



UNION JACK OIL plc

AIM: UJO

Corporate Presentation

April 2018



UNION JACK OIL

**Production, Drilling, Development and
Investment in the United Kingdom
Onshore Hydrocarbon Sector**

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Union Jack Investment Summary



- **Low-risk onshore strategy focused on drill-ready projects and value creation**
- **Balanced portfolio: production, development, appraisal and exploration**
- **Portfolio activity generates near-term news flow and value drivers**
- **Positioned to deliver growth: in reserves, production and asset value**
- **Actively evaluating a number of attractive acquisition opportunities**
- **All commitments funded and debt free**
- **Apply strict financial and technical discipline**

Near-term News Flow and Value Drivers

– UJO involved in a number of attractive projects

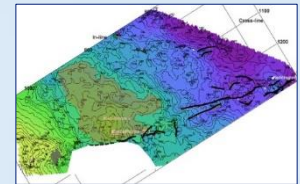
PEDL180/182 – Wressle discovery (15%)

- New development application to be submitted by April 2018
- Attractive development project with oil production of 500 bbls/d (gross) expected: UJO interested in increasing its stake



PEDL253 Biscathorpe – a prior discovery (22%)

- Structure is large, drill ready and Biscathorpe-2 well is planned mid 2018: gross mean prospective resources 14MMbbl and COS of 40%
- Attractive well / risk profile



PEDL143 Holmwood – has planning consent (7.5%)

- Holmwood-1 is a high impact exploration well with planning consent and is expected to be drilled during 2018
- Presence of multiple potential pay zones



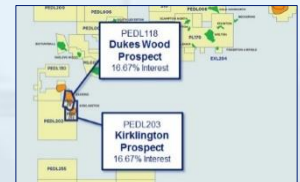
EXL294 Fiskerton Airfield oilfield – producing (20%)

- Workovers completed to increase production from FA-1 and FA-3 wells
- Production following workovers approaching 30 bopd and expected to rise
- Reprocess 3D seismic data to help identify new drilling opportunities from untapped resources that could materially increase production



PEDL118/203 Dukes Wood / Kirklington (16.67%)

- Options to bring shut-in oil wells back into production being evaluated
- Attractive as has potential for unswept oil / new oil reservoirs



Strategy Focused On Value Creation

– low-cost, low-risk onshore UK E&P model

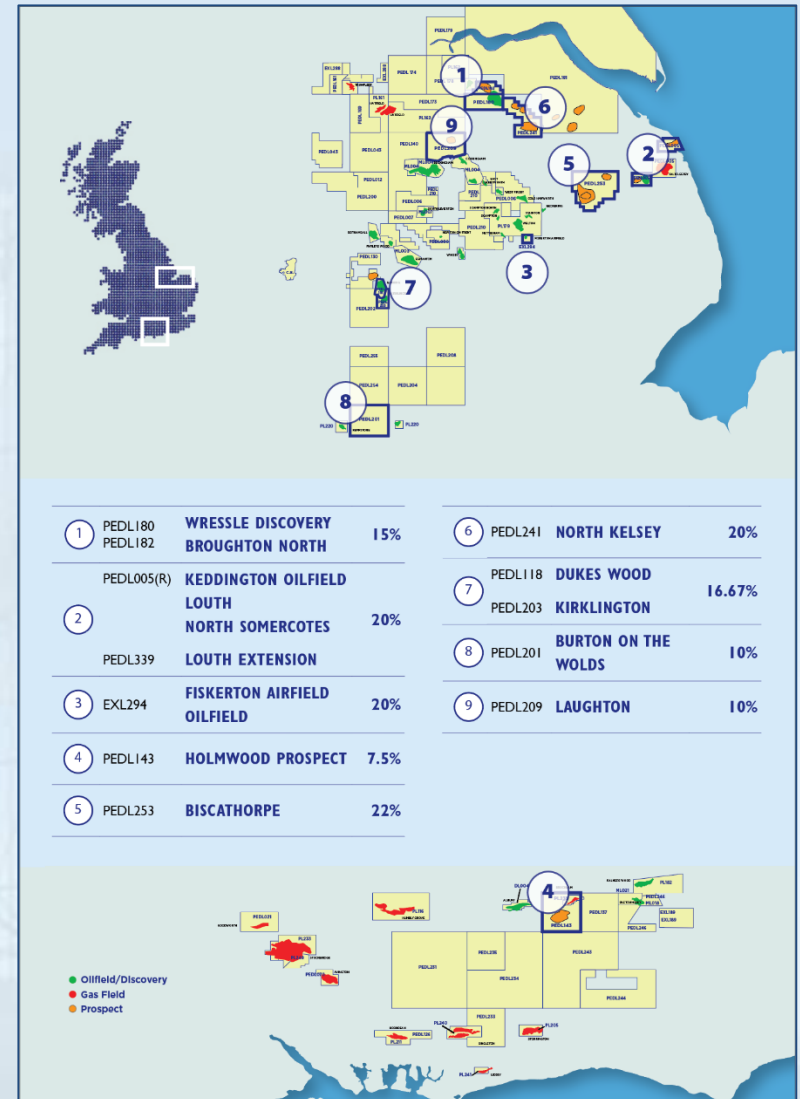


- Strategic Objective: create shareholder value by building a successful UK onshore E&P company and growing risked asset value per share
 - The Board believe the full-cycle costs associated with UK onshore E&P activity remain attractive
- Focused on conventional low-cost onshore production, development, and exploration drilling: avoided early-stage and frontier exploration as high risk
 - Conventional onshore projects are manageable and typically use straight forward development techniques
- Assembled a low-risk portfolio of drill-ready appraisal and exploration targets
 - Shortens lead times from acquisition to initial production from discoveries, or appraisal / exploration drilling
- Expand drill-ready portfolio selectively: add more production opportunities
 - Asset farm-in, corporate activity and licence rounds: also targeting attractive low-cost producing assets
- Apply strict financial and technical discipline to our activities
 - Pride ourselves on having low general and administrative costs for the foreseeable future and remaining debt free

Conventional Low-Cost Onshore Focus

– production, development and exploration drilling

- Experienced corporate and technical team
- Listed on AIM: UJO
- Assembled a balanced portfolio of twelve production, development and exploration licence interests all based onshore UK
 - Wressle-1 discovery (PEDL180/PEDL182) with combined ~710 boepd on test
 - Progressing planning application for oil production at Wressle
 - Drill-ready Biscathorpe prospect (PEDL253) where oil bearing sandstone has previously been discovered
 - Acquired interest in (PEDL143) containing drill-ready Holmwood prospect
 - An interest in producing Fiskerton Airfield Oilfield acquired
 - Nautical/Cairn onshore portfolio acquired including interests in Dukes Wood and Kirklington discoveries
 - Acquired interest in (PEDL182) containing Broughton North prospect
 - Acquired interest in the producing Keddington oilfield (PEDL005R)
 - Contains the drill-ready and significant Louth and North Somercotes prospects (PEDL005R)
 - Drill-ready North Kelsey prospect (PEDL241)
 - Significant shale potential in PEDL201
- Cash in excess of £2.0 million end March 2018 and debt free



Union Jack Board

– experienced corporate, commercial and technical team



David Bramhill, *Executive Chairman*

David has over forty years of experience in the natural resources industry. He has consulted for several companies including; Shell, Petrofina, British Petroleum, Premier Oil and Saxon Oil via Rotork plc. He has directed and managed several energy companies including Nighthawk Energy, Wessex Exploration and OilQuest Resources, an onshore UK exploration company that merged with EnCore Oil in 2006 and was subsequently acquired by Premier Oil plc in 2012.

Joseph O'Farrell, *Executive Director*

Joseph has over thirty years of corporate experience in the hydrocarbon industry. He has managed several energy companies and is a former director of OilQuest Resources. He has assisted numerous companies, working in conjunction with corporate advisers in Pre-IPO fund raising and project acquisition.

