

# DIVERSIFIED EXPLORER

NORTH SLOPE OF ALASKA



SEPTEMBER 2019 UPDATE



*Nordic Rig #3  
NORDIC CALISTA SERVICES*

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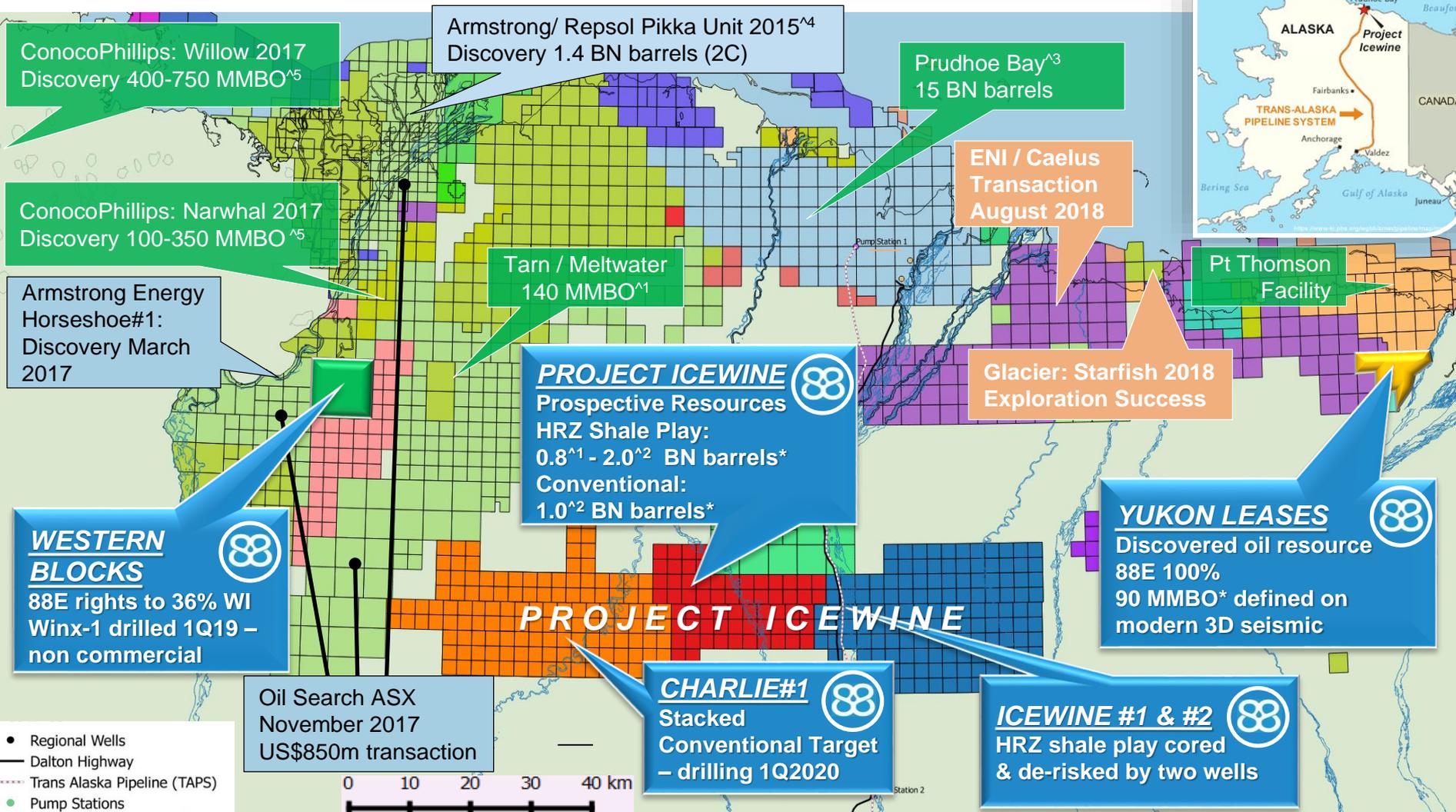
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Pursuant to the requirements of the ASX Listing Rules Chapter 5 and the AIM Rules for Companies, the technical information and resource reporting contained in this document was prepared by, or under the supervision of, Dr Stephen Staley, who is a Non-Executive Director of the Company. Dr Staley has more than 35 years' experience in the petroleum industry, is a Fellow of the Geological Society of London, and a qualified Geologist / Geophysicist who has sufficient experience that is relevant to the style and nature of the oil prospects under consideration and to the activities discussed in this document. Dr Staley has reviewed the information and supporting documentation referred to in this announcement and considers the prospective resource estimates to be fairly represented and consents to its release in the form and context in which it appears. His academic qualifications and industry memberships appear on the Company's website and both comply with the criteria for "Competence" under clause 3.1 of the Valmin Code 2015. Terminology and standards adopted by the Society of Petroleum Engineers "Petroleum Resources Management System" have been applied in producing this document.

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# North Slope Oil & Gas

## Recent Discoveries and Activity



\* Net mean prospective resource  
<sup>^1</sup> Independent Est., <sup>^2</sup> Internal Est., <sup>^3</sup> Source USGS 2005, <sup>^4</sup> Armstrong 2016,  
<sup>^5</sup> Conoco 2018

|  |  |
|--|--|
| <span style="color: red;">■</span> 88E – 141,859 net acres WI: 76%       | <span style="color: green;">■</span> 88E – Rights to 8,176 net acres WI: 36% |
| <span style="color: blue;">■</span> 88E – 27,496 net acres WI: 25%       | <span style="color: yellow;">■</span> 88E – 14,194 net acres WI: 100%        |
| <span style="color: orange;">■</span> 88E – 57,024 net acres WI: 30%/75% |  |

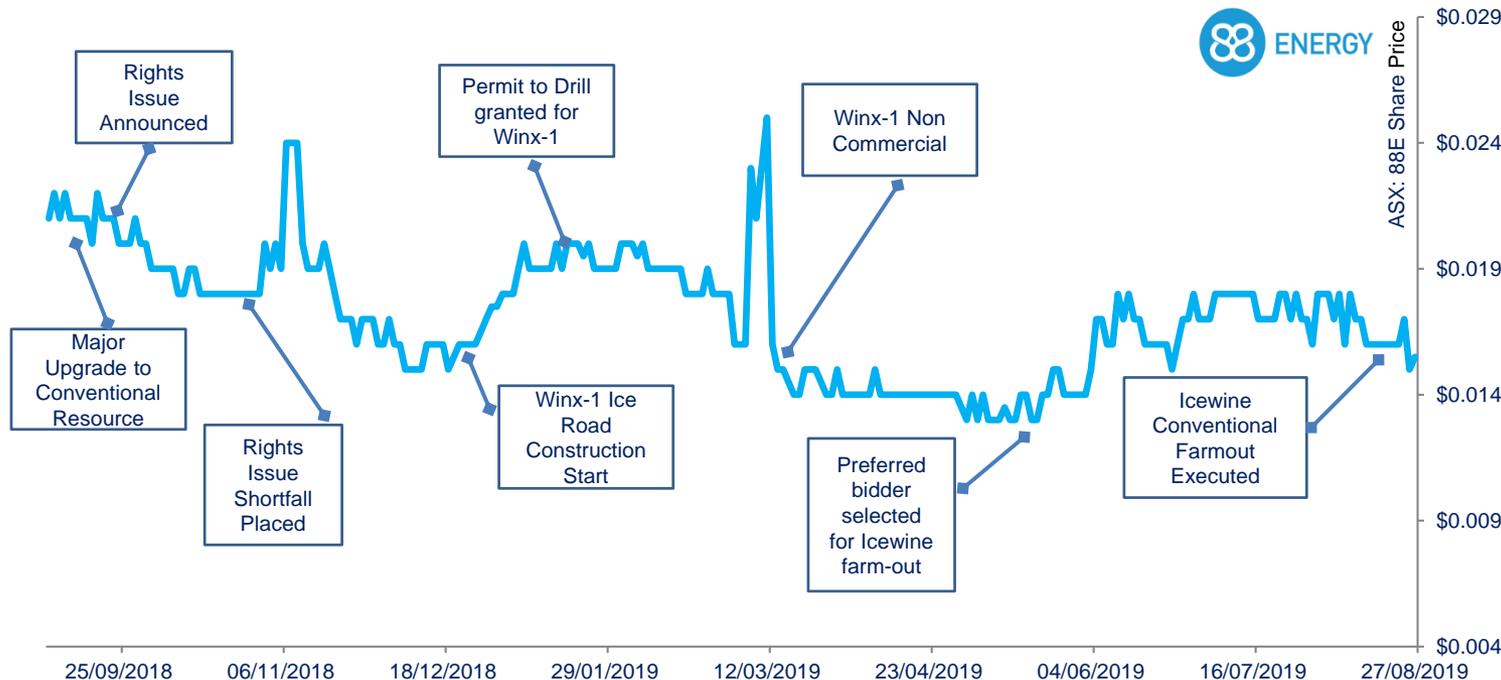
# 88 Energy Corporate Snapshot



| 88 Energy Limited<br>(ASX, AIM: 88E) | Current |
|--------------------------------------|---------|
| Shares on Issue                      | 6,332m  |
| Options on Issue                     | 286m    |
| Market Capitalisation<br>(A\$0.015)  | A\$98m  |
| Cash (30 June '19)                   | A\$6.5m |
| Board and Top 20                     | 58%     |

