



Morgans Value in the Vines Investor Presentation

October 2018

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Competent Persons Statement

The Reserves and Contingent Resources contained in these materials follows the guidelines set forth by the Society of Petroleum Engineers – Petroleum Resource Management System (SPE-PRMS).

The Reserves contained in these materials relating to the Aneth Oil Field and CO₂ EOR project are based (1) in part on independent reviews and audits conducted by Netherland, Sewell & Associates, Inc., an independent petroleum advisory firm and fairly represents the information and supporting documentation reviewed and (2) in part by internal engineering studies and reviews undertaken by the Company under the supervision of Mr. David Evans. The review and audit of Netherland, Sewell & Associates, Inc. was carried out in accordance with the SPE Reserves Auditing Standards and the SPE-PRMS guidelines under the supervision of Mr. Derek F. Newton, a Director of NSAI. Mr. Newton is a Licensed Professional Engineer in the State of Texas, United States of America; and I has in excess of 30 years of experience in petroleum engineering studies and evaluations. Mr. Newton, attended Strathclyde University in Scotland, and graduated in 1986 with a Masters of Science Degree in Petroleum Engineering. Mr. Newton also attended University College in Cardiff, Wales and graduated in 1983 with a Bachelor of Science Degree in Mechanical Engineering. Mr. Newton meets the requirements of Qualified Petroleum Reserve and Resource Evaluator as defined in Chapter 19 of the ASX Listing Rules and consents to the inclusion of this information in this report.

The Reserves and Contingent Resources contained in these materials relating to the Grieve CO₂ EOR project, operated by Denbury Resources, is based on an independent review and audit conducted by VSO Petroleum Consultants, Inc. (VSO) , an independent petroleum advisory firm and fairly represents the information and supporting documentation reviewed. The review and audit was carried out in accordance with the SPE Reserves Auditing Standards and the SPE-PRMS guidelines under the supervision of Mr. Grant Olsen, a Director of VSO. Mr. Olsen is a Registered Professional Engineer in the State of Texas and his qualifications include a Bachelor of Science and Master of Science (both in Petroleum Engineering) from Texas A&M University. He has more than 10 years of relevant experience. Mr. Olsen is a member of the Society of Petroleum Engineers (SPE) and an Associate Member of the Society of Petroleum Evaluation Engineers. Mr. Olsen meets the requirements of Qualified Petroleum Reserve and Resource Evaluator as defined in Chapter 19 of the ASX Listing Rules and consents to the inclusion of this information in this report.

The Reserves and Contingent Resources contained in these materials relating to the Madden Gas Field and Madden Deep Unit is based on an independent review and audit conducted by Netherland, Sewell & Associates, Inc., an independent petroleum advisory firm and fairly represents the information and supporting documentation reviewed. The review and audit was carried out in accordance with the SPE Reserves Auditing Standards and the SPE-PRMS guidelines under the supervision of Mr. Shane M. Howell and Mr. John R. Cliver, both Vice Presidents of Netherland, Sewell & Associates, Inc.. Mr. Howell is a Registered Professional Geologist in the State of Texas and Mr. Cliver is a Registered Professional Engineer in the State of Texas. Mr. Howell's qualifications include Master of Science in Geological Sciences, San Diego State University and a Bachelor of Science in Geological Sciences, San Diego State University. Mr. Howell has more than 10 years of relevant experience. Mr. Cliver's qualifications include a Masters of Business Administration from the University of Texas, Austin and a Bachelor of Science in Chemical Engineering from Rice University. Mr. Cliver has more than 10 years of relevant experience. Mr. Howell and Mr. Cliver meet the requirements of Qualified Petroleum Reserve and Resource Evaluator as defined in Chapter 19 of the ASX Listing Rules.

The Reserves and Contingent Resources contained in these materials have been compiled and prepared by Mr. David Evans, Chief Operating Officer of Elk Petroleum Ltd. And Elk Petroleum, Inc., who is a qualified persons as defined under the ASX Listing Rule 5.11 and both have consented to the use of the reserves figures in the form and context in which they appear in this presentation. Mr. Evans is a full-time employee of the company. Mr. Evans earned a Bachelor of Science with Honours in Geology from the University of London, United Kingdom, a Post Graduate Diploma, Petroleum Exploration from Oxford Brookes University, United Kingdom and a Master of Applied Science, Geology from the University of Canberra and Australian National University in Canberra, ACT. Mr. Evans has more than 30 years of relevant experience. Mr. Evans has sufficient experience that is relevant to the company's Reserves and Resources to qualify as a Reserves and Resources Evaluator as defined in the ASX Listing Rules. Mr. Evans consents to the inclusion in this presentation of the matters based on the information in the form and context in which it appears.

Investment Proposition

Ability to deliver equity value with significant near-term upside



Steady cash flow from PDP reserves

- 40 mmboe 1P reserves – 70%+ oil*



Long-life, low-decline rate asset base

- Approximately 26 years of production life*



Deep inventory of low risk development

- 46 mmboe of PDNP+PUD+Technical PUD developments targeting total 1P to 86 mmboe*



Highly leveraged to oil price

- Projected profit margin of US\$25-US\$35/bbl on oil production @ US\$60/bbl WTI oil price*

Elk is one of the largest ASX E&P companies by Reserves and Production

Corporate Overview

Fast Growing Conventional Oil

- Elk is a fast-growing, oil-weighted oil & gas production company focused on redevelopment of conventional oil fields through our core operated position in the US Rockies

Proven Long Life Low Risk

- Elk focuses on development of its long-lived, low risk production reserve base through proven, industry-standard production techniques - ~90% success rate

Low Cost, High Return Profits

- Elk has a profitable reserve and production base that delivers competitive, low cost, high margin production & annuity style cash flows

Sustainable Organic Growth

- Elk is focused on delivering significant growth from existing assets – with potential to materially and consistently increase reserves and production over the next 5-years

Cash Flow Positive

- Forecast CY2018 EBITDA of ~US\$50 million+

Elk Petroleum Asset Overview

Significant developed & undeveloped reserves, extensive CO₂ supplies & infrastructure, multiple operating projects and numerous opportunities for development

Asset Locations



Asset Overview

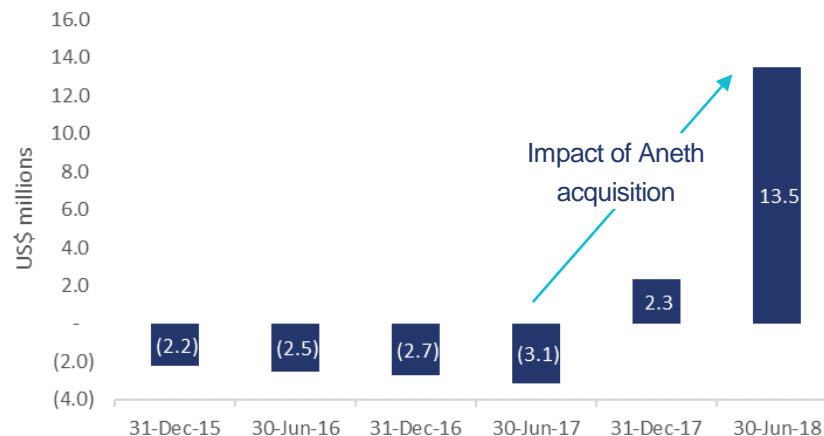
- Elk owns a 63% operated interest in **Greater Aneth Oil Field**, the largest producing oil field in Utah
- Aneth is a CO₂ Enhanced Oil Recovery (“EOR”) project located in the US Rocky Mountains, with current production of ~10,000 bopd
- 49% working interest in **Grieve**, a CO₂ EOR project operated by Denbury Resources
- Grieve CO₂ EOR Project is in start-up production mode and is expected to reach ~2,000 bopd about 6-months following first CO₂ flood response – substantial production ramp-up by mid-CY2019
- 14% working interest in **Madden Gas Field** and **Lost Cabin Gas Plant**, operated by ConocoPhillips
- Madden, a giant conventional gas field is the 2nd largest gas field in Wyoming, ~95kms from Elk’s Grieve project

Financial Snapshot

Financial Overview

Ticker (ASX):	ELK
Market capitalisation	AU\$109m / (US\$77.4m)
Shares outstanding	1,622 million
Enterprise Value	US\$338m
Long term debt ¹	US\$260m
PDP reserves	26.8 mmboe (86% oil)
Total proved reserves	40.3 mmboe (91% oil)
1P PV ₁₀ ²	US\$342.5m
PDP PV ₁₀ ²	US\$238.4m
FY18 daily production	9,112 boe/day (60% oil)
FY18 operating revenue	95 million
FY18 operating expense	44 million
FY18 capital expense	14.2 million

EBITDAX



Elk Share Performance



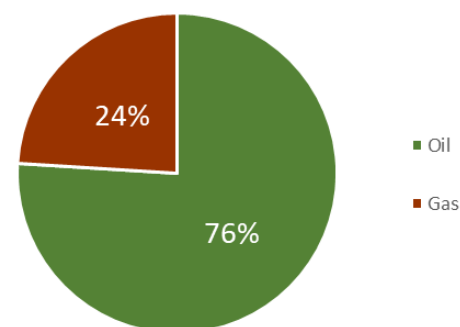
Significant Developed & Undeveloped Reserves

Elk's 3 Core Operating Assets are supported by extensive CO₂ supplies & infrastructure, multiple operating projects and numerous opportunities for development

