

Critical Factors in Acquisition Case Histories

Gavin Ward, RISC Partner & London Office General Manager Institute of Directors, London, 2 October 2018

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2018 Analysis using Public Data

Now & What's Next?



 16 Augus 	: 2017 Project	Performance: Outcomes, Wh	y? and How to Improve	e ? Simon Whitaker
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1 November 2017 Regulatory changes to reserves booking guidelines.
 Geoff Salter & Adam Borushek

• 26 February 2018 Latest LNG issues from an "AustralAsian" perspective: Qatar, Australia, USA...where next? Martin Wilkes

9 6 June 2018 Acquisition Due Diligence. Is it as good as it seems? Peter Stephenson

• 2 October 2018 Critical Factors in Acquisition Due Diligence Gavin Ward

Introduction to new Commercial Advisor - Terry Wells

PRMS 2018 introduction - Adam Borushek



Status: Valuations

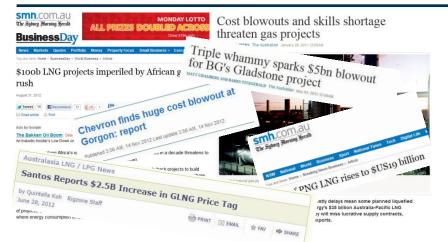


- Net Book Value
- EBITDA multiple
- Earnings per share
- Benchmarked \$/Boe
- Discounted Cash Flow & WACC

IMPORTANT: Valuation is not the same as the price paid through negotiation

Status: M&A and Project Failures





28 January 2015
According to collated research and a recent Harvard Business
Review report, the failure rate for mergers and acquisitions sits between 70% and 90%.



7 February 2018 A McKinsey survey of almost 90 M&A proconducted in mid 2009 showed new inte

A McKinsey survey of almost 90 M&A professionals conducted in mid 2009 showed new interests and attitudes toward mergers. Nearly half of those surveyed believed the deals they manage would "increase in transaction value" over the next three years. ... Even now, this approach produces M&A failure rates of 66% and 75%.

- Larger deals involve many more moving parts, and therefore scope for breakdown
- Including internal issues and external difficulties such as a regulatory hitch or a failure to secure financing.
- The only way to address these problems is for companies to prepare early and thoroughly.

Status: Pre FID schedule performance

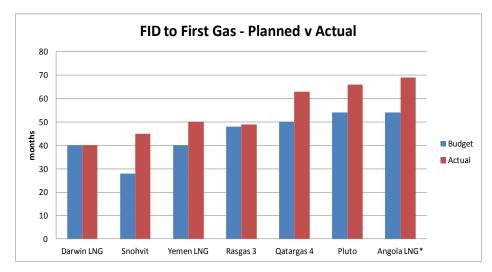
16 August 2017 Project Performance: Outcomes, Why? and How to Improve?

Simon Whitaker



Operators are overly optimistic about how long it will take to mature the project.

Project	Target FID	Actual FID
Pluto 1, Woodside	2007	August 2007
Gorgon 1-3, Chevron/Exxon/Shell	2004/2008	September 2009
QC LNG, BG Group	Early 2010	November 2010
GLNG, Santos/Petronas	Mid 2010	January 2011
APLNG, Origin/CoP (Train 1)	End 2010	July 2011
Wheatstone, Chevron	End 2011	September 2011
Ichthys, Inpex/Total	End 2010	January 2012
APLNG, Origin/CoP (Train 2)	End 2011/Early 2012	July 2012
Browse	Mid 2012	ТВА



Schedule performance – FID to RFSU
Is execution schedule performance any better?

Analysis shows that 10 months schedule overrun is the mean (23%)