| 88E Board and Management |                                       |
|--------------------------|---------------------------------------|
| David Wall               | Managing Director                     |
| Michael Evans            | Non-Exec Chairman                     |
| Dr Stephen Staley        | Non-Exec Director                     |
| Ashley Gilbert           | Chief Financial Officer               |
| Erik Opstad              | General Manager,<br>Alaska Operations |

| Project List   | Working Interest           | Net Acres                |
|--|----------------------------|--------------------------|
| Project Icewine:<br>Conventional /<br>(Unconventional) | Operator<br>47% /<br>(64%) | ~225,000 /<br>(~310,000) |
| Yukon Gold<br>Conventional                             | Operator<br>100%           | 14,194                   |
| Western Blocks<br>Conventional                         | 36%                        | 8,176                    |



## Planned Activity

- Finalise permitting and contracting for Charlie-1
- Drill Charlie-1 well 1Q2020
- Farmout Icewine HRZ 2H2019
- Farm-out Yukon Leases

'Planned' are forward looking and subject to change, \*earning 36%

# Alaska North Slope: Multiple World Class Assets



## Alaska Central North Slope: Multiple High-Quality Assets in Portfolio

- 88E Operator/Manager on 4 active Exploration Projects across >250,000 net acres

### Project Icewine Conventional Farm-out Executed – Drilling within 6 months

- Charlie-1 (Malguk-1 appraisal) well to test multiple stacked targets in 1Q2020
- Funded by Farminee, Premier Oil Plc, up to US\$23m in exchange for 60% of conventional potential in Area A (Western Play Fairway)
- 88E to operate Charlie-1 – permits and contracts on schedule for 1Q2020 spud

### Icewine: Large Conventional Prospect Portfolio – 1.0 Billion Barrels Oil Net to 88E#

- Multiple stacked prospects over three plays mapped on modern 3D seismic – drilling imminent

### Yukon Leases: Existing Discovery – Newly acquired & processed 3D seismic (2018), Interpretation Complete

- ~90MMBO mean prospective resource (100% 88E)

### Icewine: HRZ Liquids Rich Resource Play – 0.8-2.0 Billion Barrels Liquids\*\*

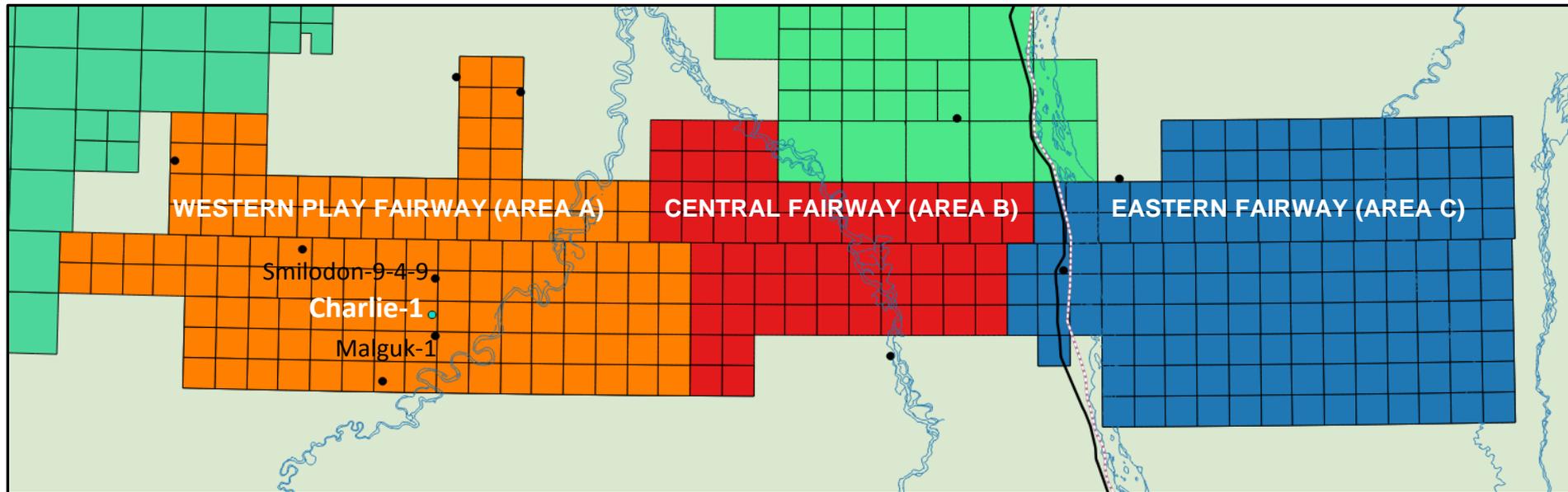
- De-risked by two wells: Icewine#1 and Icewine#2 - farm-out targeted 2H19

### Western Blocks: Post Drill Review Underway

- Winx#1 declared unsuccessful – remaining potential on blocks under assessment

\*\* Net Mean Prospective Resource based on 271,000 gross acres, #Net Mean Prospective Resource

# Project Icewine: Near Term Appraisal Drilling Multiple Stacked Targets to be Drilled 1Q2020



- 486,000 contiguous acres with access to transportation corridor / TransAlaskaPipeline
- 75% of prospectivity supported by modern 3D on just 25% of acreage on Western Play Fairway
- Project Icewine: 2.9 billion barrels unrisked gross mean conventional prospective resource based on modern 3D/ 2D seismic (1.0 billion barrels net to 88E)
- Area A (Western Play Fairway) farmed-out to Premier Oil Plc: earning 60% for funding US\$23m well
  - 88E to retain 30% in Area A and operate Charlie-1 (Malguk-1 appraisal) well
  - Spud 1Q2020 – permitting and contracting on track
  - Stacked targets with gross mean prospective resource of 1.6 BBO (480 MMBO net to 88E)

