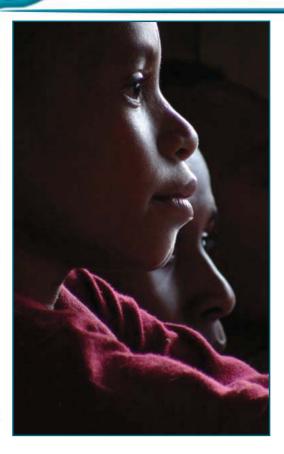
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# OIL SEARCH LIMITED



# Creating value for Stakeholders

Macquarie 12th Annual Australia Conference, May 2011



# **OSH Strategies to Create Value**

- Optimise current oil and gas production:
   Through improved efficiencies and pursuit of near field opportunities
- Maximise value of PNG LNG Project (T1 & T2):
   By utilising in-country knowledge to assist
   Operator
- Develop LNG and other gas expansion opportunities:
   Build gas resources for both PNG LNG expansion

and standalone LNG project/s

- Measured programme of other growth options:
   Optimise exploration portfolio
- Ensure Oil Search's Sustainability:
   Operate business in transparent and sustainable manner to ensure long term operating stability and enhance 'social licence to operate'





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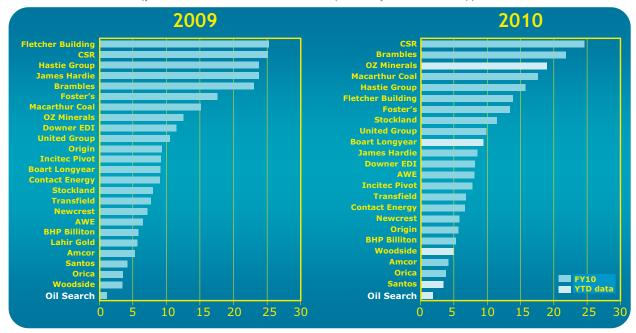
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# **World Class Safety Performance**

### Total Recordable Injury Frequency Rate Data

(per Million Hours Worked (All Reported Data))



Source: Company data, Citi Investment Research and Analysis. Note: TRIFR - Total Recordable Injury Frequency Rate per 1 million hours worked; \* Lihir Gold taken over by Newcrest. (September 2010); \*\* Citi estimate for Macarthur Coal's Group TRIFR based on operations' weighted average coal production.





# Sustained Top Quartile Performance



- OSH has delivered an annualised TSR of 15% over last five years
- Performance driven by delivery of FID on PNG LNG, strong underlying oil business, tight cost control and good oil prices
- Recent Strategic Review highlighted potential to continue to generate top quartile growth from existing asset base
- Over 40 initiatives now in place and being implemented over next three years



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# Key Oil and Gas Fields, PNG





# PNG LNG Project Update





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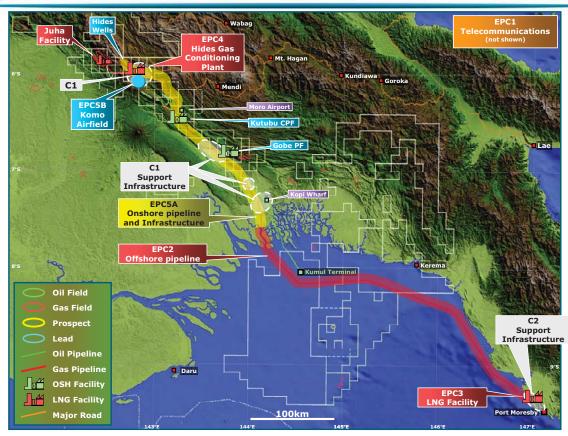
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# **PNG LNG Project**

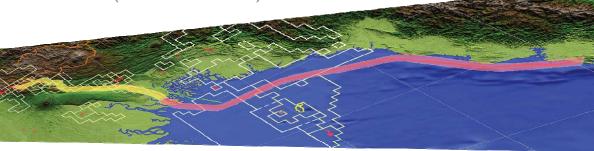




# **PNG LNG Project**

- 6.6 MTPA, 2 train development, operated by ExxonMobil
- Over its 30-year life, PNG LNG expected to produce over 9 tcf of gas and 200+ million barrels of associated liquids
- Four-year construction period. First LNG sales in 2014, capital cost estimated at US\$15 billion
- Initial Equities:

