

100% working interest in two giant oil and gas fields on Alaska's North Slope, containing Recoverable 2C Contingent Resources of 1.7 billion barrels adjacent to both the Trans Alaska Pipeline System and the Dalton Highway leading to lower infrastructure costs and shorter lead times to production.

2 Disclaimer



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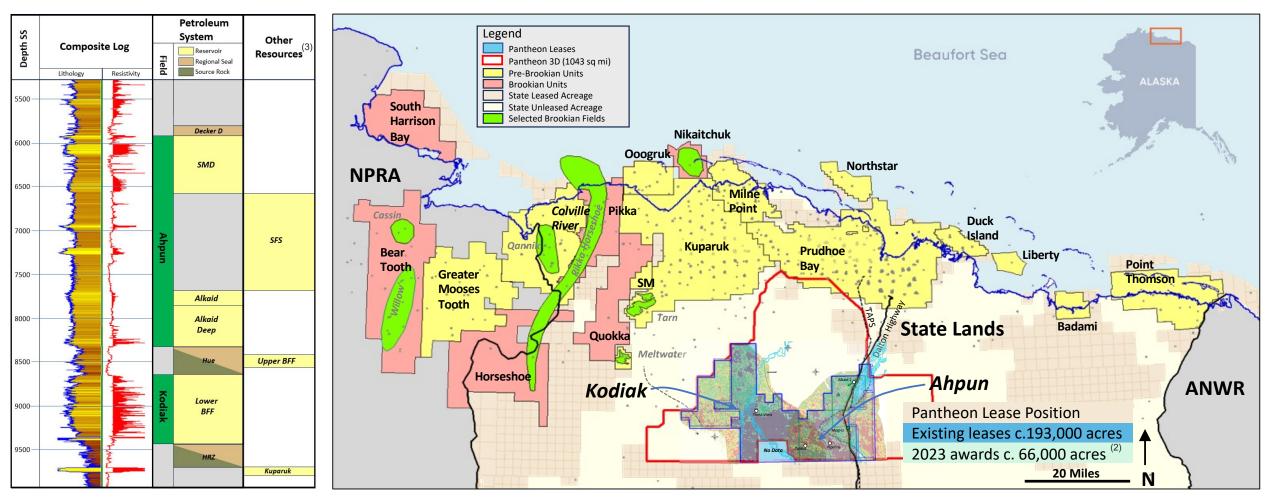
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•Competent Person's statement: David Hobbs has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person in accordance with the guidance note for Mining, Oil & Gas Companies issued by the London Stock Exchange in respect of AIM Companies, which outlines standards of disclosure for mineral projects. David Hobbs consents to the inclusion in this Presentation of the matters based on his information in the form and context in which it appears.

Pantheon's North Slope Fields: 2C Recoverable 1.7 Bbbls ⁽¹⁾ Plus Ahpun (Eastern Topset): >600 million bbls Prospective Recoverable Resource