# Conventional Prospective Resource Multiple Large Appraisal / Exploration Targets



| PROJECT ICEWINE CONVENTIONAL PORTFOLIO<br>Prospective Oil Resource MMBO (Unrisked) |                            |     |      |      |              |                 |
|--|----------------------------|-----|------|------|--------------|-----------------|
| Prospects and Leads  | August 2019: Post Farm-Out |     |      |      |              |                 |
|  | Horizon / Play             | Low | Best | High | Gross Mean   | Net Mean to 88E |
| <b>WESTERN PLAY FAIRWAY:</b>   |                            |     |      |      |              |                 |
| Victor Prospect (stacked)  | Schrader / Topset          | 196 | 313  | 477  | 328          | 98              |
| Indigo Discovery   | Schrader / Topset          | 225 | 358  | 543  | 374          | 112             |
| Charlie Prospect   | Schrader / Topset          | 126 | 201  | 304  | 210          | 63              |
| Bravo Prospect   | Seabee / Fan               | 57  | 138  | 292  | 160          | 48              |
| Mike Prospect  | Seabee / Fan               | 9   | 26   | 56   | 30           | 9               |
| Rose Prospect  | Seabee / Fan               | 7   | 21   | 44   | 24           | 7               |
| Lima Discovery/ Prospect (stacked)   | Seabee / Apron Fan         | 105 | 323  | 713  | 376          | 113             |
| Heavenly Discovery   | Torok / Apron Fan          | 23  | 62   | 120  | 68           | 20              |
| Whiskey Prospect (stacked)   | Torok Apron                | 62  | 112  | 192  | 118          | 35              |
| Stellar Prospect/Discovery (stacked)   | Torok / Fan, Channel       | 320 | 604  | 999  | 639          | 192             |
| Y Lead   | Schrader / Topset          | 24  | 41.2 | 67   | 44           | 13              |
| Z Lead   | Schrader / Topset          | 11  | 27   | 53   | 29           | 9               |
| <b>WESTERN PLAY FAIRWAY TOTAL:</b>   |                            |     |      |      | <b>2,400</b> | <b>720</b>      |
| <b>CENTRAL PLAY FAIRWAY:</b>   |                            |     |      |      |              |                 |
| Echo Lead  | Canning / Fan              | 60  | 138  | 293  | 162          | 121             |
| Golf Lead  | Canning / Fan              | 106 | 193  | 339  | 211          | 72              |
| <b>CENTRAL PLAY FAIRWAY TOTAL:</b>   |                            |     |      |      | <b>373</b>   | <b>193</b>      |
| <b>EASTERN PLAY FAIRWAY:</b>   |                            |     |      |      |              |                 |
| Alpha Lead   | Canning / Submrn Fan       | 19  | 71   | 263  | 118          | 91              |
| Romeo Lead   | Kuparuk / Kemik Sands      | 2   | 3    | 5    | 4            | 3               |
| Sierra Lead  | Kuparuk / Kemik Sands      | 1   | 2    | 3    | 2            | 2               |
| <b>EASTERN PLAY FAIRWAY TOTAL:</b>   |                            |     |      |      | <b>124</b>   | <b>96</b>       |
| <b>TOTAL PROSPECTIVE OIL RESOURCE MMBO (Mean Unrisked)</b>                         |                            |     |      |      | <b>2,896</b> | <b>1,009</b>    |

- Multiple stacked drillable prospects identified on Icewine 3D interpretation
- 1 billion barrels of prospective oil resource net to 88E (mean, unrisked)
- Stacked Brookian prospects to be tested by Charlie-1 well in 1Q2020

Prospective Resources classified in accordance with SPE-PRMS as at 23<sup>rd</sup> October 2018 using probabilistic and deterministic methods on an unrisked basis. Prospects and Leads identified from interpretation of modern 3D seismic acquired in 2018, 2D seismic acquired in 2015/2016 and legacy 2D seismic of varying vintages post 1980 across Project Icewine, which comprises 482,000\*\* gross acres on the Central North Slope of Alaska. 88 Energy is Operator of record at Project Icewine (through its wholly owned subsidiary Accumulate Energy Alaska, Inc) with a ~47% working interest over the conventional play fairway where the prospects and leads have been mapped.

Cautionary Statement: The estimated quantities of petroleum that may be potentially recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation are required to determine the existence of a significant quantity of potentially movable hydrocarbons.

\*\* 225,000 acres net to 88 Energy working interest (post farm-out)

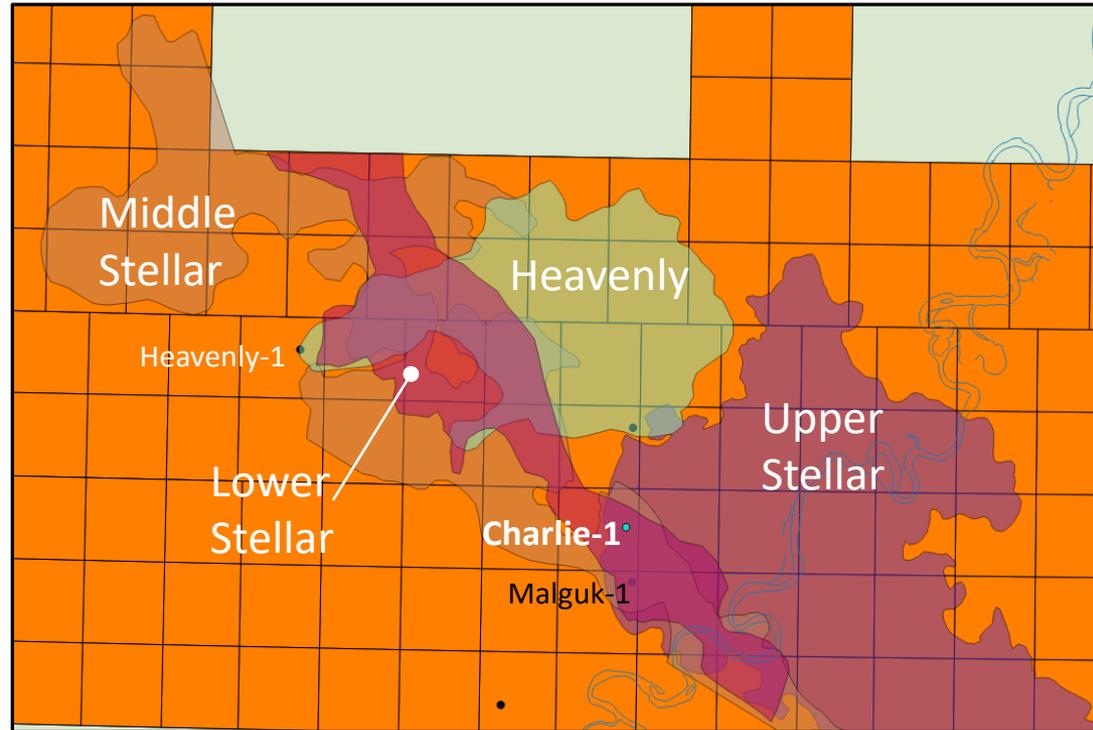
# Western Play Fairway

## Torok (Primary Target – 3 Horizons)



### Torok Fan Play – Proven Oil at Icewine to be Appraised by Charlie-1 in 1Q2020

- Malguk-1 and Heavenly-1 confirmed oil in Upper Stellar, Middle Stellar and Heavenly prospects – considered discoveries for appraisal
- Lower Stellar also highly likely to be oil bearing based on elevated resistivity log
- Charlie-1 designed to penetrate Upper, Middle and Lower Stellar stacked primary objectives in the Torok formation
- 700 ft gross oil bearing interval interpreted with porosity up to 18%
- Planned frac and flow test in vertical hole in 1Q2020
- On success, lateral from same wellbore with multi-stage stimulation and flow test in 1Q2021



| Prospects and Leads      | Horizon / Play    | Low | Best | High | Gross Mean | Net Mean to 88E |
|--------------------------|-------------------|-----|------|------|------------|-----------------|
| Heavenly Discovery       | Torok / Apron Fan | 23  | 62   | 120  | 68         | 20              |
| Stellar Upper Discovery  | Torok Fan         | 121 | 234  | 394  | 249        | 75              |
| Stellar Middle Discovery | Torok Channel     | 148 | 277  | 455  | 292        | 88              |
| Stellar Lower Prospect   | Torok Fan         | 51  | 93   | 150  | 98         | 29              |

