

11th Papua New Guinea Mining and Petroleum Investment
Conference and Seminar

Newport Energy Limited
Opening up a new Basin in PNG – PPL 326
8 December 2010



Disclaimer

This presentation ("**Presentation**") has been prepared by Newport Energy Limited ("**Newport**" or the "**Company**") as a summary only and does not contain all the information about the Company's assets and liabilities. This material is given in conjunction with an oral presentation and other more detailed documents and should not be taken out of context. Although the information contained herein is based upon generally available information and has been obtained from third-party sources believed to be reliable, the Company does not guarantee its accuracy, and such information may be incomplete or condensed. To the extent permitted by law, the Company and its officers, employees, agents and advisors do not accept liability to any person for any direct indirect or consequential loss or damage arising from the use of this material.

Not a Prospectus or any Form of Offer

This Presentation, and any further information provided in connection with it, is neither a prospectus nor any other form of offer to invest in Newport securities. Nor should it be considered as the giving of investment advice by Newport or any of its shareholders, directors, officers, agents, employees or advisers. Nor does it purport to contain all the information that a prospective investor may require in connection with any potential investment in Newport. Any recipient of this Presentation must make their own independent assessment of Newport after making such investigations and taking such advice as may be deemed necessary. Accordingly, this information is being supplied to you, in whole or in part, for information purposes only and not for any other purpose.

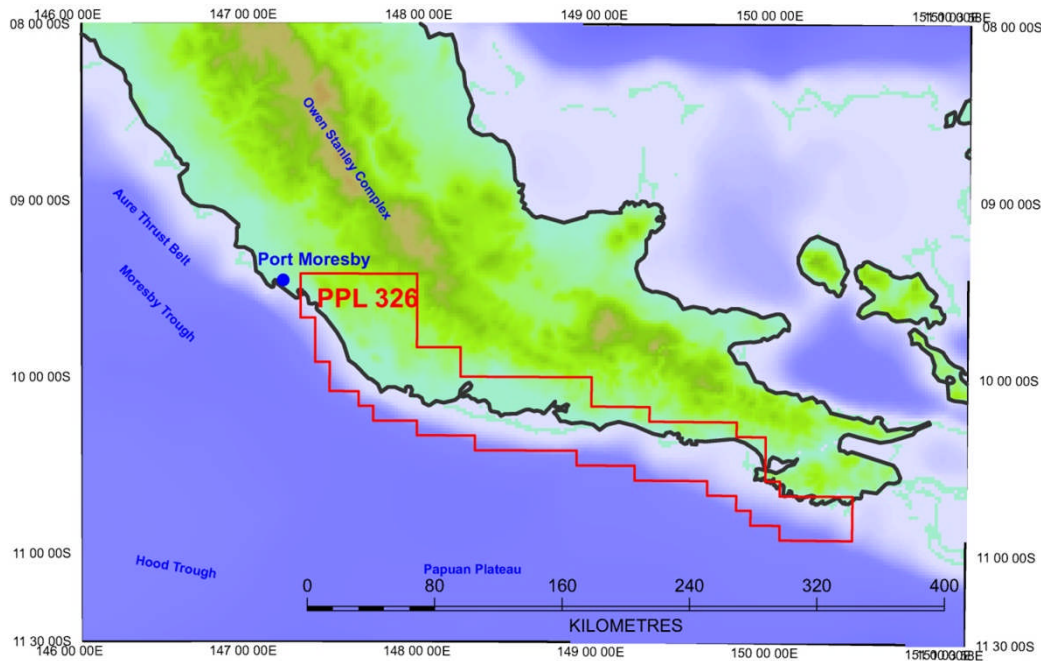
Forward Looking Information

This Presentation contains forward looking and other subjective information. Such expectations, estimates, projections and information are not a guarantee of future performance and involve unknown risks and uncertainties. Actual results and developments will almost certainly differ from those expressed or implied and you should make your own assessment of the expectations, estimates, projections and the relevant assumptions and calculations upon which the opinions, estimates and projections are based. No representation or warranty, express or implied, is given as to the accuracy of the information or opinions contained in this document and no liability is accepted by the Company or director, member, officer, employee, agent or adviser for any such information or opinions.

Company Overview

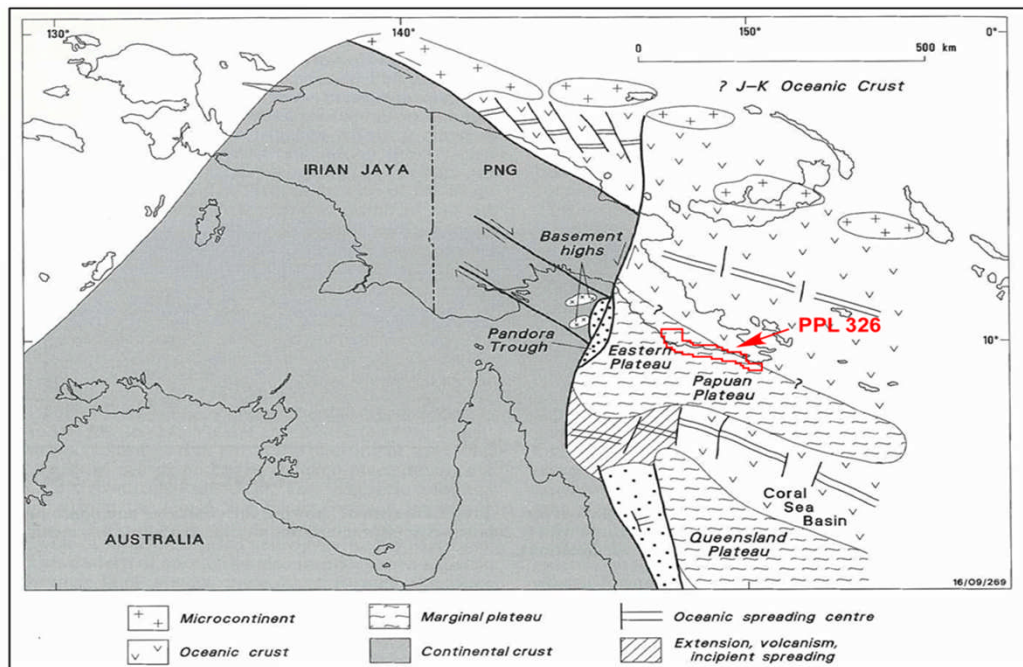
- Unlisted Australian public company
- Headquartered in Sydney
- Currently single asset – PPL 326
- 100% owned PNG subsidiary holds PPL 326
- Wide spread of shareholders
- Experienced Board and Management team

PPL 326 Overview



- Rare greenfield oil & gas opportunity
- Potential new PNG Basin
- 100% owned tenement (“PPL 326”)
- Covers 200 blocks & 16,752km²
- Largely in coastal & shallow offshore
- Multiple prospective plays

