## **PROJECT ICEWINE** NORTH SLOPE OF ALASKA



## PROJECT ICEWINE FEBRUARY 2018 OPERATIONS UPDATE

Doyon Arctic Fox DOYON DRILLING, INC.

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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 presentation are based on, and fairly represent, information and supporting documentation prepared by, or under the supervision of, Mr Brent Villemarette, who is a Non Executive Director of the Company. It has been produced for the Company, and at its request, for adoption by the Directors. Mr Villemarette has more than 35 years experience in the petroleum industry and is a qualified Reservoir Engineer 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. He has consented to the inclusion of the petroleum prospective resource estimates prepared by DeGolyer & MacNaughton (as of 31 December 2015) and supporting information being included in this announcement in the form and context in which they are presented. His academic qualifications and industry memberships appear on the Company's website and both comply with the criteria for "Competence" under clauses 18-21 of the Valmin Code 2005. 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 Activity 2017 **ENERGY Recent Discoveries** Armstrong/ Repsol Pikka Unit 2015<sup>^4</sup> ALASKA Project Discovery 1.4BN barrels (2C) Icewine Prudhoe Bay^3 ConocoPhillips: Willow 2017 15 BN barrels Fairbank CANADA TRANS-ALASKA Discovery >300M barrels rec PIPELINE SYSTEM **OSH.ASX November 2017** Tarn / Meltwater US\$850m transaction Punp Station 140M barrels<sup>^1</sup> **PROJECT ICEWINE Prospective Resources HRZ Shale Play: YUKON GOLD** 1.4<sup>1</sup> - 3.6<sup>2</sup> BN boe\* **Discovered oil resource Conventional:** 88E 100% 1.05<sup>2</sup> BN barrels\*\* Internal assessment underway Armstrong Energy Horseshoe#1: **Discovery March 2017 ICEWINE #2 88E** PROJECTICEWINE **Production Test Ongoing** Regional Wells **Dalton Highway** 40 km Trans Alaska Pipeline (TAPS) Pump Stations no Station 2 Gross mean prospective recoverable resource, refer ASX/AIM announcement 6/04/16 (271.000 acres) 88E - 266,943 net acres WI: 77.9% (14,693 net acres subject to formal award) \*\* Net mean prospective recoverable resource, refer slide 16 88E - 34,339 net acres WI: 25.9% ^1 Independent Est., ^2 Internal Est., ^3 Source USGS 2005, ^4 Armstrong 2016 88E - 15,520 net acres WI: 100% (subject to formal award)

# 88 ENERGY

88 Energy Limited (ASX, AIM: 88E)	Current
Shares on Issue	4,661m
Options on Issue	756m
Market Capitalisation (A\$0.03)	A\$140m
Cash (31 Dec 17 unaudited)	A\$14.0m / US\$11.0m
Board and Top 20	58%
Project Icewine Operator, Working Interest	~63%
Yukon Gold Operator, Working Interest	100%

**Corporate Snapshot** 

#### 88E Board and Management

David Wall	Managing Director
Michael Evans	Non-Exec Chairman
Brent Villemarette	Non-Executive Director
Dr Stephen Staley	Non-Executive Director
Ashley Gilbert	Chief Financial Officer
Erik Opstad	General Manager, Alaska Operations
Elizabeth Pattillo	General Manager, Exploration

## Burgundy Xploration JV Partner



Paul M. Basinski, Founder & CEO

Michael R. McFarlane, President

**Closely Held Texas LLC** 

Special Purpose Vehicle for Project Icewine

Project Icewine Working Interest ~37%

### Activity Planned

- Icewine#2 ongoing production test – April / May 2018
- 3D seismic to delineate conventional drilling candidates ~February 2018
- Assess
  prospectivity at
  Yukon Gold



#### 'Planned' are forward looking and subject to change

## Project Icewine HIGHLIGHTS



### Large, Strategic Acreage Position – Vast Majority of HRZ Play now Captured

- Joint Venture controls 475,000 gross acres (~301,000 acres net to 88E, Operator\*)
- Strategically located on infrastructure all year access road / pipeline