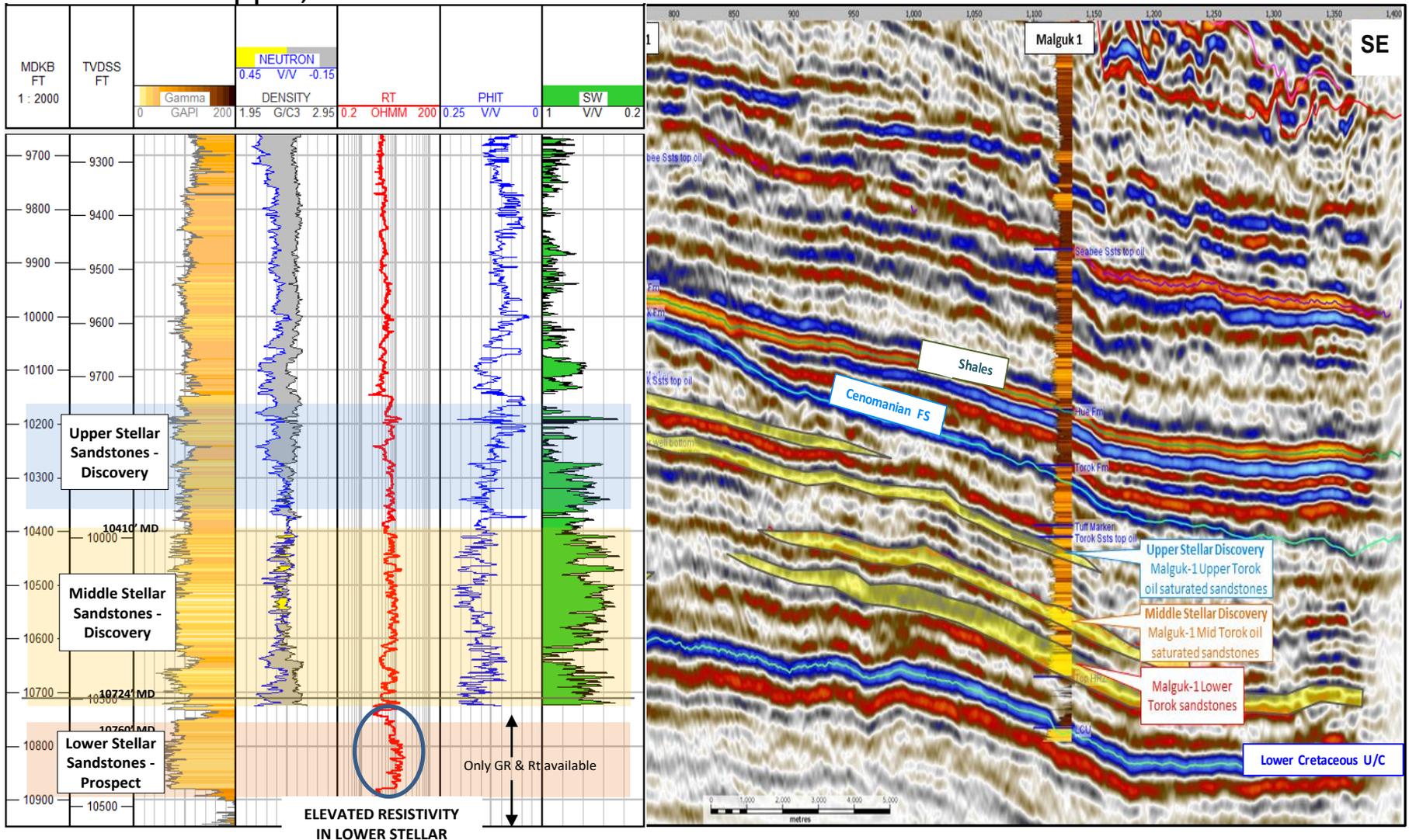
Gross mean prospective resource across stacked Stellar targets of 639 MMBO  
(192 MMBO net to 88E)

# Stacked Torok Targets (Stellar)

## Modern 3D Seismic and Petrophysics



Petrophysical analysis indicates thick oil bearing section with multiple sand packages in the Torok – Upper, Middle and Lower Stellar



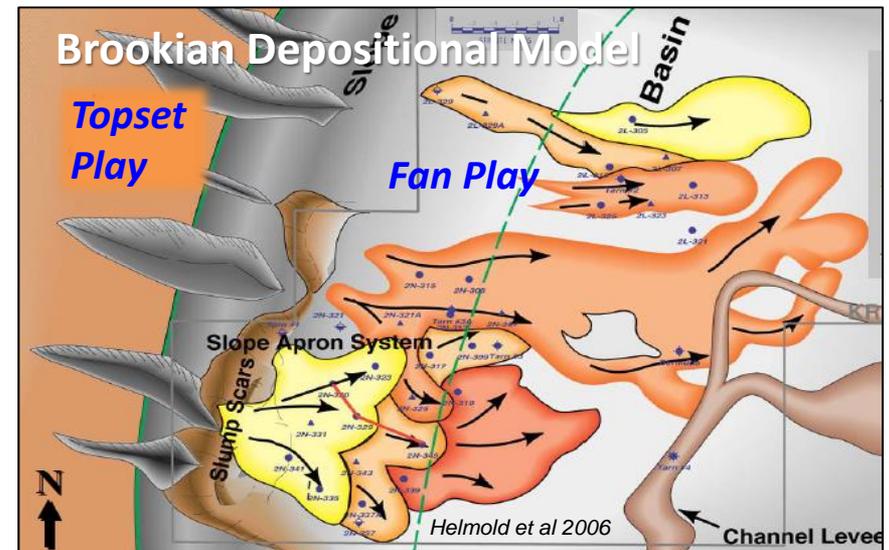
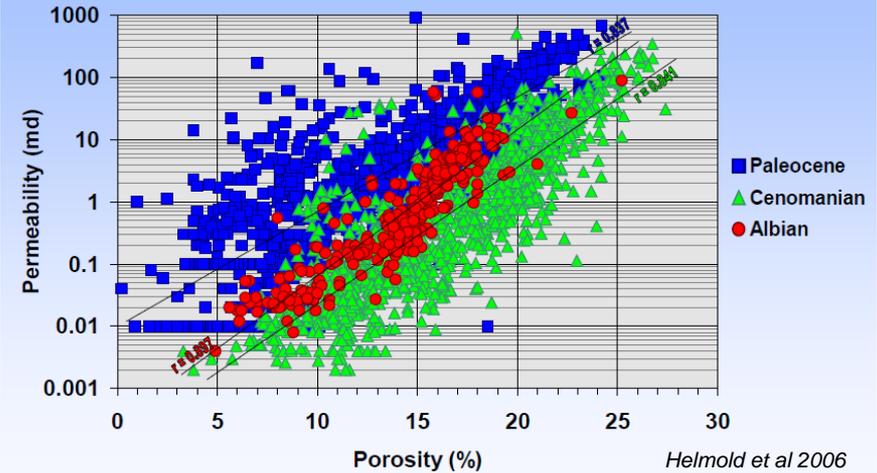
# Project Icewine

## Brookian Reservoir Quality



- Porosity on Icewine acreage ranges up to 21% in the Torok Fm (Albian) at 10,500 ft bucking regional porosity compaction trend
  - Potential primary porosity preservation e.g. due to subtle overpressure, early hydrocarbon charge
  - Enhancement by secondary porosity development - dissolution of minerals/ cements/ glass e.g. analcime - evident at Tarn oil field
- In fan plays, best reservoirs are in channels and lobes – identified on 2018 Icewine 3D seismic
- Reservoir modelling indicates that permeability of 2mD or greater likely to support commercial flow rates
- Reservoir quality remains key risk for Torok targets – considered largely mitigated by 3D seismic inversion calibrated by petrophysics in multiple wells located in Project Icewine acreage