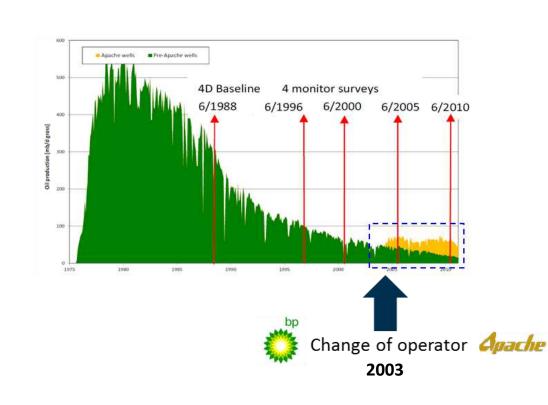


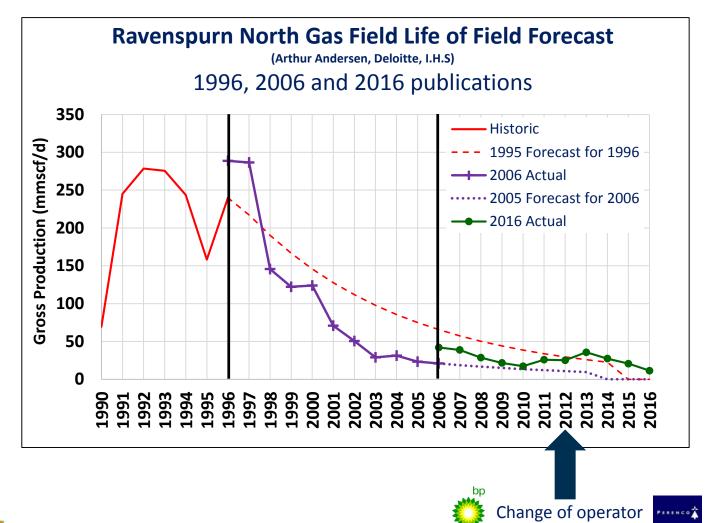
Ref: http://riscadvisory.com/conference-papers/

Publicly announced targeted FID for recent LNG projects and when FID actually occurred. Australian projects only Almost everyone misses their target FID date and this is not just restricted to Australian projects Only Wheatstone & Pluto met targets

Status: M&A Success, and Practicalities of Prediction







2012

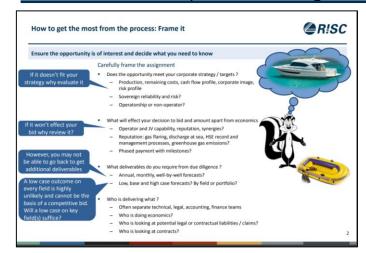
Calibration: Technical & Cost Estimation

₽R!SC

6 June 2018

Acquisition Due Diligence. Is it as good as it seems?

Peter Stephenson





CONCLUSIONS

Be prepared

O Where to focus, what can be left unaudited?

2. Select the best evaluation methodology

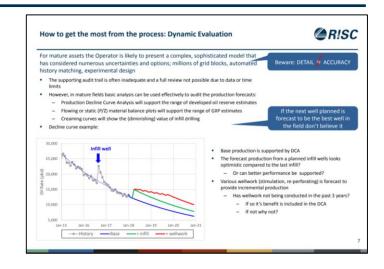
Thorough G&G review for undeveloped fields

3. Challenge the key results

 What are the key risks/opportunities and have they been adequately captured?



Ref: http://riscadvisory.com/conference-papers/





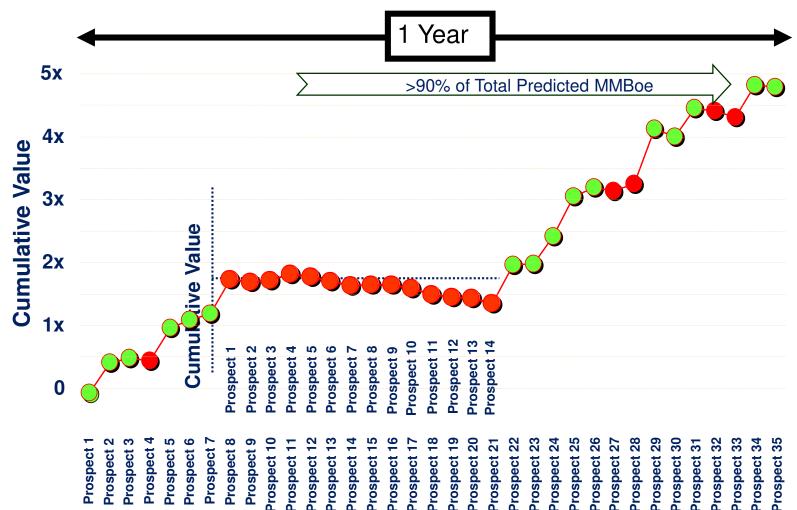
Calibration: Volume Prediction & Exploration Portfolio Valuation (35 wells)

