▪ Project manager for delivering petrophysical re-interpretations of the UK Tartan & Piper fields, for a medium independent.▪ Interpretation of 34 UK Atlantic Margin wells for input to Tertiary, Cretaceous & older play fairway mapping, for a medium independent.▪ Petrophysical re-evaluation of the UK Scapa field, developing a novel core to log integration model, permeability predictor & Net to Gross correction factor, for a medium independent.▪ Internal Technical Assurance for the UK Tartan, Piper, Auk, Wood & Highlander fields, for a medium independent.▪ Co-presenter of two Unitisation & Redetermination courses in Portugal & The Netherlands.		

2005 TO 2011

HESS UK LTD

LONDON, UK

Petrophysics Advisor

- Chief advisor to SamaraNafta in Russia on their appraisal & development of Cretaceous & Devonian clastic plus carbonate reservoirs.
- Lead Advisor for the UK 204/10a-D (Cambo) appraisal well's data acquisition, pre-drill LWD & wireline value of information, coring & analysis programmes.
- Complete re-evaluation of the West of Shetland Tertiary Rosebank (UK 213/26 & 27) wells.
- Peer assist & peer review of the South Arne RIGS northern field development extension.
- Lead Advisor for operational, plus post-drilling, evaluation of the Glencoe, Briseis, Nimblefoot & Warrior wells in West Australian licence: WA390P.
- Unique re-evaluation of deep water, western offshore Nile Delta, low resistivity Pliocene laminated turbidite sands & traditional Miocene channel sands, for appraisal & development planning.
- Detailed re-evaluation & update of the UKCS York fields' reservoir characterisation & fluid contacts.
- Overview of BP's permeability & water saturation modelling for the Azeri-Chirag-Guneshli fields.
- Evaluation of the Algerian BMS field's reservoir properties.
- Implement scale compatible static geological model well-calibrated Saturation-Height workflow & train geomodellers.
- Originator & administrator of Hess' global petrophysics knowledge-base & organiser of regional knowledge sharing forums.

2003- 2005

OLEUM KHAOS LIMITED

LONDON, UK

Independent Consultant

- Review & consolidation of 40+ wells' log & core data in the El Agreb field, Algeria for use in 3D model, for a medium independent.
- Thorough re-evaluation of the Faroes Marjun 6004/16-1z discovery, clarifying the distribution of hydrocarbons, for a medium independent.
- Review of Cretaceous & Jurassic reservoirs in the GPC Egyptian Western Desert 2004 bid round, for a medium independent.
- Reservoir characterisation of the UK Trent, Tyne, Glein, Pickerill & Waveney gas fields, to identify upside potential & re-development options, for a medium independent.

1989–2003

GAFFNEY, CLINE & ASSOCIATES

HAMPSHIRE, UK

Senior Petrophysicist

- Extensive technical experience of reservoir characterisation & petrophysical interpretation of clastic, carbonate & exotic reservoirs, world-wide.
- Contributor to a comprehensive petrophysical technical interpretation procedures manual.
- Contributed to the derivation of a novel approach to petro-facies related, scale compatible saturation height model, ground-truthed to core measurements.
- Co-author of an evaluation of approaches to core compaction corrections for clastic reservoirs.
- Co-author & developer of a technique to improve the prediction of Q_v from porosity for use in Waxman Smits water saturation.
- Carried out a substantial petrophysical evaluation of the Troll oil & gas field, involving 48 wells with wireline logs, 55 with MWD logs, plus extensive core data.
- Implemented a multi-well petrophysical interpretations of 11 clastic & carbonate fields, including cased hole reservoir monitoring, during a 1 year secondment to AFPC in Syria.
- Undertook petrophysical interpretations of 21 predominantly carbonate fields as part of an independent probabilistic reserves review for Shell Sarawak Berhad.
- Member of the Equity Technical Team responsible for reservoir characterisation work related to pre-Unitisation, Unitisation plus Redetermination work for partners & operators.