Graham Bull, *Non-Executive Director and Technical Adviser*

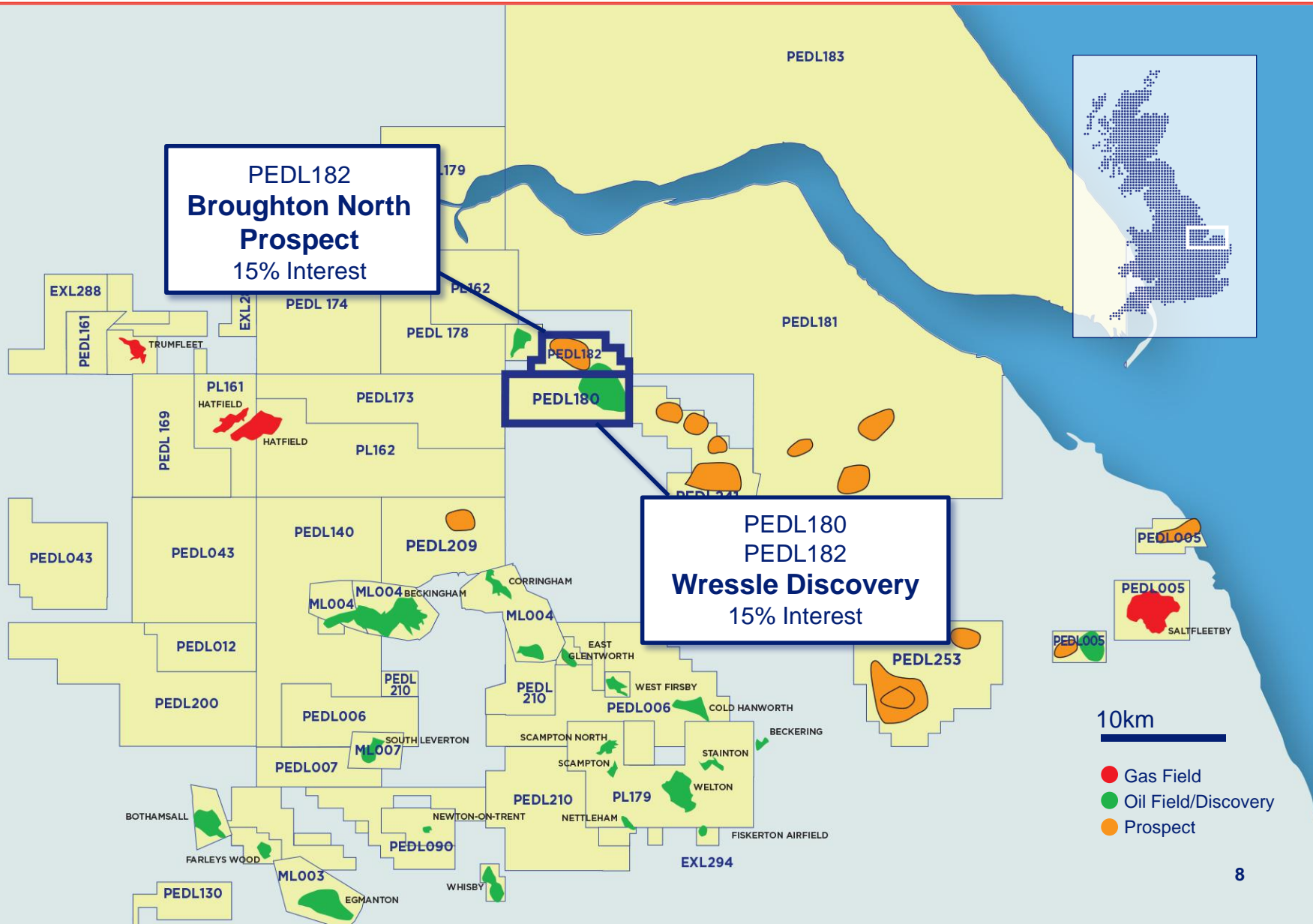
Graham is a geologist with 48 years of international oil and gas industry exploration experience. Following graduation from the University of Leicester in 1968 with a BSc Hons Geology he worked in Canada and held positions with Chevron, Dome Petroleum, Siebens Oil and Gas and Poco Petroleum and also provided exploration expertise to a Canadian drilling fund. He returned to the UK in 1982 taking the position as Chief Geologist to Sovereign Oil and Gas plc. In addition, Mr Bull has operated as a geological adviser for EnCore Oil plc (formerly OilQuest Resources plc), Premier Oil plc, Cirque Energy and DSM Energy. He is currently an exploration geological consultant working on Northwest Europe offshore and onshore United Kingdom and other international areas. Mr Bull is a member of the Petroleum Exploration Society of Great Britain, the American Association of Petroleum Geologists and a Fellow of the Geological Society of London.

Raymond Godson, *Non-Executive Director*

Raymond is a Chartered Accountant with forty years of experience in the hydrocarbon sector. He is a former director of RTZ Oil & Gas, subsequently acquired by Elf in 1988 and has held positions with numerous energy related companies including, Ophir Energy, Fusion Oil & Gas, Aurelian and Teredo Petroleum.

PEDL180 / PEDL182 Wressle Oil Discovery (15%)

– project expected to produce 500 bbl/d oil gross



Wressle Development Next Steps

– new planning application submitted

- PEDL180 and PEDL182 licences are in Lincolnshire in the established East Midlands producing province
 - On trend with nearby discoveries at Crosby Warren, Brigg and Broughton
- Licences contain the Wressle-1 discovery that produced at an aggregate of ~710 boepd from all zones tested
 - Competent Persons Report review on following slides
- Environmental Agency permit for production issued
- New planning application submitted to North Lincolnshire Council in April 2018
- Significant value created by the drill bit at Wressle-1 discovery well
- Wressle structure extends into PEDL182

Wressle Oil Discovery

– testing at the Wressle-1 discovery



Wressle Reserves Report

– Competent Persons Report by ERC Equipoise



- Oil and gas Reserves and Contingent Resources identified by the Competent Person in aggregate exceed the Operator's original pre-drill estimates
- Gross P Mean Oil Initially In Place ("OIIP") is 14.18 million stock tank barrels in aggregate across three reservoir sands, the Ashover Grit, Wingfield Flags and Penistone Flags, of which 2.15 million stock tank barrels are potentially recoverable (2P+2C)
- Gross 2P oil Reserves of 0.62 million stock tank barrels in aggregate identified across two reservoir sands, the Ashover Grit and Wingfield Flags that form the basis of the initial development plan which currently excludes development of the material Penistone Flags reservoir sands
- Commercial oil production is expected to initiate at an estimated 500 barrels per day gross and generate significant net cash flow
- Gross 2P gas Reserves of 0.2 billion standard cubic feet
- Development options and production planning for the Penistone Flags reservoir are expected to be progressed following commissioning of the initial Wressle development and will include monetisation of the produced gas by pipeline or electricity generation which will be sold to the National Grid.

Wressle Contingent Resources

– substantial Contingent Resources also identified



- Substantial Contingent Resources have also been confirmed by the Competent Person in the Penistone Flags reservoir at Wressle that are over and above the oil and gas Reserves identified in the Ashover Grit and Wingfield Flags reservoirs
- The Penistone Flags reservoir has gross oil 2C Contingent Resources of 1.53 million stock tank barrels and 2.0 billion standard cubic feet of gas
- The Competent Person highlights that the Penistone Flags reservoir was oil bearing in the Wressle-1 discovery well and also in the Broughton-B1 exploration well approximately two kilometres to the north west that was drilled by BP in 1984, and tested oil from the Penistone Flags reservoir at a rate of approximately 40 barrels per day. The gross thickness of the Penistone Flags reservoir sand is 26 metres in the Broughton-B1 exploration well and 29 metres in the Wressle-1 discovery well and it is expected to be laterally extensive
- Development options and timing of production plans from the Penistone Flags reservoir are expected to be progressed following commissioning of the Wressle development
- The conversion of the Penistone Flags 2C Contingent Resources of 1.53 million stock tank into 2P Reserves, in full or in part, is expected to occur following receipt of necessary development approvals and commencing production at the Wressle development and once a subsequent development plan has been identified for the Penistone Flags reservoir
- The Board intend to apply the net cash flows generated from the initial Wressle development to finance the development of the Penistone Flags reservoir

Wressle Reserves and Contingent Resources

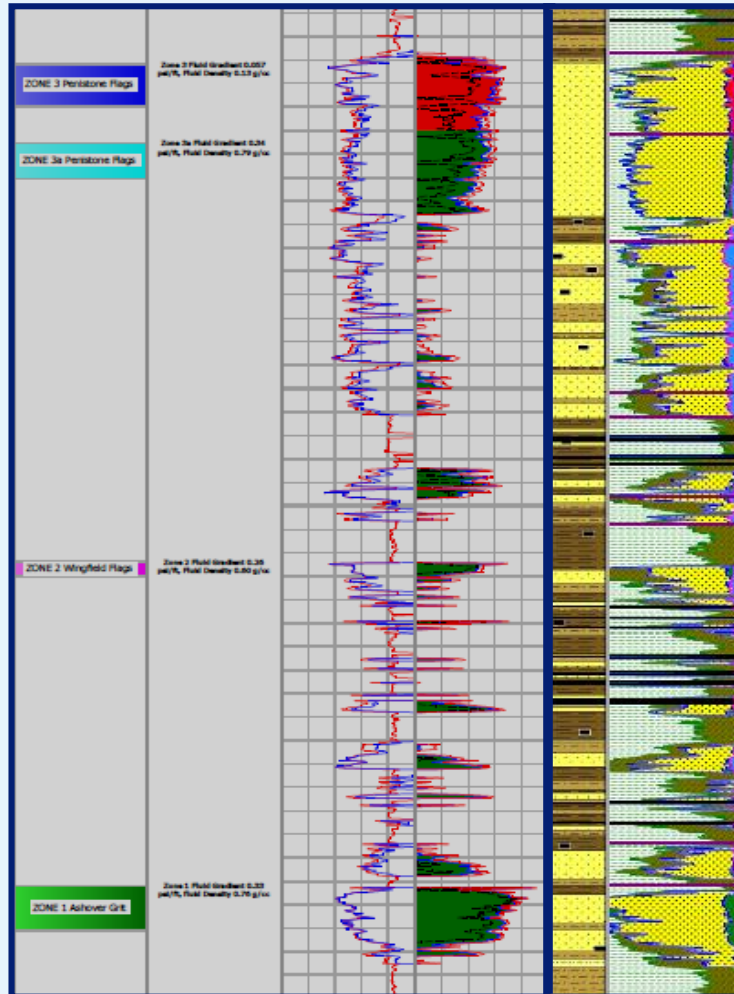
– gross and net attributable to Union Jack



	Gross Volumes			Net Volumes attributable to Union Jack		
	Oil MMstb	Gas bcf	Oil Equiv MMboe	Oil MMstb	Gas bcf	Oil Equiv MMboe
2P Ashover Grit and Wingfield Flags	0.62	0.20	0.65	0.09	0.03	0.10
2C Penistone Flags	1.53	2.00	1.86	0.23	0.30	0.28
Broughton North Mean Unrisked Prospective Resources	0.51	0.51	0.60	0.08	0.08	0.09