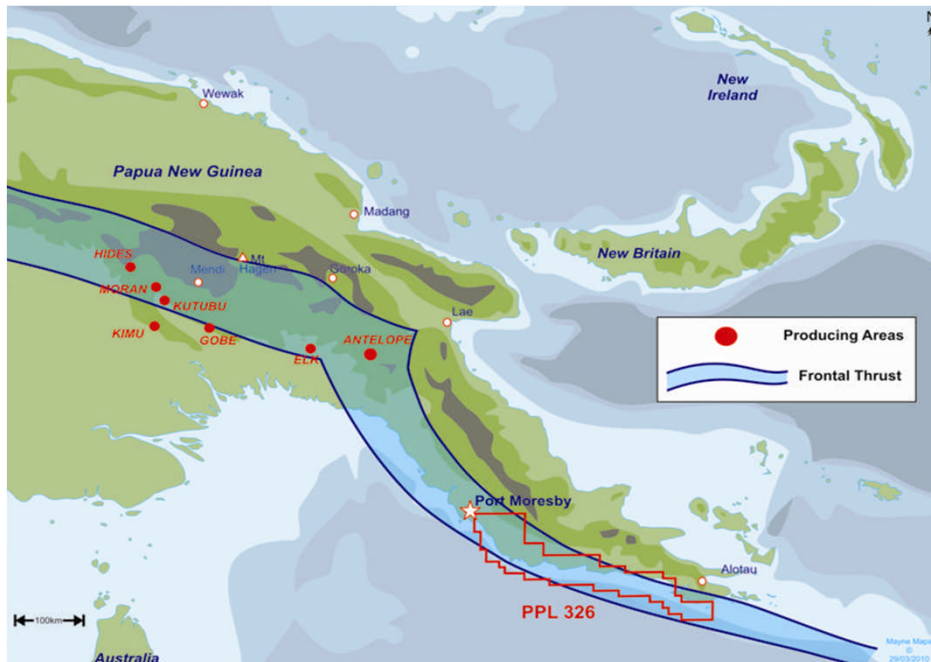
Why PPL 326? – the old



(Source: Pigram, C.J. & Symonds, P.A., 1993)

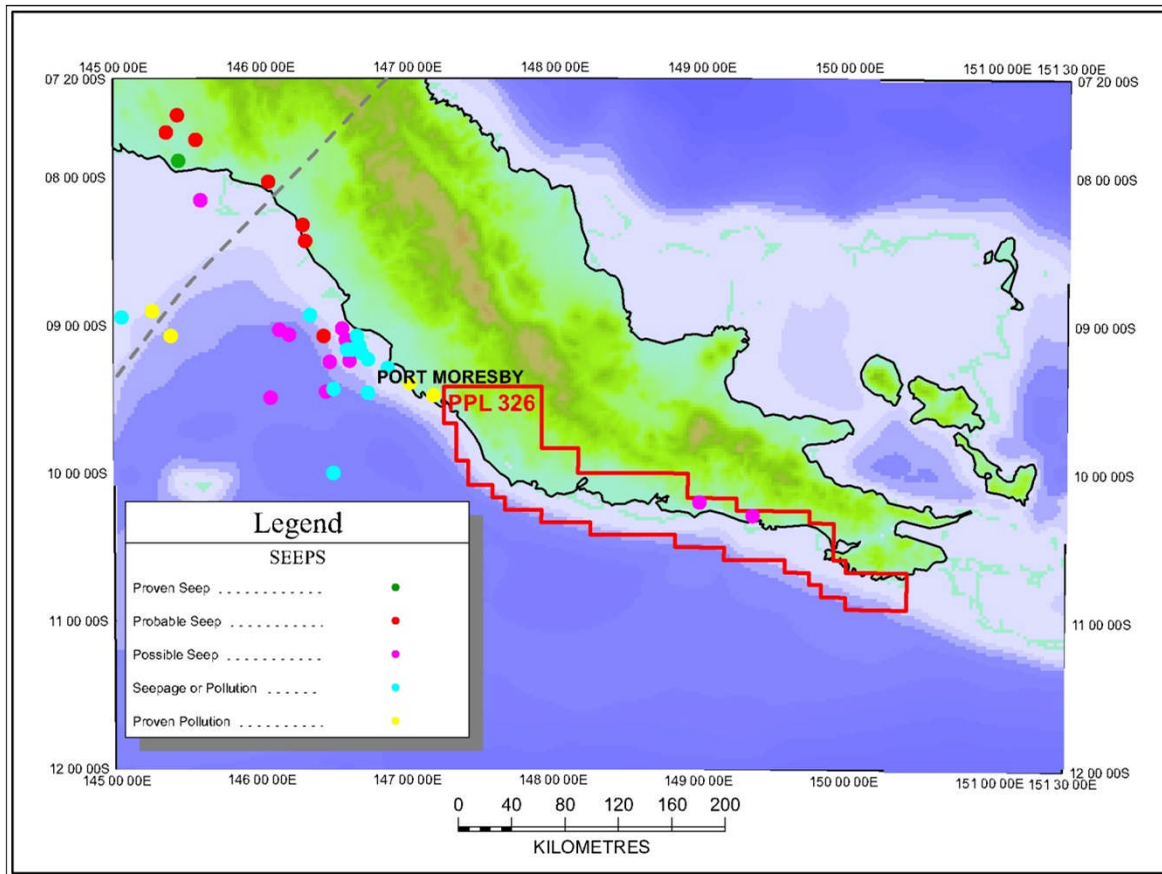
- Old theory was that the prospective area stopped at the transfer fault on the eastern edge of the grey area
- Yet plateaus suggests:
 - continental crust;
 - and
 - new basin,
- to the east
- Note position of transfer fault for oil seeps