<ul><li>ExxonMobil</li></ul>	33.2%
<ul><li>Oil Search</li></ul>	29.0%
NPCP (PNG Government)	16.8%
Santos	13.5%
<ul><li>JX Nippon</li></ul>	4.7%
<ul><li>MRDC (PNG Landowners)</li></ul>	2.8%



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# **PNG LNG Project**

 Fully contracted to Asian buyers, with continuing strong market interest

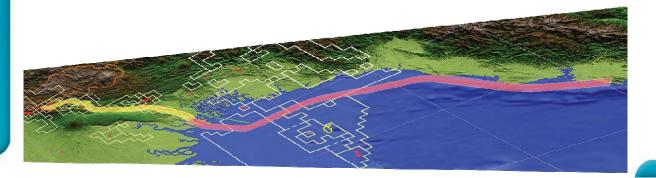
### Buyers:

Sinopec	(China)	2.0 MTPA
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TEPCO	(Japan)	1.8	<b>MTPA</b>
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Osaka Gas (Japan)
1.5 MTPA

- CPC (Taiwan) 1.2 MTPA





# **PNG LNG Project**

### Main EPC contractors:

– LNG Plant : Chiyoda/JGC

Offshore Pipeline : Saipem

Hides Gas Plant : CBI/Clough

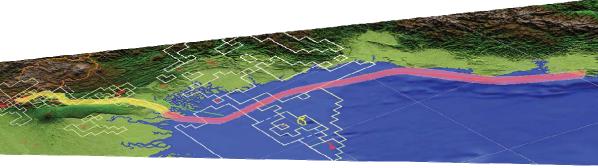
Onshore Pipeline : Spiecapag

Infrastructure : McConnell Dowell/CCC

- Early Works : Clough/Curtain

### — Associated Gas contractor:

Aker Solutions (Jacob) (OSH only)





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# PNG LNG Plant Site, Port Moresby





### 2010 Activities:

 Early construction activities including accommodation camp, road bypass

### 2011 Activities:

- Procurement,
   earthworks,
   foundations (first
   foundation poured end
   March)
- Commencement of structural steelwork, pipe racks
- Jetty works, tank foundations

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# Kopi Shore Base and Onshore/Offshore Pipelines





2010 Activities:

wharf

Construction of Kopi

Commencement of

 Continued procurement and mobilisation of onshore/offshore pipe

delivery of pipe to Kopi

- Route clearance and commencement of onshore pipe lay
- Preparations for offshore pipe lay







# **PNG LNG Upstream**







### 2010 Activities:

- Opening supply routes
- Early construction activities in Highlands including clearing, road and bridge upgrades
- Earthworks at Hides plant site and Komo airfield

### 2011 Activities:

- -HGCP and Komo Airfield
  - Earthworks, foundations and start of construction
- Mobilisation of drill rigs

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# Associated Gas (AG) Project







### 2010 Activities:

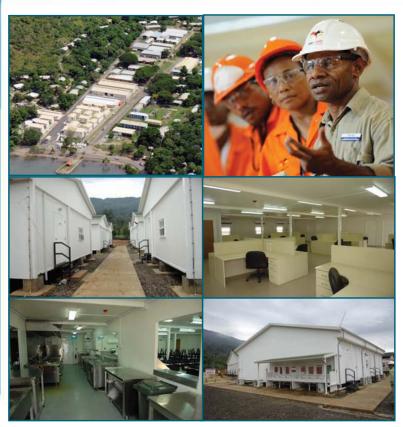
 Planning activities for AG work and PL Extension Project

### 2011 Activities:

 Commencement of construction



# **Training Facilities**



### 2010 Activities:

 Construction of training facilities at POM Tech in Port Moresby (operational) and Juni

### 2011 Planned Activities:

Complete Juni training facility





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# 2011 PNG LNG Project Focus Areas