Wressle-1 Discovery Well

– composite well log



Penistone Flags

15.9 metre pay

DST 89 bopd, 35° API and 1.7 mmcf/d

EWT 180 bopd

Wingfield Flags

5.1 metre pay

DST 182 bopd, 39° API and 0.46 mmcf/d

Ashover Grit

6.1 metre pay

DST 80 bopd, 39° API and 0.47 mmcf/d

Wressle-1 Discovery Well

– well site testing operations



PEDL182 Broughton North Prospect (15%)

– prospect mapped on same high quality 3D seismic



- The acquisition of further interests in PEDL180 and PEDL182 affiliates two prospective licence areas, already demonstrated by the Wressle-1 oil and gas discovery
- Broughton North Prospect mapped on high quality 3D seismic data
- The Wressle-1 oil and gas discovery has significantly reduced the geological risk over licences PEDL180 and PEDL182
- The Wressle field is deemed by the Operator to extend into PEDL182
- Union Jack holds an 15.00% interest in PEDL182 and PEDL182
- The Broughton North well, when drilled will be funded by Union Jack's share of production from the Wressle field

Broughton North Prospect

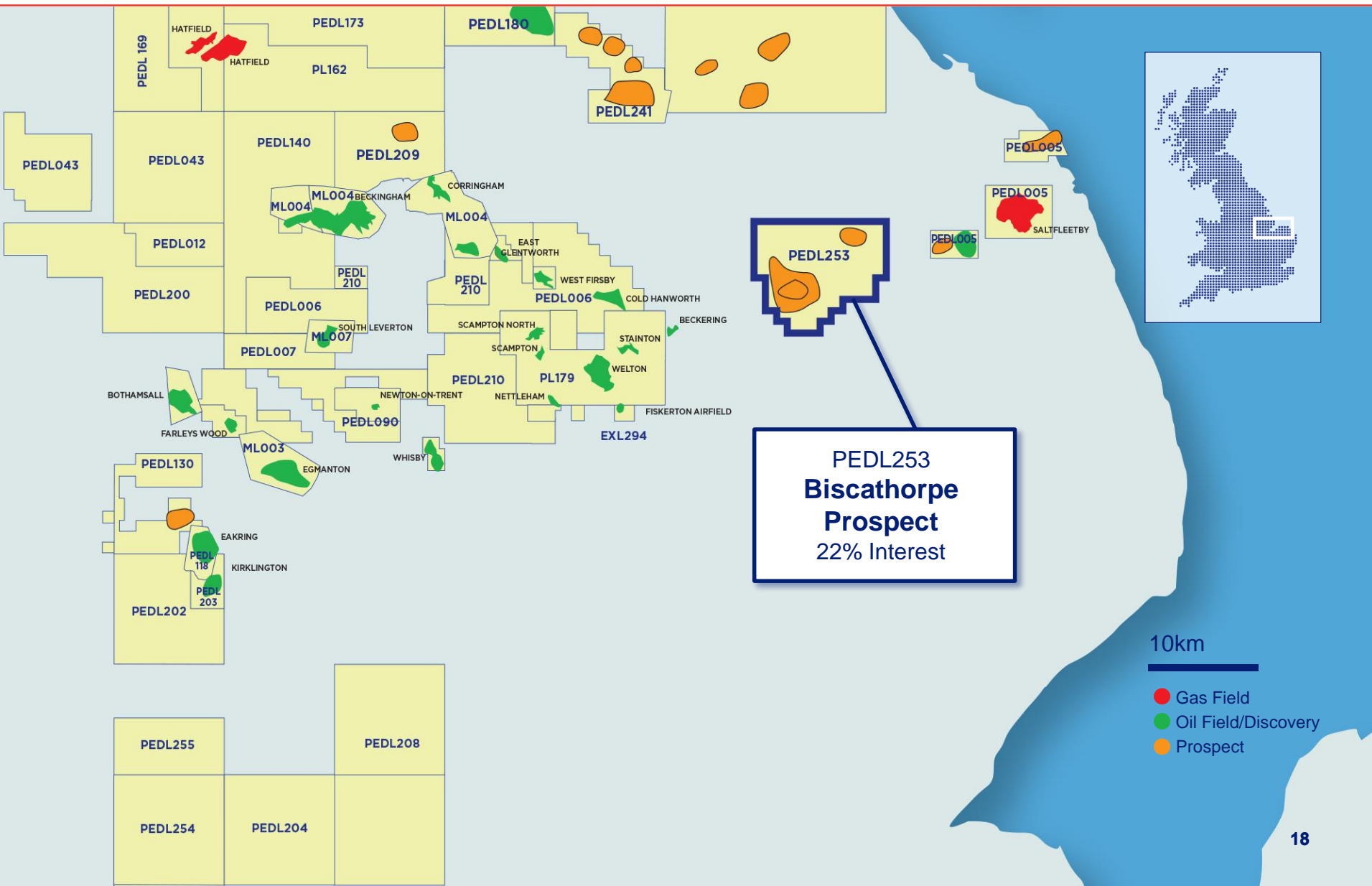
– Prospective Resources on the Wressle licence



- The Broughton North Prospect has OIIP of 3.43 million stock tank barrels, gross unrisked Mean Prospective Resources of 0.51 million stock tank barrels and 0.51 bcf of gas in aggregate across two reservoir sands, the Ashover Grit and Penistone Flags
- Broughton North is a drill-ready prospect, subject to obtaining planning permission
- The Broughton North Prospect benefits from the results of the Wressle-1 oil and gas discovery and the Broughton-B1 exploration well that significantly reduces the geological risk over PEDL180 and PEDL182. Consequently ERCE attribute a high Geological Chance of Success (“COS”) with a range of 40% to 49% for the prospect
- Mapping of the Broughton North Prospect also benefits from the same high quality 3D seismic data as was used to identify the Wressle-1 oil and gas discovery
- Funding for an exploration well on the prospect will be assisted by the significant net cash flows to be generated from commercial production from the initial Wressle development

PEDL253 Biscathorpe: Prior Discovery (22%)

– large drill-ready prospect with planning consent



Biscathorpe: Prior Discovery

– large drill-ready prospect

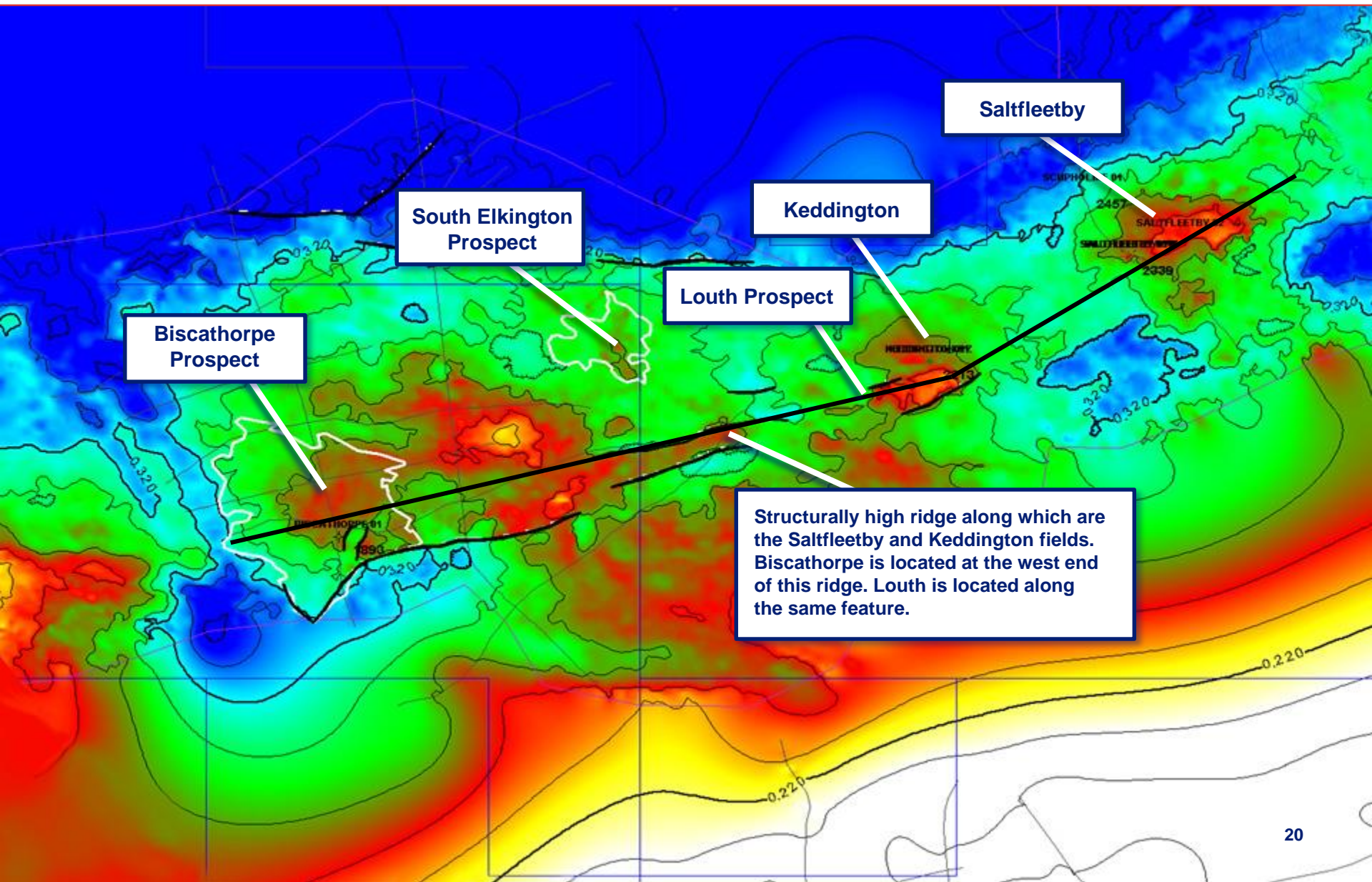
- PEDL253 is within the proven hydrocarbon fairway of the South Humber Basin
 - On trend with the Saltfleetby gasfield, Keddington oilfield and the Louth and North Somercotes prospects
- The Biscathorpe-1 well drilled by BP in 1987 encountered a thin oil filled sandstone which is expected to thicken down-dip
- Biscathorpe Prospect is a well defined four way dip closed structure mapped from recently reprocessed 3D seismic
 - Biscathorpe-2 well will be located in a direction towards a potentially thicker sand development within the structural closure of the trap
 - Subsurface target location defined and planning consent granted for the drilling and any subsequent testing
- Mean prospective resources estimated at 14.00 MMbbl oil (gross)* with COS_{geo} 40%†
 - 1.4 MMbbl net to UJO with additional exploration upside potential in the licence
- Biscathorpe-2 vertical appraisal well sanctioned to be drilled during mid 2018