Why PPL 326? – the new



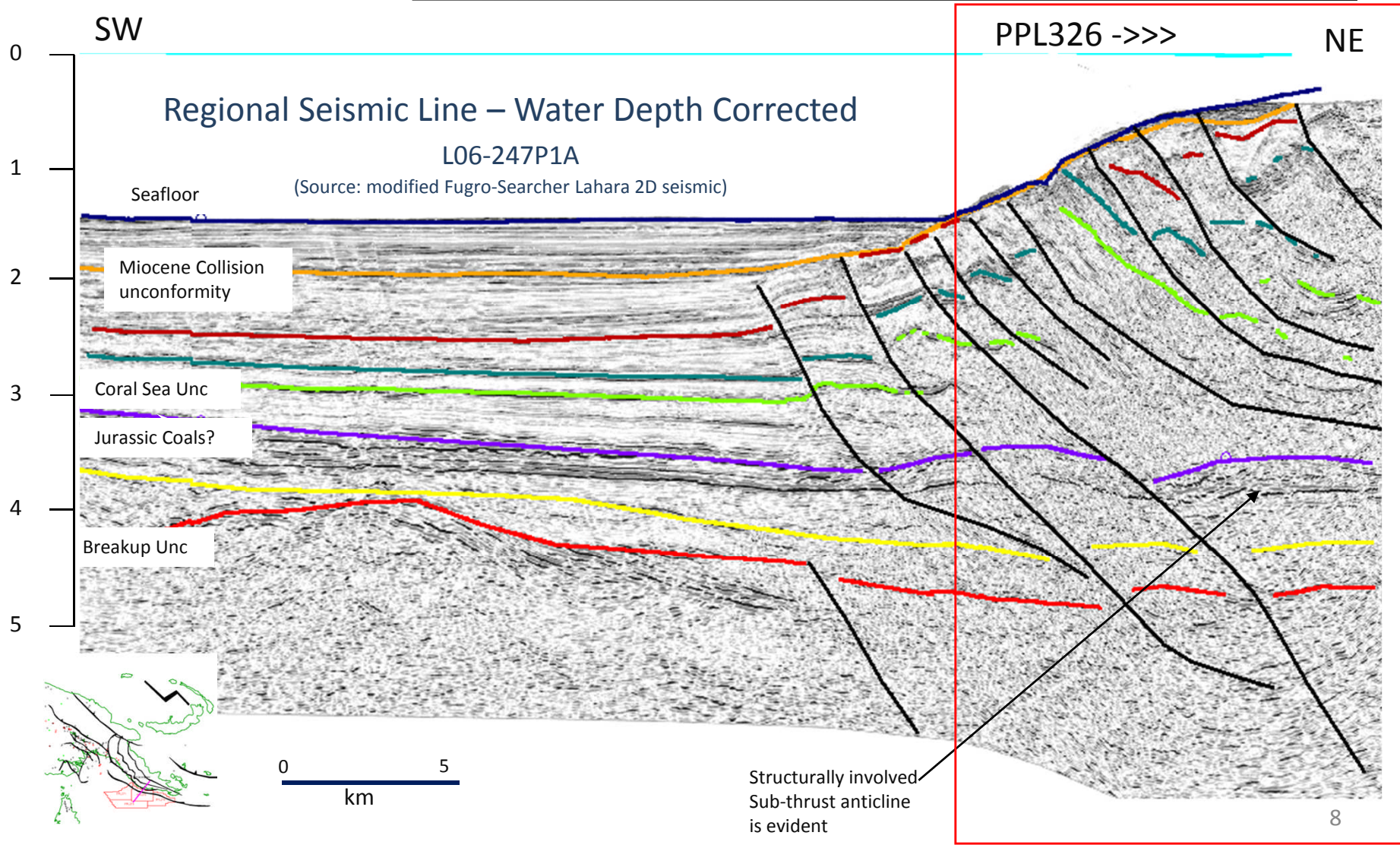
- Rifted margins similar to those in highly productive Papuan Fold Belt - over 300km of folds
- Recognition of sub-thrust sheet below surface geology
- Sheet analogous with Papuan Basin geology and tantamount to a buried highlands
- Also reef structures analogous with Elk and Antelope discoveries
- Experience shows need to be near the edge of the frontal thrust
- PPL 326 is in the right address

Direct evidence of petroleum

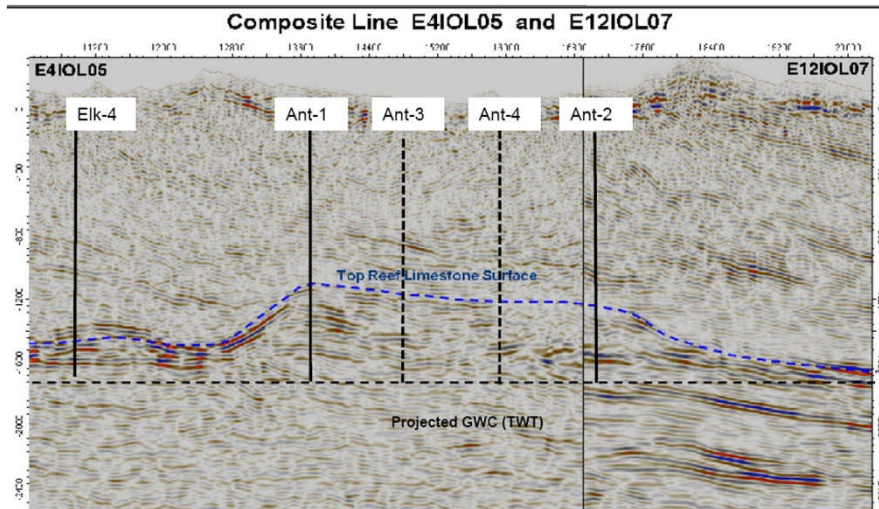


- Independent oil seep analysis
- Transfer fault runs through edge of shallow water in NW corner (dashed line)
- Oil seeps shown therefore are not an expression of the Papuan Basin, 100km to the NW, but an expression of the new basin which PPL 326 is in
- Indicates an active petroleum system

Indirect evidence – buried Highlands



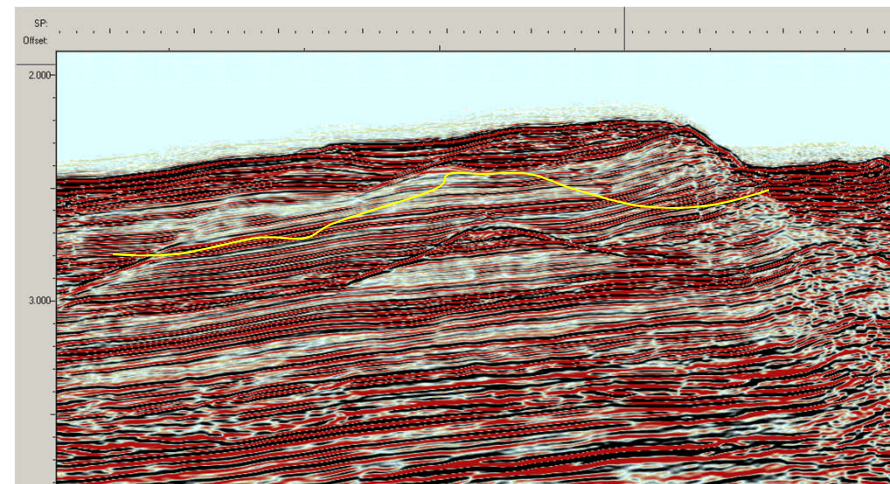
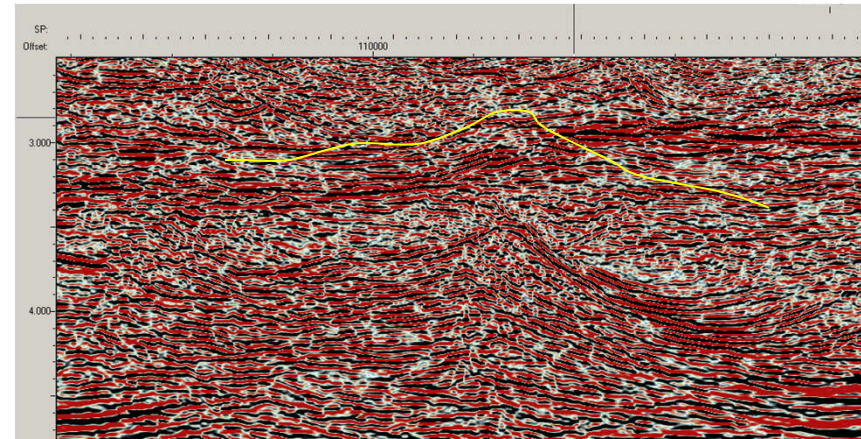
Indirect evidence – reefs



(Source: InterOil Corp.)