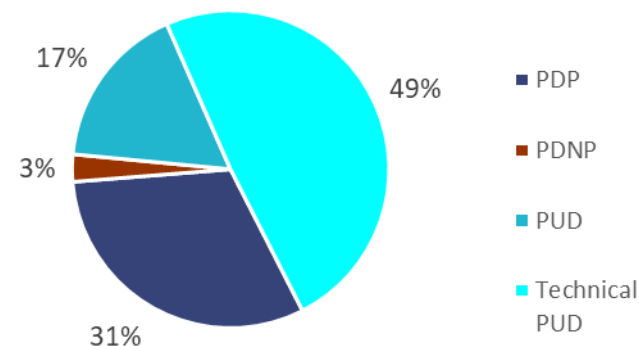
Reserve & Production

- PDP reserves = 26.8 mmboe / 86% oil
- Total Proved reserves = 40.3 mmboe / 91% oil
- Total Proved reserves + Technical PUDs = 85.0 mmboe / 87% oil
- FYE18 = 8,250 to 9,300 BOEPD / 65% oil
- CYE2018 Grieve expected PDP reserves = ~5 mmbbls
- Total Proved R/P ratio = ~26 years
- Proved Developed Producing R/P ratio = 14-16 years

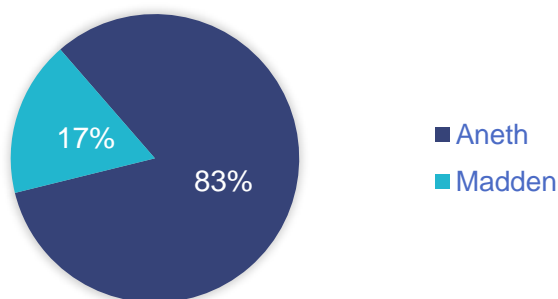
Proved Reserves - By Hydrocarbon



Proved & Technical Reserves

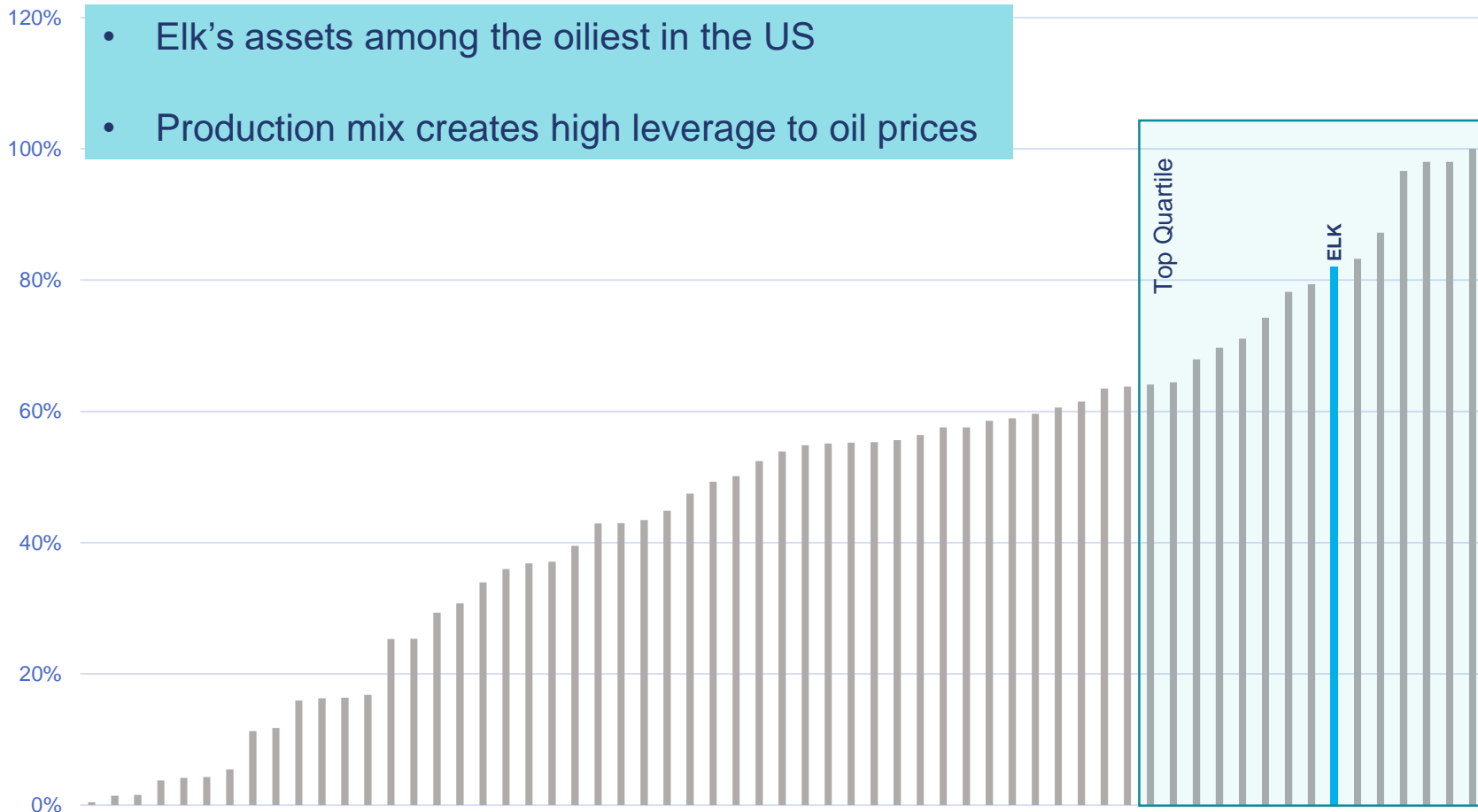


PDP Reserves - By Asset



Leveraged to Oil

Percent oil compared to 61 U.S. Companies

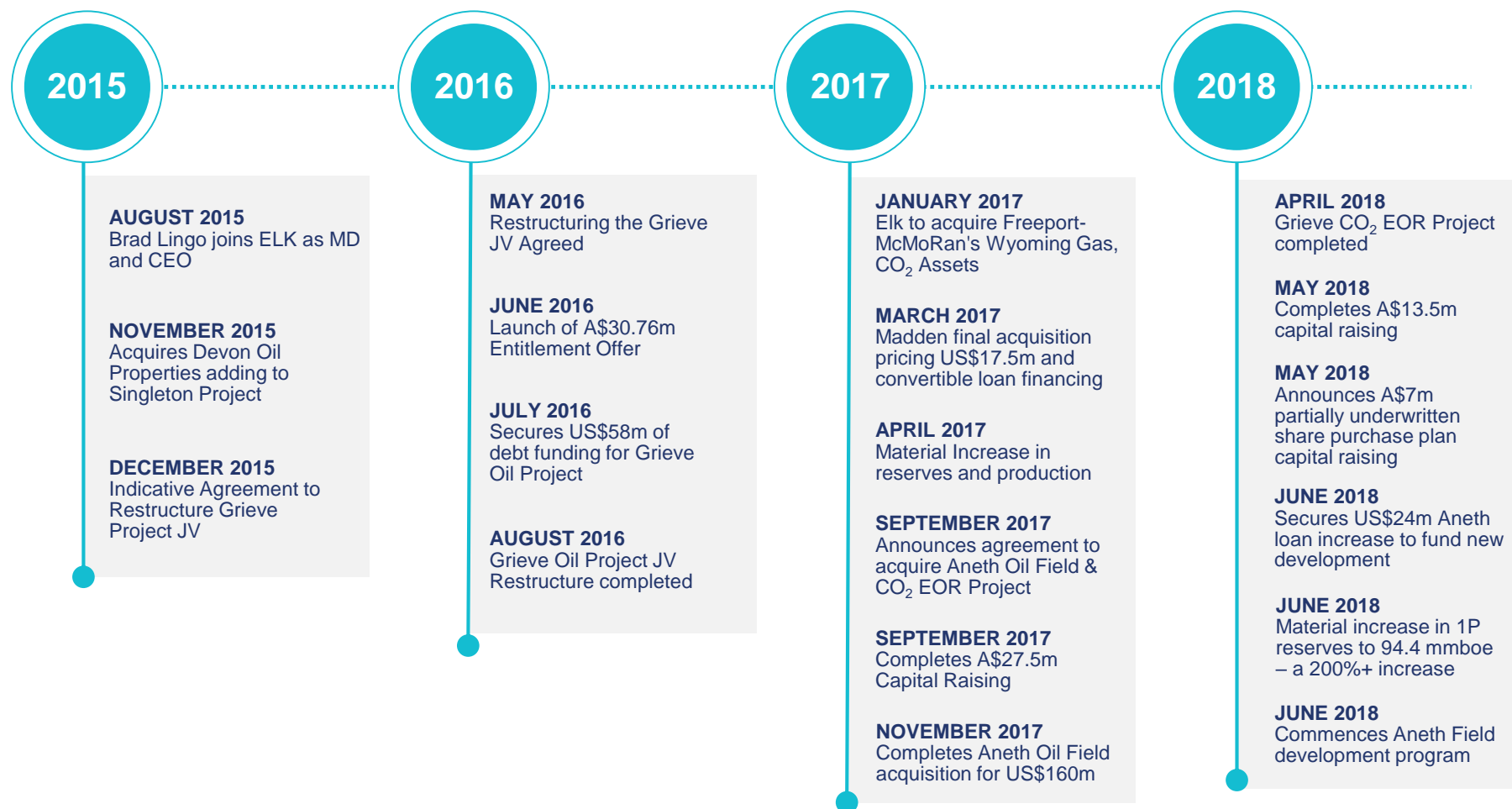


Source: Bloomberg data as of Year-end 2017

Operator With a Highly Experienced Team

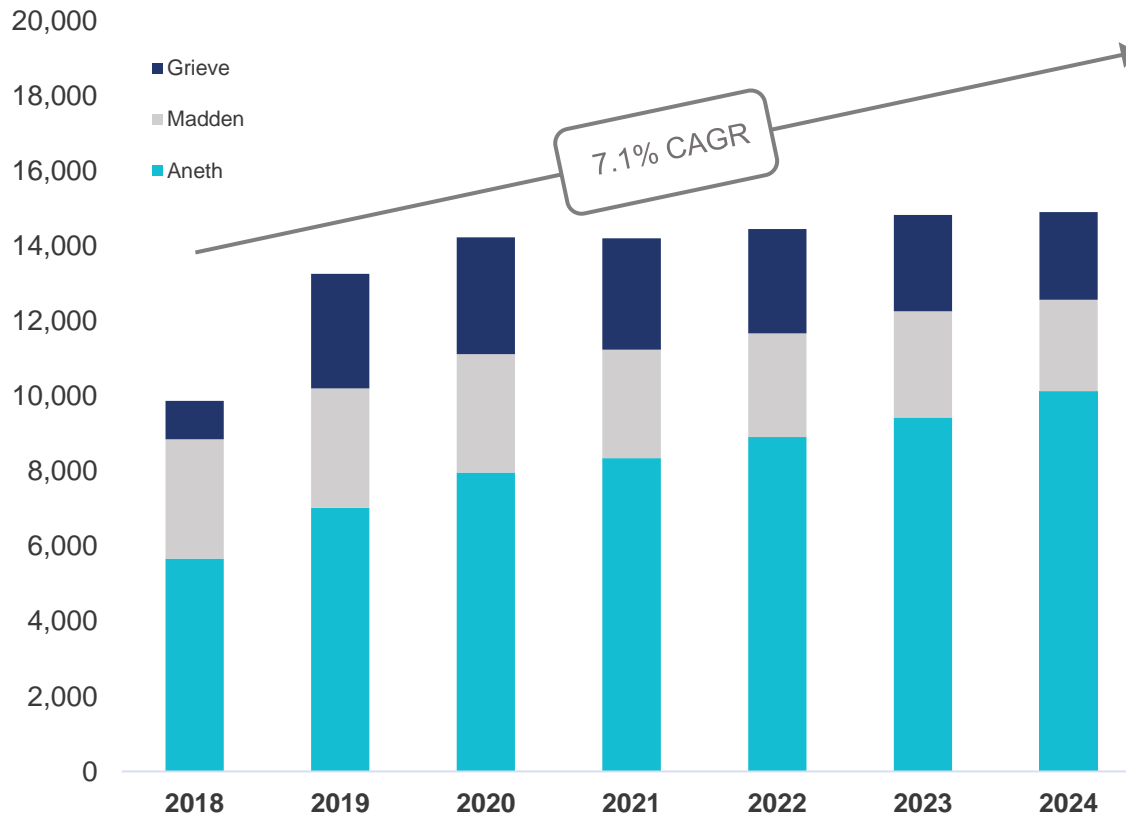
Name	Title	
Brad Lingo	Managing Director, CEO & Executive Chairman-USA	     