* Source: Egdon Resources plc

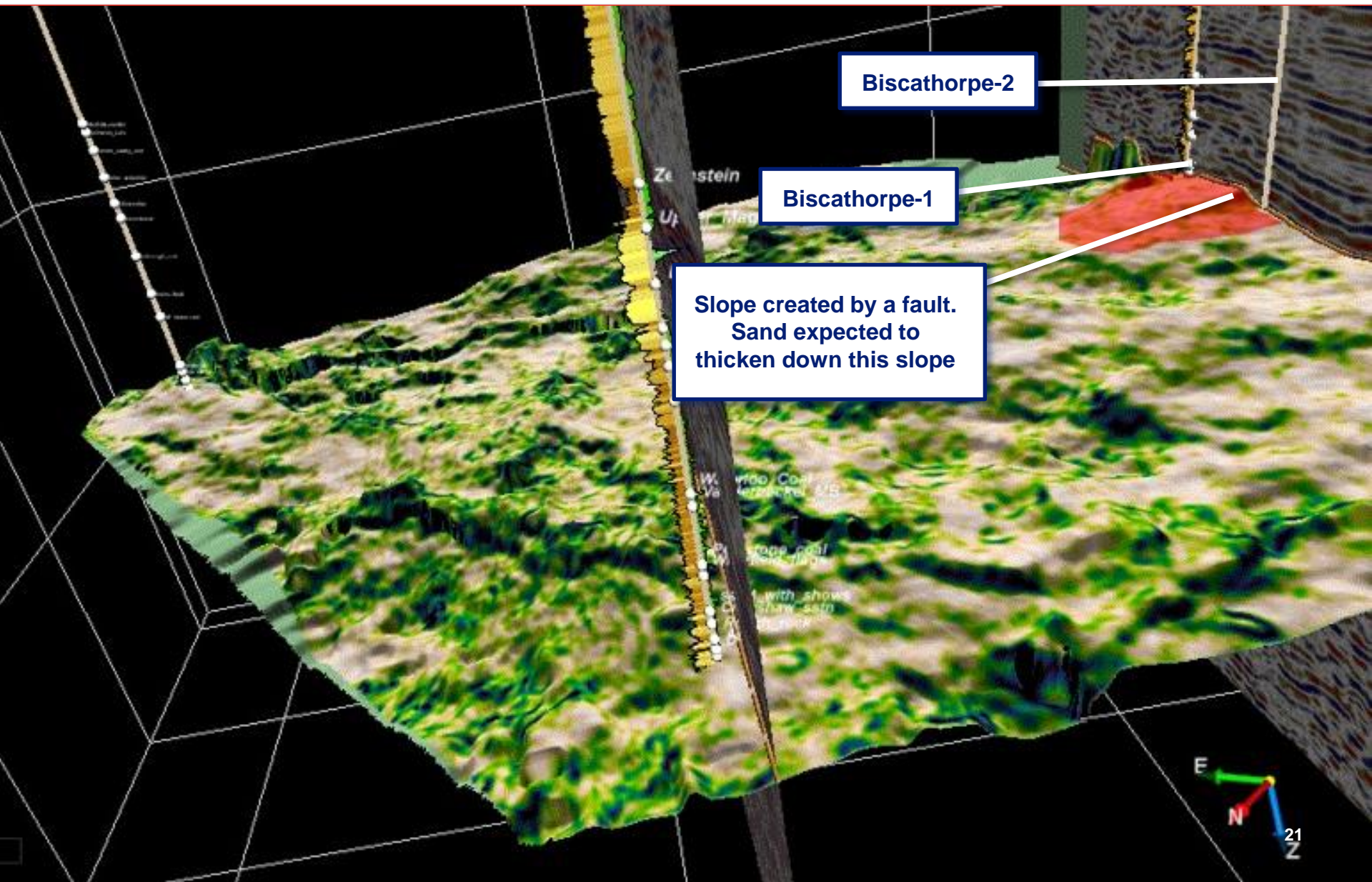
† Source: Egdon Resources plc

Biscathorpe: Prior Discovery

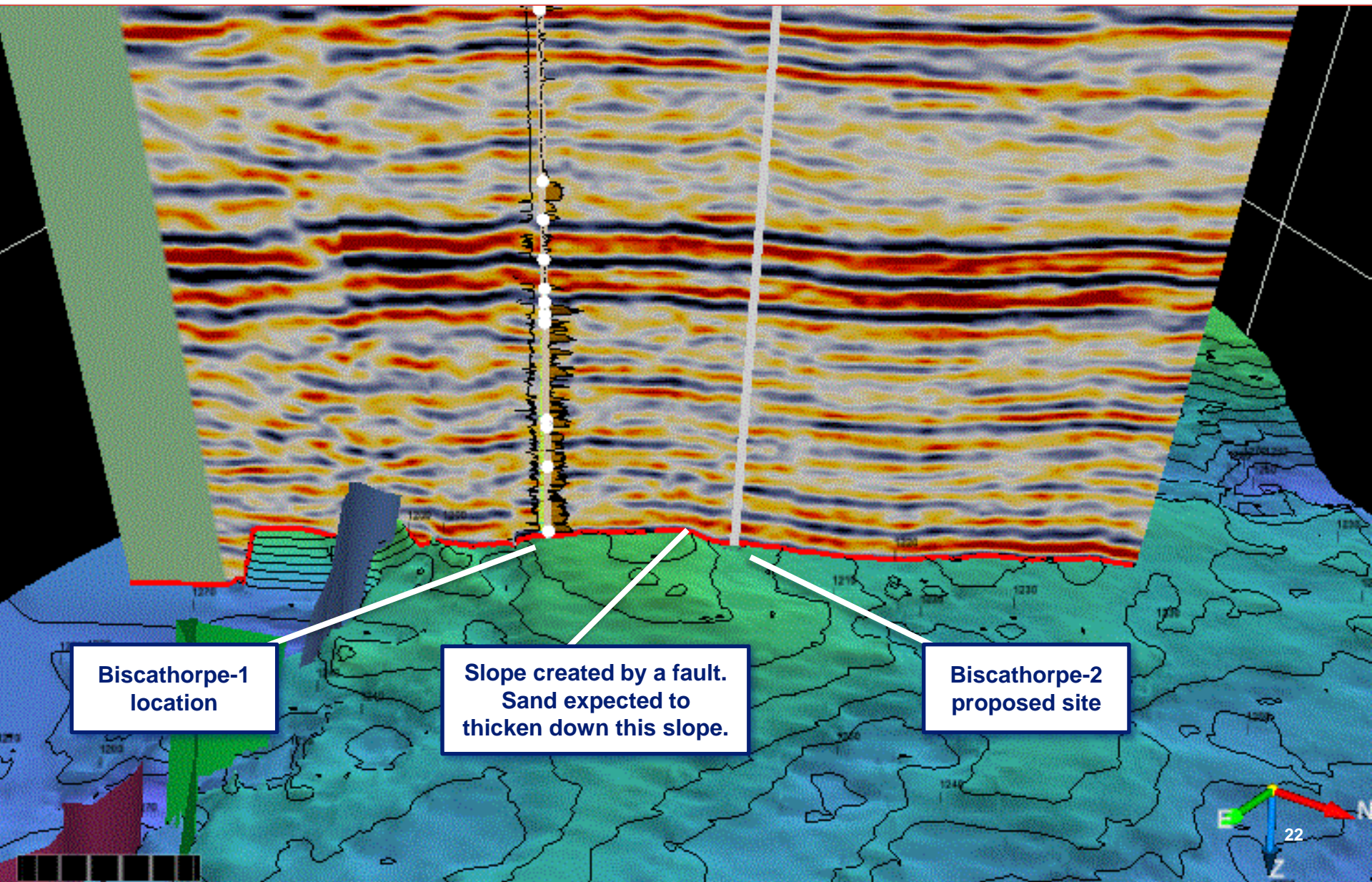
– large drill-ready prospect with planning consent



Biscathorpe Sands Expected to Thicken Down-dip – topographic map of the Dinantian surface



Biscathorpe Sands Expected to Thicken Down-dip – seismic line Dinantian structure map