Other Projects

- Review & update of a Middle Eastern country's Upstream Regulations & Guidelines for the development of non-associated gas production.
- Project Manager for the provision of reserves assessment seminars & advice to 11 Former Soviet republics over a period of 2 years as part of the European Union's 2 million Euro INOGATE project.
- Full field evaluation, including reserves & development study of the OGW-B & C fields in Gabon & the Coco-Payamino field in Ecuador, related to loan financing.
- Technical adviser to a major US-based Power Generator, regarding development studies for electricity generation of the Zielona Gora carbonate gas fields in Poland.
- Full field evaluation, including reservoir characterisation & reserves of the Argentinean Puesto Hernandez field for a National Oil Company.
- Integrated Petroleum Engineering Study for the re-development of the carbonate Natih-E & Shuaiba

Reservoirs of the Middle Eastern Burhaan Main Field.

- Review of the UKCS Bressay heavy oil field for potential development.
- Full field pre-development study & simulation of the Qadirpur field, Pakistan, for a National Oil Company.
- Provision of general & specific unitisation & redetermination seminars to staff from: Amoco Netherlands, BEB Germany, British Gas UK & Indonesia, Carigali-PTTEP, Carigali-Triton, Conoco, Deminex Germany, Denerco Denmark, EBN–Netherlands, Elf, Fina, Government of Vietnam, Malaysia Thailand Joint Authority, NAM Netherlands, Petronas-Carigali, PetroVietnam, Shell Malaysia, Norway & UK, Statoil Norway, Total, Triton Thailand & Veba Oil.
- Four and a half year project deriving, optimising & updating the full field model of the Troll oil & gas field, for the first redetermination.
- Contributed to the construction of a standard set of technical procedures for unitisation or redetermination, including technical definitions, based on a range of unit operating agreements.
- Provided technical reservoir characterisation support to a Norwegian operator as part of the first redetermination of the Snorre oil field.

1988–1989

AMOCO (UK)

LONDON, UK

Geologist

- Development geology of North West Hutton & appraisal programme for Arbroath, in the UK.

1981–1986

EXPLORATION LOGGING INC.

SINGAPORE

Operations Geologist

- Provision of well-site geological services, including supervision of wireline log acquisition, quality control & initial interpretation for Union Texas (Pakistan), Cities Service (Sri Lanka), Marathon (Indonesia), Unocal (Thailand) & Phillips (China).

Training

2016

SPWLA

Reykjavik, Iceland

- Petrophysics of Unconventional Reservoirs

2013

Talisman

Aberdeen, UK

- Modelling of Deepwater Turbidites – Tabernas Basin, Spain (Nautilus)

2010

Hess Ltd

London, UK

- Complex Carbonate Reservoirs: Influence of Facies & Tectonics on Porosity (Nautilus)

2009

Hess Ltd

London, UK

- Borehole Imaging (Task Geoscience)
- Turbidite Facies Architecture, Reservoir Applications, South Africa (Nautilus)

2008

Hess Ltd

London, UK

- Reservoir Modelling Field Course, Utah (Nautilus)
- Use of SCAL in Reservoir Engineering (Jess Stiles)
- Strengths-Finder

2007

Hess Ltd

London, UK

- A Guide to Reservoir Appraisal & Development (Corrigan & Kaye)
- Coaching & Mentoring

2005

Hess Ltd

London, UK

- Microsoft Visual Basic
- Management Development

2005

Schlumberger

London, UK

- Petroleum Economic Evaluation (PEEP)

2005

InterAct Ltd.

London, UK

- Presentation Skills
- Influencing Skills

Education

1986-1987

Imperial College

London, UK

- MSc. & D.I.C. Exploration Petroleum Geology

1978–1981

Keele University

Staffordshire, UK

- BSc. (Hons) Geology & Geography

Reference

I have known Jeremy since 1992 when I first worked with Gaffney, Cline & Associates and when he was part of the technical and management team for a major 12 month, 15 carbonate & clastic field study project for a super-major operator, in the Middle East. Since then we have worked together on a variety of projects directed at generating field models, equity support to partners, geoscience and engineering training, plus petrophysical troubleshooting for clients who encounter petrophysical interpretation issues.

