

KEROGEN ENERGY FUND, L.P.

**Equity, Mezzanine & Senior Debt Financing
Options for Junior E&P Companies**

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March 2, 2016



Agenda

- Introduction
- Definitions
- Cost of capital
- Use & Misuse
- Sources of Capital: Changes in 2 Years
- Private Equity for Growth & Development
- Some Conclusions

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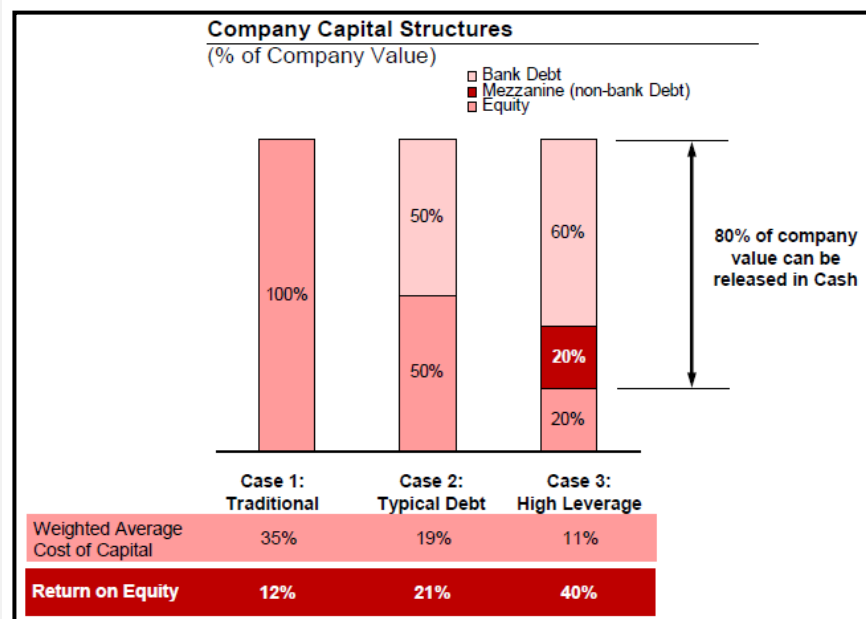
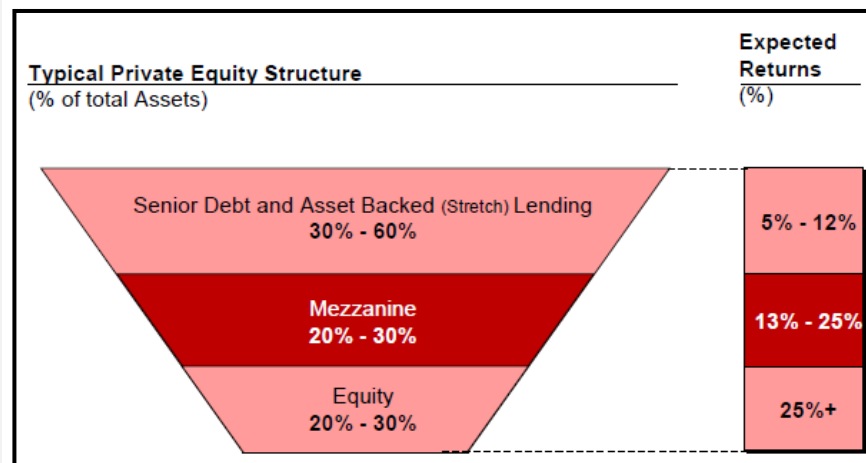
Debt Capital

- Loans that have to be paid back over a certain term
- Generally the cheapest form of capital
- Debt is available at the corporate level (majors & mid-caps) and the asset level
- Companies with Baa3¹ (e.g. *NBL*) to Aaa^{1,2} (e.g. *XOM*) credit ratings will to obtain debt at rates of LIBOR + 2 to 5 %
- Debt comes with “covenants” relating to the “health” of the company or the project
- The current market is horrible for junior companies with or without commercial Reserves
- It's even worse for emerging markets (“exotic locations”)
- Debt usually subordinates [ordinary] shareholders, such that an unpaid debt overhang can wipe out equity shareholders