### Brookian Sandstone Phi-K Trends



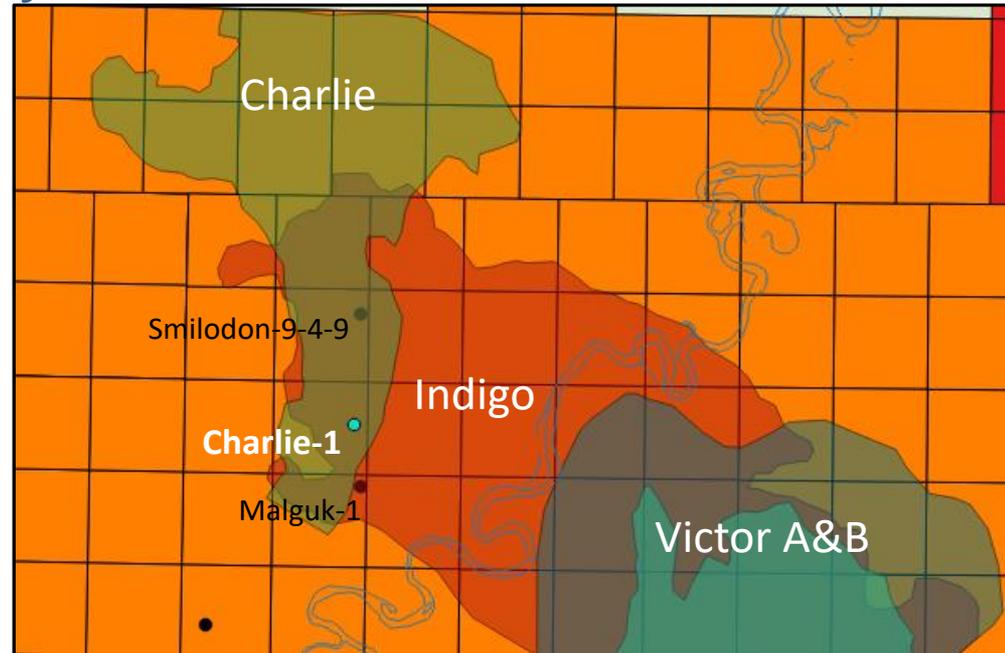
# Western Play Fairway

## Schrader (Primary Target – 2 Horizons)



### Significant new potential supported by 3D seismic inversion data

- Multiple prospects identified in Schrader Bluff Topsets
  - Analogous play type, on younger clinothem, to recently successful Nanushuk discoveries
- Shallow, large stacked objectives
- Indigo oil discovery – missed pay, with 49ft of oil saturated sandstones with avg total porosity of 18% indicated on petrophysical analysis
- Charlie prospect not intersected by Malguk or Smilodon wells
- Mapped on reflectivity and inversion data



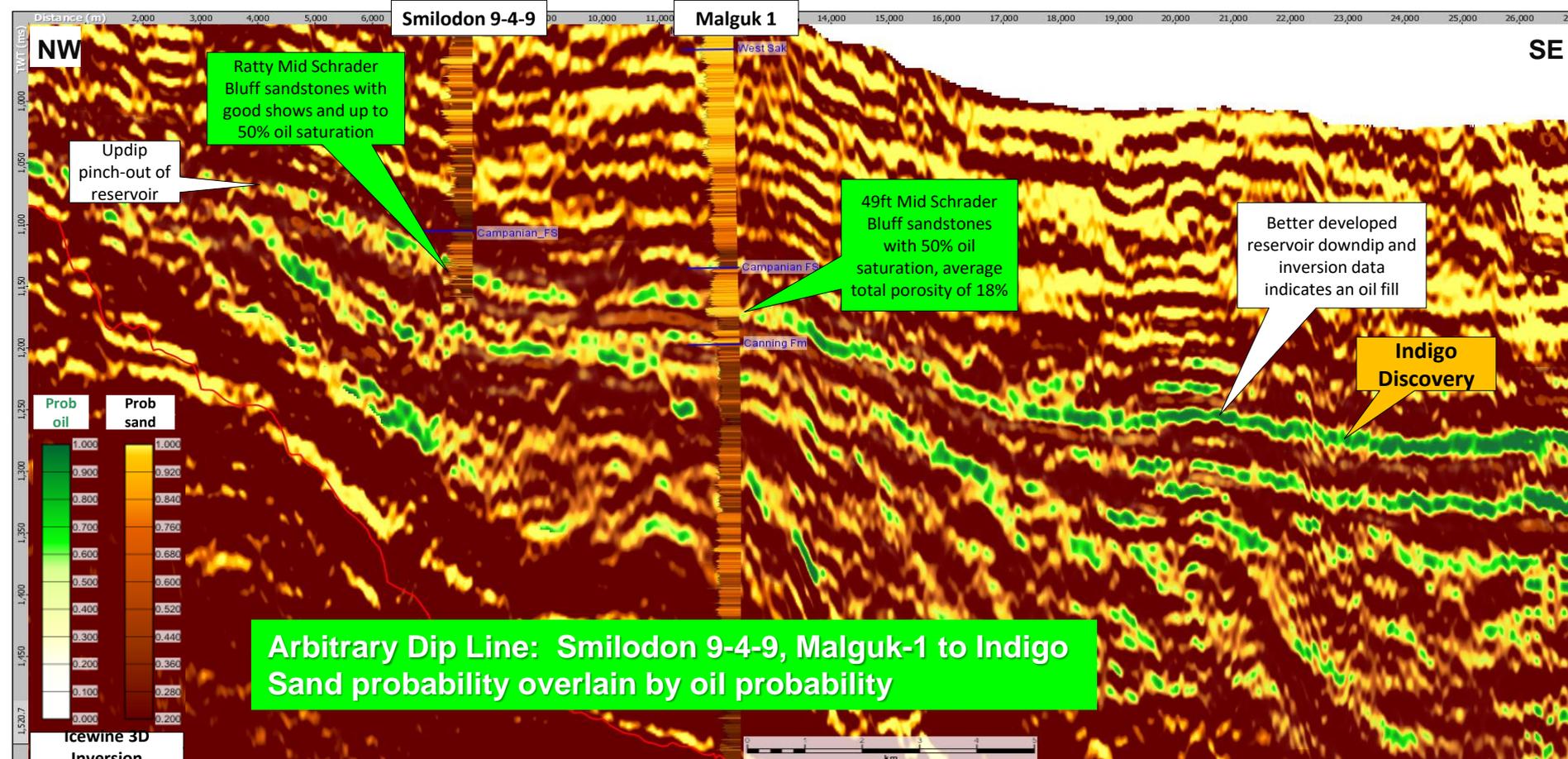
| Prospects and Leads | Horizon / Play    | Low | Best | High | Gross Mean | Net Mean to 88E |
|---------------------|-------------------|-----|------|------|------------|-----------------|
| Victor Prospect A   | Schrader / Topset | 144 | 230  | 350  | 241        | 187             |
| Victor Prospect B   | Schrader / Topset | 52  | 83   | 127  | 87         | 67              |
| Indigo Discovery    | Schrader / Topset | 225 | 358  | 543  | 374        | 112             |
| Charlie Prospect    | Schrader / Topset | 126 | 201  | 304  | 210        | 63              |

Charlie-1 to test gross mean prospective resource of 584 MMBO (175 MMBO net to 88E) in stacked Indigo and Charlie targets