In all these dealings I have found Jeremy Daines to be a person of integrity, with thoroughness being a particular cornerstone. He is able to work with a high degree of technical competence both within and beyond the scope of petrophysics, so that he has proved an indispensable team worker in integrated geoscience projects. All this is founded on a strong computer literacy. However, Jeremy puts a lot of thought into everything he does, so he is far removed from those mindless individuals that seem to proliferate in this workstation age.

I have no hesitation in recommending him to you.

A handwritten signature in black ink, appearing to read "Paul", with a long horizontal flourish extending to the right.

Dr. Paul F. Worthington
Now sadly deceased

Detailed Summary of Petrophysical, Geoscience, Reserves & Project Management Experience

Reservoir Characterisation / Petrophysical Interpretation Technical Summary

Petrophysical evaluation of 25 Rotliegende wells for input to a machine-learning training set with the objective of predicting gas pay. Evaluation of initial prediction results leading to the optimum algorithms for machine-learning. Evaluation of final gas pay prediction results in 232 wells with detailed comparison of 25 wells' predictions vs actual petrophysical results.

Review & petrophysical re-evaluation of the Rotliegende Leman Sandstone interval in 48/22-4, 48/23-2, 48/23-3, 48/24a-1, 48/24a-3, 48/24b-6 & 49/21-8A, deriving Low-Mid-High estimates & comparing with the Operator's results.

Petrophysical review of UAE's Zora gas field's wells: Sharjah-1, Sharjah-2, -2st1 plus Ajman-1 and -1st4.

Review of the tight gas Khazzan field's wells, in Oman, for a potential farm-in opportunity.

Review of the Egyptian Gulf of Suez Amal, plus Western Desert, Ferdaus, Abrar, Sidra, Rayyan, Rawda & Ganna fields' wells, as part of a loan financing project.

Review of the Permo-Trias gas-bearing interval's petrophysical evaluations in offshore Iranian well: Balal-11.

Review of the fractured Devonian Huamampampa clastics in the Huayco-X1, -X1001, -X1002, Lajitas-X1 & Isiri-X1 wells in the Bolivian sub-Andean thrust belt, Huayco Block.

Peer review of a small independent Russian operator's innovative Thomas-Stieber based petrophysical evaluation of 160 wells in the West Siberian Pottymsko-Inginsky, Vostochno-Inginsky & Palyanovo blocks. Provided conclusions & recommendations to assess uncertainty plus potential issues related to 3D static modelling.

Petrophysical evaluation of UKCS wells: 12/24-1, 12/24-2, 12/24-3, 12/25-1, 12/25-2, 12/25-4Y, 13/22A-14 & 13/22B-4 for input to volumetrics & rock physics. Derived Low-Mid-High results, together with Thomas-Stieber shale type estimates.

Implementation of a Thomas-Stieber laminated sand model to 100+ old Viforata field wells, in Romania, for input to a geological model.

Complete grass-roots review of all legacy work, core data & logs in the South & North Morecambe gas fields, East Irish Sea. Valuable insights into apparently heterogeneous electrical properties caused by mixed horizontal & vertical plug data. Provision of a recommended technical programme, for Centrica Energy.

Review of the Paleocene reservoir in the Montrose field in UK block 22/17, with recommendations for enhancing the petrophysical description.

Integrated petrophysical evaluation of the Paleocene, Jurassic & Triassic pay intervals in UK "TR1" appraisal well (Block 30/13a).

Petrophysical re-evaluation of 16 UK Scapa field wells to better describe permeability & net to gross, for input to static & dynamic modelling. Derived a novel continuous permeability predictor, integrated core plug & core sedimentology data into the final results in order to utilise the highest vertical resolution / least uncertain data. Derived net to gross correction factors to adjust log-derived net to gross, to reflect actual net to gross obtained from core

Project Manager responsible for the petrophysical re-evaluations of the UK Tartan & Piper fields encompassing over 150 wells.