### Primary Target: HRZ Liquids Rich Resource Play – 1.0-2.6 billion barrels liquids\*\*

- Phase I: De-risked by core/log analysis from Icewine#1 (2015/2016)
- Phase II: Stimulated successfully in Icewine#2 with flow-back clean up ongoing
- Preliminary results encouraging, but not definitive, with only 20% frac fluid recovered
- April/ May 2018: Finalise flow testing with optimised completion and artificial lift

### Large Conventional Leads Identified – 1.05 billion barrels<sup>#</sup>

- 2,350 line kilometers of modern/vintage 2D seismic interpretation complete
- Multiple leads now mapped, coincident with reservoir and oil shows in regional wells
- ~ 500km<sup>2</sup> 3D seismic contracted for February 2018 to delineate optimal drilling locations
- Up to 9 conventional wells planned by other operators in 1H2018

### Future Expenditure Post Icewine#2 / 3D Seismic to be Funded via Farm-out

- Significant value added to assets plus improving oil price -> time is right to deal
- \* Operator on 342,000 gross acres, JV Partner operates the remaining 133,000 gross acres
- \*\* Gross Mean Prospective Recoverable Resource based on 271,000 gross acres, #Net Mean Prospective Recoverable Resource

- Drilling / stimulation completed on time and to date remains under budget
  - Two stage, multi-perforation cluster stimulation over 128' interval
- Slickwater treatment comprising 27,837 barrels of water and 1 million pounds of proppant
- June 19 July 10: Initial clean up and then shut in to allow for pressure build-up and 'soak'
- August 31: Clean up recommenced with first hydrocarbon to surface recorded on September 9
- September 18: Shut-in for Arctic Winter after average flow of 1.85mcf/d gas, with increasing ratio of heavy components, during test period
  - 20% of frac fluid recovered vs projected minimum target of 30% to achieve connectivity to reservoir
  - Results not considered representative of potential flow rate or compositional profile of hydrocarbons in the reservoir
- Forward plan to optimise and re-initiate flow testing using artificial lift in April/May 2018 - estimated cost US\$2m (US\$1.5m net)

## HRZ Unconventional: Phase II Icewine#2 Workover Schematic





Nitrogen  $(N_2)$  injected to lighten fluid column inside wellbore and reduce downhole pressure to improve production from reservoir.

 $N_2$  initially injected through coiled tubing (CT) with production through annulus. Planned for first 24 to 48 hours to rapidly lift fluid inside wellbore and drain fractures near wellbore.

 $N_2$  injected through annulus with production through CT. Production through smaller diameter CT allows for increased flow rate with less  $N_2$ .

## HRZ Unconventional Where We Started.....



Investment Thesis: First Mover Edge	The Project Icewine Joint Venture (PIJV) is advantaged by a proven exploration "toolbox" that allowed it to capture a strategic, technically-driven, first-mover, low-cost play entry into an extensive, world-class liquids rich unconventional resource, located on existing infrastructure under U.S. jurisdiction with production indexed to Brent crude oil pricing
Answering Industry Demand	PIJV's asset in contiguous sweet spot acreage meets industry demand to replace reserves with well-inventory and lease term running room, enabling operators to engineer the solution for continued scalable success

#### "Toolbox": Past Performance Eagle Ford: Industry-Leading Performance



PIJV team member led COP team that captured Eagle Ford early mover acreage spending  ${\rm \sim}\$300/acre$  on  ${\rm \sim}320,000$  acres  ${\rm (AAPG,\ 2014)}$ 

### PIJV's Contrarian View – <u>advocatus diaboli</u>

#### Key Icewine Technical Parameters:

Parameter	Perception	Reality
Hydrocarbon Phase	Gas – too mature	Low viscosity, liquids rich
Completion Quality	Too soft to frac	Fraccable
Reservoir Pressure	Normally pressured	Highly over-pressured

- Icewine received minimal attention from Lower 48 focused unconventional industry
- Similar case to early-stage Eagle Ford shale, limited core and well data from target HRZ shale available to apply analogue methodology