- Ramp up of logistics and resourcing
- Onshore pipeline installation terrain, multiple work fronts
- Continued work with project area communities
- Efficient use of landowner companies to deliver maximum local content (over K1.5bn to date)
- Engagement with Government during National Election build up



### **Timetable**

O L S E A R C H L I M I T E D

- Continued early works
- Detailed design
- Order long leads and place purchase orders
- Open supply routes
- Contractor mobilisation
- Commence AG construction

- Complete AG
- Continue onshore pipe lay
- Complete offshore
- pipe lay •Start Hides plant installation

**First Gas from** Train 1, then Train 2

2010

2011

2012

2013

2014

Financial **Example** Close

- Ongoing procurement and mobilisationAirfield construction

- Drilling mobilisationStart offshore pipeline construction
- Onshore line clearing and laying
   Start LNG construction
- •Complete pipe lay •Ongoing drilling •Complete Hides plant
- •Commission LNG plant with Kutubu gas





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Gas Growth

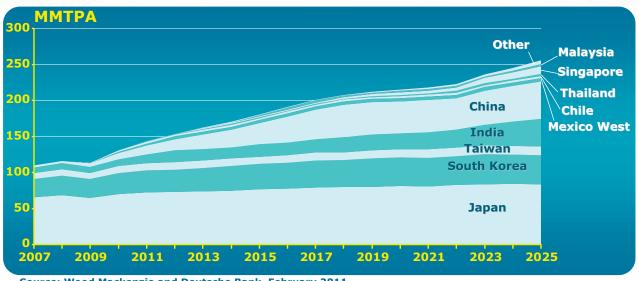
**Opportunities** 







# Strong Asian LNG Markets Outlook



Source: Wood Mackenzie and Deutsche Bank, February 2011

- Strong long term demand outlook for LNG, particularly post Japan earthquake
- -Multiple potential suppliers of LNG post 2015
- Economically robust brownfield expansions with quality operators will have advantage when seeking offtake agreements

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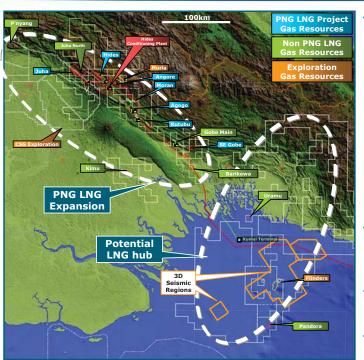
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### **PNG Gas Growth Hubs**



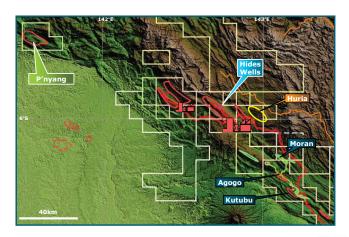
- Oil Search pursuing twopronged LNG expansion strategy
  - Highlands based resources close to PNG LNG infrastructure
  - Gulf region gas, integrated with existing gas infrastructure or stand alone
- Core development infrastructure being built by PNG LNG
- Government pushing for further development
- LNG expansion highest returns but power opportunities also attractive

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# **PNG LNG Expansion**

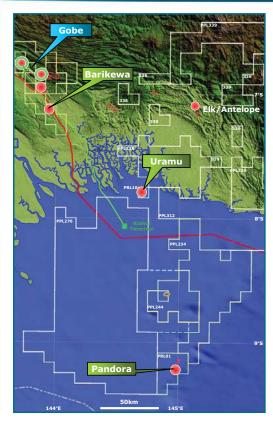
- PNG LNG co-venturers working constructively to implement resource maturation programme in Highlands
- Integrated exploration and appraisal programme includes:
  - Hides appraisal
  - Evaluation of additional resource potential of Associated Gas fields
  - Appraisal of 1.5 tcf P'nyang gas field in PRL 3
    - Located 95km NW of Juha, high equity alignment
  - Exploration well on Huria







# Other Resource Maturation Activities



- Reviewing existing discoveries in "catchment area"
  - Pandora (PRL 01):
    - Pandora JV progressing development studies and initial discussions with PNG LNG
  - Barikewa (PRL 09):
    - Oil Search has assumed Operatorship
    - Commencing development studies and initial discussions with PNG LNG
  - Uramu (PRL 10)
    - Commencing development studies and initial discussions with PNG LNG