Project Manager for the Highlander field's capillary pressure & saturation-height function study.

Technical assurance reviews of the UK Auk, Tartan, Piper & Wood fields.

Quick-look evaluation of the Paleocene (Mey Sandstone) in released wells in the UK Quad-30.

Detailed review of an Operator's current & legacy petrophysical interpretations of approximately 80 wells in the UK Claymore field area.

Quick-look evaluation of 34 wells in the UK Atlantic Margin for reservoir properties in the Tertiary, Cretaceous & older intervals; for input to play fairway mapping.

Fully integrated petrophysical evaluation of the UK's Main Area Claymore wells for input into static & dynamic models.

In-depth Petrophysical evaluation of the West of Shetland Rosebank (Blocks 213/26 & 213/27) intra-basalt Tertiary oil & gas discovery.

Detailed LWD & Wireline logging programme value of information & scoping for UK well 204/10a-D's (Cambo) pilot & horizontal sidetrack.

Development of a novel approach to carbonate reservoir characterization for Exploration & Production wells in Samara province in Russia, which aligned strongly embedded regulatory requirements with cost-effective, lowest uncertainty data acquisition.

For the Glencoe-1X, Briseis-1X, Nimblefoot-1X & Warrior-1X wells in West Australian license WA390-P, provide: pre-drill basis of design petrophysical data acquisition & contractor reviews, undertake operational petrophysics, draft & final contractor data QC, plus core analysis, together with final petrophysical evaluations for the Operator & DOIR.

For the WA404-P, Martell-1 well; provide petrophysical uncertainty analyses for comparison with the Operator's evaluation.

Provide petrophysical peer assist & final peer review technical assurance for the Danish South Arne field's northern extension development plan.

Reservoir Characterisation / Petrophysical Interpretation Technical Summary

Construction of an innovative semi probabilistic petrophysical model to characterise thinly bedded turbidites in 4 wells (Abu Sir, Al Bahig, El King & El Max) drilled in the western offshore Nile Delta (West Med Block-1).

Thorough review of UKCS York fields' reservoir characterisation & fluid contacts for input to 3D model as part of the Field Development Plan.

Review of BP's Petrophysics of the Norwegian Valhall giant field together with peer assists.

Petrophysical interpretation of 12 wells in the UKCS Tyne Carboniferous gas field & input to Petrel based 3D model.

Petrophysical evaluation of UKCS Waveney, Glein & Pickerill fields' wells for input to 3D model, for a small independent.

Provision of a 4 day petrophysical workshop for Amerada Hess geoscientists.

Azeri Chirag & Guneshli petrophysical working group, addressing permeability & Sw issues for a large independent.

UKCS York field review of Helix RDS saturation height FOIL functions & subsequent technical work group with Centrica on GIIP / Reserves for a large independent.

Petrophysical review of the hydrocarbon-bearing T10 sands in Faroes well 6004/16-1 & UK wells 204/16-1 & 204/22-2, for a large independent.

Algeria: QC & consolidation of 53 El Agreb wells, from 1960s to present day for input to 3D model. Input of logs to Petrel 3D model, creation of layer & zone properties & recommendations for saturation vs height approach.

Algeria: Interpretation of El Gassi wells GS-9z & GS-33 initial wireline logs for a large independent.

Algeria: Interpretation & QC of Zotti (AR-70) well 70 for a large independent.

Petrophysical evaluation of three wells as part of an independent audit of gas reserves in Malaysian Block SK-8 for a medium independent.

Petrophysical review & reserves assessment of the Jintan field, Malaysia for a medium independent.

Reservoir characterisation & reserves assessment of the Laila, F9, F38 & Jintan fields, Malaysia, for a super-major.