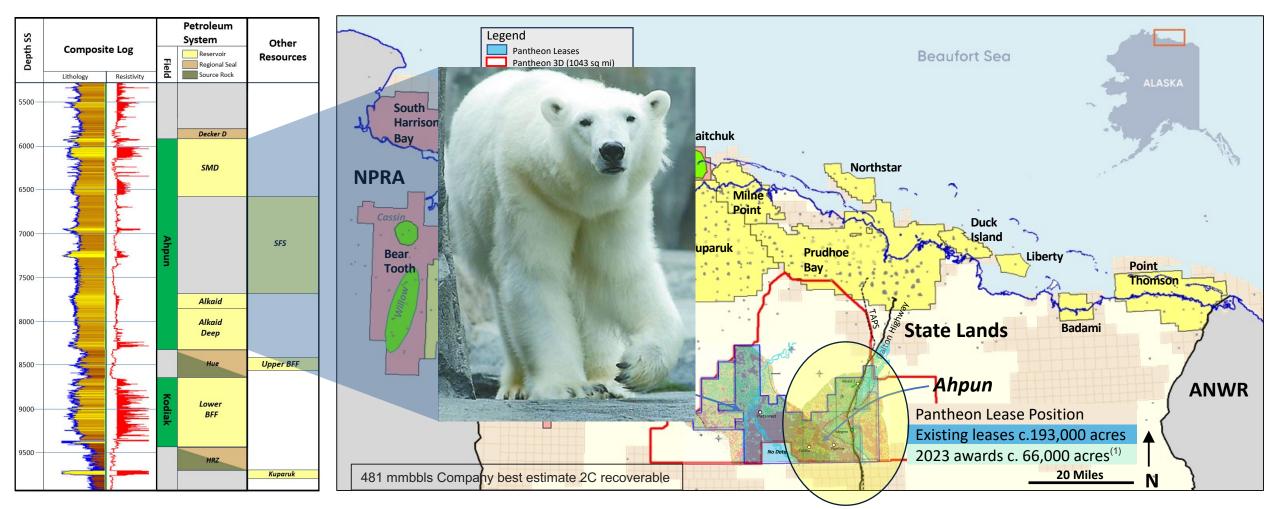


¹ NSAI 2024 best estimate for Kodiak c. 1.2 Bbbls, Company estimates for Ahpun c. 480 mmbbls

² Pantheon was the successful bidder for these leases. The Company paid an initial 20% deposit to the State of Alaska with the remainder payable on official award of the new leases which is anticipated this quarter

³ Upper and Lower Slope Fans, Upper Basin Floor Fan and Kuparuk contain a combination of Contingent and Prospective Resources that have not yet been evaluated

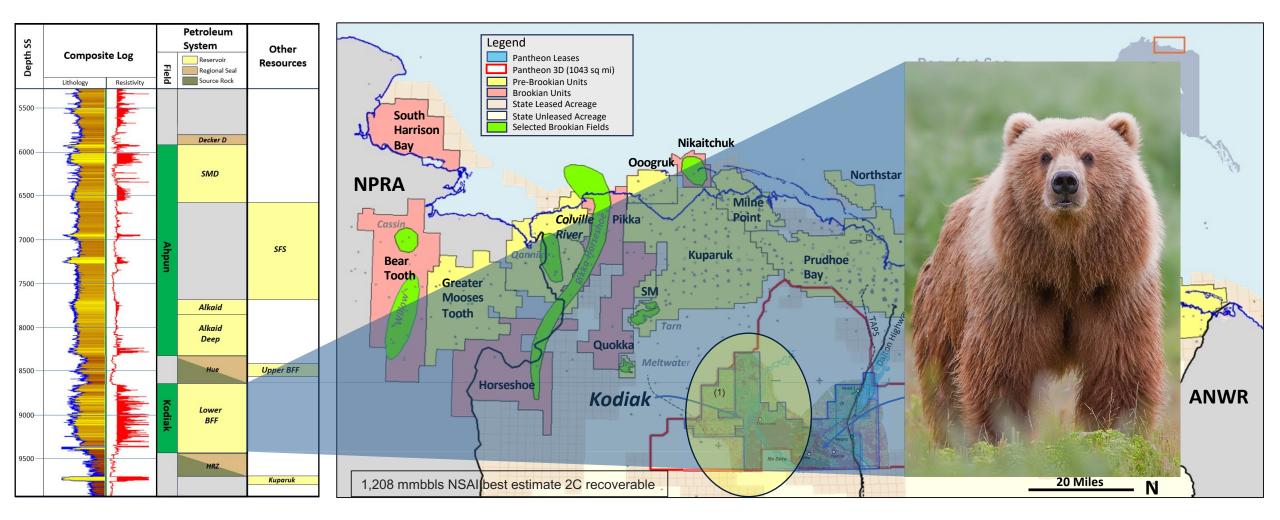
Pantheon's North Slope Field Development Assets Ahpun – 481 million barrels of marketable liquids



Ahpun field is defined as being all horizons above the Hue shale and below the Decker D, excluding slope fans

¹ Pantheon was the successful bidder for these leases. The Company paid an initial 20% deposit to the State of Alaska with the remainder payable on official award of the new leases which is anticipated this quarter

Pantheon's North Slope Field Development Assets Kodiak – 1,208 million barrels of marketable liquids (NSAI estimate)



Kodiak field is defined as being all horizons above the HRZ and below the Hue shale