Mezzanine Capital

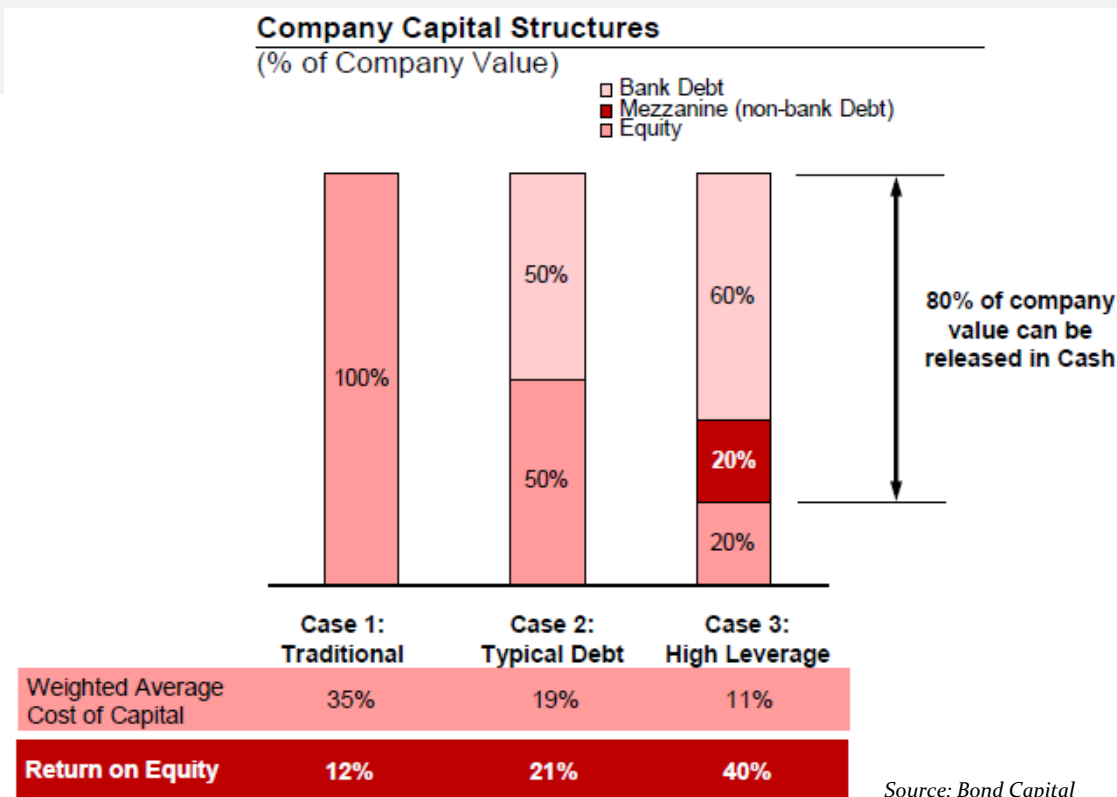
- *mezza|nine*: from Latin “in the middle”
- An intermediate financing tool rather than a source of permanent capital, literally in between senior debt and equity in terms of the acceptable risk profile, amounts to be advanced, and rate of return
- Around for decades, can take many forms and structures to fund a growth opportunity
- Often project specific, mezzanine providers like to share in the project’s upside
- Higher return than senior debt, often with warrants for equity participation; ranks “lower” than senior debt
- Quoting one investor: “mezzanine is the new equity”
- Use: project too early for bank debt, lower cost than equity, enhance return on equity
- Providers: smaller banks, specialists, Private Equity



Source: Bond Capital

Senior & Mezzanine Debt Enhance Value

- Debt, including mezzanine, can provide leverage to lower a company's weighted average cost of capital
- Release significant value / Improve return on equity
- But increases financial risk. Required to find optimal debt/equity capital structure