F-9 & F-12 Gas Fields Reserves Audit & Certificate, Block SK-8, Malaysia for a super-major.

Petrophysical review as part of a reserves assessment of C.P.O.C.'s Malaysia Thailand Joint Development Area licence.

Petrophysical interpretation of Sedigi 1A & Sedigi 2 wells, Chad, for a super-major.

Petrophysical interpretation of UKCS Galleon, Kilda, Columba, Hutton, Ninian & Audrey field wells related to a complete review of a medium independent's reserves, linked to loan financing.

Petrophysical audit of the Colombian Lilia-10, ST2 well logs operated by a small independent.

Reservoir characterisation of the Troncoso Inferior & Chorreado Inferior reservoirs of the El Porton field, Argentina, for a small independent.

Petrophysical interpretation of offshore South African well, E-BA-1, for a National Oil Company.

Petrophysical interpretation of the Congo LJM-1 & 2 wells as part of a pre-feasibility study for the maximum recovery of liquids from the LJM gas field.

Background information on the Iagifu & Hedinia Fields, plus petrophysical review of Iagifu-7X's interpretation.

Report on the Petrophysics & Log Analysis of wells in the Iagifu/Hedinia Field, Papua New Guinea.

Petrophysical review of wells as part of an evaluation of a large independent partner's interest in the UKCS Britannia Field.

Petrophysical evaluation of newly acquired well data in the Lam & Zhdanov fields, plus update of hydrocarbons in place & reserves, for a small independent.

Petrophysical review & full field evaluation of Dolphin field development, offshore Trinidad, for a large independent.

Petrophysical interpretation of wells in the Uch field, Pakistan, in support of financing.

Petrophysical review of the UKCS Alba, Galleon & Ensign fields as part of a valuation exercise for a medium independent.

Review of a UK small independent's interests in UK Licences P450 & P454 for potential acquisition.

Full field review, including reservoir characterisation & reserves assessment of the UKCS North & South Morecambe fields for a large independent.

Field study, petrophysical interpretation & reserves assessment of the Kudu field, Namibia, for Shell.

Review of a petrophysical evaluation of Lam Field, Turkmenistan, undertaken by an independent consultant, for a small independent.

Detailed reservoir characterisation of 48 wells in the Troll oil & gas field, offshore Norway.

Reservoir Characterisation / Petrophysical Interpretation Technical Summary

Petrophysical review & reserves assessment of the Corrib field, Eire, in support of an independent evaluation of the Corrib development project.

Petrophysical review & reserves assessment of the E-M field, South Africa, for a National Oil Company.

Core-based reservoir & fluid characterisation study of the Snorre field, Norway for a medium independent.

Reservoir characterisation & development feasibility study of certain Dutch offshore shallow gas discoveries, for a European small independent.

Petrophysical review of logs in South Pars well SPO-1 for the Operator.

Petrophysical review of selected Egyptian fields in advance of the small independent South Asian client's potential farm-in.

Review of the petrophysical evaluation of wells in the UKCS Buzzard field, for a small UK independent.

Reservoir characterisation & reserves assessment of the Norwegian Veslefrikk field for a large independent.

Review & assessment of the operator's log interpretation of a fractured metamorphic basement reservoir in Hungary.

Petrophysical evaluation of UKCS Scott field well 15/22-4.

Reservoir characterisation & reserves assessment of the UKCS Scott, Everest & Ness fields for a large independent.

An evaluation of the access borehole in an onshore UK LPG storage cavity for a major chemical company.

Independent review of the UKCS Miller Field gas reserves related to the privatisation of a UK power generation company.

Detailed field study of the El Ahmar field in Syria for a National Oil Company (NOC) consortium.

Full field study including reservoir characterisation of the Rutbah & Mulussa F reservoirs in the Shahel field in Syria, for an NOC consortium.

Full field study including reservoir characterisation of the Mulussa F reservoir in the Tanak field in Syria for an NOC consortium.