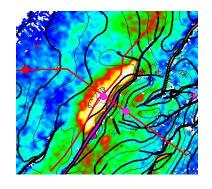


Onshore, Gulf of Mexico, USA

'Expect' approximately four to seven 6's with thirty five rolls of the die





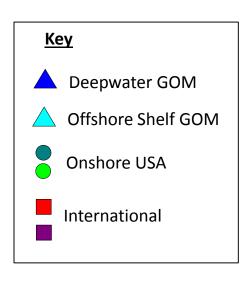




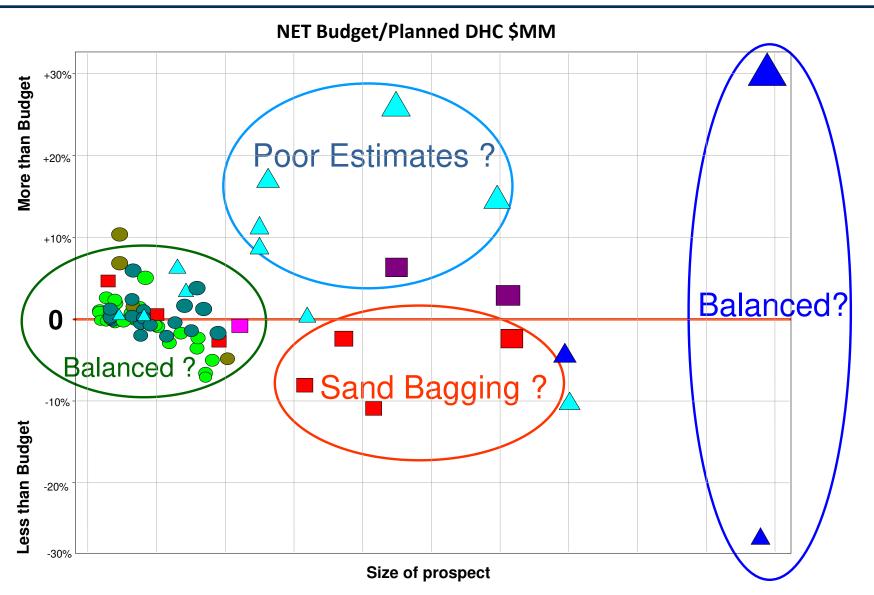
Calibration: Sum of the Parts & Know Your Assumptions



Test assumptions: On budget for portfolio but not individual business units

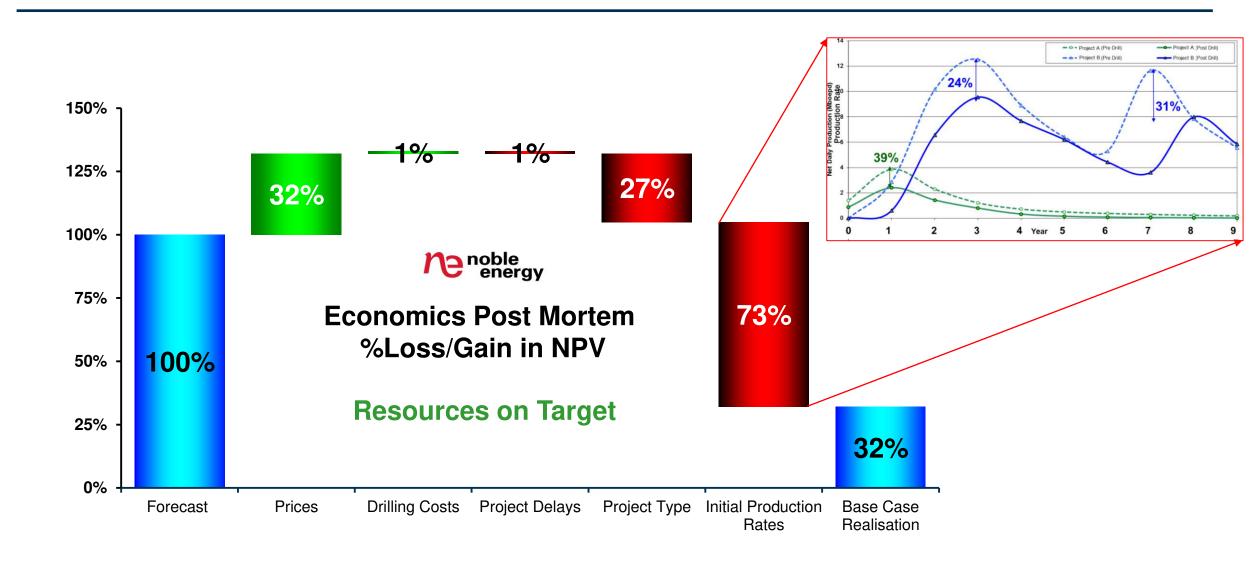






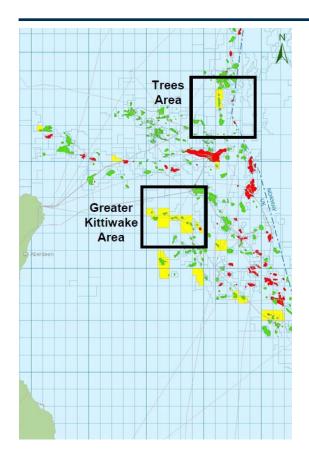
Case History: Test Assumptions & Know Your Process