# Western Play Fairway Mid Schrader Bluff Indigo Oil Discovery – Topset

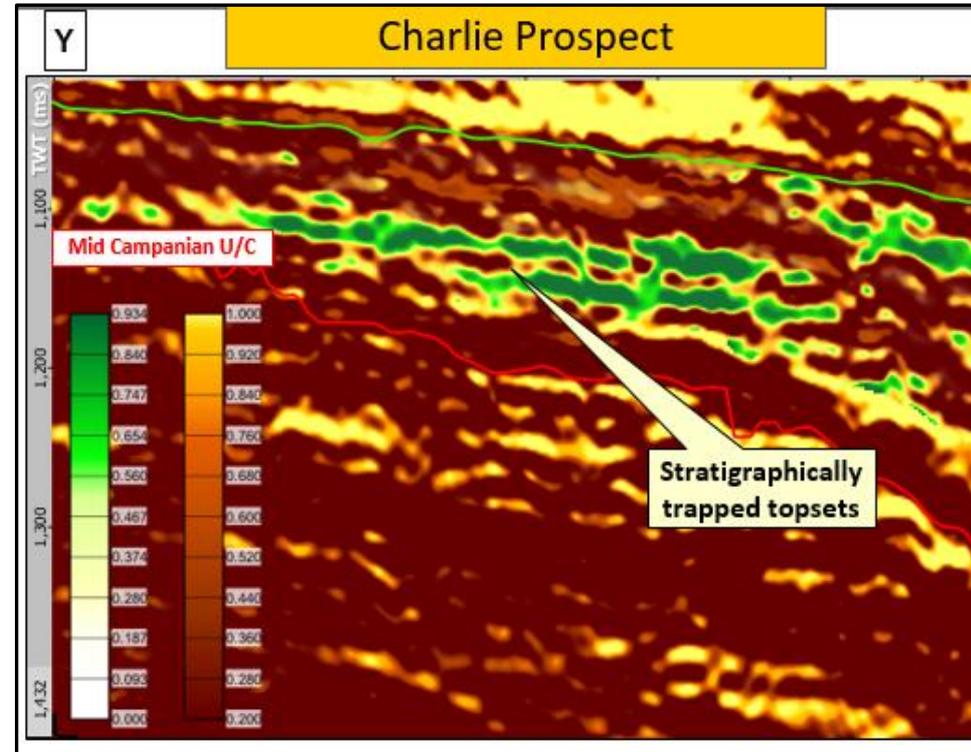
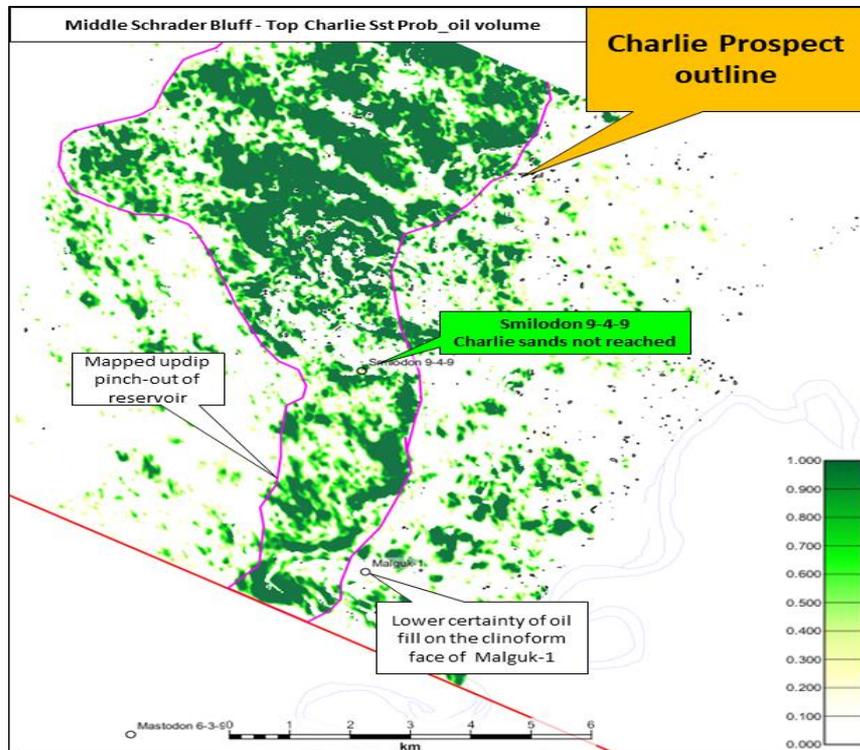


## Indigo Prospect



- Gross mean prospective resource 374 MMBO (112 MMBO net to 88E)
- The Mid Schrader Bluff sandstones at Malguk-1 are 49 feet thick with 50% oil saturation and average total porosity of 18%, based on revised independent petrophysical analysis
- Key risk related to water salinity used for petrophysics, which impacts oil saturation

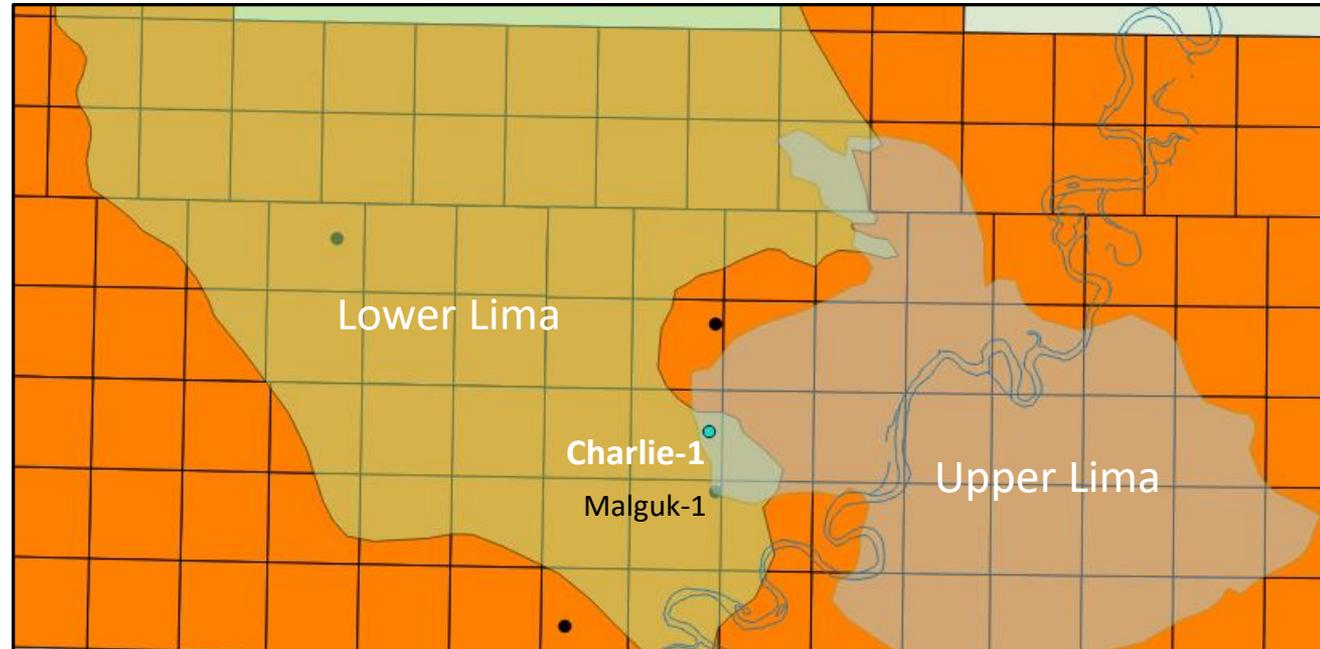
# Western Play Fairway Mid - Schrader Bluff Charlie Prospect - Untested Topset



- Gross mean prospective resource 210 MBO (63 MMBO net to 88E)
- Charlie prospect not intersected by historic wells
- 3D seismic inversion predicts good quality, oil filled sands
- Stratigraphic pinchout of the sandstones mapped on both seismic reflectivity and inversion data
- Key risks typical of exploration prospect: trap, oil saturation and reservoir quality

**Good Oil Saturation Interpreted in Seabee Formation on Icewine Acreage**  
**Successful Tarn Oil Field located on Trend to the North within the Seabee Fm**

- 220' sand interval encountered in Malguk-1 (Lower Lima) with up to 60% oil saturation
- Average porosity of 11%
- Lima targets considered secondary due to higher risk associated with reservoir quality



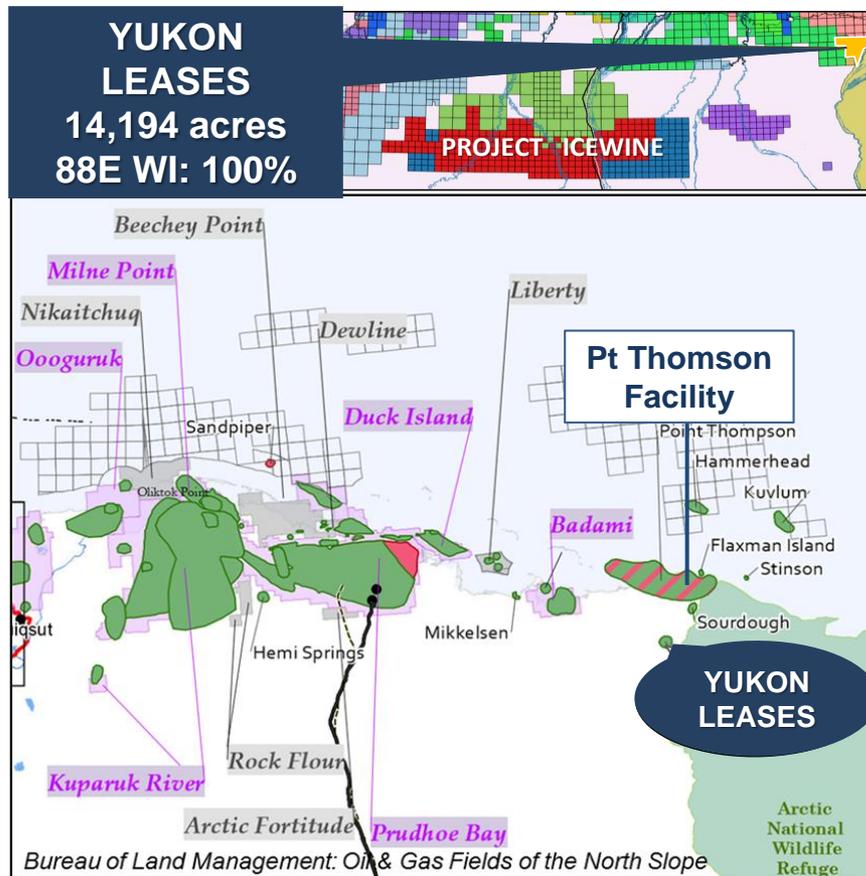
| Prospects and Leads  | Horizon / Play     | Low | Best | High | Gross Mean | Net Mean to 88E |
|----------------------|--------------------|-----|------|------|------------|-----------------|
| Bravo Prospect       | Seabee / Fan       | 57  | 138  | 292  | 160        | 48              |
| Mike Prospect        | Seabee / Fan       | 9   | 26   | 56   | 30         | 9               |
| Rose Prospect        | Seabee / Fan       | 7   | 21   | 44   | 24         | 7               |
| Lima Upper Prospect  | Seabee / Apron Fan | 23  | 66   | 144  | 77         | 23              |
| Lima Lower Discovery | Seabee / Apron Fan | 77  | 240  | 528  | 299        | 90              |