Full field study including reservoir characterisation of the Judea Limestone, Lower Rutbah & Mulussa F reservoirs in the EI-Ward field in Syria for an NOC consortium.

Full field study including reservoir characterisation of the Rutbah reservoir in the Thayyem field in Syria for an NOC consortium.

Field review & operations plan for the Zhdanov & Lam fields offshore Turkmenistan, including production & processing infrastructure, for a small independent.

Reservoir characterisation & reserves assessment of the Norwegian Embla field for a large independent.

Consolidation of significant volume of Soviet era wireline logs from the Lam & Zhdanov fields & construction of digital database of well data.

Reservoir characterisation & reserves assessment of the UKCS Claymore field for a medium independent.

Independent assessment of the Toka-1 well, in the Taranaki Basin, New Zealand, linked to a gas sales agreement with the Operator.

Petrophysical review of the Indonesian Soka & Kaji fields for a small independent.

Petrophysical review of the Telisa Sand & Batu Raja limestone reservoirs in the Indonesian Kaji-Semoga field, as part of the annual reserves update for a small independent.

Review of Petrophysical Solutionz' interpretation of Wichian Buri wells, Thailand.

Petrophysical Review of Turitella-1, Belemnite-1, Nummulites-1 wells, Indonesia for an independent reserves assessment for a small Far Eastern independent.

Review of Hedinia 1-X as part of the Kutubu field, Papua New Guinea, reserves update for financing purposes.

Petrophysical review & reserves assessment of the Toro & Digimu reservoirs in the Iagifu, Hedinia & Agogo fields, Papua New Guinea, related to development financing.

Detailed field study of the Qadirpur field in Pakistan for OGDC.

Petrophysical evaluation of UKCS well 22/27A-3Z (ST) for a small independent.

Petrophysical review in support of a reserves & deliverability study of the Australian Gilmore gas field, for bank financing.

Reservoir Characterisation / Petrophysical Interpretation Technical Summary

Audit of the Australian Gilmore Field reservoir characterisation & reserves assessment undertaken by an independent consultant, related to an electricity supply agreement.

Reservoir characterisation & reserves assessment of Block 9 of the Karamay field, China.

Core-based reservoir characterisation of wells in the KRA & KG fields, Indonesia, for a small independent.

Geoscience & Reservoir Engineering Technical Summary

Reserves assessment of the UKCS Britannia field for a medium independent.

Reserves assessment & field study of the Bangladesh Sangu field for a super-major.

Independent reserve & resource evaluation of a medium independent's UKCS licence interests in: P016, P019, P020, P030, P064, P065, P066, P101, P133, P143, P291, P292 as part of a dispute between partners.

Review of a potential financing opportunity regarding the UKCS Scott Field Development.

Independent evaluation of UKCS Block 9/18a.

Unitisation & Redetermination Summary

Provision of general & specific unitisation & redetermination seminars to staff from: Amoco Netherlands, BEB Germany, British Gas UK & Indonesia, Carigali-PTTEP, Carigali-Triton, Conoco, Deminex Germany, Denerco Denmark, EBN-Netherlands, Elf, Fina, Government of Vietnam, Malaysia Thailand Joint Authority, NAM Netherlands, Petronas-Carigali, PetroVietnam, Shell Malaysia, Norway & UK, Statoil Norway, Total, Triton Thailand, Veba Oil, GALP & Shell (Netherlands).

Four & a half year project deriving, optimising & updating the full field model of the Troll oil & gas field, related to redetermination. This involved the provision of Unitisation & Redetermination background training, construction of the first ever full field model to derive & optimise redetermined tract participations, expert submission strategy & documents; rebuttal of the expert's initial decision & subsequent updating of the model in preparation for the next redetermination.

Contributed to the construction of a standard set of technical procedures for unitisation or redetermination, including technical definitions, based on a range of unit operating agreements.

Provided technical reservoir characterisation support to a Norwegian operator as part of the first redetermination of a medium sized North Sea oil field.