Value Histories: Venture Production 2009 Portfolio in 2018

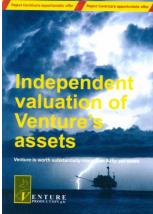




20 Producing Fields

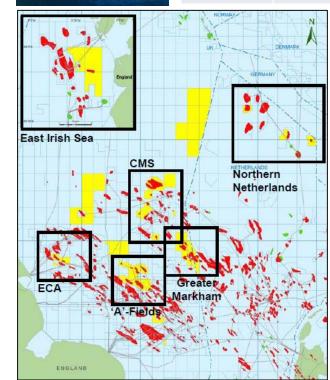
26 Discovered Non-Producing

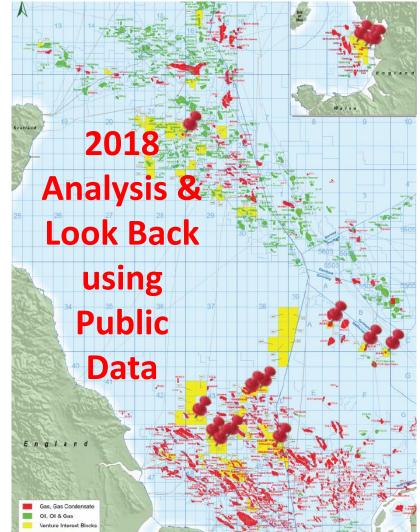
> 50 Prospects & Leads



Centrica plc paid £1.3 bill

Venture Petroleum	Lowside Scenario (£ mill)	Base Scenario (£ mill)	Upside Scenario (£ mill)
Reserves	-	1,742	2,209
Contingent & Prospective	-	160	225
Other assets	-	8	8
Total	-	1,910	2,442





Value Histories: £1.3 Billion Acquisition 2009







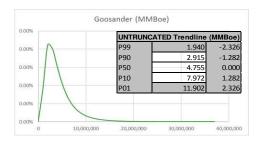
RISC reviewed over 80% of Ventures

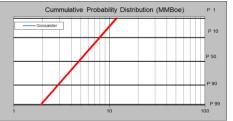
Contingent & Prospective resources

valued using a unit value method

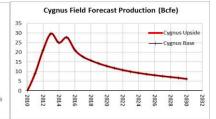
assets on a 2P reserves basis.

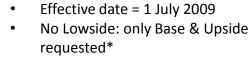
2018 Analysis & Look Back using Public Data











Lowside

Scenario

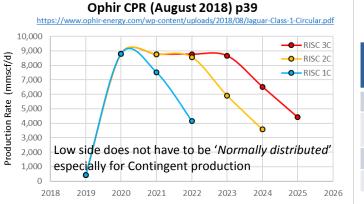
(£ mill)?

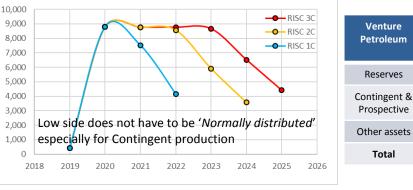
1,275?

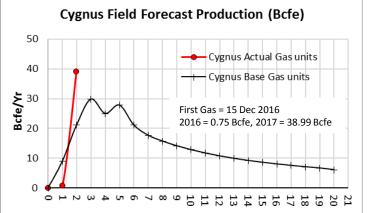
95?

1,378?

(\$/Boe).





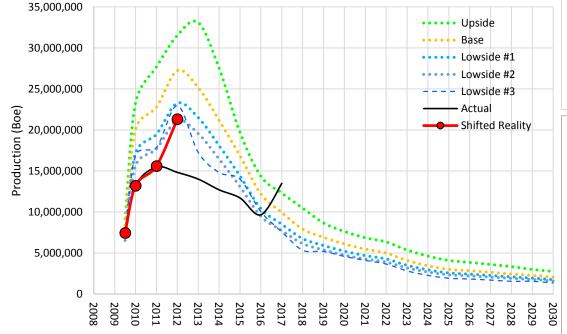


Base Scenario (£ mill)	Upside Scenario (£ mill)
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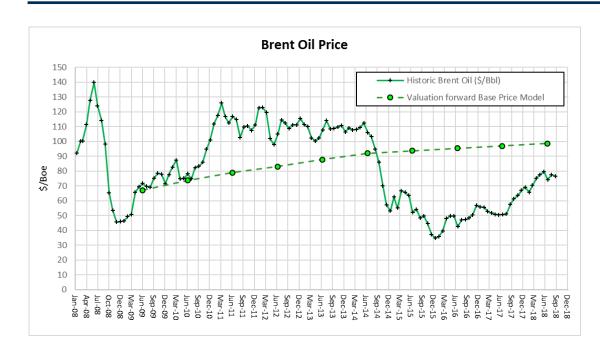
Raject Centrica's opportunistic offer Reject Centrica's opportunistic offer
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Independent
valuation of
Venture's
assets
Venture is worth substantially more than 845p per share
TENTURE
ENTURE PRODUCTION ple