### Icewine #1 & #2 and Regional Well Data: All the Elements For Resource Success

Reservoir Quality		Completion Quality	
Parameter	Comment	Parameter	Comment
Organic Content	Rich and sufficient for world- class resource	Clay Content	Consistent with other economic plays, but need additional data points
Thermal Maturity	Numerous lines of evidence point toward low-viscosity, super-critical phase oil	Mechanical Properties: Young's modulus, Poisson's ratio	HRZ fracced effectively, but require a distribution of wells & 3D seismic to fine-tune
Hydrocarbon Pore Volume	Stacked, deep-water, 'hybrid' reservoir that appears to be both commercially and geologically viable	Stress Profile	Highly over-pressured (direct correlation to commerciality) with low regional anisotropy

Data acquired supports that the PIJV has secured the HRZ sweet spot acreage as defined by the parameters where the most oil-rich vapor phase occurs at highest reservoir pressure i.e. the most profitable part.\* Commerciality risking underway by the PIJV utilizing probabilistic methodology commonly used in unconventional resource exploration. Results to date are considered compelling and warrant further additional drilling & evaluation, which it plans to fund via farm-out.

\*Cander, 2013

#### Bottom Line: Icewine has the ingredients to make a commercial shale play / execute a farm-out 10



### Icewine#2: Results to Date

- Proved a large slickwater frac using sand as proppant is achievable in the HRZ first in Alaskan exploration history
- Proved initiating a fracture perpendicular to the bedding plane is achievable in the HUE from the DFIT test as imaged by the FMI log. The fracture orientation in the HRZ is expected to mirror that of the HUE
- ✓ Proved the HRZ contains an elevated pore pressure of 0.82 psi/ft
- ✓ Proved the ash beds within the HRZ are not frac barriers and can be effectively fracced
- Proved the HRZ is easy to initiate a frac in low fracture initiation pressure relative to many other shales
- ✓ Fracture vertical height containment achieved

### Icewine#2: Factors to be Resolved:

- Need to access formation by removing additional 20% to 30% of loadwater from IW2
- Need to understand wettability of rock and its relationship to IW2 stimulation chemicals
- Resolve petrophysical interpretation issues caused by high pyrite levels
- Need 3D to incorporate IW results into regional context / locate "sweetest" spots
- Need to further delineate variability of resource within fairway

### Bottom Line: Icewine has the ingredients to make a commercial shale play / execute a farm-out 11

## **HRZ Unconventional** Where We Are Going.....





- By definition this is the mean of a larger population of wellbores
- Low well count and lack of direct analog creates uncertainty in type well profile for HRZ
- The HRZ needs a continued pilot program to derive statistically meaningful data
- Additional wells are required to delineate the distribution of the P10/ P90 ratio of the HRZ resource
- The resource prize and current data provides confidence a farm-out can be achieved to further fund the program



### (Heckman et al 2013)

## Unconventional Resource Plays: Modelling Decision Behavior



### Icewine HRZ Shale Play:

Encouraging results - attractive to a farminee to progress and create world-class commercial resource



## Project Icewine Conventional Prospectivity Portfolio





- Conventional Prospective Resource Potential (mean unrisked) :
  - 1.96 BN barrels gross; 1.05 BN net to 88E\*
- Multiple stacked leads predominantly stratigraphic, slope apron, turbidites & basin floor fan systems
- 1,600 line km vintage 2D reprocessed / interpreted: new potential identified in Torok e.g. Stellar
- Plan to acquire ~500 km2 3D seismic to firm up drilling candidates (net cost ~US\$6-8m)
- Exceptional exploration drilling success over last 4 years using 3D seismic on the North Slope
- US\$850m transaction on nearby conventional discoveries highlights increased regional interest
- \* Refer slide 16 for full resource table and disclaimer

## **Project Icewine: 2D Seismic Reprocessing Highlights Deeper Potential**





- Additional play potential identified on reprocessed 2D seismic and regional well petrophysics
  - Stacked Torok and Seabee Fm basin floor fan sands associated with lowstand events
  - Analogous play type to Meltwater/Tarn Field depositional system
  - Moveable hydrocarbons interpreted in both Malguk-1 and Heavenly-1
  - Good porosity interval intersected within the Torok Fm sands at Malguk averaging 17%
  - Multiple objectives could be tested by an exploratory well in the Western Play Fairway