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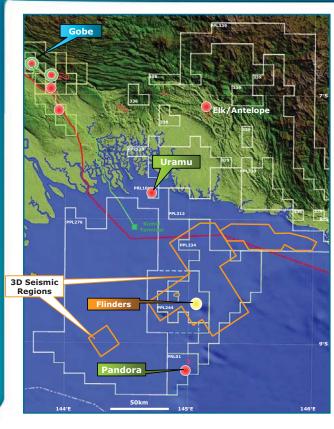
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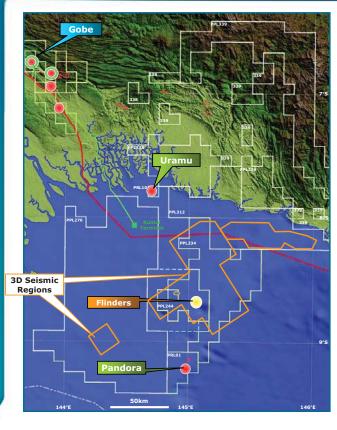
# **Gulf Area Gas Strategy**



- Oil Search believes Gulf Area has best potential for finding significant new gas accumulations:
  - Proven hydrocarbon area
  - Multiple play types
  - -Relatively untested
  - Well positioned for integrated or standalone developments
- Over past year, OSH has:
  - Secured broad licence position
    - Increased equity in Pandora (PRL 01)to 24%
    - Increased equity in PPL 244 through swap with Talisman for PPL 239
    - Completed farmins to four additional licences in Gulf Area
  - Completed major 3D seismic survey
- New expanded survey underway



### **Gulf Area LNG**



- Complete 3D seismic acquisition in offshore and 2D seismic onshore
- Interpretation underway, initial results encouraging
- Potential partner discussions underway
- Targeting equity of ~30-35%, subject to final interpretation
- Commence multi well drilling programme in 2011 through 2012



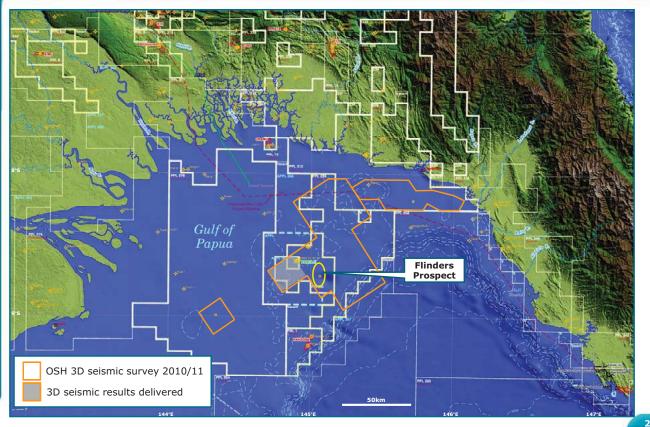
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# Gulf of Papua 3D seismic - First results





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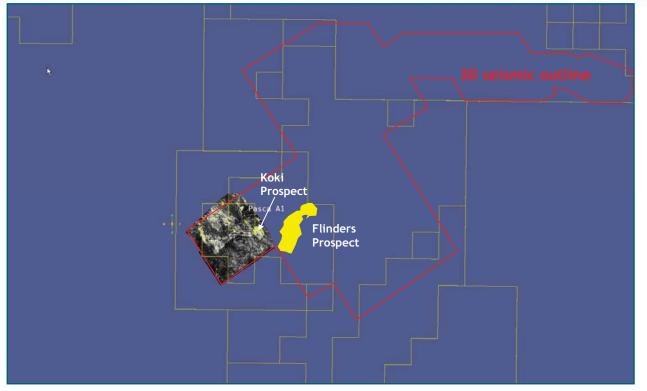
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# Seismic expression of Flinders Sand - Regional view