¹ Pantheon was the successful bidder on c. 66,000 acres of new leases. The Company paid an initial 20% deposit to the State of Alaska with the remainder payable on official award of the new leases which is anticipated this quarter

Independent Expert Reports for Ahpun Field – work underway

Ahpun Field (Western Topsets) Cawley Gillespie & Associates Work underway

Ahpun Field (Alkaid Zone) Lee Keeling & Associates Expected imminently SLB Modeling Confirms 3.7 mmbbl Expected Ultimate Recovery (EUR) per Well Type Curve

Pantheon has modelled single well level (primary recovery only) for Ahpun Topsets to confirm commerciality

Kodiak modelling (Theta West-1 and updip NW appraisal location) also yield results above commercial threshold

Company Planning Basis

- Ahpun Field Topsets 3.5 mmbbl EUR
- Kodiak (Theta West) 3.65 mmbbl EUR
- Kodiak Updip 4.56 mmbbl EUR



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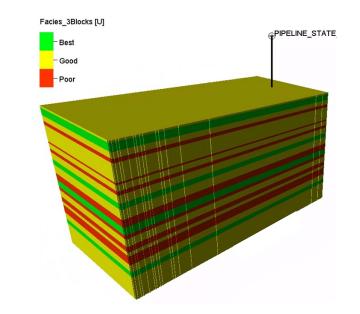


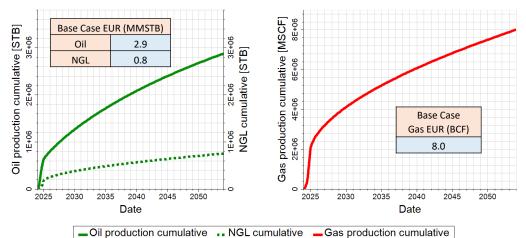
Executive Summary

- → The Pipeline State, SMD zone, layer-cake model (1 x 2 miles) has been built with facies, porosity, permeability, net-to-gross ratio, and water saturation, based on the information provided by GBP.
- \rightarrow Horizontal well with 10,000 ft lateral length is defined with frac data:
 - Frac height = 250 ft; Frac half-length = 179 ft; Frac conductivity = 165 md-ft
 - Cluster spacing = 25 ft; Cluster efficiency = 80%
- \rightarrow Production constraints are imposed on simulation cases:
 - Liquid rate < 5,000 STB/D; Gas rate < 10,000 MSCF/D
- → Reservoir simulation with the SMD fluid, based on the sensitivity parameters, generates a range of oil, NGL*, and gas EURs:
 - OILEUR: 1.1 ~ 5.6 MMSTB NGLEUR: 0.5 ~ 1.3 MMSTB
 - Gas EUR: 4.9 ~ 13.9 BCF
- \rightarrow The base case simulation gives the oil, NGL*, and gas EURs:
 - Oil EUR: 2.9 MMSTB NGL EUR: 0.8 MMSTB
 - Gas EUR: 8.0 BCF



* NGL: 95 bbl/MMCF, provided by GBP







Illustrative examples - Per well modelled economics

Ahpun Topsets EUR 3.5 mmbbls				Kodiak - Theta West EUR 3.65 mmbbls			Кос	Kodiak Updip EUR 4.56 mmbbls		
ANS price per bbl	NPV @ 10% \$000's	IRR		ANS price per bbl	NPV @ 10% \$000's	IRR	AI	NS price per bbl	NPV @ 10% \$000's	IRR
\$60	\$43,872	>100%		\$60	36,398	>100%		\$60	48,811	>100%
\$70	\$57,052	>100%		\$70	68,226	>100%		\$70	83,328	>100%
\$80	\$70,232	>100%		\$80	100,055	>100%		\$80	117,845	>100%
\$90	\$83,412	>100%		\$90	131,884	>100%		\$90	152,361	>100%

Principal assumptions and management estimates (Outturn may differ from assumptions)

- ANS prices have been discounted by 10%, No revenues for natural gas
- Combination of TAPS tariff and shipping to US West Coast estimated at \$7.50/bbl
- 1 injection well for every 3 production wells
- Production wells costed at \$17 million and Injection wells costed at \$15 million
- Well pads and production facilities estimated at \$50 million for 20 well pad
- State profits tax at 35% after payout (4% minimum tax rate prior to payout). No Federal Taxes