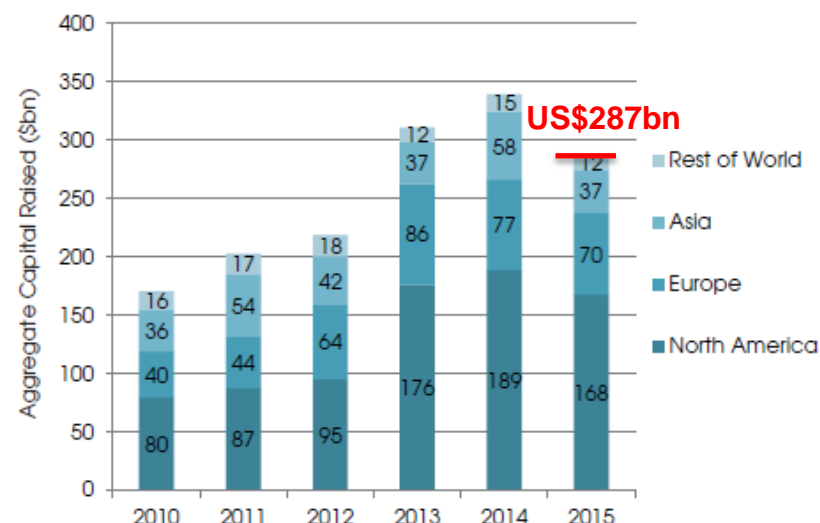
Equity

- the risked capital staked by the owners through purchase of a company's stock
- Unlike debt, not repaid in the course of normal business
- Public Equity investors want dividend income and/or capital growth
- Ideally, a company would want investors aligned with the goals & timing of management, and usually long-only investors ["patient money"]
- Less desirable on the share register?
 - Activist investors
 - Short investors
 - Interlopers
- Enter Private Equity...

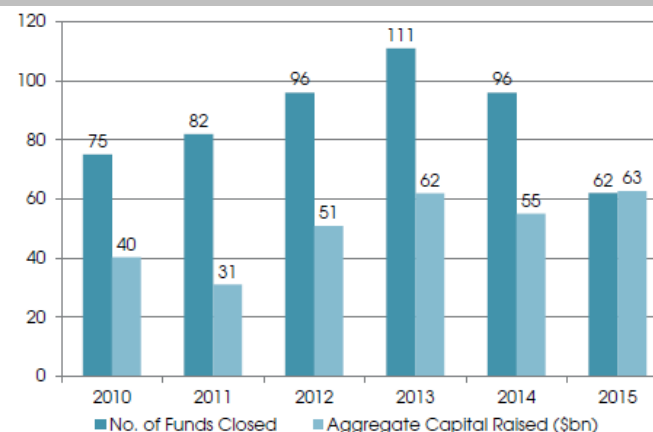
What is Private Equity?

- Asset class consisting of equity and debt investments into operating companies, private or public
- Started post-WWII in the US aimed largely at leveraged buyouts
- Funds are sourced from high net worth individuals, institutions, pension plans etc. wishing to achieve higher returns
- PE and VC assets under management reached US\$3.8Tn in 2014
- The numbers for 2015 ... ~US\$287bn raised by PE, with ~US\$63 for natural resources (see charts)

Private Equity Fundraising by Region¹, 2010 - 2015 (\$bn)



Natural Resources Fundraising¹, 2010 – 2015 (\$bn)



Key Value-Add of a Private Equity Model

Long investment horizon	<ul style="list-style-type: none">▪ Provide long-term stable capital in an industry that is both highly capital intensive and typically requires at least a five year planning horizon
Bespoke solution	<ul style="list-style-type: none">▪ Offers a structured solution for funding which can be tailored to specific project milestones
Management independence	<ul style="list-style-type: none">▪ Allows management to retain their independence, e.g. prior to a farm-out decision▪ Enables focus on the operations and growth of the businesses rather than funding
Alignment	<ul style="list-style-type: none">▪ Foster alignment between shareholders, management teams, partners, and other stakeholders through building shared objectives and aligning incentives
All-round support	<ul style="list-style-type: none">▪ Deliver strategic, technical, operational and financial support to investee companies
<ul style="list-style-type: none">▪ Compared to public market investors – PE investors are typically more flexible in terms of investment structure and horizon, and can deliver strategic, technical, and operational support to investee companies▪ Compared to strategics – PE investors typically allow management to retain independence and control, with key focus on value maximisation	

PE Funding for Junior O&G Companies – *Exploding the myths*

Control / Governance

- PE funds do not always require absolute control over the investee company

Returns

- The PE Fund's objective of achieving its IRR/MoC targets is not mutually exclusive from oil & gas co. mission statements, especially where shareholder value is key