Map view of Flinders level horizon slice



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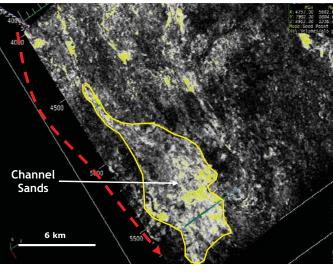
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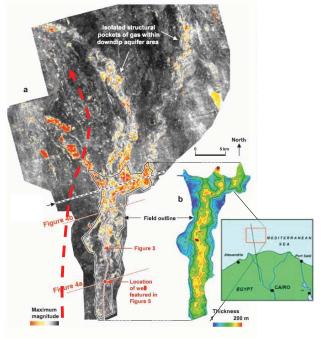
Analogue Comparison Kokomo Prospect - Gulf of Papua vs. Sequoia Field - Nile Delta



**Kokomo Prospect** Gulf of Papua, PNG Oil Search

High Amplitude Anomalies

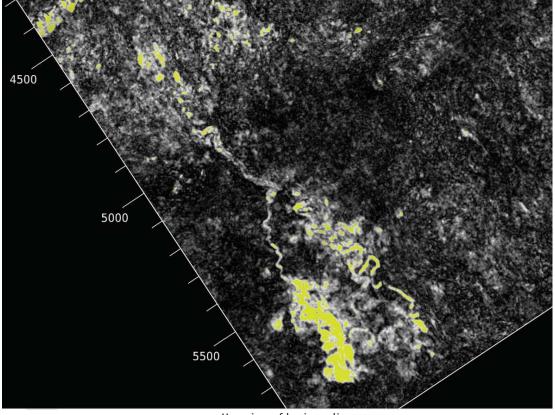
Sediment flow-direction



Seguoia Field Nile Delta, Offshore Egypt **British Gas** 9Tcf



# Kokomo Prospect Reservoir Lower Channel

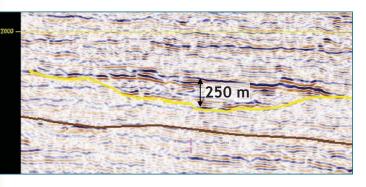




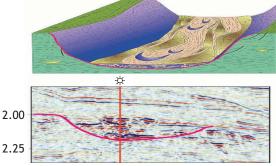


# **Kokomo Channel Complex**

**Kokomo Prospect Gulf of Papua Seismic Cross Section** 



Sequoia Field Nile Delta Egypt Geological Model & **Seismic Cross Section** 

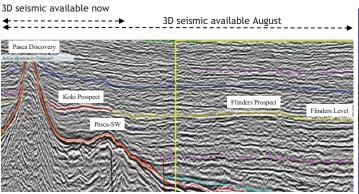




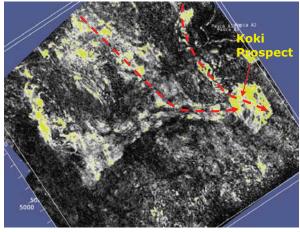
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# Seismic Expression of Flinders Sand



2D seismic line over Flinders and Koki Prospects



Map view of 3D seismic horizon slice of Flinders Sand level



High Amplitude Anomalies Sediment flow-direction

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# **Production**



### **PNG Oil Production**

- Despite maturity, PNG oil fields continue to be solid performers:
  - -2010 production of 7.66 mmboe, above guidance
  - ADT 2 ST3 discovered oil in Agogo forelimb in 2009, continues to contribute strongly
  - -Moran 15 ST1, drilled in 2010, proved field extension to south east
- -2011 production will be impacted by:
  - Production from Moran 15 for full year
  - Natural decline, being addressed by development and workover programme
  - -Two week shutdown for tie-in of Associated Gas facilities
- Production guidance for 2011 unchanged at 6.2 6.7 mmboe, with production out to first LNG broadly flat, subject to success of work programmes
- Focus is on capturing additional in-field and near field reserve opportunities, particularly forelimb opportunity opened up by ADT 2 ST, and potential Mananda 5 development
- Strong commitment to cost effectiveness