Biscathorpe Volumetrics

Volumetric Input / Output (100%)	P90	P50	P10	Mean
STOIIP (mmbo)	7.52	29.50	142.00	56.00
Prospective Resources (mmbo)	1.84	7.30	35.30	14.00

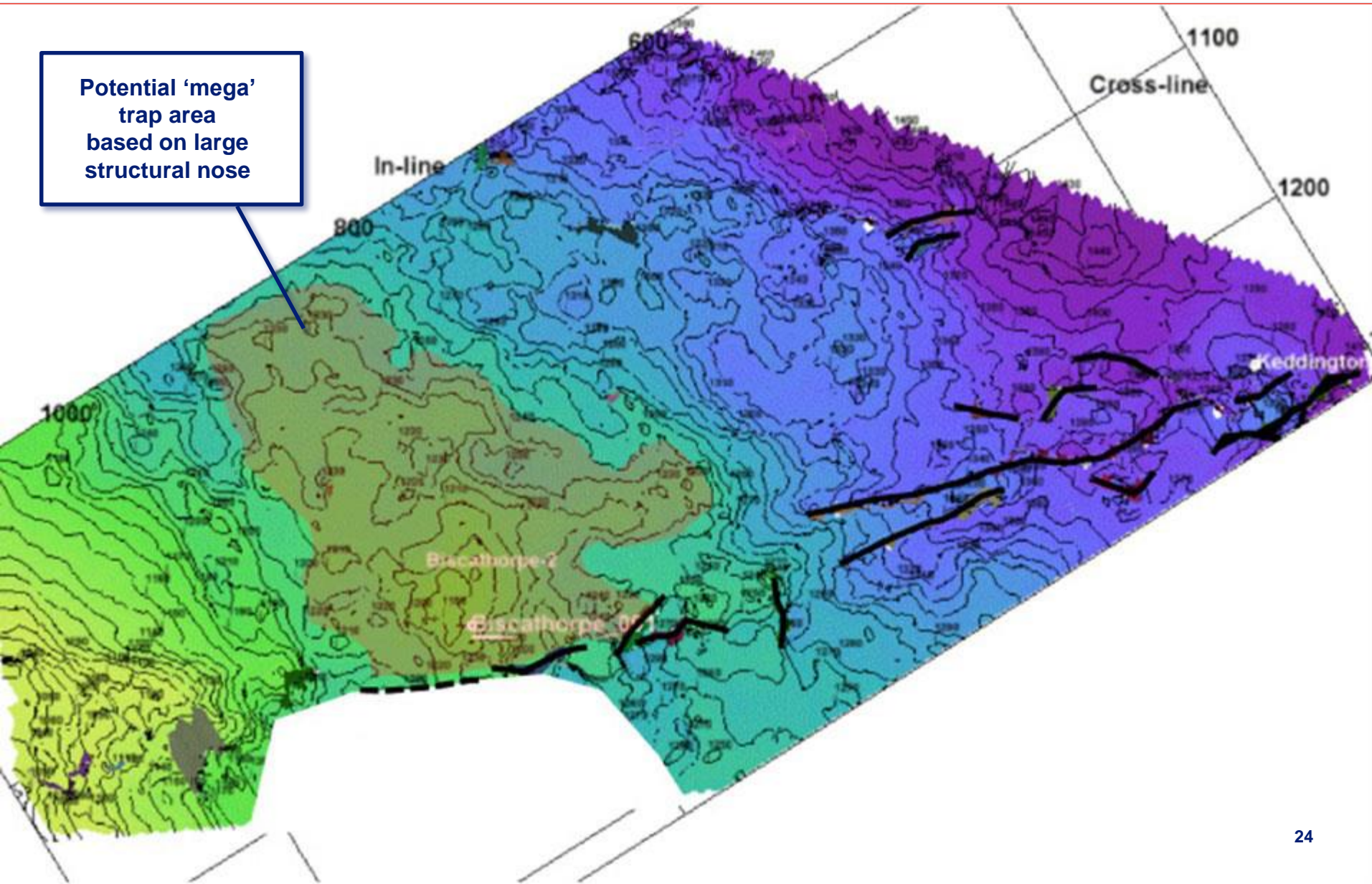
Trap presence	80.00%
Trap Effectiveness	80.00%
Reservoir presence and effectiveness	65.00%
Hydrocarbon charge	95.00%
Geological chance of success	39.52%

- Principal risk relates to thickness of 'basal' unit at proposed Biscathorpe-2 location
- Risk on trap presence/effectiveness relates to upside stratigraphic trapping mechanism

Biscathorpe Potential 'Mega' Trap

– Dinantian structure map

Potential 'mega'
trap area
based on large
structural nose



Biscathorpe Sand Thickening 'Concept' Confirmed

– the independent review supports the 'mega' trap play



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Sotwell Exploration Ltd's independent review of 3D seismic / G&G on the proposed Biscathorpe-2 well location reported that:

- The Biscathorpe-2 'concept' of the thickening of the 'basal' unit was confirmed with good evidence from attributes of the possibility of sand thickening away from the discovery well to the proposed Biscathorpe-2 location
- Well ties, by synthetic seismogram, are high quality and allow a robust link between the geology and seismic data
- The Biscathorpe-2 location appears optimal
- In addition, a 'mega' play trap at Biscathorpe is potentially feasible with stratigraphic upside that if proven could deliver a potentially significant increases in volumetrics
- The whole area is very attractive for oil exploration – additional wells linked to seismic would probably display new prospect concepts

PEDL143 Holmwood Prospect (7.5%)

– attractive Weald Basin prospect in UJO's portfolio



Holmwood-1 High-Impact Exploration

– planning consent and expected activity in 2018



- Holmwood-1 is a high-impact exploration well with planning consent and is expected to be drilled during 2018
- The Operator estimates the unrisks gross mean prospective resources to be 5.6 million barrels with a geological chance of success of 50% from the shallower sandstone reservoirs only
- The drill site is 12 kilometres immediately west of and of similar stratigraphy to the Horse Hill discovery
- Further upside resource potential exists from the Jurassic Kimmeridge limestones
- Presence of multiple potential pay zones



EXL294 Fiskerton Airfield Oilfield

– site work underway and evaluating upside potential



- Ongoing activity over oilfield
 - Workovers completed on wells FA-1 and FA-3
 - Wells production approaching 30 bopd and expected to rise
 - Re-processing of 3D seismic data to identify further production opportunities
 - Initial interpretations of 3D exercise expected H1 2018
- Good quality oil 35.2° API sold and exported by tanker to an Immingham refinery
- Most likely mapped oil in place of 2.2 million barrels