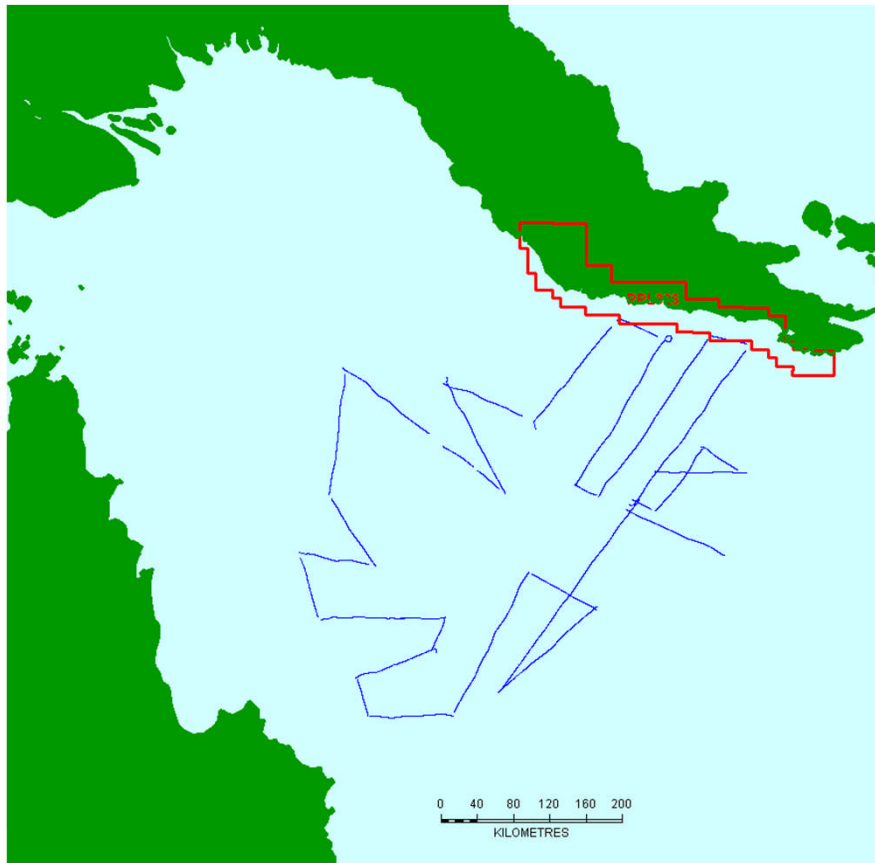
The other play in PNG is Miocene Reefs.

- The seismic signature seen above on the Elk-Antelope Field (8.3TCF) is characteristic.
- On the right are similar reef structures found within PPL 326.



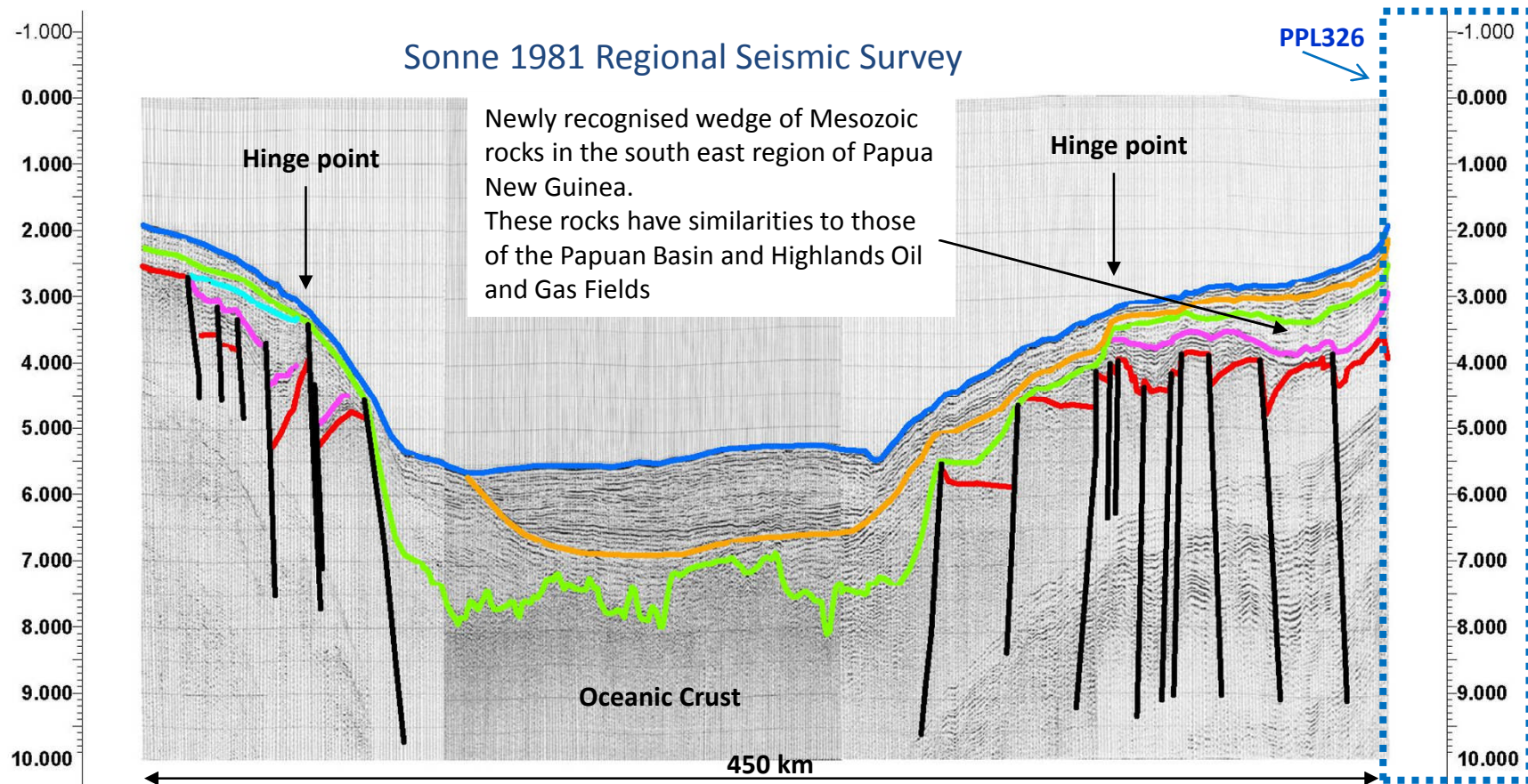
(Source: Fugro-Searcher Lahara 2D seismic)

Regional situation

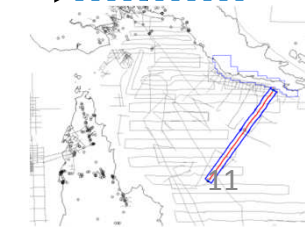


- The “lost” 3,200km Sonne data has been found
- Includes a 450km line joining Queensland Basin to PPL 326
- Basin architecture flowing from this confirms Newport Energy’s view on PPL 326 of a Mesozoic petroleum system in the region of PPL326.
- Will result in savings in time and cost