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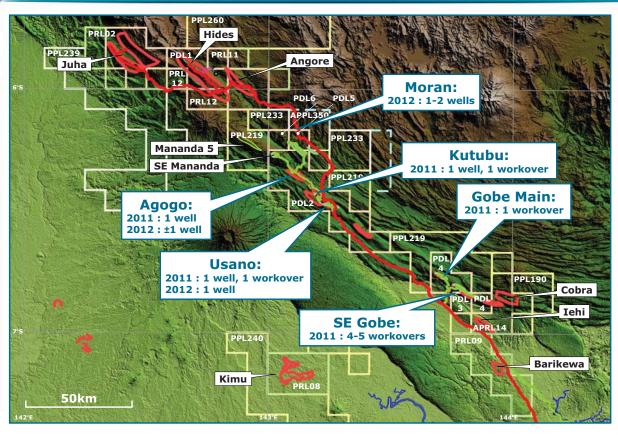
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# 2011/12 Development / Appraisal Drilling Activity





# **Near Field Appraisal Exploration**

- Major review undertaken as part of Strategic Review
- Very high historical success rate, with excellent returns achieved
- 26 near field appraisal and exploration prospects and leads identified
- Risked net recoverable potential resource estimated to be over 125 mmboe
- Major programme planned to further evaluate this potential over next three years



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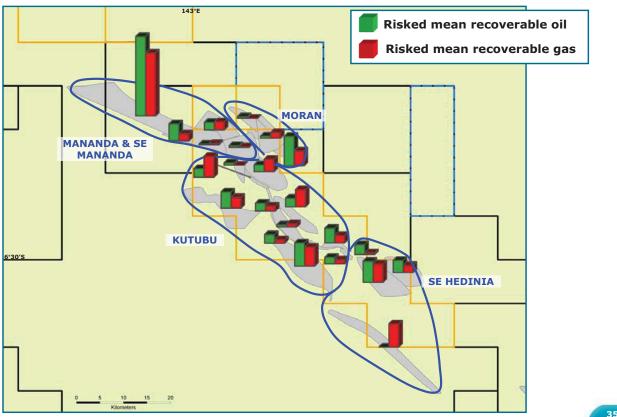
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# Near Field Exploration Prospects & Leads





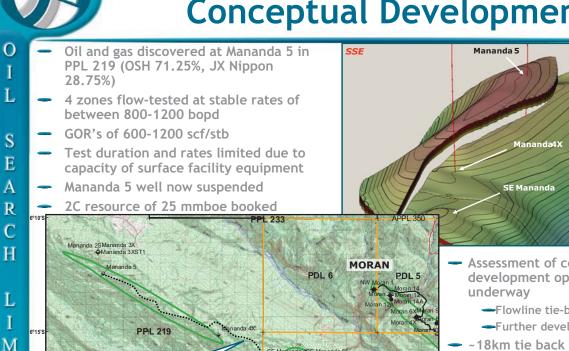
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# Mananda 5 Discovery and Conceptual Development



**SE MANANDA** 

PDL 2

AGOGO

Potential

**Pipeline** 

Route

- Assessment of conceptual development options is
  - -Flowline tie-back to SE Mananda
  - -Further development drilling
- ~18km tie back to existing SE Mananda wells - 8" flowline, 4" gaslift
- Early social mapping and survey work in progress
  - Targeting development decision in 4Q11

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# Mananda 5: Toro C Flare



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# Oil Search Production Outlook

(ex Mananda-5)



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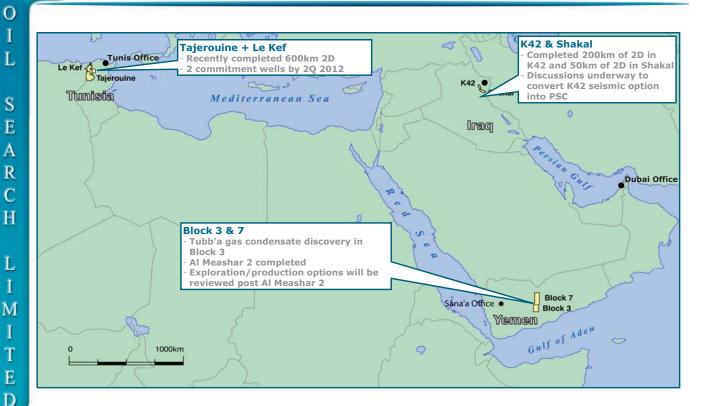
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# **MENA Exploration**