Alignment with Management

- Management compensation / incentives can be aligned with PE equity investors around mutual objective setting

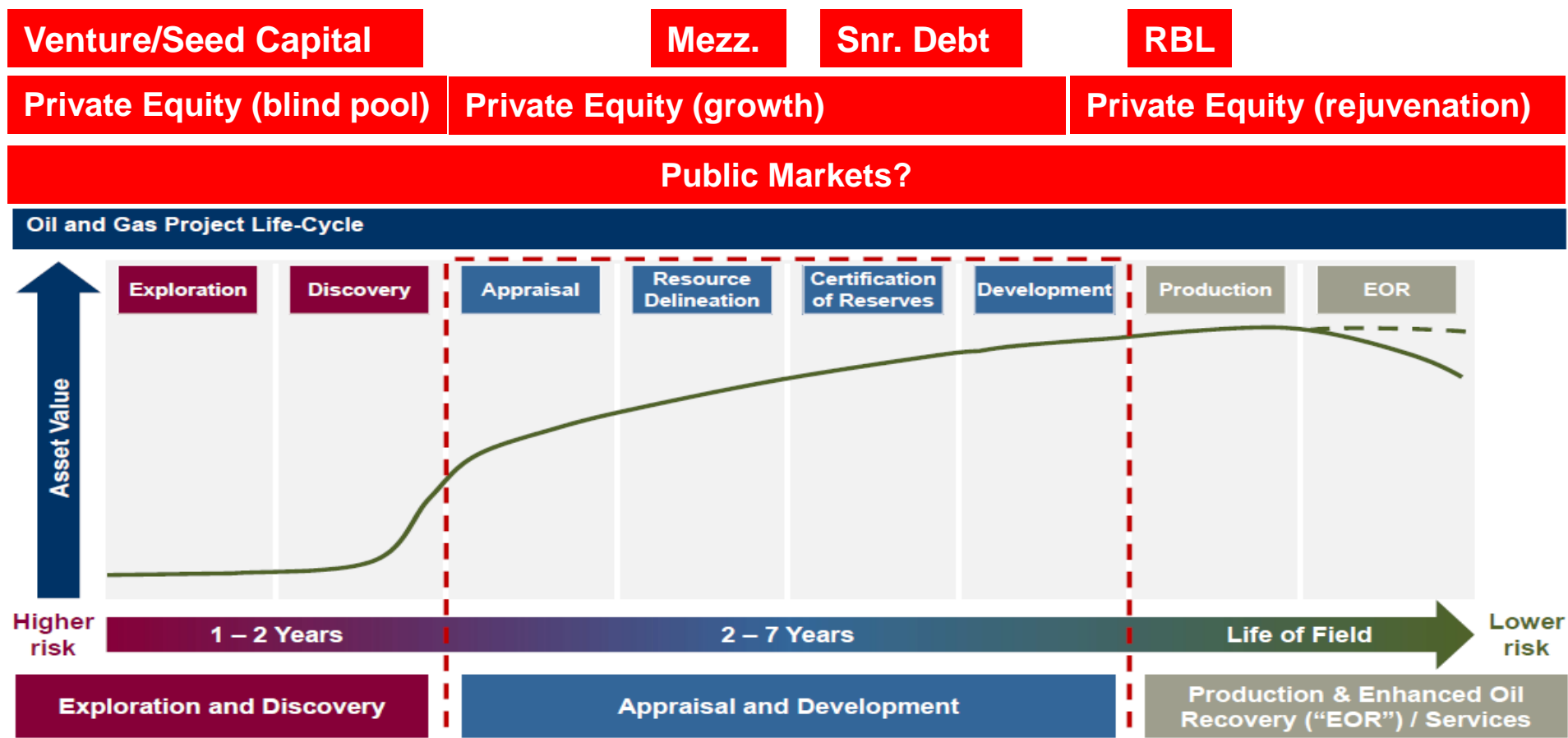
Investment Horizon

- PE funds are truly *Long-Only*: PE funds are fixed term, usually 10 years with 2 year extensions
- Consequently, PE Funds *rarely* need short-term liquidity and can endure a cycle