Prospective Resources in Conventional Reservoir

Ahpun Field (Eastern Topsets)

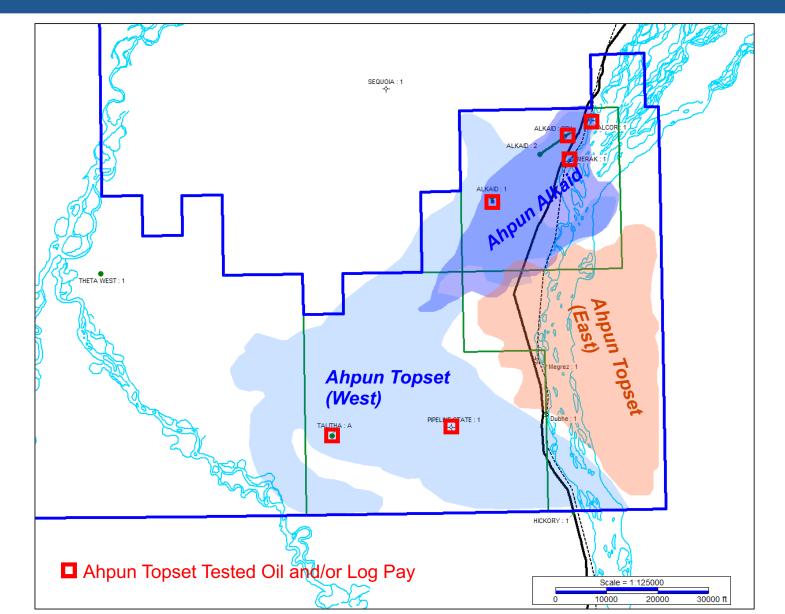
Company prospective resource (Best Estimate) of c. 600 million bbls



Ahpun Field Reservoirs

Aggregate Best Estimate Contingent & Prospective Resources > 1 Bbbl¹





Ahpun Topset (West)

- Nanushuk analog reservoir
- Internal estimate 2C 404 mmbbls marketable liquids¹
- Tested oil and/or logged pay in 6 of 6 PANR wells

Ahpun Alkaid (ZOI)

- IER 76.5 mmbbls recoverable oil²
- Discovered oil in Alkaid-1
- Tested oil in Alkaid-2

Ahpun Topset (East)

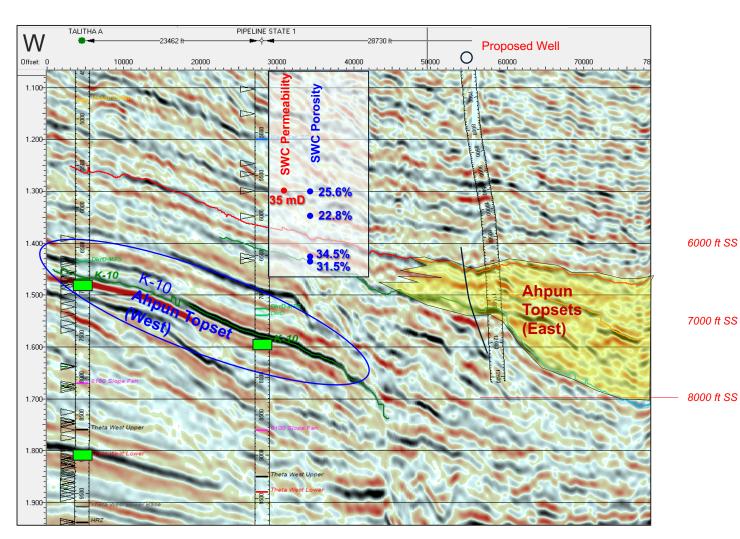
- Best Estimate Prospective Resource 609 mmbbls marketable liquids¹
- Adjacent to TAPS
- Multiple reservoir targets
- Geological Chance of Success 70%
- Keyed off Pipeline State oil discovery well
- Conventional Nanushuk analog topset reservoir
- Younger and shallower topset section
- Expecting significantly better reservoir quality than seen in existing Ahpun wells
- Pipeline State cores predicts at Ahpun Topset (East)
 - porosity in range of 20-25%
 - permeability in range 5-35 mD
- Reported analog Nanushuk poroperm¹
 - Porosity range: 10-35%
 - Permeability range: 1-100 mD