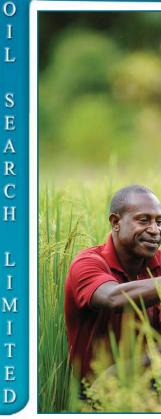


# Focus on Sustainability

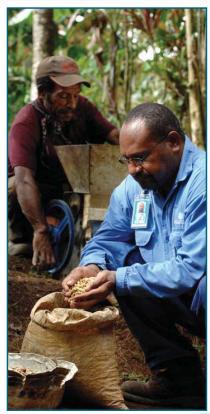
- In light of increasing value of PNG assets going forward, OSH seeking to further enhance its focus on managing PNG sustainability issues (traditionally an area of strength)
- New Sustainability Group has been formed:
  - Focus on communities, government/regulatory and in-country business relationships
- Specific initiatives involve:
  - Relationship building, Government, Landowners etc
  - Facilitating transparency and equity in benefits distribution
  - Enhancing capacity to capture growth opportunities
- New Health Foundation also being established
  - Expansion of existing health programmes (Malaria, HIV/AIDS etc)



# OSH involved in multiple activities to help create sustainable future







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### 2011 Outlook

- PNG LNG Project delivery underway:
  - Project ramp up continues at accelerating pace:
    - -Commencing construction at PNG LNG plant site, HGCP and Komo
    - —Associated gas and life extension projects
    - Focus on management of in country issues
- Further pursuit of gas expansion and resource underwriting
  - Hides evaluation
  - -Huria and P'nyang exploration and appraisal
  - -Gulf area seismic and prospect maturation
- Continued strong oil field production performance
  - -Evaluation of Mananda 5 development
  - Infield and near field exploration/appraisal opportunities
- Optimise value of MENA assets

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# Summary

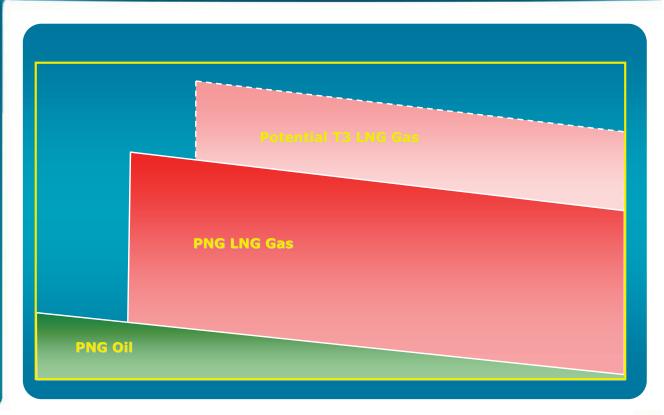
# Company fully focused on delivery of Major Strategic Initiatives

- Optimisation of current oil and gas production
- Delivery of PNG LNG T1/T2
- LNG expansion and gas resource accumulation programmes
- Operate business in transparent and sustainable manner
- Activities all underwritten by strong balance sheet and ample liquidity to meet LNG obligations and expansion focused activities

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# **Appendix**



# **2011 Guidance Summary**

- Production outlook
  - Oil and gas production: 6.2 6.7 mmboe
  - Similar performance in 2012 and 2013
- Operating costs ex corporate costs
  - US\$16-18/boe
  - Higher than 2010, due to lower production volumes, increased workover programme, PNG inflation, including currency impacts and AG activities
- Corporate Costs
  - ~US\$3/boe from ~US\$2.16/boe
    - Stronger A\$ exchange rates
    - Focus on sustainability initiatives
- D,D & A
  - US\$7-9/boe
- Capital Expenditure
  - Exploration including gas growth: US\$180 200m
  - PNG LNG: US\$1,150 1,400m
  - Production: US\$110 130m
  - Corporate: US\$10m

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