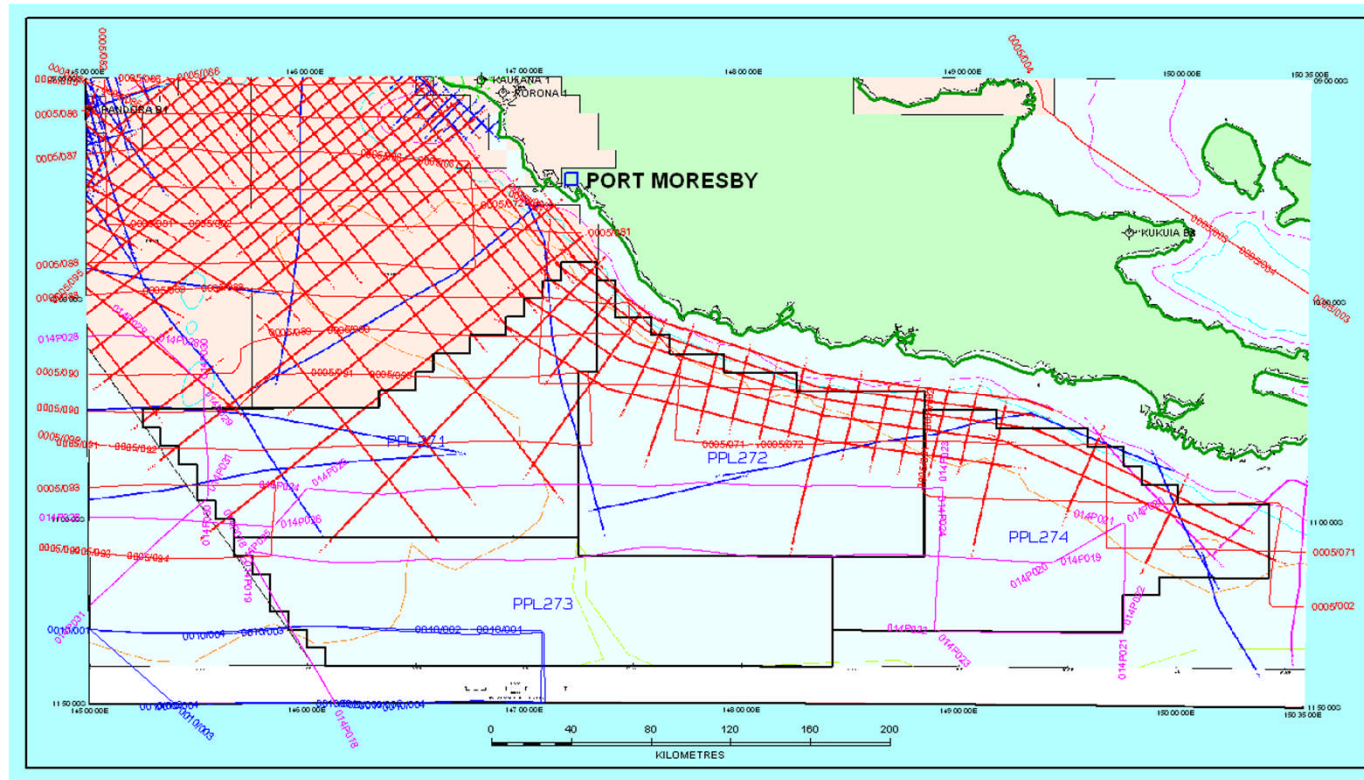
Regional situation



- | | | | | |
|--|------------------------|---------------------------|--|---------------|
| | Sea Floor | | | Cretaceous |
| | Collision Unconformity | Mesozoic Petroleum System | | Jurassic Coal |
| | Breakup Unconformity | | | Basement |

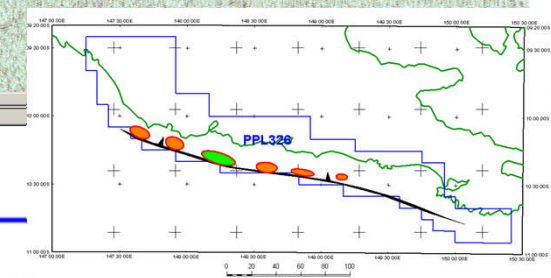
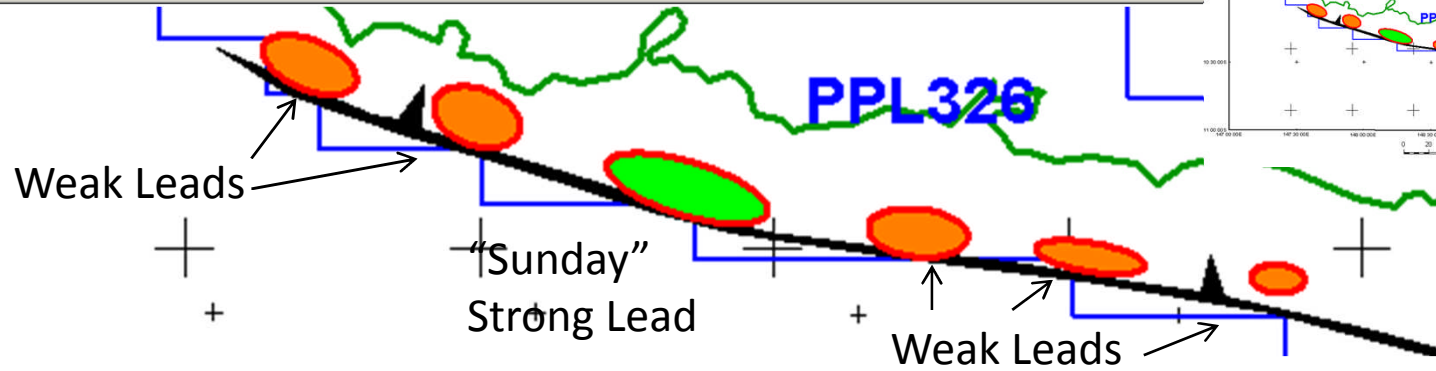
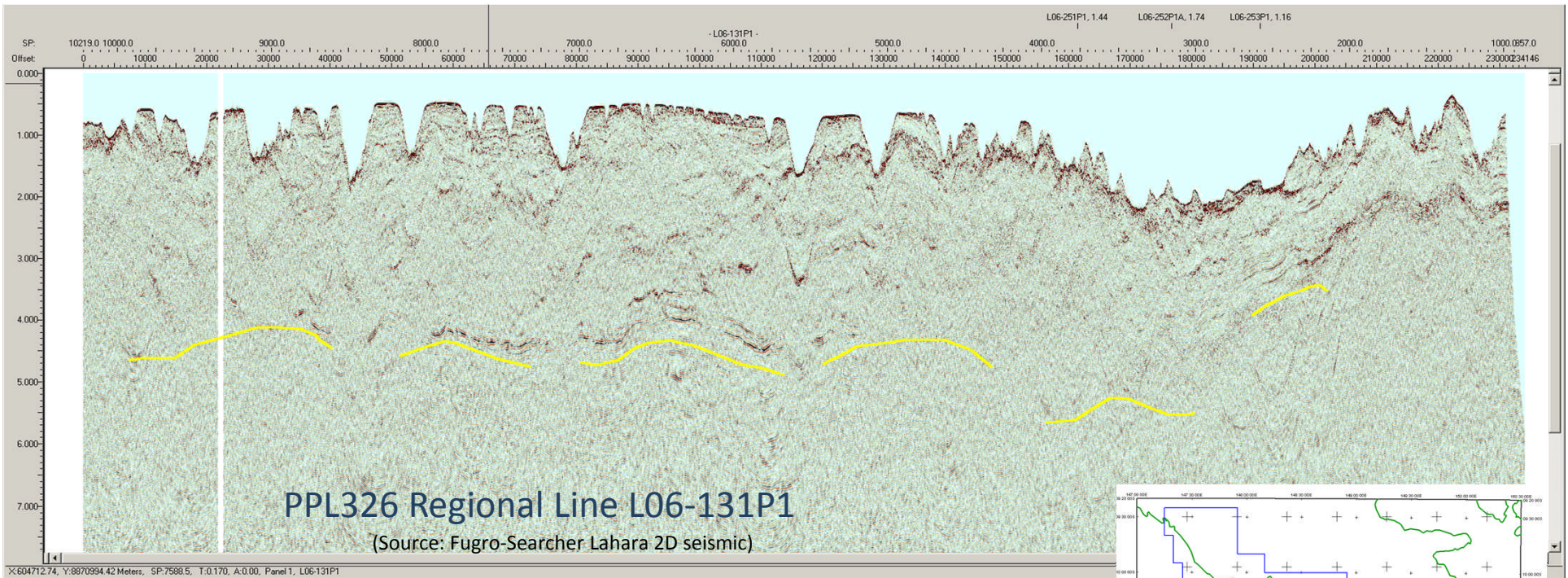