## Project Icewine: Conventional Portfolio Prospective Unrisked Recoverable Resources

PROJECT ICEWINE CONVENTIONAL PORTFOLIO					
Prospective Recoverable Resources MMBO					
	NOVEMBER 2017: Post Mapping & Interpretation of Reprocessed 2D				
Leads	Unrisked		-		
					Net Mean
Q4 2017 REVIEW	Low	Best	High	Gross Mean	to 88E
WESTERN PLAY FAIR	WAY				
Bravo	129	215	357	232	180
Lima	281	457	731	488	190
Stellar	64	150	353	187	136
Mike	90	166	293	182	54
Rose	98	171	287	185	103
Victor	20	31	47	33	25
Charlie West	15	25	42	27	21
Oscar	15	27	47	29	23
Papa	8	14	25	15	12
Charlie 4 Way	9	15	24	16	12
CENTRAL PLAY FAIR	WAY				
Echo	60	138	293	162	121
Golf	106	193	339	211	72
EASTERN PLAY FAIRWAY					
Alpha	19	71	263	118	91
Romeo	2	3	5	4	3
Sierra	1	2	3	2	2
FINAL TOTAL				1,891	1,045

 Bravo & Alpha Leads prominent on modern 2D seismic

**ENERGY** 

- Additional potential identified on legacy 2D – recently reprocessed and interpreted
- Stacked leads offer opportunity to test multiple objectives with one well
- 3D seismic acquisition scheduled to commence in February 2018

Prospective Resources classified in accordance with SPE-PRMS as at 24<sup>th</sup> November 2017 using probabilistic and deterministic methods on an unrisked basis. Leads identified from interpretation of modern 2D seismic acquired in 2015/2016 and legacy 2D seismic of varying vintages post 1980 across Project lcewine, which comprises 475,000<sup>\*\*</sup> gross acres on the Central North Slope of Alaska. 88 Energy is Operator of record at Project lcewine (through its wholly owned subsidiary Accumulate Energy Alaska, Inc) with a ~63% working interest over the conventional play fairway where the 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.

\*\* 301,000 acres net to 88 Energy working interest

## **Project Icewine: Stellar Lead Upper Torok Formation Submarine Fan**



Stellar:	187 MMBO Gross Mean
Trap:	Structural/Stratigraphic
Reservoir:	Submarine fan sandstones
	Porosity: 17%; Net to Gross: 35%
Top Seal:	Slope/basinal fines / U Torok condensed sequence
Base Seal:	Slope/basinal fines
Shows:	Heavenly-1: movable oil in porous sst @ 9230'MD
	Malguk-1 extensive hydrocarbon shows
	AVO supported
Charge:	HRZ / Hue Shales
Risks:	Updip seal, lateral extent of good reservoir quality

STELLAR: Prospective Recoverable Resources MMBO - Unrisked					
Net Mean					
Low	Best	High	Gross Mean	to 88E	
64	150	353	187	136	





## **Project Icewine: Bravo Lead Seabee Formation Submarine Fan**





## Project Icewine: Bravo - AVO Support Porous Sand and Possible Hydrocarbons





#### **Icewine 2D Gathers**



## **Project Icewine: Lima Lead Seabee Formation Submarine Fan**



	N N N N N N N N N N N N N N N N N N N
Lima:	488 MMBO Gross Mean
Trap:	Structural/ stratigraphic on structural nose
Reservoir:	Submarine fan sandstones
	• Avg Porosity 15%; Net to Gross 30%
Top Seal:	Slope basinal fines – condensed sequence
Base Seal:	Slope basinal fines
Shows:	Malguk#1 8525 – 8900';
	Heavenly 8063 – 8112'
	AVO support
Charge:	HRZ / Hue Shales
Analog:	Tarn/ Meltwater fields
Risks:	Updip seal, reservoir quality

LIMA: Prospective Recoverable Resources MMBO - Unrisked					
Net Mean					
Low	Best	High	Gross Mean	to 88E	
281	457	731	488	190	







### **Project Icewine: Lima Sands ENERGY Comparison of Amplitude of Different Spectra**

The Lima equivalent sands at Heavenly appear sub resolution with conventional processing on vintage and Icewine 2D seismic data



Heavenly-1

### Malguk-1



True Full Stack AGC spectrally corrected for 40 - 60Hz to resolve sand body

Recovery of this spectrum on the 2018 Icewine 3D seismic data will improve mappability of prospective sands 21