Jim Piccone	President & CEO-USA	 
Alex Hunter	CFO	   
David Evans	COO	    
Jeff Roedell	VP-Four Corners Business Unit Manager	 

Track Record of Execution – Timeline & Milestones



Delivering Significant Organic Production Growth

Total Elk Petroleum Growth (beopd) through 2024



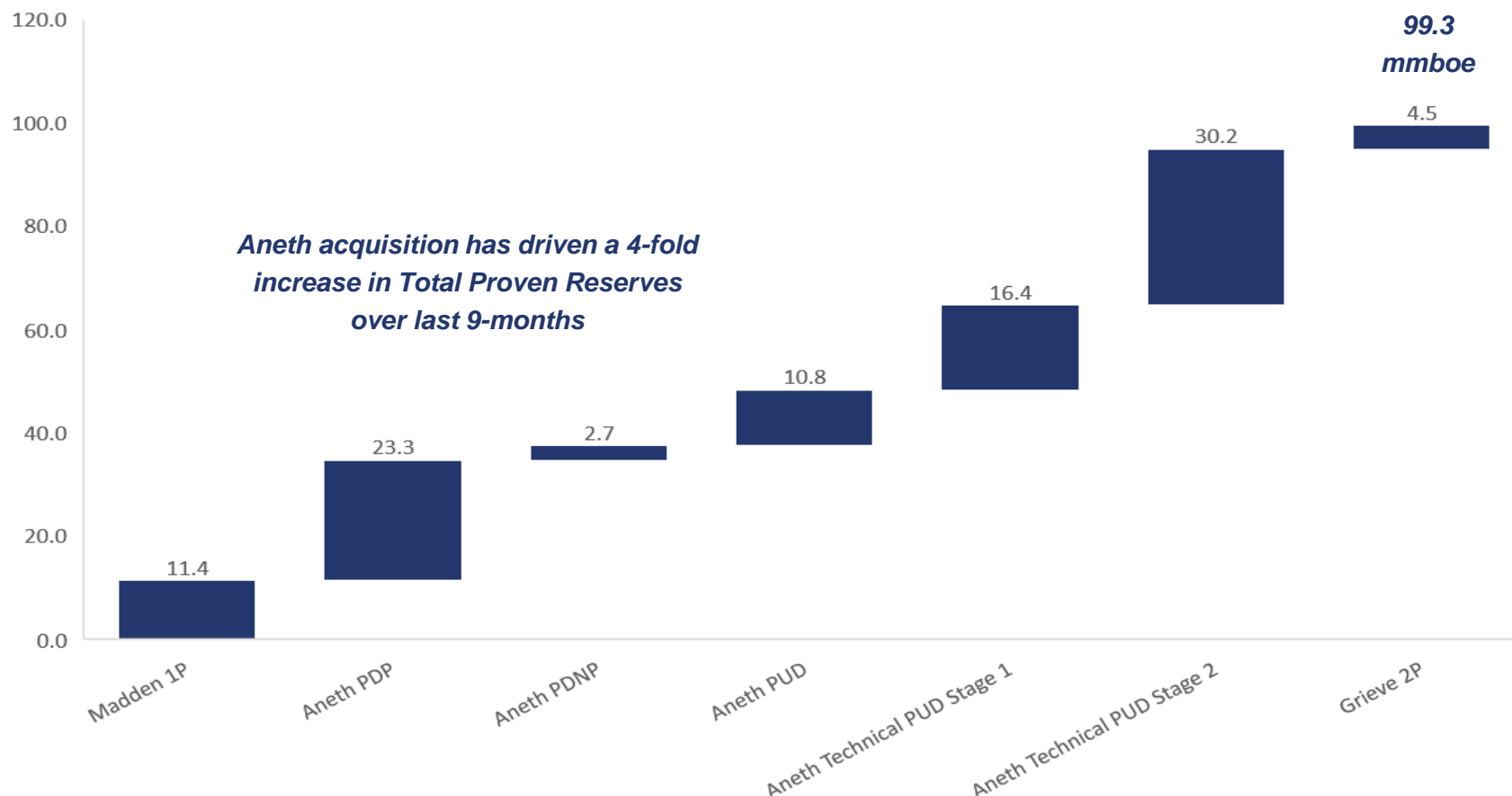
- Production supported by high quality, low decline assets
- Strong base line production established of ~10,000 BOEPD in 2017
- Strong organic growth can be delivered through focusing on Aneth development
- Potential to increase production by 40% to over 14,000 BOEPD by CYE2023
- Incremental production growth is entirely made up of high value liquids

Current Aneth project pipeline at flat \$60/bbl oil price. Project IRR hurdle rate of 15% (pipeline range of 15% to 124% at \$60/bbl oil)