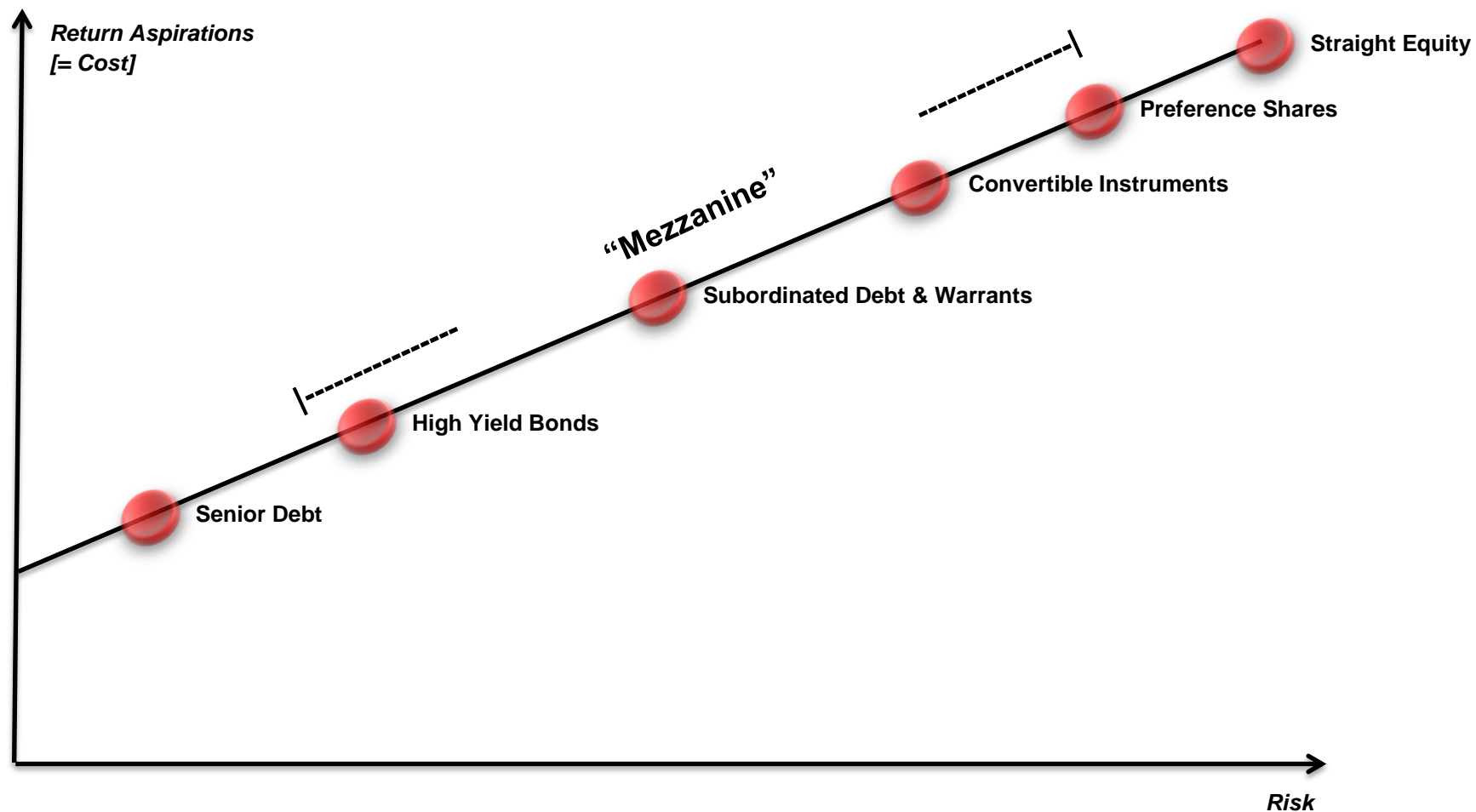
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