## Project Icewine: Echo Lead Canning Formation Base of Slope Fan





## Yukon Gold: New Acquisition HIGHLIGHTS



### Recent Acquisition of Existing Oil Discovery (subject to formal award in 2018)

- Opportunistic (post 2017 lease expiry), low cost bid in improving oil price environment
- 88E 100% ownership of ~15,520 acres through subsidiary Regenerate Alaska, Inc
- Located in close proximity to newly commissioned (2016) infrastructure

### **Multiple Oil Bearing Sands in Historic Well**

- Yukon Gold #1 well drilled by BP 1993/ 1994 to a Total Depth of 12,800' MD
- Oil saturations indicated at multiple intervals in the Tertiary Canning Formation between 8,880' 9,340' and 12,200'- 12,350'
- Good effective porosity indicated in both intervals >18%
- Oil saturations supported by mudlog shows, C1-C5 mudgas ratios and sidewall cores
- Topset delta and bottomset turbiditic Brookian conventional plays proven locally (e.g. Badami)
- State of Alaska reported Yukon Gold as a significant undeveloped oil resource

### **Forward Strategy**

- Work up prospectivity with minimal spend and then seek to partner
- Internal assessment underway utilizing existing regional well logs and 2D seismic (1989)
- Project Icewine HRZ and conventional targets remain principal exploration objectives

## Yukon Gold: Background



- Yukon Gold #1 located on the eastern margin of the North Slope of Alaska, ~50 miles East of Prudhoe Bay
- 120 MMbbls of recoverable oil reserves estimated (AEDC, 2015\*)
- Volumetric review / commercialisation strategy underway – minimal spend required in near term
- Plan to partner for any major capital outlay
- Recently commissioned infrastructure (2016) and improving oil price increases chance of securing deal if technical merit can be demonstrated

YUKON GOLD LEASES 15,520 acres 88E: 100% Beechey Point PROJECT ICEWINE Milne Point Liberty Nikaitchug Dewline Oooguruk Duck Island Sandpiper Point Thompson Hammerhead Kuvlum Badami Flaxman Island Stinson Sourdough Mikkelsen Hemi Springs YUKON GOLD Rock Flour Kuparuk River Arctic Arctic Fortitude Prudhoe Bay National Wildlife Bureau of Land Management: Oil & Gas Fields of the North Slope Refuge

\* Anchorage Economic Development Corporation

## North Slope Alaska: Strong Industry Interest Reflected by High Activity





### **Project Icewine: Unconventional - HRZ**

- Flow-back clean up phase ongoing with only ~20% of frac fluid recovered vs target of >30% - recommence April/May 2018 with artificial lift
- Results to date encouraging and consistent with early stage results from other successful plays

### **Project Icewine: Conventional**

- Final interpretation of 2D seismic highly encouraging
- Acquire 500km<sup>2</sup> of 3D seismic in Feb '18 to firm up drilling candidates for 1H2019 -> launch farm-out process

### Yukon Gold: Existing Oil Field Discovery

 Opportunistic, low cost acquisition of existing oil discovery, close to recently commissioned infrastructure – internal assessment underway

### **Strong Financial Position**

- US\$11m in cash (not including US\$6.9m 1Q 2018 in the money options), compared to planned work program of US\$7-US\$9m
- US\$21m in forecast cash receivable from State vs debt of US\$16.5m

## **Board and Key Management**



#### 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

#### 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 driving geoscience Manager and General 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.

#### 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.

#### Mr Brent Villemarette – Non-Executive Director

Over 35 years experience in the global oil and gas industry, primarily with Apache Corporation in the US and in Australia. Also served as Chief Operating Officer for Transerv Energy, an ASX listed oil and gas company. BSc in Petroleum Engineering from Louisiana State University. Reservoir Engineer.

#### Ms Elizabeth Pattillo – General Manager Exploration

Over 20 years experience in the upstream petroleum industry both with major international oil and gas companies, (BHP Petroleum Pty Ltd, Shell UK Exploration & Production), and junior explorers. BSc (Hons) in Geology, Monash University Australia; Post Graduate Diploma in Education University of Western Australia

#### 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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