Delivering Significant Reserves Growth

June 2018

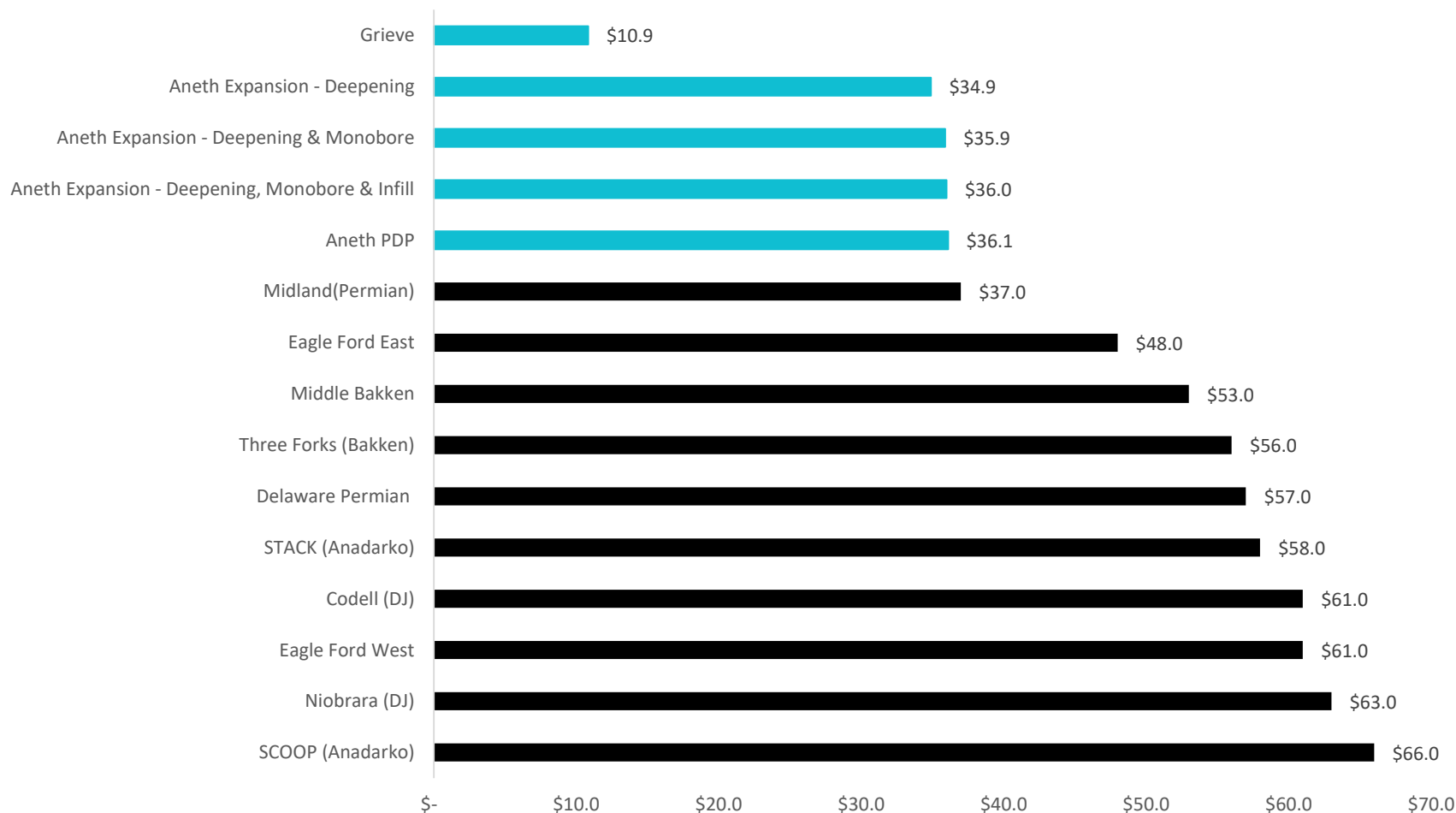
Reserves by Asset & Category (mmboe)*



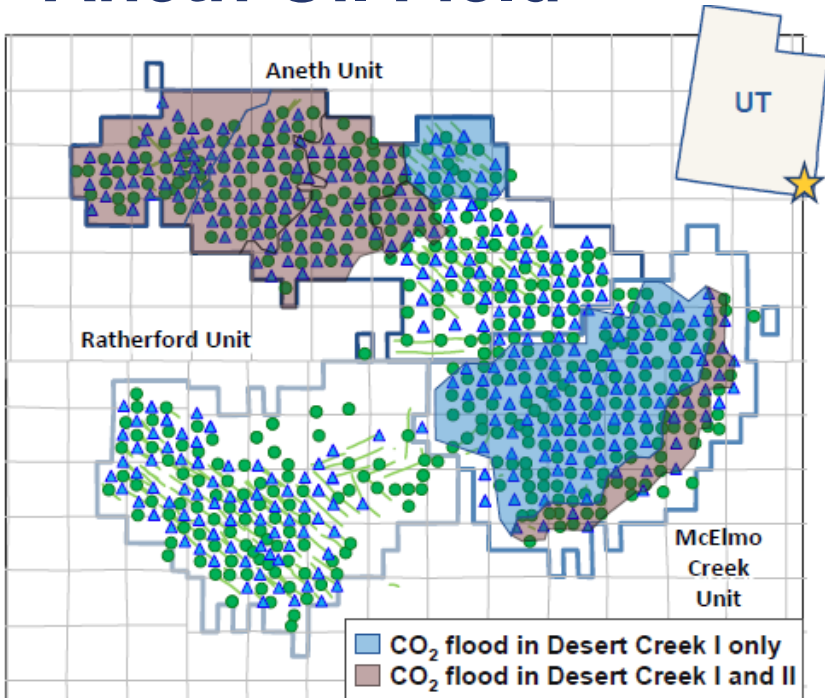
Reserve additions are - All high value liquids, low risk, low cost additions and PUD and Technical reserves can be delivered at ~US\$6/bbl development capital cost

Elk's assets deliver competitive economics

Average Break even Price



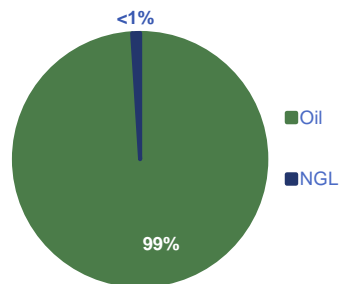
Aneth Oil Field



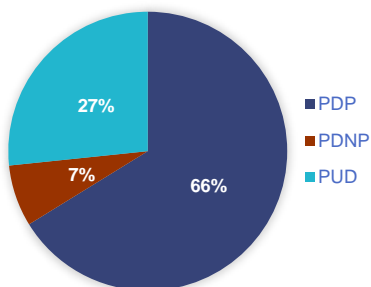
Aneth - Core Operated Asset

- CO₂ EOR project located in the southern US Rockies, southern Utah
- Discovered in 1956, and operated by Resolute Energy for the 12 years prior to September 2017 acquisition by Elk
- Elk majority owned (63%) and operated
- 1.5 billion barrels original oil-in-place
- 450 mmbbls light, sweet crude produced to date
- 300 mmbbls remaining recoverable oil @ 50% recovery factor
- Proved Developed Producing reserves = 23.3 mmbbls*
- Total Proved reserves = 36.9 mmbbls*
- Technical PUD = 45.5 mmbbls*
- PDP PV₁₀ = US\$238.4m*
- Total Proved PV₁₀ = US\$354.5m
- FYE18 LOE = US\$21.40/bbl
- FYE18 Maintenance CAPEX = US\$1.5m
- FYE18 CO₂ CAPEX = US\$3.2m