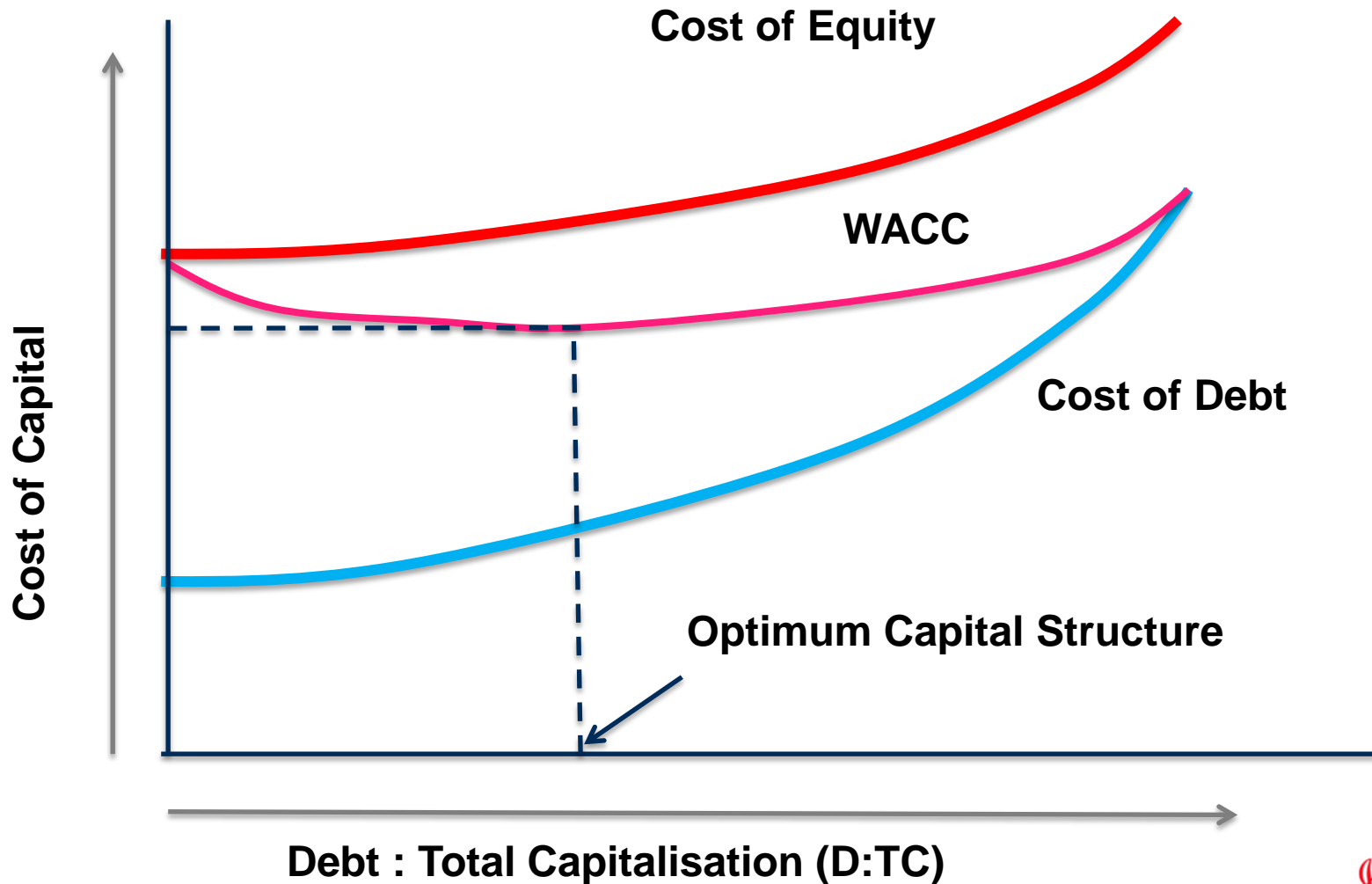
Life Cycle – Where the Funding Comes From