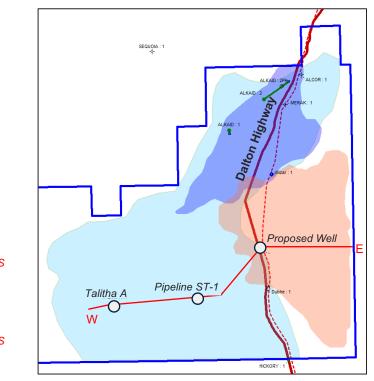
1. Company estimates

2. LKA 2020 IER

Ahpun Eastern Topsets

Conventional Reservoir Developable from Dalton Highway





- Conventional topset reservoirs
- Offset well Pipeline State-1 core data:
 - Porosities expected 20-25%
 - Permeability 5-35 mD
- Shallower than Ahpun Topset
- Can be developed from Dalton Highway

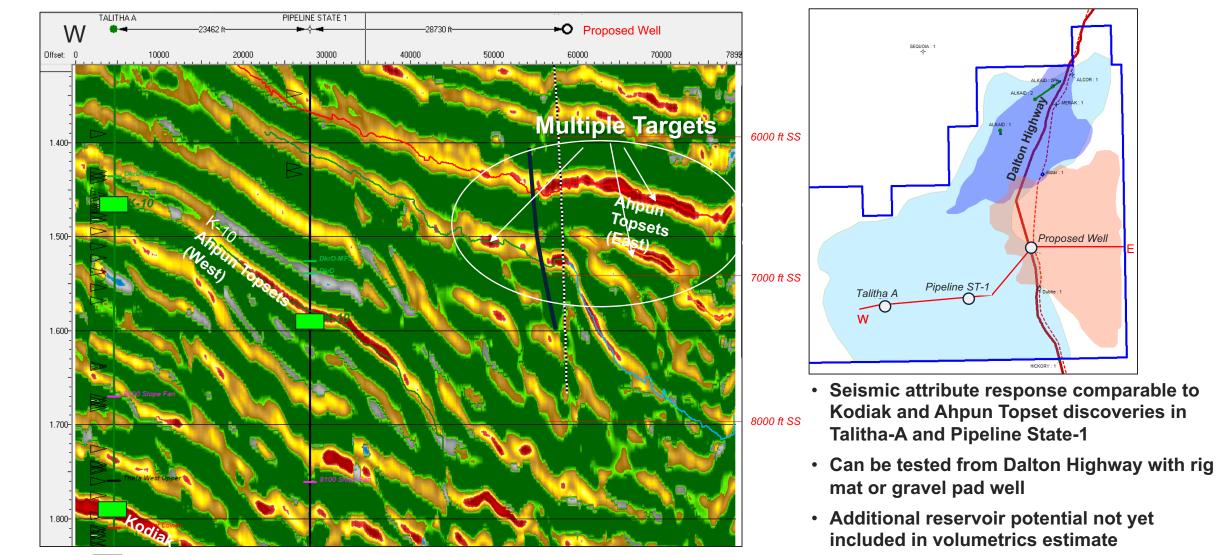
Ahpun (Eastern Extension)

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Topset AVO Lithology Attribute Response Consistent with Pay in Pipeline State and Talitha