Charlie-1 to test gross mean prospective resource of 376 MMBO  
 (113 MMBO net to 88E) in stacked Lima targets

# Yukon Leases Highlights



- Existing vintage oil discovery on acreage - Yukon Gold-1 (1993/ 94)
- Oil saturations interpreted across two intervals in multiple sands within the Tertiary Canning Fm
- Good effective porosity interpreted >18%
- Mapped on modern 3D seismic (88E, 2018)
- Yukon leases located in close proximity to newly commissioned Pt Thomson infrastructure (2016)
- Yukon Gold/ Cascade - opportunity to appraise & tie-in to existing facility
- 90 MMBO prospective resource (mean unrisked) mapped on acreage net to 88E



| YUKON LEASES                          |                        |      |      |      |                 |
|---------------------------------------|------------------------|------|------|------|-----------------|
| Prospective Oil Resource (Unrisked)   |                        | MMBO |      |      |                 |
| Prospect & Leads                      | Formation/ Play        | Low  | Best | High | Net Mean to 88E |
| Cascade                               | Canning/ Fan           | 23.7 | 64   | 162  | 82.3            |
| PETM 1                                | Staines Tongue/ Topset | 3.3  | 5.7  | 9.9  | 6.2             |
| PETM2                                 | Staines Tongue/ Topset | 0.2  | 0.8  | 2.3  | 1.1             |
| <b>TOTAL PROSPECTIVE OIL RESOURCE</b> |                        |      |      |      | <b>89.6</b>     |

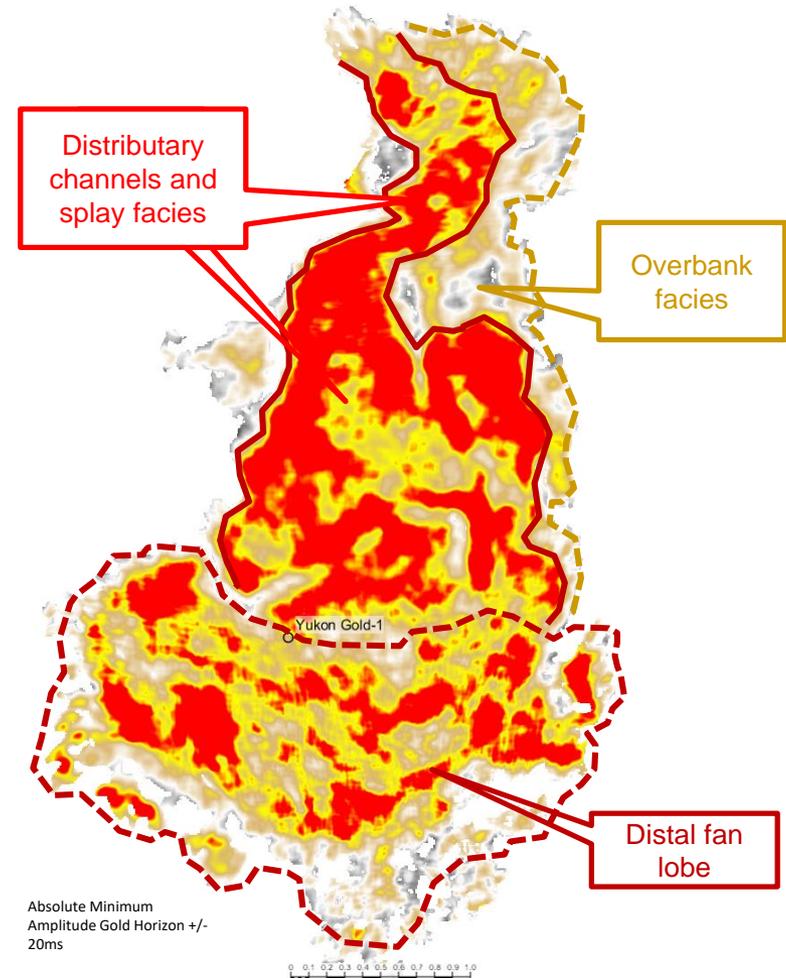
Prospective Resources classified in accordance with SPE-PRMS as at 7<sup>th</sup> November 2018 using probabilistic and deterministic methods on an unrisked basis. Prospects and Leads identified from interpretation of modern 3D seismic acquired in 2018 across the Yukon Leases, which comprises 14,194 gross acres on the Central North Slope of Alaska. 88 Energy is Operator of record at the Yukon Leases (through its wholly owned subsidiary Regenerate Alaska, Inc) with a 100% working interest.

# Yukon Leases 3D Mapping Cascade Prospect Canning Fan Play



## Final results from modern 3D processing (2018)

- **Cascade:** channelised fan feature mapped updip of Yukon Gold-1, historic oil discovery
- Yukon Gold-1 located in interpreted distal fan lobe facies
- Excellent reservoir quality anticipated within distributary channels updip and associated proximal facies
- Provisionally mapping validated by inversion product => lead upgraded to prospect
- 86 MMBO gross mean prospective resource (88E 100%)
  - 300ft gross section identified, current net to gross conservative at 30% => significant upside potential
- Potential appraisal drilling candidate
- Permitting underway ahead of drilling in 2021 – subject to farm-out



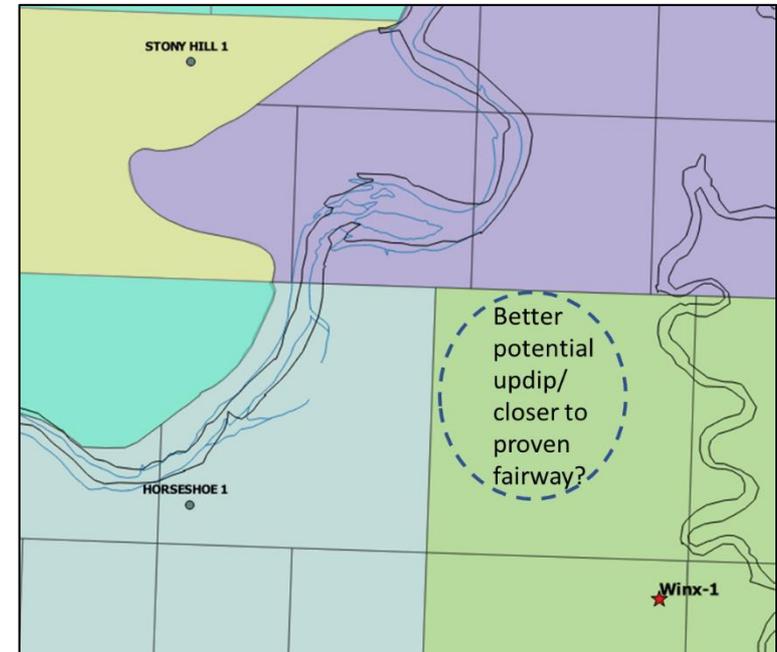
## Winx-1 Drilling Results

- Topset sequences intersected as expected in primary target Nanushuk Fm
- Moderate quality oil and gas shows observed throughout the Nanushuk Fm
- In addition to LWD data a wireline logging program was acquired, including FMI, RT-scanner, CMR, MDT and VSP to fully evaluate the prospectivity at Winx
- Resistivity readings were elevated; however, oil saturations, free fluid, and reservoir quality were not optimal
- Excellent operational performance, final cost within original \$15m dry hole budget