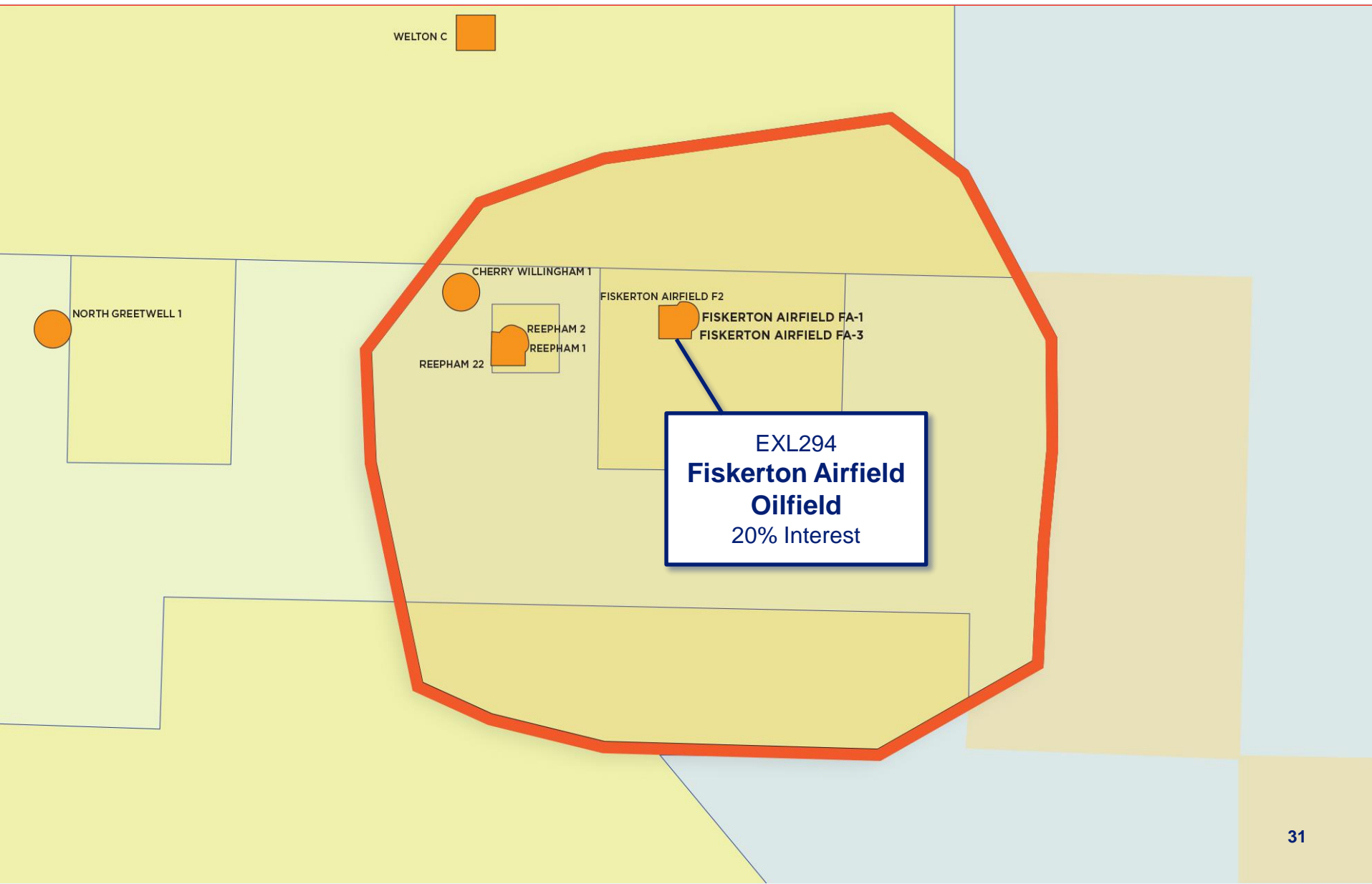
Fiskerton Airfield Oilfield

– established production facilities



Fiskerton Airfield Oilfield

– outline extent of 3D seismic re-processing area



PEDL118/203 Dukes Wood/Kirklington

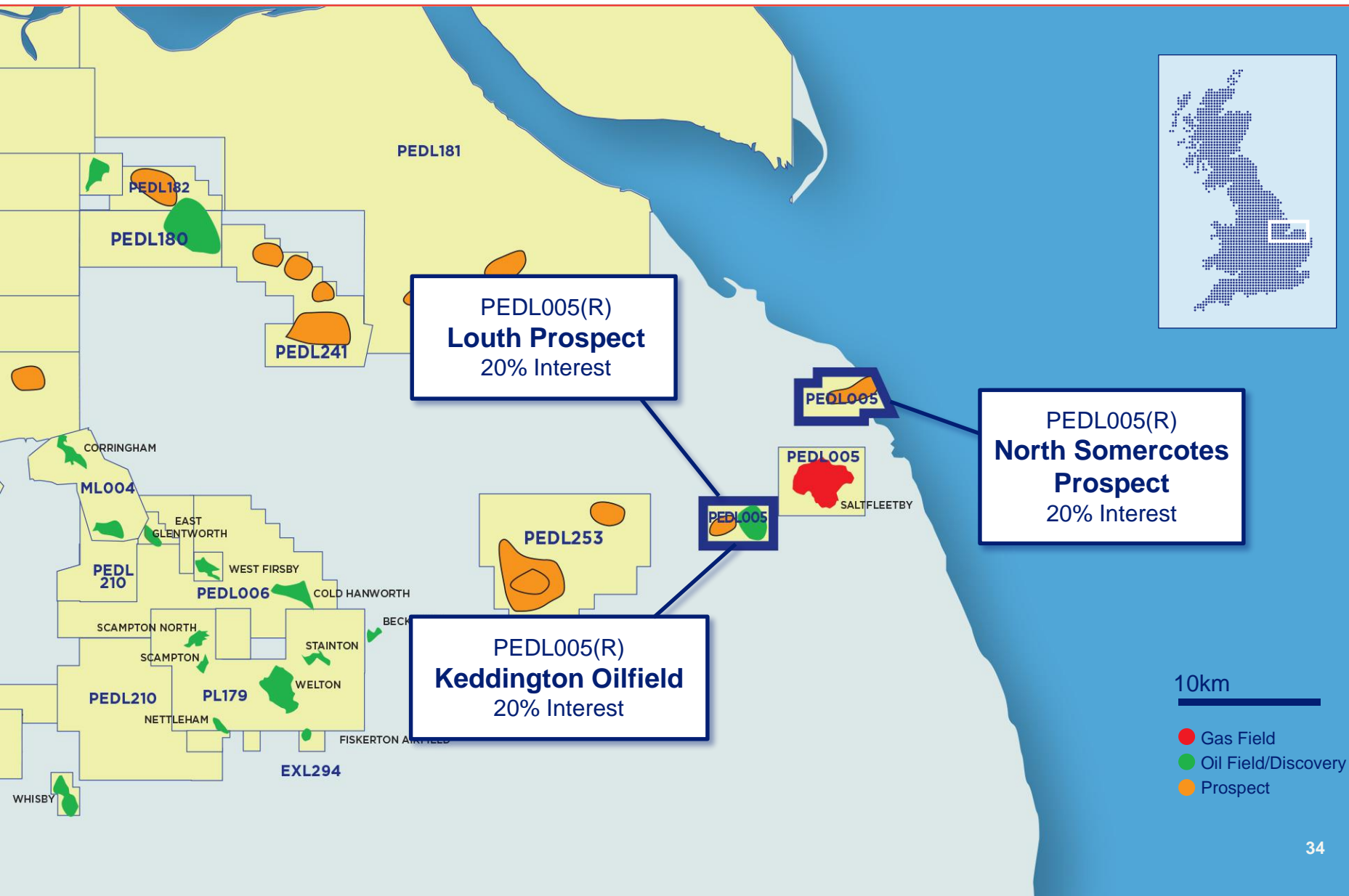
– production potential being investigated



- Kirklington-3Z well currently shut-in and will be production ready following proposed remedial works to site equipment and production decision
- Various studies ongoing to evaluate completion and enhanced recovery options
- Unswept oil reservoirs believed to be present
- Dukes Wood-1 well drilled in 2010 and encountered three reservoir zones
- Studies ongoing to identify reservoir zones containing previously undrained oil resources where unproduced reserves are believed to exist
- Options to bring wells back into production during 2018 being evaluated

PEDL005(R) Keddington Oilfield (20%)

– producing asset with attractive prospects defined



Keddington Oilfield

– producing asset with attractive prospects defined



- Licence holds significant upside potential
 - Seeking to maximise the value of the "Greater Keddington" area
 - Currently being independently mapped by Sotwell Exploration Limited on behalf of Union Jack
 - Results to date suggest suggest Keddington could be more extensive than originally believed
 - Any additional reserves discovered at Keddington or Louth could potentially be produced through the current Keddington facilities in place
- Louth Prospect - oil prospect mapped on re-processed 3D seismic data
 - Estimated to contain Oil Originally in Place of 5.5MMbbls and Mean Prospective Resources of 1.4MMbbls gross
 - Chance of success of 37%
 - Recent geophysical mapping suggests satellite to main Keddington oilfield