Analysing existing data



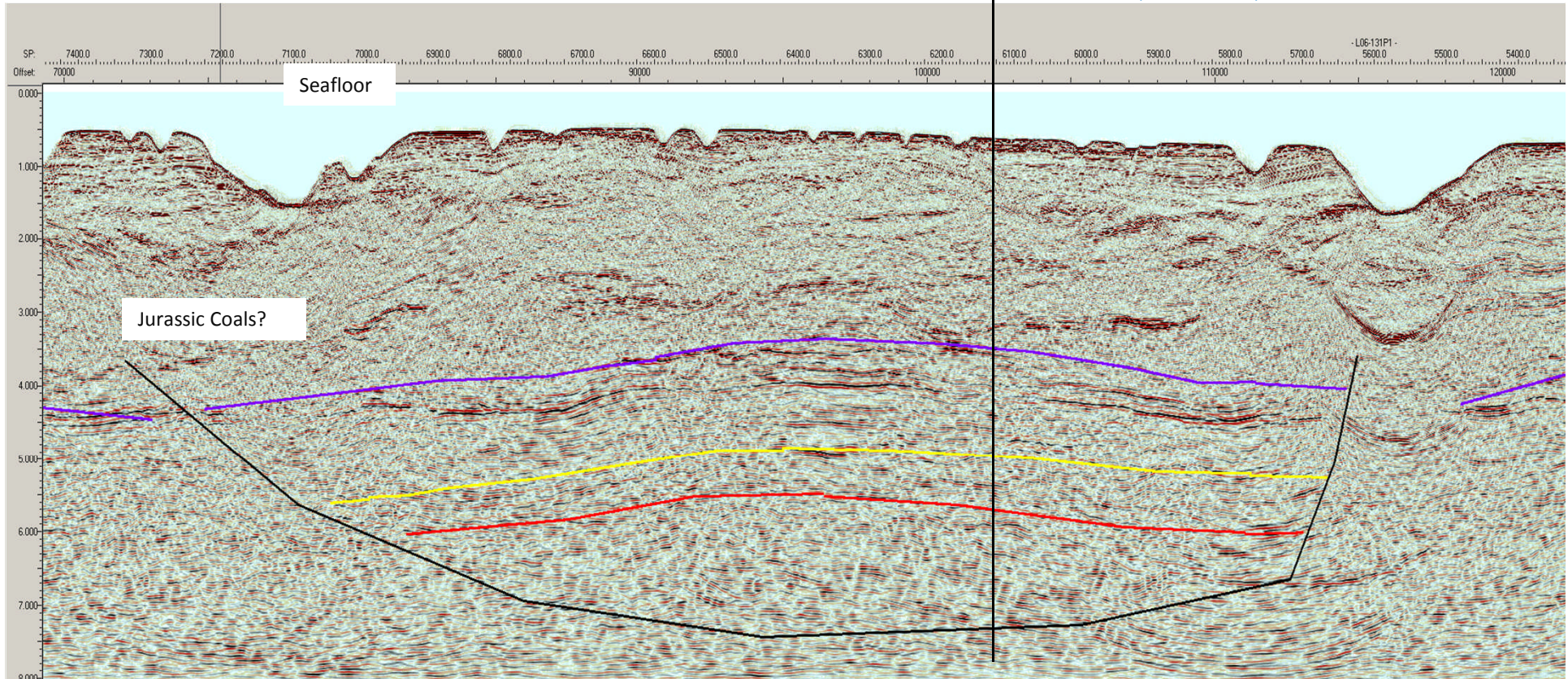
A lot of modern data acquired by Fugro-Searcher goes into southern edges of PPL 326, which has been analysed

From the analysis Leads emerge



Sunday Strong Lead

L06-247P1A (seen earlier)