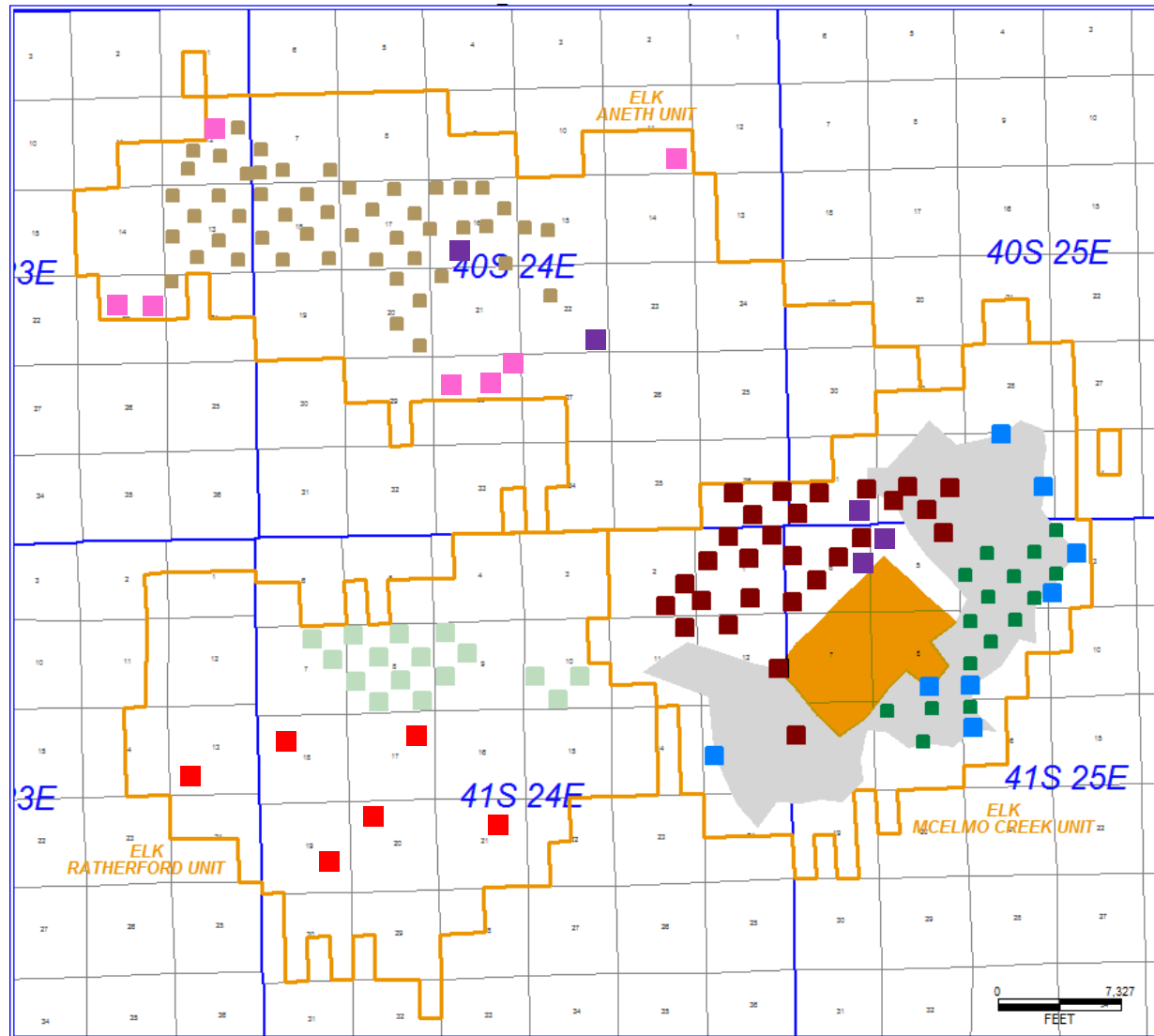
PROVED RESERVES – BY HYDROCARBON



PROVED RESERVES – BY CATEGORY



Aneth Development Project map



Legend

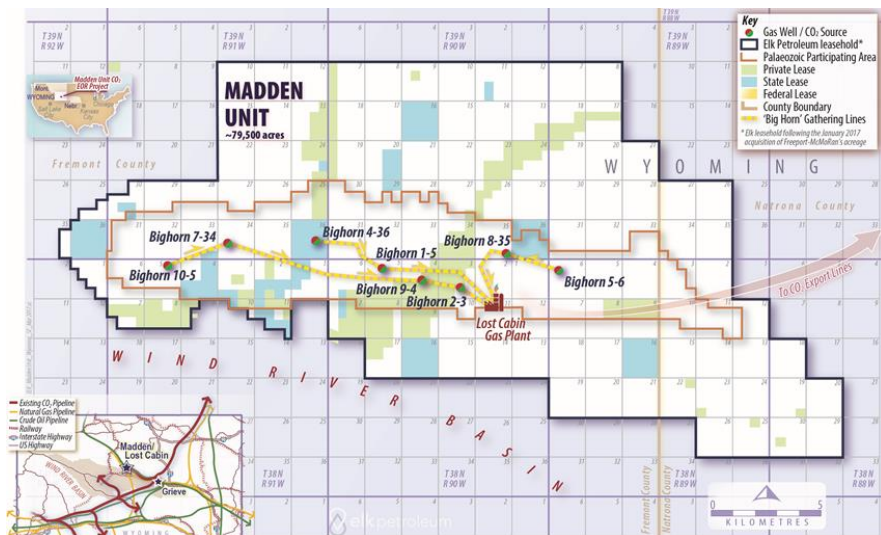
Stage 1 Development Projects

- MCU DC-IIC Well Deepening
- MCU Producer Conformance Well
- RU Banked & Infill Lateral Well
- MCU Compression Expansion 1
- AU Infill Monobore Producer/Injector Well Pair
- MCU Infill Monobore Producer/Injector Well Pair

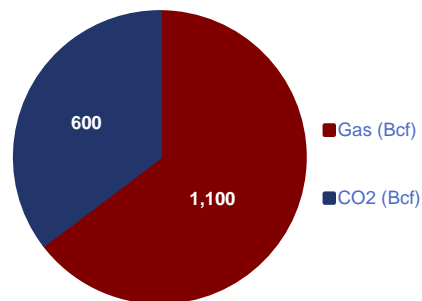
Stage 2 Development Projects

- MCU Compression Expansion 2
- AU/MCU Injector Well replacement
- AU Vertical Producer Well
- RU DC-IIC Infill Well

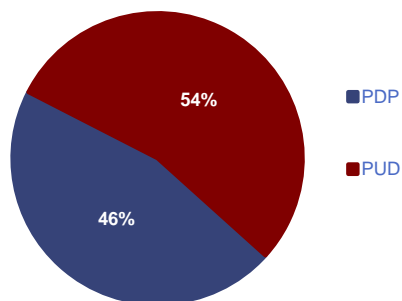
Madden Gas Field



GROSS PROVED RESERVES
BY HYDROCARBON



PROVED RESERVES
BY CATEGORY



Madden – Long Life Production & CO₂ Supply

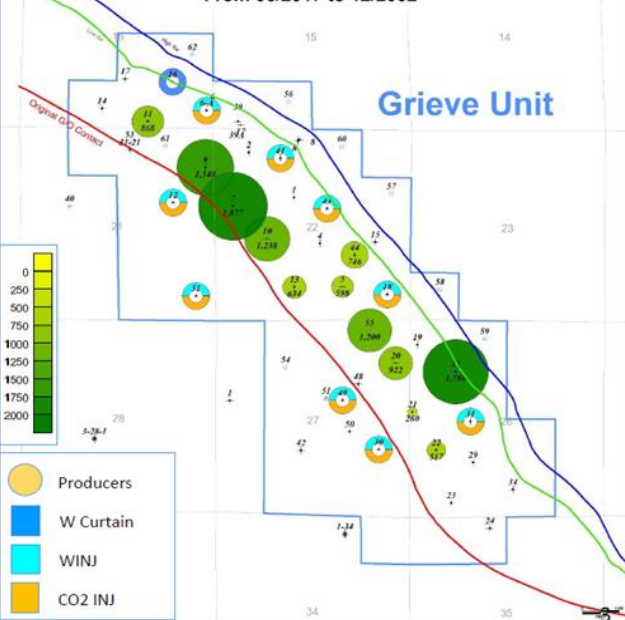
- The Madden Gas Field is located approximately 60 miles from the Grieve Project in Natrona County, Wyoming
- Discovered in 1968, the Madden Gas Field is one of the largest conventional natural gas fields in the US
- Elk working interest (14%) operated by ConocoPhillips (46%)
- 5.5 TCF original gas-in-place – 2nd largest gas field in Wyoming
- 2.4 TCF produced to date / 1.1 TCF sales gas remaining
- Gross CO₂ production = ~30 MMscf/day
- Gross Sulphur production = ~930 long tonnes/day
- Total PDP/Total Proved reserves = 20.6 BCF*
- Total 2P reserves = 68.3 BCF*
- Recoverable CO₂ = 600 BCF (gross)

Grieve Oil Field

Production Plan

- 13 Production wells
- 9 WAG wells
- 1 Water Curtain well
- Reservoir pressure @ 3300 psi
- 50 MMcf/day CO₂ recycle rate
- 0.35 WAG ratio

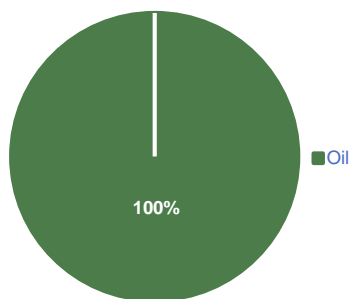
Case 18f - High Res Press Peripheral WAG 50 MMSCFD Low Density From 06/2017 to 12/2032



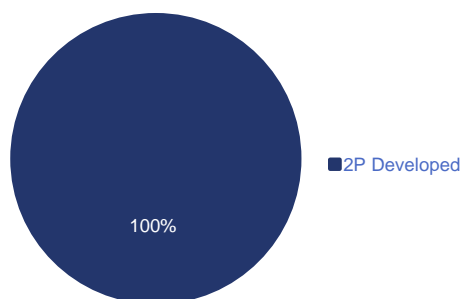
Grieve - Elk's Newest Production

- Grieve CO₂ EOR project is located in the Wind River Basin approx. 50 miles west of Casper in Wyoming
- Elk working interest (49%) with 60% economic interest¹
- Elk also has a 100% operated interest in the Grieve Crude Oil Export/Sales Pipeline
- Operated by proven CO₂ EOR operator - Denbury Resources (51%)
- Field development completed & field production start-up commenced
- Elk receives 75% of 1st million bbls oil produced / 65% of 2nd million barrels oil produced
- Probable reserves = 4.5 mmbbls²
- Probable reserves expected to reclassified as PDP in CY2019 following demonstrated CO₂ flood response*
- NPV₁₀ @ WTI Strip @ July 27, 2018 = US\$94.2m*

PROVED RESERVES BY HYDROCARBON



PROVED RESERVES BY CATEGORY

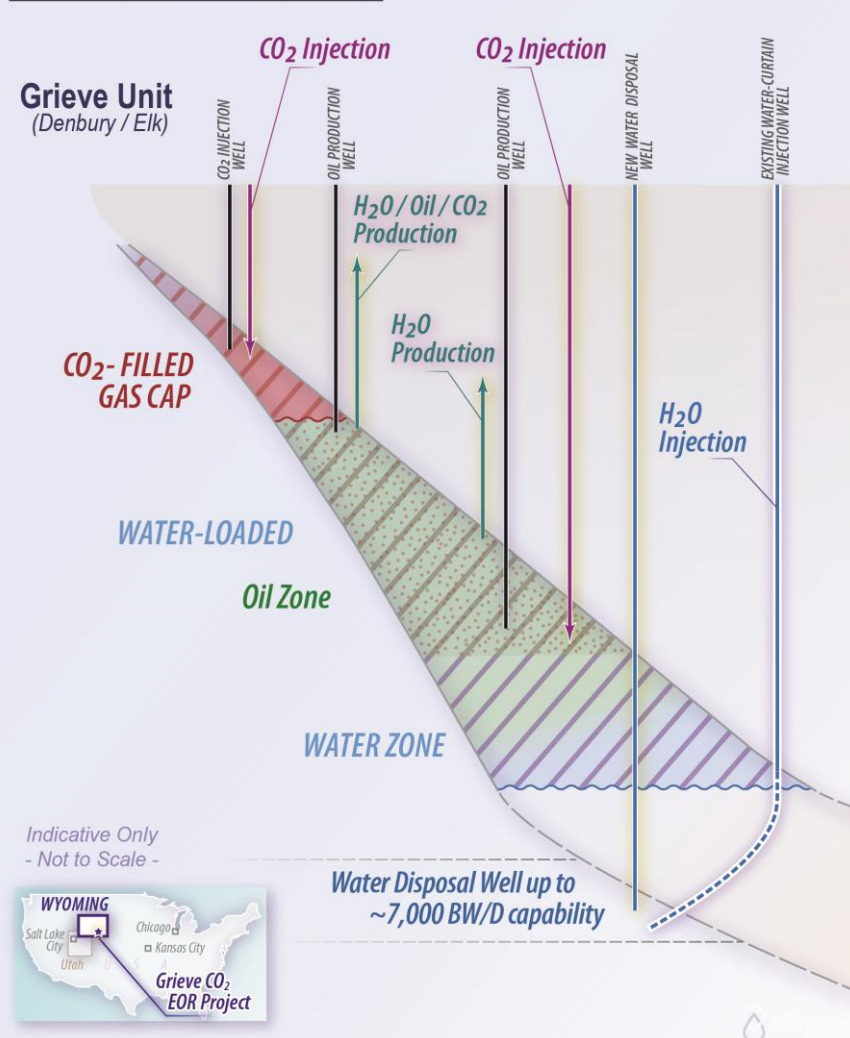


1. Refer Elk ASX announcement 05 August 2016 detailing revised joint venture structure

2. Reserves and production figures net to Elk. Grieve reserves independently audited by VSO Petroleum Consultants as of 30 June 2018. PV10 estimate is based on current Grieve Probable production forecast from VSO Petroleum Consultants and at WTI forward strip pricing at July 27, 2018 post-impact of hedging and any applicable ORRs related to existing financing arrangements.