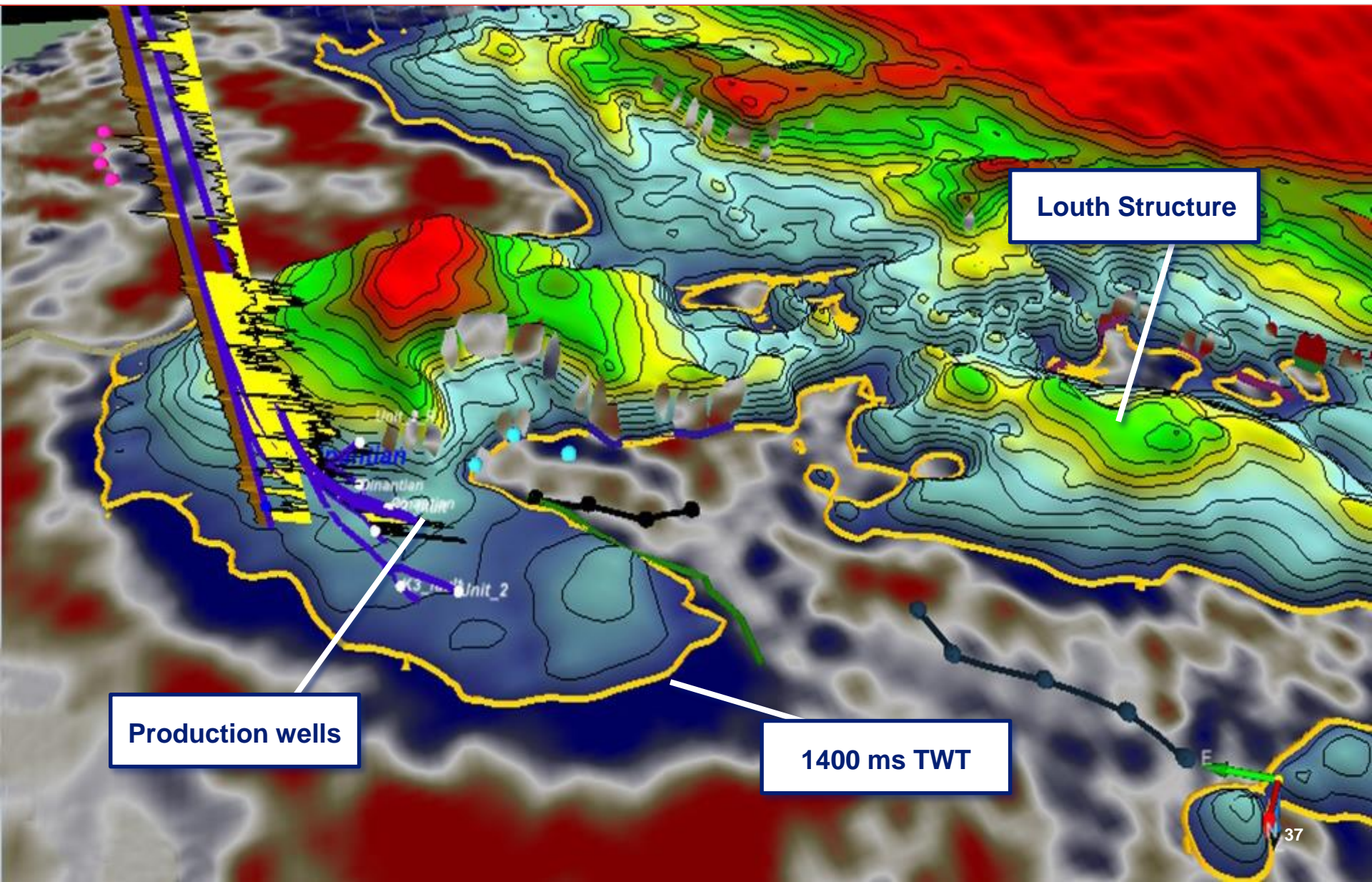
Keddington Oilfield

– producing oilfield facilities



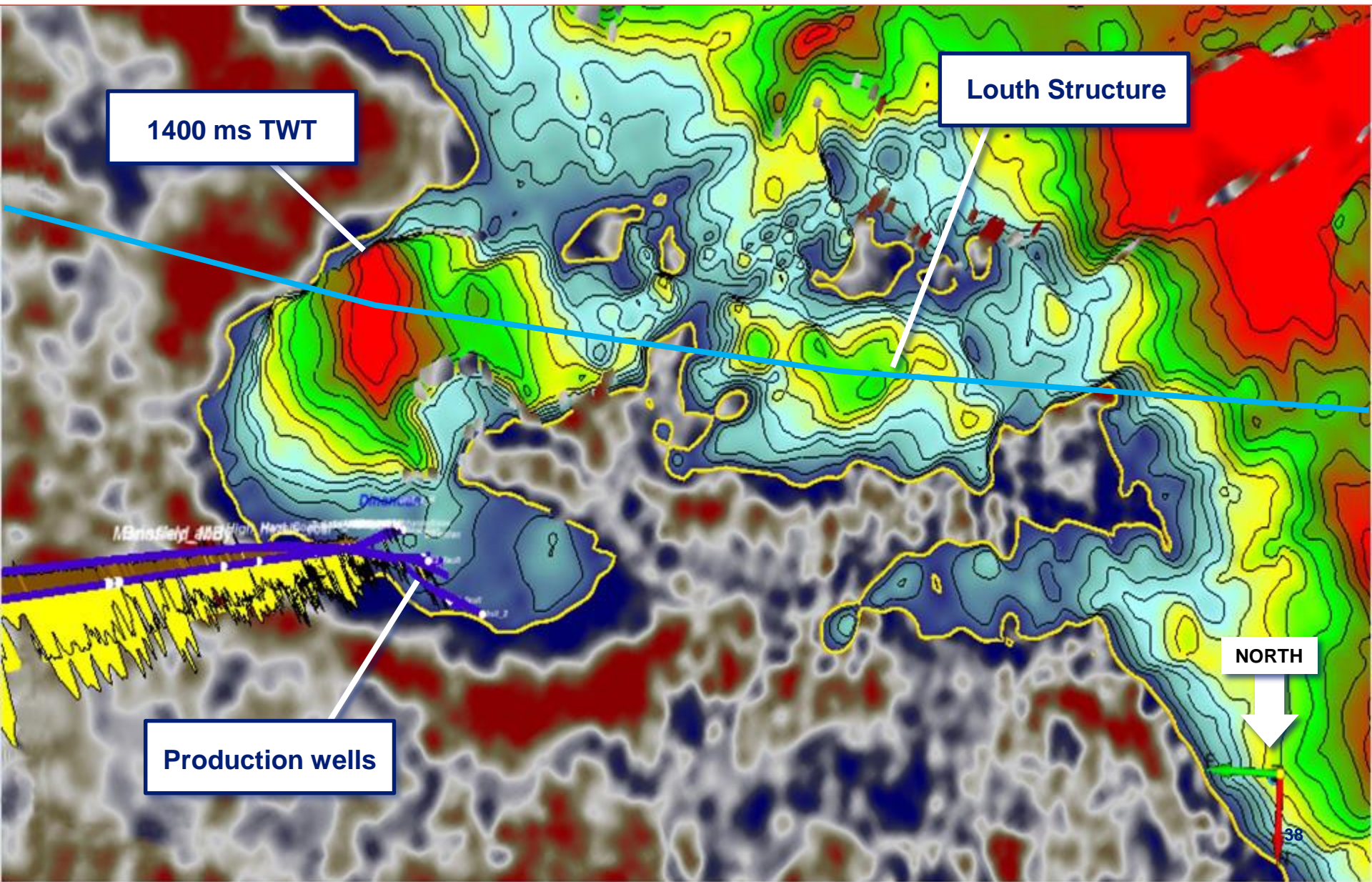
Keddington and Louth Prospect Structures

– Dinantian Two-Way-Time (“TWT”) map



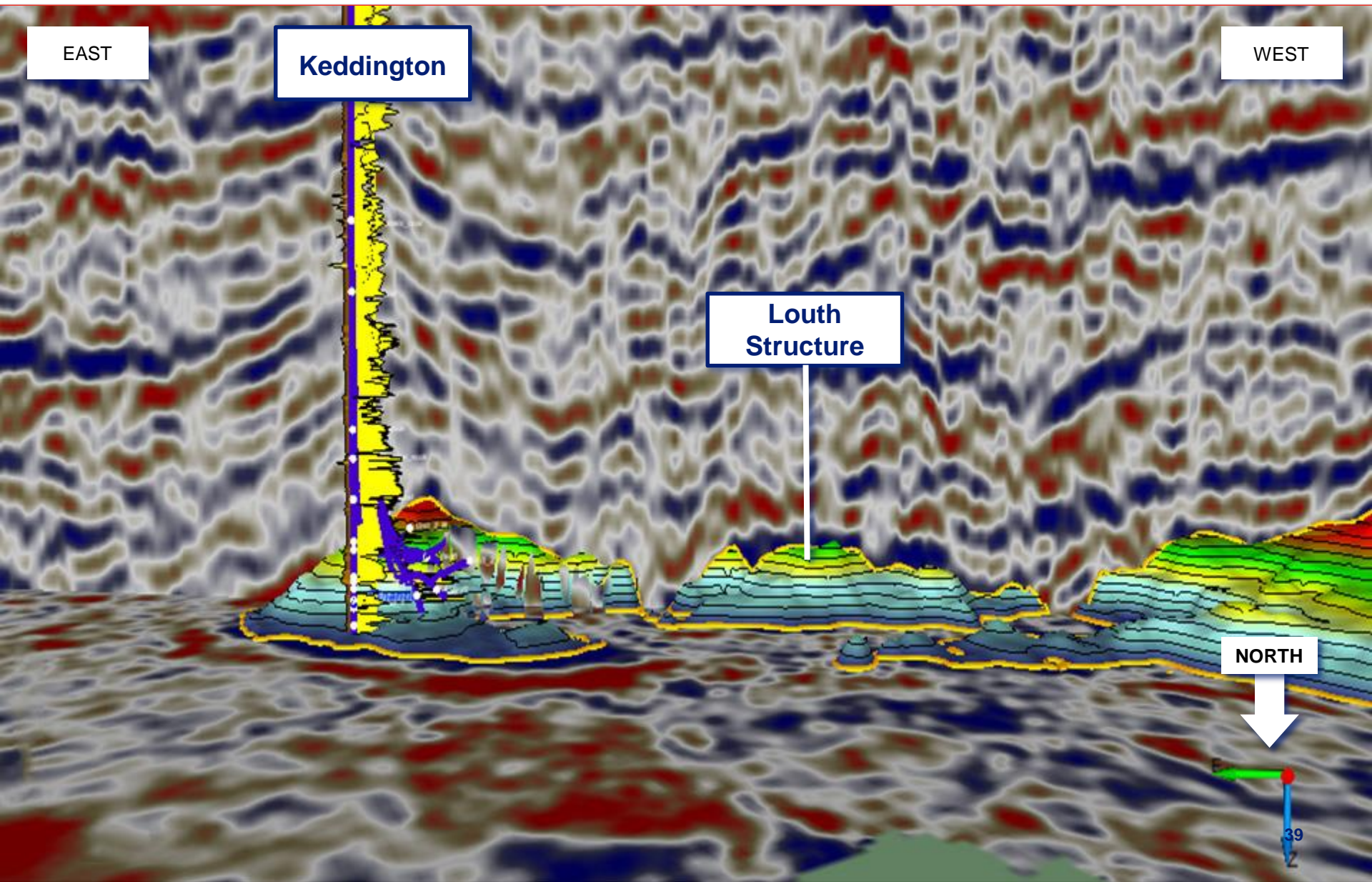
Keddington and Louth Prospect Structures