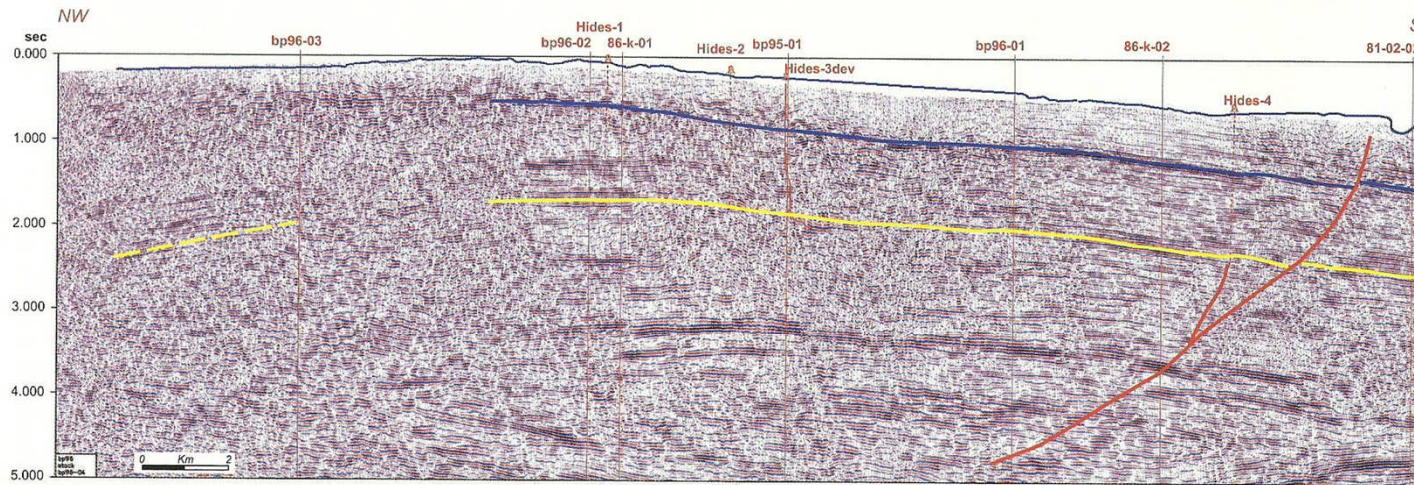


0 km 40

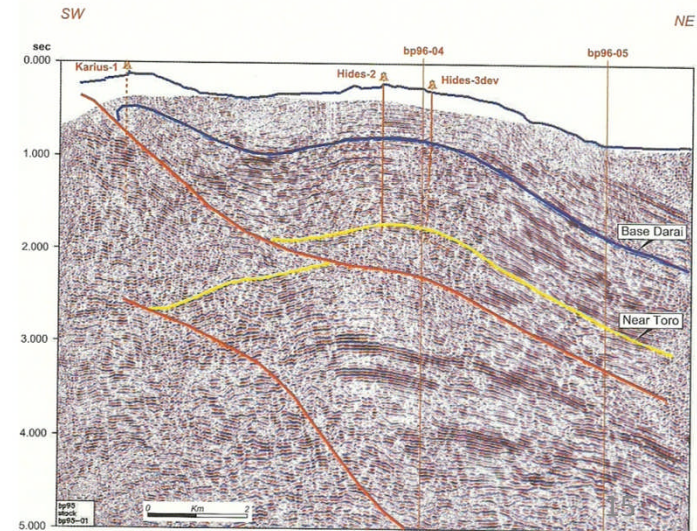
Regional Seismic Line – L06-131P1

(Source: Fugro-Searcher Lahara 2D seismic)

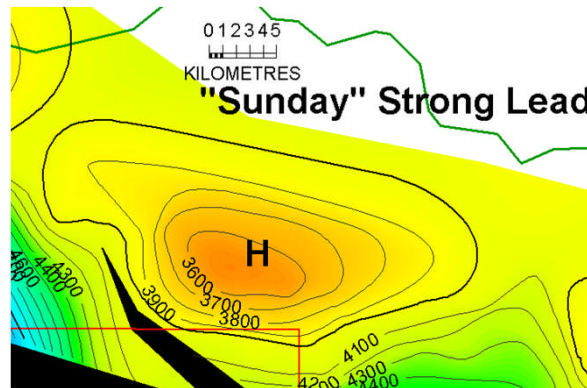
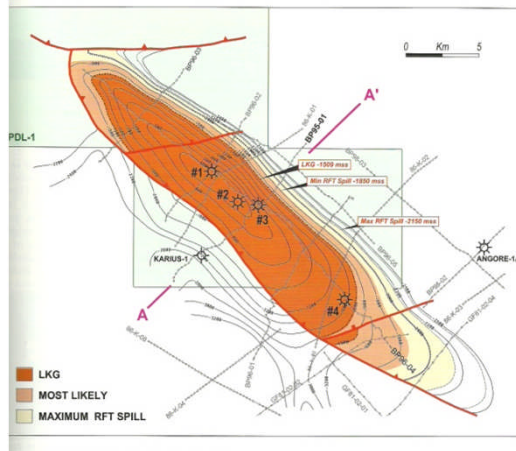
Sunday Strong Lead



Compare the strike and dip lines over the Hides field and note the similarities



Sunday Strong Lead



	Low	High
Net/Gross %	44	62
Porosity %	7	11
Sw %	15.8	19.6
Perm md	0.01	800
Recovery	75	
Toro Sst m	100	
Column m	1240	1800 Gas on rock
Anticline m	2000	35km long 5 km wide
Target Depth m	3000	
Initial Flow MMscfd	15.9	
bopd	39.6	
Pressure PSI	5600	5950
CGR stb/MMcf	36	
Condensate API	50	56

Hides data from Johnstone and Emmett 2000
 Petroleum Geology of the Hides Gas Field...
 Proc 4th PNG Petroleum Conf

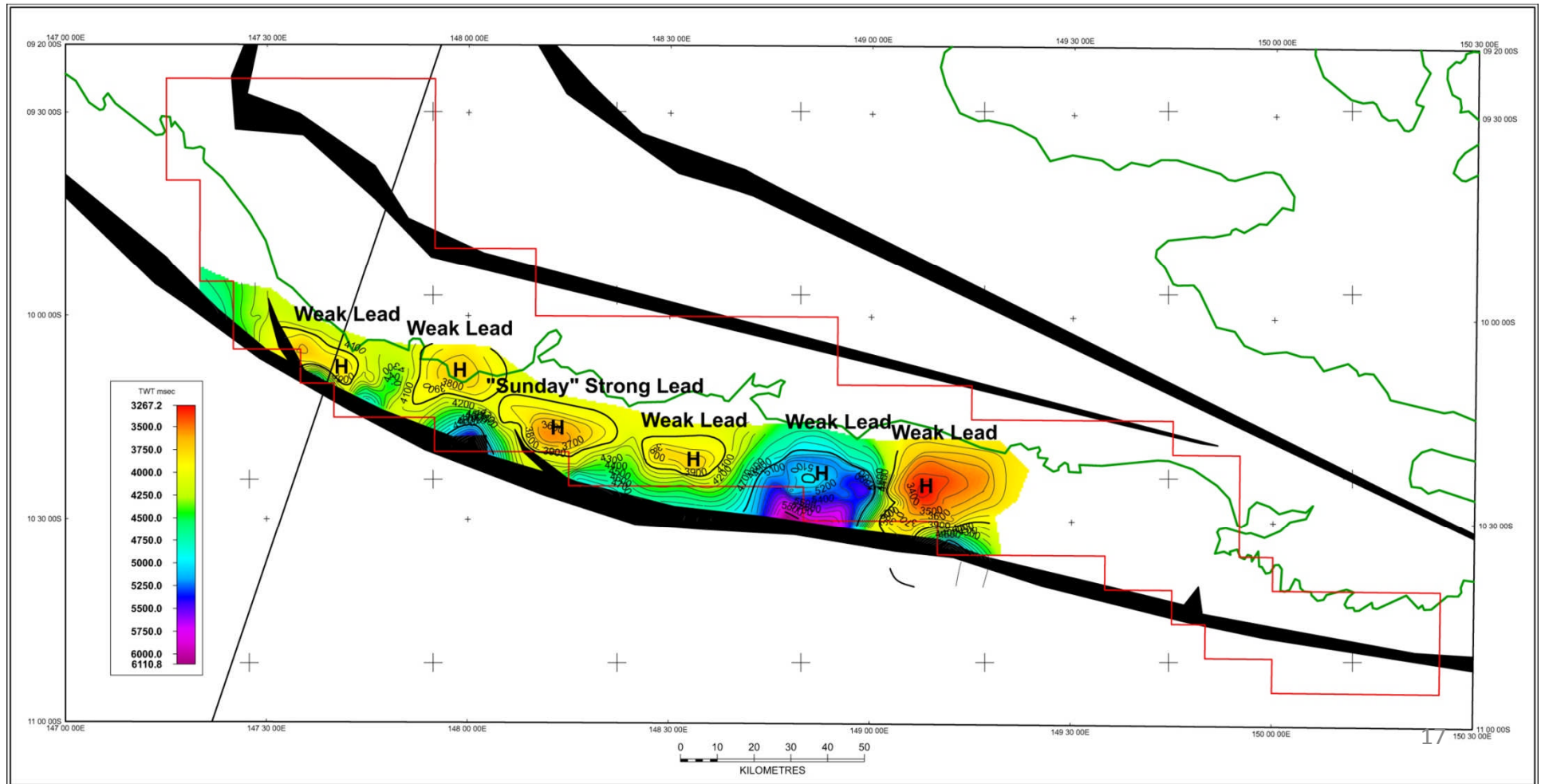
	AREA acre	AREA KM*KM	HEIGHT FEET	GEOMETRIGRV FACTOR	GRV MM m cub	net	POROSIY PHI	So	1/Bo	OIL/GAS TOTAL	OIP [MMbbls]	Recovery factor	
Hides	43209	174.99645	300	16001.675	0.8	12,801	0.55	0.1	0.82	1	0.03	100.87	1 100.8715 OIL MMBBLS
Hides	43209	174.99645	300	16001.675	0.8	12,801	0.55	0.1	0.82	0.0025	1.00	8155.44	0.7 5708.809 GAS BCF
						OIP = 6.28983 * GRV * Phi * So * 1/Bo [MMbbls]							
						GIP = 0.00353 * GRV * Phi * So * 1/Bo [BCF]							
Sunday Lead	69135	279.99675	300	25602.903	0.8	20,482	0.55	0.1	0.82	1	0.03	161.40	1 161.3958 OIL MMBBLS
Sunday Lead	69135	279.99675	300	25602.903	0.8	20,482	0.55	0.1	0.82	0.0025	1.00	13048.82	0.7 9134.174 GAS BCF