Cost of Capital - the return expected by those who provide capital



Debt: Cost? How much?



Examples¹ (D:TC)

EXXON 18.5%

Chevron 20.2%

Shell 26.2%

ConocoPhillips 42.8%

Anadarko 50.5%

TULLOW 58.3%

PremierOil 63.0%

petroceltic 77.8%

Johnson & Johnson 21.6%

Microsoft 36.7%

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Over-leverage - Some Current Symptoms

- Very high, even too high, gearing in terms of debt:equity
- Much debt obtained at US\$100/stb+
 - *What's Plan B?*
- The paradox of success
- Covenants being breached:
 - Loan repayments
 - Credit metrics
 - Cashflow & debt cover ratios
 - Reserves redeterminations & borrowing base



The Correct Borrowing Base?

- Loans not to exceed asset value
 - Various price scenarios
- Tight covenants adhered to
- Take action when prices change
- Portfolio optimisation
- Right-sizing G&A
- Cost reductions
- Successful commodity price hedging

April loan redetermination cycle in US to further reduce borrowing bases



Debt “War Stories” – The Headlines



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Sources of Capital – what I said & thought in 2014¹

		Current Availability	Issues
Public Markets	IPO	<ul style="list-style-type: none"> ▪ Challenging ▪ Some appetite 	<ul style="list-style-type: none"> ▪ Hefty discounts to NAV ▪ Onerous bourse rules / Fees
	Follow-on Raise	<ul style="list-style-type: none"> ▪ Option still available ▪ Share price performance? 	<ul style="list-style-type: none"> ▪ Dilution ▪ Use of funds
Private Placement		<ul style="list-style-type: none"> ▪ Limited capacity 	<ul style="list-style-type: none"> ▪ Timeframe ▪ Comps.
Traditional Farmout		<ul style="list-style-type: none"> ▪ Frequent ▪ Promotes remain possible 	<ul style="list-style-type: none"> ▪ Derisking varies
Private Equity		<ul style="list-style-type: none"> ▪ Start-up to late stage ▪ 2013: US\$450billion raised by PE² 	<ul style="list-style-type: none"> ▪ Some myths ▪ LP universe
Debt	Senior / RBL	<ul style="list-style-type: none"> ▪ Readily available ▪ RBL: asset? country? company? 	<ul style="list-style-type: none"> ▪ Cheapest source of funds ▪ XOM (2014): \$5.5bn, ≤3.176% 10-yr bonds ▪ More expensive than senior debt
	Mezzanine	<ul style="list-style-type: none"> ▪ Less popular 	

Sources of Capital – 2016 Thoughts

		Current Status
Public Markets	IPO	<ul style="list-style-type: none"> Non-existent! (2015: 1 on AIM, 2 on TSX)
	Follow-on Raise	<ul style="list-style-type: none"> Some hand-to-mouth raises, some larger
Private Placement		<ul style="list-style-type: none"> Limited capacity
Traditional Farmout		<ul style="list-style-type: none"> Rare, with shrinking promotes & back costs
Private Equity		<ul style="list-style-type: none"> Remains start-up to late stage 2015: ~US\$300billion raised by PE¹
Debt	Senior / RBL	<ul style="list-style-type: none"> XOM (2015): US\$8.8bn, ≤3.176%, 10-yr bonds Asset-level RBL dried up for smallco
	Mezzanine	<ul style="list-style-type: none"> Less popular

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Kerogen Capital

- Kerogen is an independent private equity fund manager specialising in the international oil and gas sector
- On third managed fund. Global institutional investor base : ~US\$1.6bn AUM
- Formed in 2007 with offices in HK and London. Professionals from financial, technical and operating backgrounds
- Focused on funding junior E&P companies with growth and development capital
- Geography: outside North America
- Financial solution combined with an active value added investor approach
- Signatories to the UNPRI, issued ESG Policy February 2014