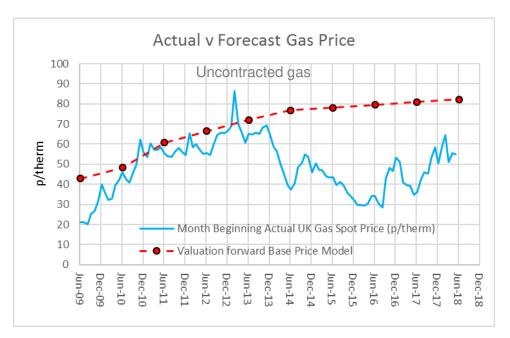
Total Portfolio - Calculated from Profiles



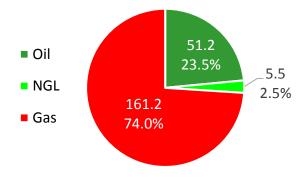
Value Histories: Price Prediction







Reserves Portfolio (218 MMBoe)



Value Histories: £1.3 Billion Acquisition 2009 (Base Valuation = £ 1.9 Bill)

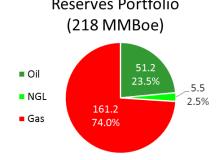
centrica



	Base Forecast 2009 - 2017	Actual 2009 - 2017	Variance 2009 - 2017	%Variance
Cygnus Delay	£1,910 mill	£1,750 mill	(£-160) mill	-8.3%
Oil Price Change	£1,910 mill	£1,985 mill	£75 mill	3.9%
Uncontracted Gas Price Change	£1,910 mill	£1,469 mill	(£-441) mill	-23.1%
FX £:\$	£1,910 mill	£1,935 mill	£25 mill	1.3%
Volume	TBA	ТВА	ТВА	ТВА
TOTAL	£1,910 mill	£1,409	(£-501) mill	-26.4%

Area	Gain/(Shortfall) Actual Produced Volume 2009 – 2017 (MMBoe)
UK Gas	(-32.3)
Trees (CNS)	(-11.7)
CNS	(-8.5)
NL	(-0.5)
GKA	(-0.3)
GMA	1.9
Total	(-51.4)

V	enture concedes and accepts Centrica bid
Car	rola Hoyos AUGUST 25, 2009
	enture Production has grudgingly accepted defeat in its battle to thwart a .3bn takeover by Centrica, the UK's biggest utility.
Ve	enture's board on Tuesday at last recommended that investors accept
Ce	entrica's 845p offer. Even so, the board, which holds 12.5 per cent of the
ste	ock, reiterated its belief that the price undervalued the company.
La	arry Kinch, one of Venture's founders, and ArcLight Capital Partners, the
in	vestment group, together own 12.8 per cent of Venture. For more than a
m	onth they had insisted the shares were worth at least £10. But after Centrica
ha	d managed to secure more than 50 per cent of Venture's shares, they told
Ve	enture's board on Tuesday they would accept the bid.



	75	25	160		
				441	
1910					1409

Delay

Oil Price

Value

FX

Cygnus Gas Price Total

2,200 2,000 1,800 1,600 1,400

1,200 1,000

600

400 200

\$ million

ENTURE PRODUCTION ple

Venture Petroleum	Lowside Scenario (£ mill) ?	Base Scenario (£ mill)	Upside Scenario (£ mill)
Reserves	1,275 ?	1,742	2,209
Contingent & Prospective	95 ?	160	225
Other assets	8	8	8
Total	1,378 ?	1,910	2,442





Conclusions?



'Calibration is King' for continuous improvement

- 1. Question your assumptions (eg: New owner/acquirer uses same investment plan)
- 2. Focus on the BIG assets
- 3. Consider/Flag Black Swan* events
- 4. RANGES are critical (including Low side) Banks and Auditors are Sometimes Right
- 5. and.....Treat Contingent/to be developed fields with extra care



^{*}Black Swan event is a metaphor that describes an event that comes as a surprise, has a major effect, and is often inappropriately rationalized after the fact with the benefit of hindsight. (Cygnus field?)



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