## Forward Plan

- Plan to reprocess / reinterpret legacy 3D seismic and assess whether there is further prospectivity on the acreage – modest budget, ~US200k gross (~\$70k net to 88E)
- Lease expiry May 2021

## Area of focus for post Winx-1 evaluation

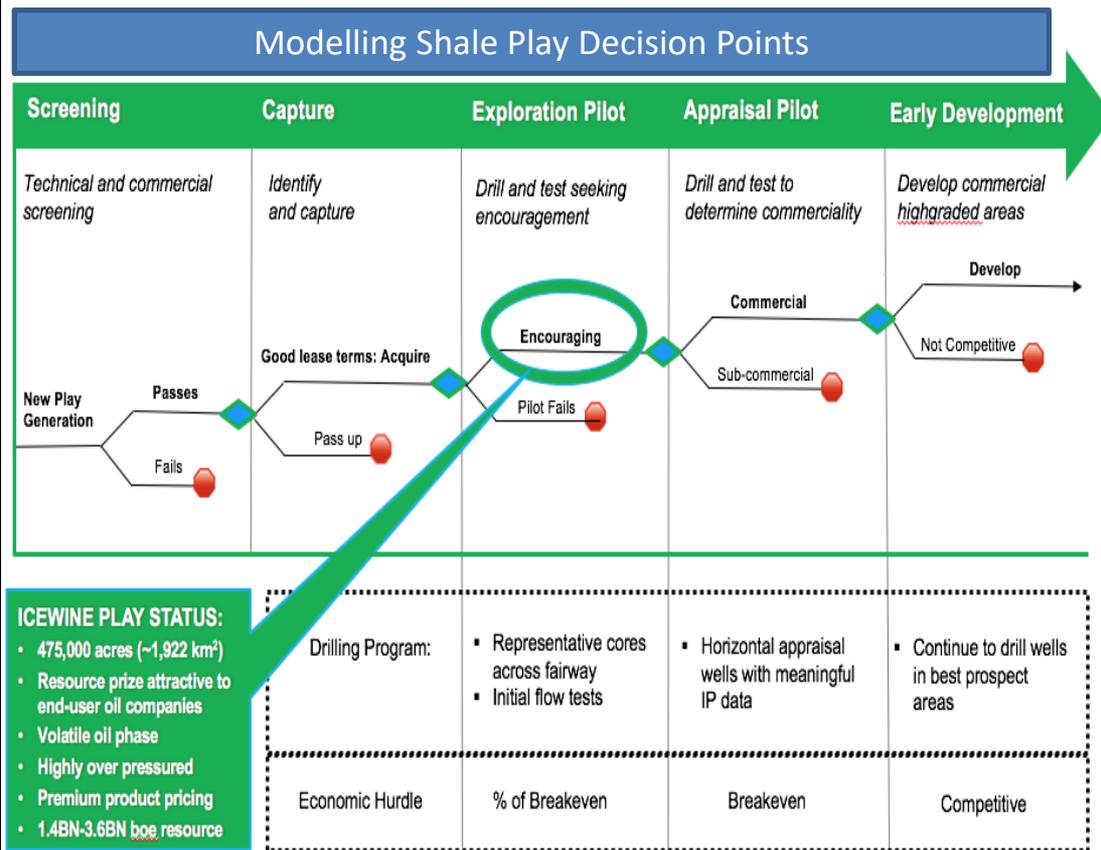


# Icewine HRZ Shale Play: Encouraging Results to Date



- Project Icewine captured the HRZ sweet spot in over-pressured, low-viscosity super-critical phase oil
- Data supports move to horizontal appraisal drilling and further fairway delineation
- Insights into kerogen transformation gained from advanced electron microscope analysis (FIB-SEM)
  - Additional FIB-SEM planned on regional well cuttings to firm up prospective fairway
- Charlie-1 well, 1Q2020, designed to penetrate HRZ and gather additional data

|   |   |
|---|---|
| <b>Key Technical Take-Away</b>            | <ul style="list-style-type: none"> <li>Thermal Maturity (Ro) ⇒ 1.0-1.3</li> <li>Kerogen Type ⇒ Type II</li> <li>Permeability (md) ⇒ 0.742</li> <li>Effective Porosity (%) ⇒ ~11</li> <li>TOC (%) ⇒ 3.5</li> <li>Pore Pressure (psi/ft.) ⇒ 0.82</li> <li>Anisotropy ⇒ Low</li> </ul>   |
| <b>Qualitative Take-Away</b>              | <ul style="list-style-type: none"> <li>Play generated by ex-ConocoPhillips exploration manager who spearheaded COP's sweet-spot Eagle Ford acquisition</li> <li>HRZ fracted effectively in a vertical – now requires horizontal test</li> <li>HRZ contains necessary ingredients for commercial shale play - additional data required to delineate and advance</li> </ul> |
| <b>Indicative Go-Forward Work Program</b> | <ul style="list-style-type: none"> <li>Take side wall cores coincident with conventional drilling locations (Charlie-1)</li> <li>Additional FIB-SEM analysis on cuttings from regional wells</li> </ul>   |



# North Slope Projects Summary



## Project Icewine: Conventional

- Multiple stacked prospects identified on 2018 3D seismic: 1,009 MMBO net to 88E
- Farm-out executed: Charlie-1 appraisal well to be drilled in 1Q2020 testing 7 stacked objectives totalling 1.6 BBO\* (480 MMBO net to 88E)

## Yukon Leases: Yukon Gold Existing Oil Field Discovery

- Low cost acquisition of existing oil discovery, close to infrastructure – assessment based on recently acquired 3D seismic highly encouraging

## Project Icewine: Unconventional - HRZ

- De-risked by two wells with results to date encouraging and consistent with early stage results from other successful plays
- Additional analysis progressing – to be complemented by results from Charlie-1
- Farm-out process planned to fund further appraisal

## Western Blocks

- Winx-1 exploration well non-commercial
- Assessment of remaining potential on leases underway

\*gross mean prospective resource

## **Mr David Wall – Managing Director**

4 years experience in strategy and planning at Woodside Petroleum. 6 years experience in financial services industry as small cap oil and gas equities analyst, specialising in exploration companies.

*B. Comm in Management and Finance from University of Western Australia.*

## **Mr Michael Evans – Non-Executive Chairman**

Extensive executive and Board level experience with publicly listed companies in the natural resources sector spanning over 30 years.

Founding Executive Chairman of ASX oil and gas explorer FAR Limited and was responsible for FAR's entire West African portfolio where significant oil discoveries were made in 2014.

*B Bus Curtin University, Chartered Accountant, Chartered Secretary, Governance Institute Australia*

## **Dr Stephen Staley – Non-Executive Director**

34 years of energy management and technical experience including with Conoco and BP. Dr Staley was founding Managing Director of upstream AIM start-ups Fastnet Oil & Gas plc and Independent Resources plc and a Non-executive Director of Cove Energy plc. *BSc (Hons.) in Geophysics from Edinburgh University, PhD in Petroleum Geology from Sheffield University and MBA from Warwick University.*

## **Erik Opstad – General Manager Alaska Operations**

37 years of energy project management and technical experience including with BP in Alaska, conducting both offshore and onshore operations. Mr. Opstad joined the 88 Energy team from Savant Alaska where, as a principal in the company, he served as Drilling & Wells Manager and General Manager driving geoscience and engineering redevelopment activities at the Badami oilfield on the North Slope of Alaska. *Erik holds a BSc and MSc in Geology from the University of Iowa.*

## **Mr Ashley Gilbert – Chief Financial Officer**

Over 20 years experience in commerce and public practice. Prior roles include CFO of Neptune Marine Services and Nido Petroleum, as well as positions within Woodside Petroleum and GlaxoSmithKline plc. in London. *B.Comm Curtin University, Chartered Accountant, Governance Institute Australia, Institute of Company Directors GAICD*

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Investor Services Pty Ltd

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**AIM: Computershare**

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