Field Analogy – Hides (Papuan Basin):

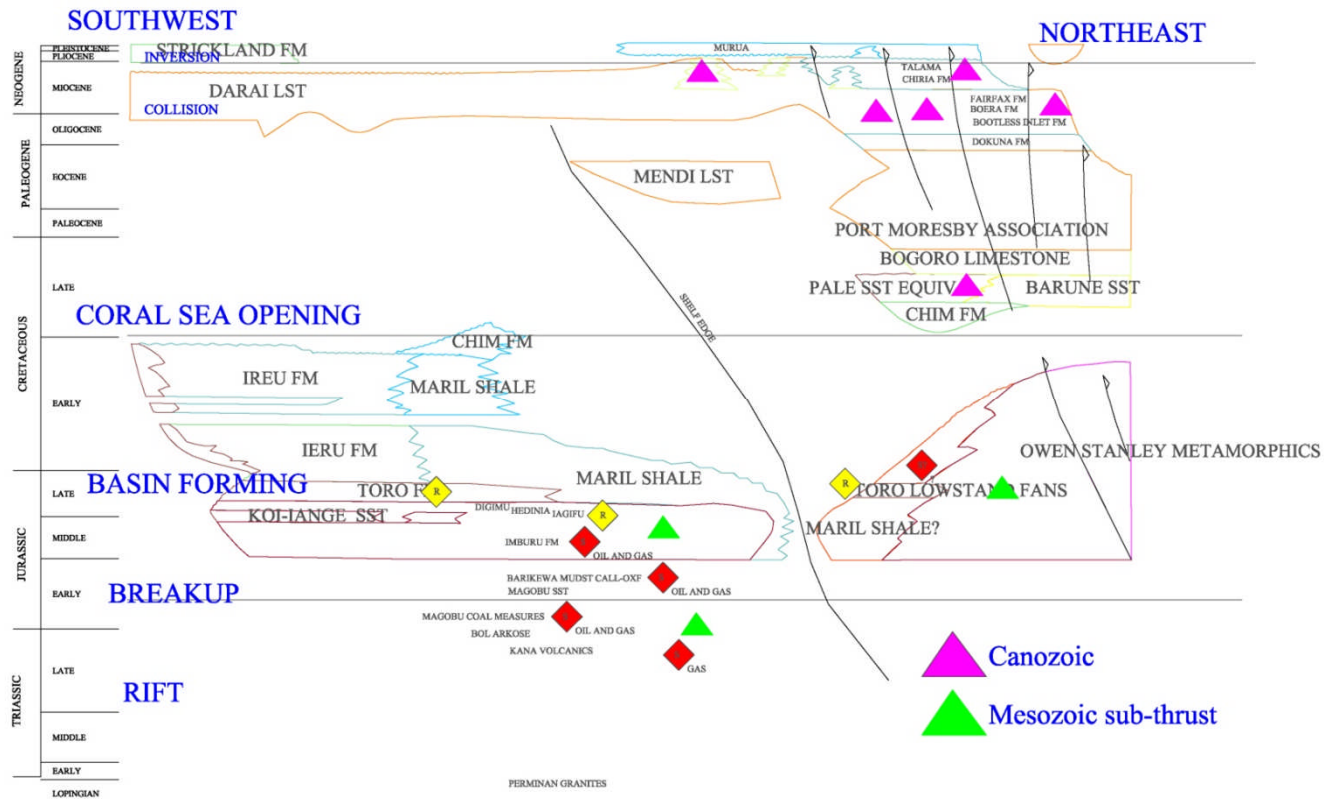
- The size of the Sunday Strong Lead is comparable with Hides.
- We are looking at Elephants here

Not one but many

Sunday is but one of many and this is from just one strike line in the Tenement



The plays



9-10 play types to pursue, including the 2 proven PNG plays

De-risking the Permit

G&G to date has considerably de-risked the permit from ‘moose’ pasture to be one of the most exciting exploration opportunities in the region

Exploration work	Observation
Gravity	geoid anomaly established region of thick crust
Magnetics	regional grid establishes basement depth and dip
Surface Geology	indicative of over thrusting
Topography	indicative of numerous large anticlinal development
Seeps	indicates active petroleum system
Regional Seismic	defines basin
Semi-regional seismic	defines exploration plays and leads
Seismic Stratigraphy	interpretation of source and reservoir units
Basin Analysis	significant petroleum "kitchen" likely
Geological reconstruction	point to region being a Tethyan type basin
Basin Affinities	Papuan Highlands and Northwest Shelf Australian basins
Plays, Leads and Prospects	10 play types identified, many leads now identified

University of PNG engaged to assist on surface work and landholder survey

The path ahead

- Access further existing data and further map the leads
- Work “Sunday” strong lead into a prospect
- Continue landholder survey
- In 2011 acquire new seismic and continue to map the anticline trends
- Investigate the reported oil seeps
- Continue the work with the University
- Aero survey

Summary

- We are focussed on PPL 326 and moving it to development
- We believe PPL 326 represents a new basin with enormous potential
- PPL 326 represents the same if not greater opportunity as with the Highlands, but in a logistically better location
- There are a number of other play types available to pursue at the same time
- The early work of the Company has significantly de-risked the area

Contact

David Williams
Newport Energy
Managing Director
Level 8
65 York Street
Sydney NSW 2000

T: +612 8215 1519
E: david.williams@
newportenergylimited.com

W: www.newportenergylimited.com