– Dinantian TWT map showing well clusters / structures

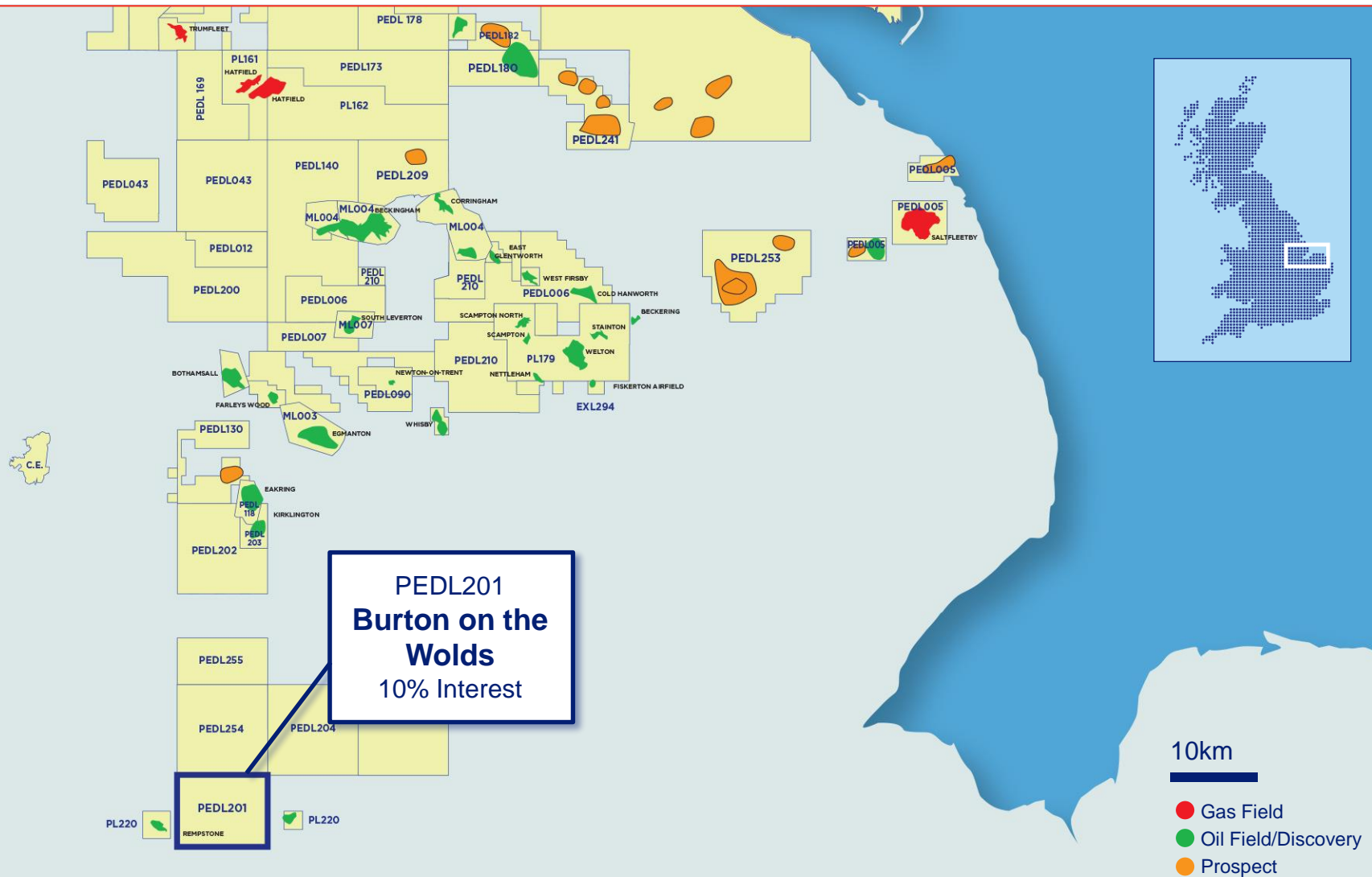


Keddington and Louth Prospect Structures

– identified on seismic line / mapping



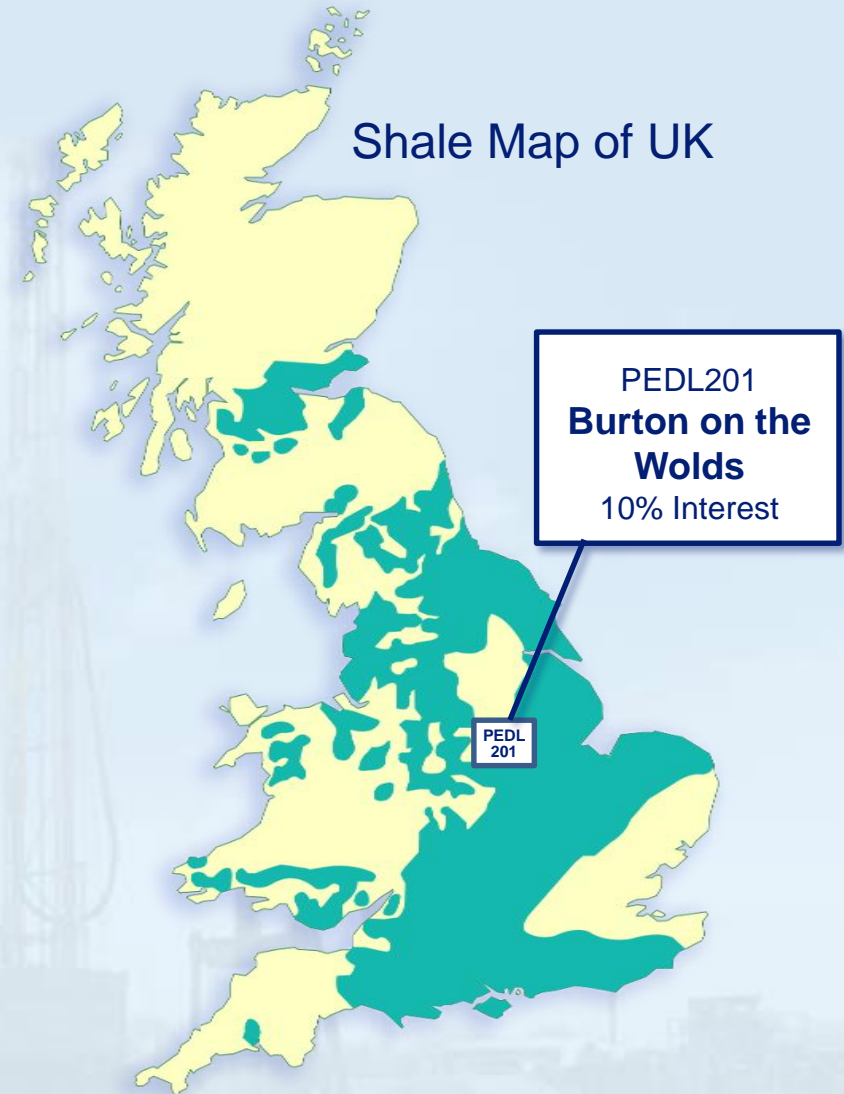
PEDL201 Burton on the Wolds (10%) – significant unconventional prospectivity



Burton on the Wolds

– significant unconventional prospectivity

- PEDL201 is in the onshore UK East Midlands Petroleum Province
 - Situated on the southern margin of the Widmerpool Gulf
- Molten Limited completed a report reviewing the shale resource potential of PEDL201
 - Mean deterministic un-risked in-place volumes within that shale area of approximately 5.4 Bbbl oil and over 2.7 Tcf gas (gross)
 - Mean un-risked in-place volumes of 540 MMbbl OIIP and 270 Bcf GIIP (net to UJO)
- Internationally, horizontal drilling and hydraulic fracturing technologies have permitted extensive shale developments, most notably in the United States
 - Developments such as the Bakken oil play in the US have been producing for over 19 years
 - Shale oil recovery factors in the US have ranged from approximately 1% to nearly 10%.
- Potential in-place volumes could represent significant economic value
 - Even if recovery factors at the low end of those in the US can be achieved in the UK



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- **Positioned to deliver growth: in reserves, production and asset value**
- **Actively evaluating a number of attractive acquisition opportunities**
- **All commitments funded and debt free**
- **Apply strict financial and technical discipline**

Corporate information

- Listed on AIM: 31 July 2013
- Shares in Issue:
 - 5,803,651,431 ordinary shares of 0.025p each
 - 51,407,842 warrants in issue
- Contact
info@unionjackoil.com
- Website
www.unionjackoil.com

- Advisers



- **SP Angel Corporate Finance LLP:**
Nominated Adviser and Joint Broker



- **Turner Pope Investments (TPI) Ltd:**
Joint Broker



- **BDO:** Auditor



- **Osborne Clarke:** Solicitors



- **RBS:** Bankers



- **Computershare:** Registrars

3D Seismic

A set of numerous closely-spaced seismic lines that provide a high spatially sampled measure of subsurface reflectivity

B/Bcf

Billion (1×10^9) / billion cubic feet of gas

boe/boepd

Barrels of oil equivalent (6,000 cf = 1 boe)/barrels of oil equivalent per day

bbl/bopd

Barrels of oil / barrels of oil per day

cf

Cubic feet of gas

COS_{geo}

Geological chance of success

DST

Drill Stem Test

EWI

Extended Well Test

Farm-in

The process of buying into a licence block held by another licensee by paying a proportion of the costs, normally in excess to the interest that is finally earned, e.g., earning a 10% interest on a 2:1 basis means that 20% is paid by the party farming in to earn a 10% interest

GIIP

Gas initially In place

M/Mbbl/Mboe

Thousand (1×10^3) / thousand barrels of oil / thousand barrels of oil equivalent

mcfd

Thousand cubic feet of gas per day

MM/MMbbl/MMboe

Million (1×10^6)/million barrels of oil/million barrels of oil equivalent

mmcf

Million cubic feet of gas per day

NPV

Net present value typically discounted at 10%

OIIP

Oil initially In place

Prospective resources

Those quantities of petroleum which are estimated, as of a given date, to be potentially recoverable from undiscovered accumulations

Recovery factor

The fraction of hydrocarbons that can or has been produced from a well, reservoir or field; also, the fluid that has been produced in comparison to the original hydrocarbons in place

Working interest

A company's equity interest in a project before reduction for royalties or production share owed to others under the applicable fiscal terms

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