Grieve Oil Field Start-up Progress

CURRENT FIELD START-UP

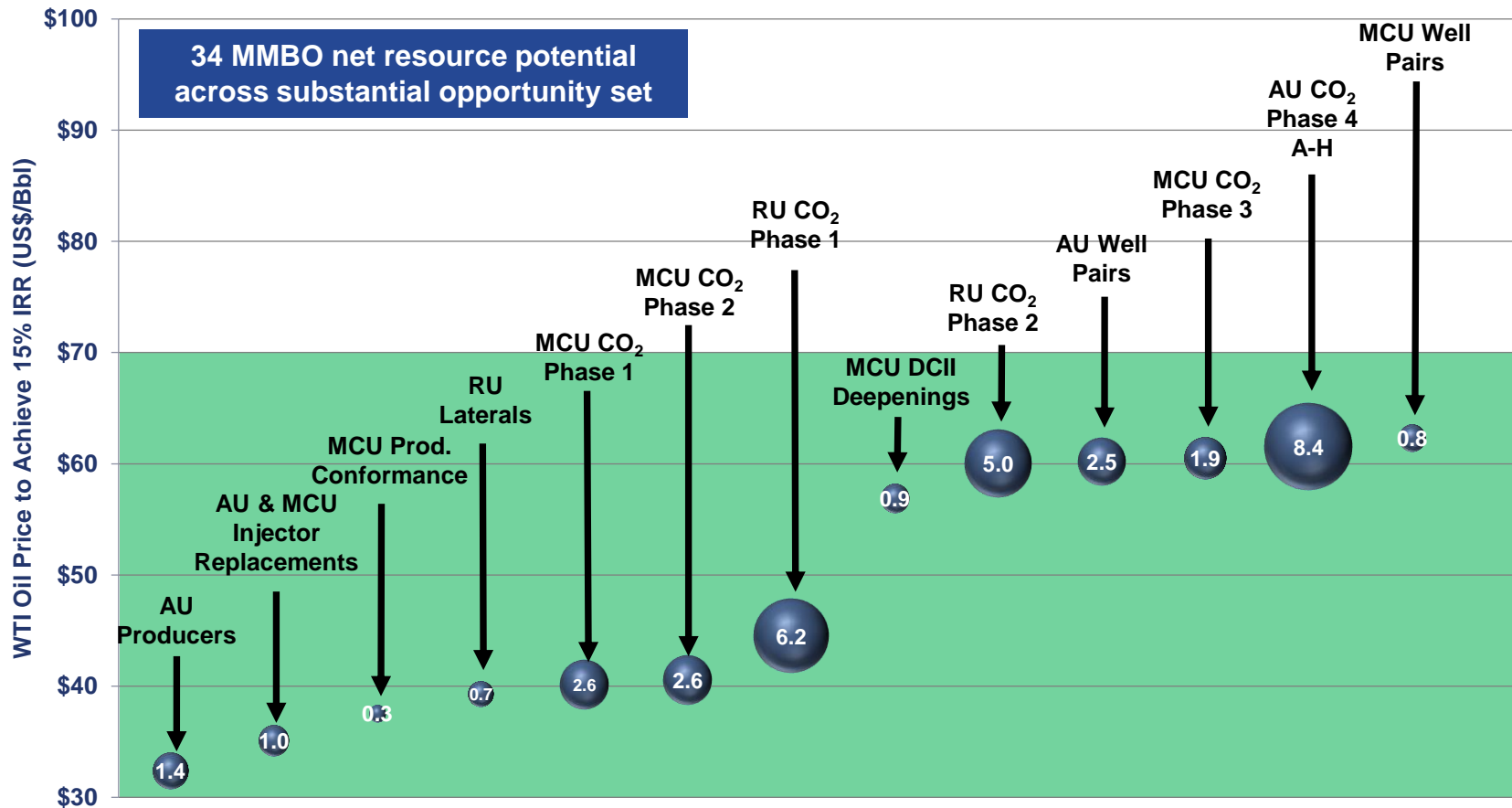


Field in start-up mode / production ramping up

- Field development construction completed April 2018
- Facilities, gathering lines & well commissioning completed and continuous production operations commenced July 2018
- Wells now free flowing and production de-watering reservoir in advance of CO₂ flood response
- Currently producing over 15,000 BOFPD per day increasing to over 22,000 BOFPD with 89 BOPD and steadily increasing with early signs of CO₂ flood response in updip wells
- Produced over 5,000 bbls to date & Grieve Oil Export Pipeline now half full
- Continuous CO₂ injection of over 35 mmscf/day and clear signs of CO₂ migration into residual oil zone (ROZ)
- Currently producing Operator expecting initial CO₂ flood response to begin late 2018 as field dewateres
- Oil production expected to reach ~2,000 bopd about 6-months following first CO₂ flood response - Substantial production ramp-up by mid-CY2019
- Oil production rate expected to reach ~3,400 BOPD (gross) over 13-months

Organic growth – Aneth Development Projects

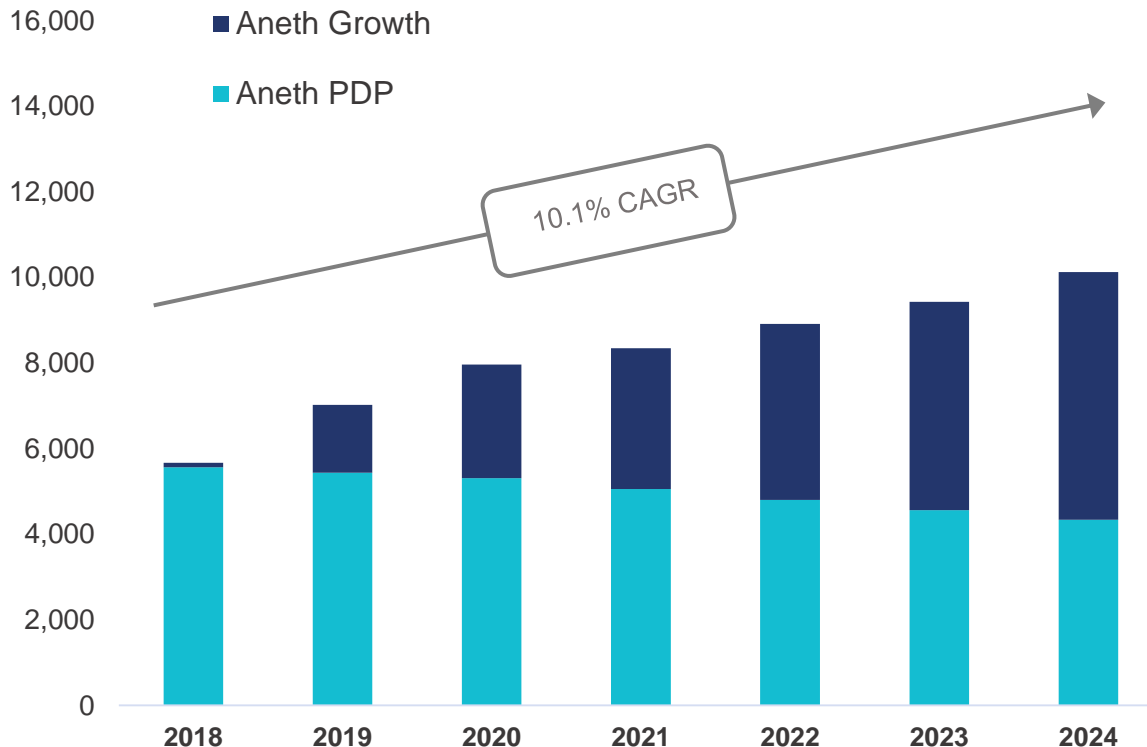
Aneth Infield Development Reserve Additions – Indicative Development Projects



1. Projects evaluated at time-zero for ranking purposes.
2. Reserves only and excludes any non-economic contingent resources.