Kerogen Investee Companies: Financial Instruments Employed



Public Market Equity & Senior Debt



Equity, Bridging, Convertible Instruments, Junior Mezz., bolt-on acquisitions



Equity



Equity



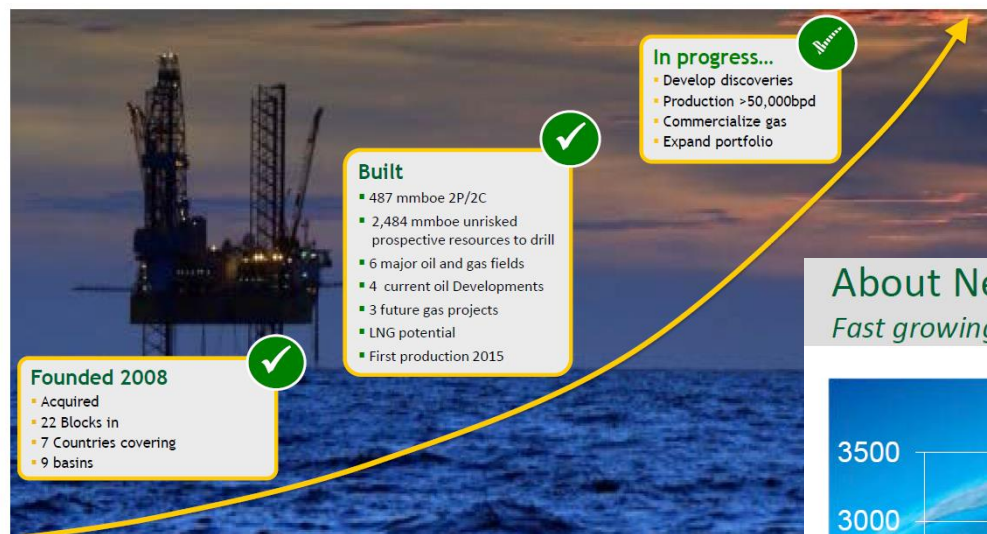
Preference Shares (quasi-debt)



Straight Equity + co-investment; bolt-on acquisition

Kerogen Case Study: NewAge - What the Company Said

NewAge - Strategy For Creating Shareholder Value



About NewAge

Fast growing, huge potential...and we've been lucky



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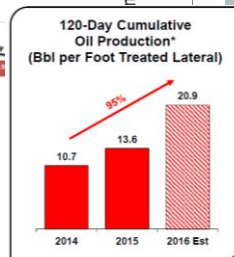
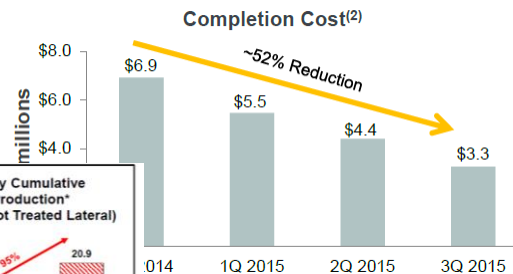
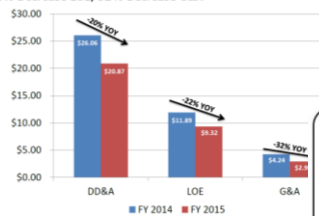
Reasons to be cheerful?

Rigs are cheaper!



Significant Improvements in per BOE Metrics

2014 vs 2015 Shows the Following: 20% Decrease DD&A, 22% Decrease LOE, 32% Decrease G&A



Humans are ingenious!

Future Oil Prices [?]

	2016	2017	2018	2019	LT (headline)	LT (2016 real)	Date of forecast
EIA	40.2	50.0					Jan-16
IHS	47.8	58.4					Jan-16
Brokers							
BAML	50.1	61.0	70.5	80.0	80.0	75.4	Jan-16
Canaccord	42.0	60.0	N/A	N/A	67.5	64.9	Jan-15
CS	58.0	65.0	70.0	70.0	75.0	69.3	Jan-16
GS	49.5	65.0	65.0	60.0	55.0	50.8	Dec-15
JPM	50.0	60.0	65.0	70.0	75.0	69.3	Jan-16
MS	48.5	72.0	85.0	85.0	90.0	83.1	Jan-16
RBC	42.5	60.0	74.0	N/A	79.0	74.4	Jan-16
Scotia	54.0	59.0	65.0	75.0	80.0	73.9	Dec-15
SocGen	53.8	62.5	67.5	70.0	75.0	69.3	Dec-15
UBS	42.5	55.0	70.0	75.0	75.0	70.7	Jan-16
Median	49.8	60.5	70.0	72.5	75.0	70.0	
Average	49.1	62.0	70.2	73.1	75.2	70.1	

Some Conclusions

- Conventional debt sources & public market funding have for the moment all but dried up for junior oil and gas companies
- To attract debt at the asset or corporate level, there is no substitute for: quality, low breakeven assets, *flexible* developments, lean G&A and right-sized debt:equity ratios for differing market conditions
- The war stories and insolvencies we're currently hearing about - it seems every week - are generally because these guidelines have been flouted
- Private Equity can *help* investee companies with very flexible, creative financial instruments, and *alignment* with management goals
- Companies need to be nimble to adapt their sources of funding to the particular phase of their projects & to market conditions: CEOs & CFOs take note...

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