Delivering Significant Organic Production Growth

Total Aneth Production Growth (boepd) through 2024



- Production supported by high quality, low decline assets
- Strong base line production established of ~6,000 BOEPD in 2017
- Strong organic growth can be delivered through focusing on Aneth development
- Potential to increase production by 60% to over 10,000 BOEPD by CYE2024
- Incremental production growth is entirely made up of high value liquids

Current Aneth project pipeline at flat \$60/bbl oil price. Project IRR hurdle rate of 15% (pipeline range of 15% to 124% at \$60/bbl oil)

Oil Reserves - MMBBL

Company (30 June 2018)	% 1P Oil	PDP	PDNP	PUD	Probable	Possible	1P	2P	3P
Oil Search Limited	15%	44.4	-	14.7	13.9	-	59.1	73.0	73.0
Elk Petroleum Limited	75%	23.1	2.7	10.8	4.5	6.0	36.6	41.1	47.1
Beach Energy Limited	13%	19.0	-	6.0	17.0	31.0	25.0	42.0	73.0
Woodside Petroleum Ltd	5%	17.5	-	31.0	21.4	-	48.5	69.9	69.9
Sundance Energy Australia Limited	61%	13.8	-	47.8	42.6	-	61.5	104.1	104.1
Santos Limited	4%	9.5	-	8.5	15.0	-	18.0	33.0	33.0
Freedom Oil and Gas Ltd	55%	7.4	-	-	13.4	-	7.4	20.8	20.8
Horizon Oil Limited	100%	4.7	-	0.1	4.5	-	4.8	9.3	9.3
Australis Oil & Gas Limited	100%	3.9	0.2	24.8	17.7	13.6	28.9	46.6	60.2
Byron Energy Limited	27%	3.0	-	-	4.9	4.6	3.0	8.0	12.5
Senex Energy Limited	12%	2.5	-	-	5.8	-	2.5	8.3	8.3
Otto Energy Limited	91%	1.4	0.2	0.6	2.8	1.6	2.2	5.1	6.7
Cooper Energy Limited	2%	1.1	-	0.1	1.8	3.3	1.2	3.0	6.3

Reserves Ranked by PDP

Total Reserves - MMBOE

Company (30 June 2018)	PDP	PDNP	PUD	Probable	Possible	1P	2P	3P
Woodside Petroleum Ltd	501.2	-	466.6	308.9	-	967.8	1,276.7	1,276.7
Santos Limited ⁽¹⁾	327.0	-	114.8	337.2	-	441.9	779.1	779.1
Oil Search Limited	294.6	-	104.6	59.4	-	399.2	458.6	458.6
Beach Energy Limited	103.0	-	87.0	124.0	177.0	190.0	314.0	491.0
Elk Petroleum Limited	27.7	9.9	10.9	5.3	6.8	48.5	53.9	60.6
Sundance Energy Australia Limited	22.6	-	78.3	69.8	-	100.9	170.7	170.7
Senex Energy Limited	20.2	-	-	110.6	-	20.2	130.8	130.8
Freedom Oil and Gas Ltd	13.4	-	-	24.4	-	13.4	37.8	37.8
Byron Energy Limited	11.1	-	-	18.3	12.1	11.1	29.3	41.4
Horizon Oil Limited	4.7	-	0.1	4.5	-	4.8	9.3	9.3
Australis Oil & Gas Limited	3.9	0.2	24.8	17.7	13.6	28.9	46.6	60.2
Cooper Energy Limited	3.5	-	44.6	7.5	10.8	48.0	55.5	66.3
Comet Ridge Limited	2.8	-	-	24.2	31.7	2.8	27.0	58.8
Otto Energy Limited	1.6	0.3	0.6	3.5	2.0	2.5	6.0	8.0
Blue Energy Limited	-	-	-	11.2	35.7	-	11.2	46.8

Reserves Ranked by PDP

If companies only report 1P assume best case scenario (all PDP)

Production Rates & Quarterly Revenue

Company	boe/d	% Oil	FY18 Q4 Revenue (US\$m)
Woodside Petroleum Ltd	242,857	18%	1,194
Santos Limited	156,044	19%	886
Beach Energy Limited	83,538	24%	471
Oil Search Limited ¹	59,330	18%	263
Elk Petroleum Limited	9,158	59%	34
Sundance Energy Australia Limited	7,892	54%	27
Horizon Oil Limited	6,586	100%	40
Freedom Oil and Gas Ltd	4,500	70%	4
Cooper Energy Limited	3,846	4%	20
Senex Energy Limited	2,967	81%	27
Byron Energy Limited	1,681	88%	9
Otto Energy Limited	1,645	90%	8
Australis Oil & Gas Limited	1,121	100%	7

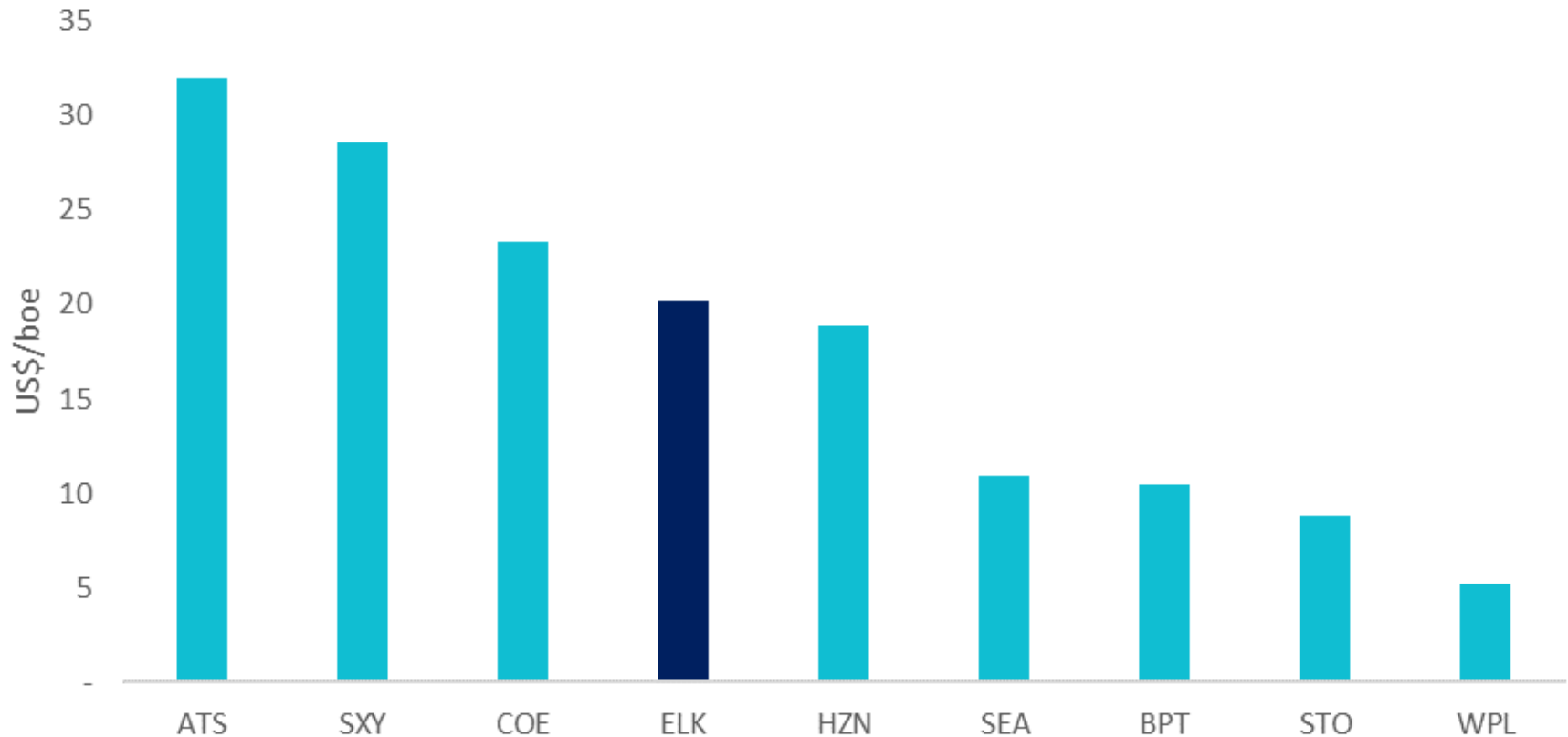
Companies ranked by net production rate

Realised Oil Prices*



*June quarter 2018, average spot price US\$67.92/bbl

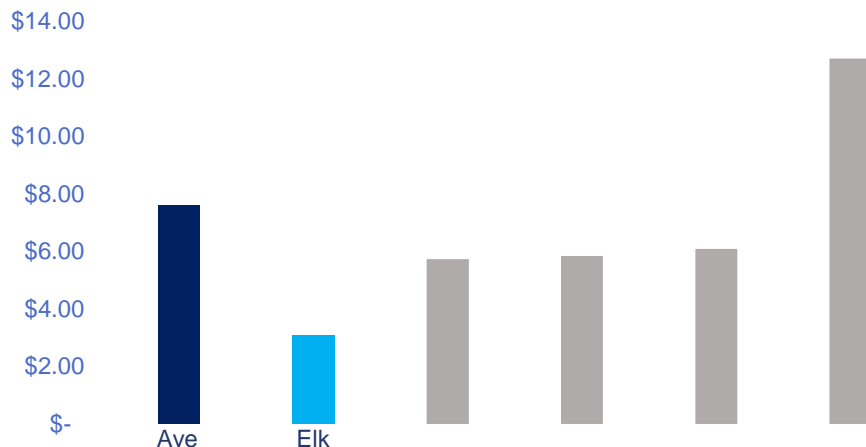
Lease Operating expense per Barrel Oil Equivalent*



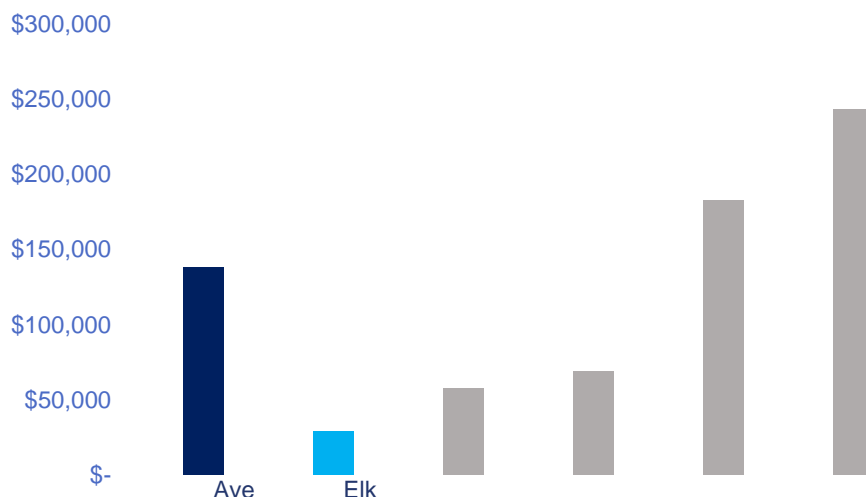
*June quarter 2018, average spot price US\$67.92/bbl

Elk Petroleum is Discounted to ASX Peers

EV to 2P Reserves



EV to Flowing Production

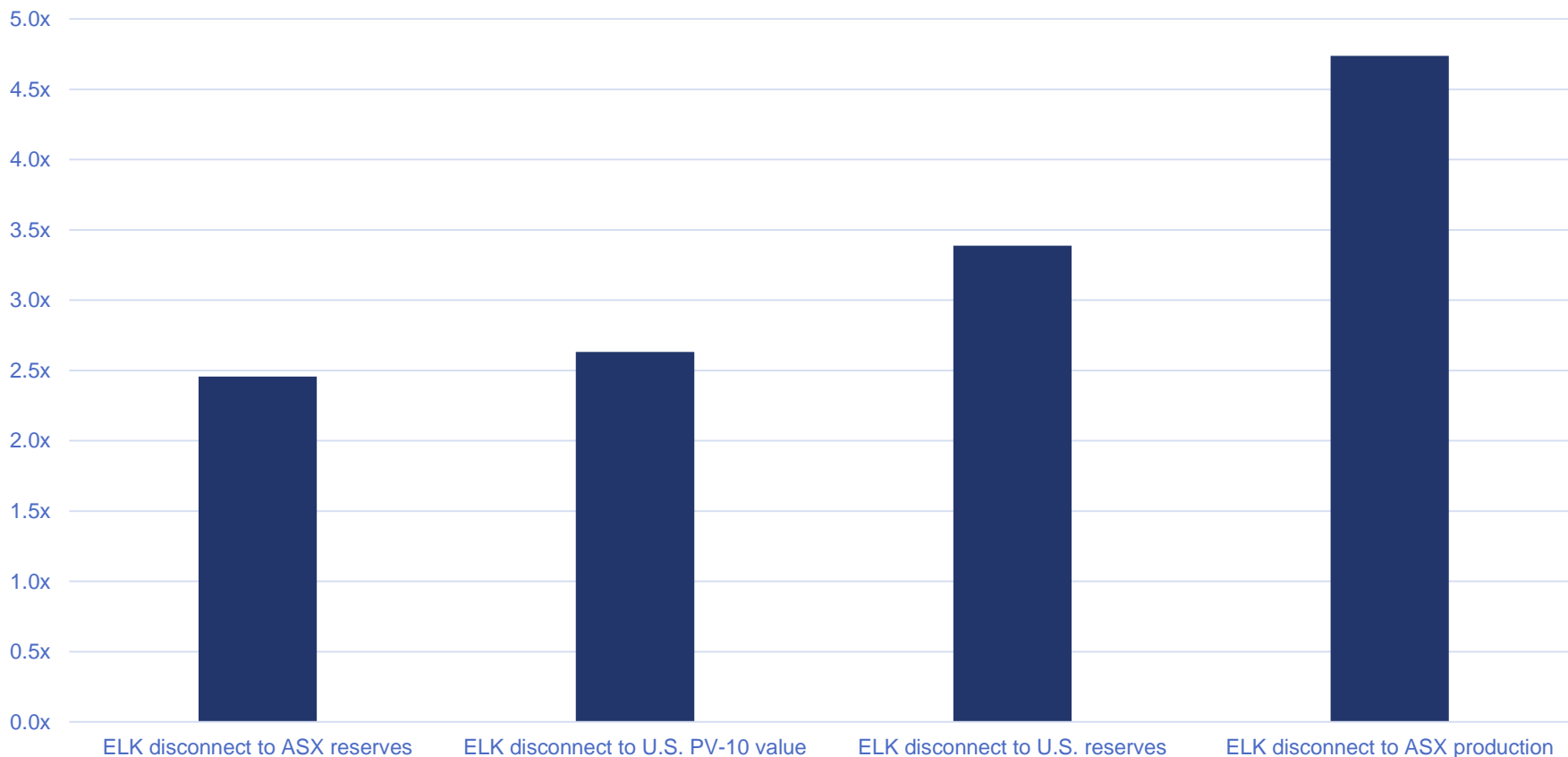


- Elk Petroleum trades at a discount to Australian peers on both a reserves and production basis.
- If ELK received the average valuation per MMBOE of reserves, the Company's enterprise value would be US\$774 million.
- Despite having the most flowing production in the peer group, ELK receives the lowest valuation.
- If ELK received the average valuation per flowing barrel, the Company's enterprise value would be approximately US\$1.5 billion.

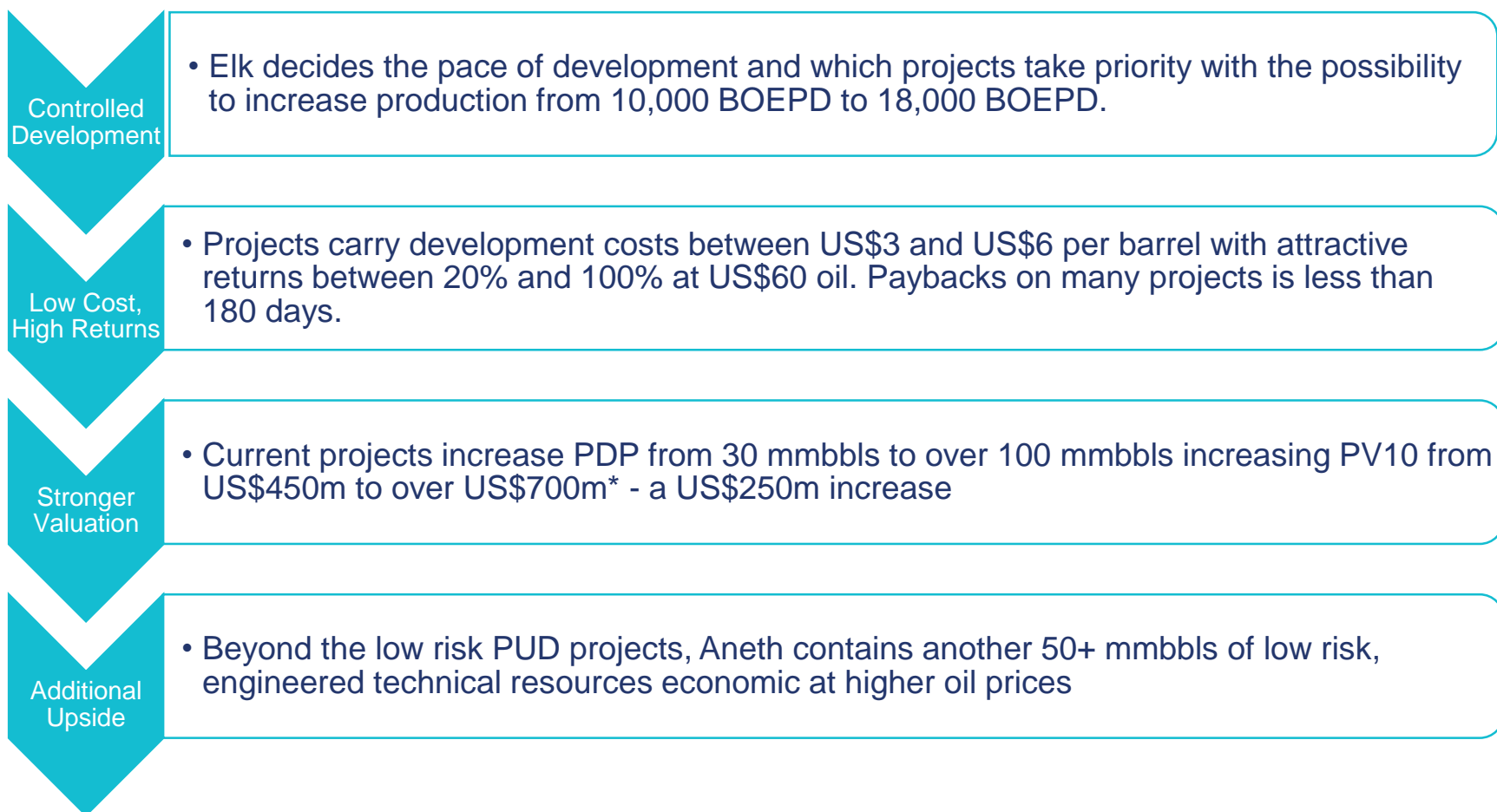
Pick Your Metric

Regardless of the peer group, ELK is trading as a clear discount to peers providing opportunity for investors

Disconnect to Average Valuation



Organic Growth - Roadmap to 100 mmbbls & Beyond



An ideal asset with proven reserves, material profitable production and significant development growth potential



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