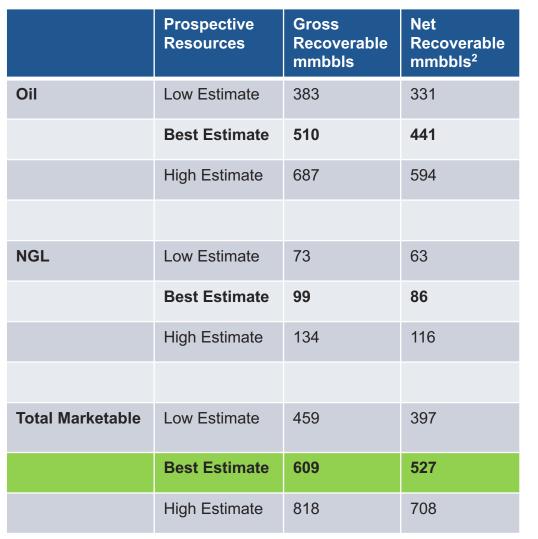
Proposed Well

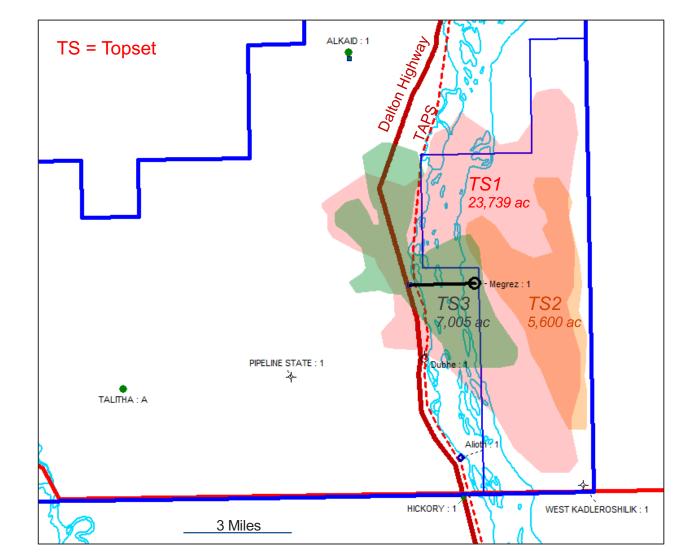


Ahpun Topset (East) Modeled Volumetrics¹ Best Estimate Prospective Recoverable Marketable Liquids 609 MMBLS



Estimated Geological Chance of Success – 70%





¹ Company estimates unless otherwise stated ² Based on combination of 12.5% and 16.67% State Royalty and 1% Overriding Royalty in favour of eSeis

2C Recoverable Resource Upgrade to 1.2 Bbbls

Netherland Sewell & Associates

Kodiak contingent resource estimates updated to include new leases



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NETHERLAND, SEWELL & ASSOCIATES, INC.

WORLDWIDE PETROLEUM CONSULTANTS

Dallas: 214-969-5401 Houston: 713-654-4950

www.netherlandsewell.com info@nsai-petro.com



Kodiak Preliminary Contingent Resources Estimates (include both Updip and Downdip)

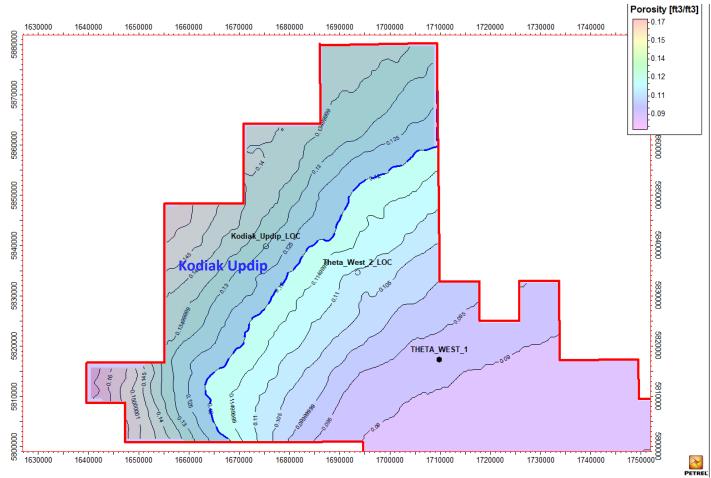
2024 Update:

	Low	Best	High
NGL EUR, mmbo	299.9	782.1	1,811.6
Oil EUR, mmbo	168.5	425.8	1,029.7
Oil + NGL EUR, mmbo	468.3	1,207.9	2,841.3
Total Shrunk Gas EUR, bcf	2,175.4	5,396.3	11,748.6
2023 Report:			
	Low	Best	High
NGL EUR, mmbo	292.4	647.9	1,366.4
Oil EUR, mmbo	145.4	314.6	647.8
Oil + NGL EUR, mmbo	437.8	962.6	2,014.2
Total Shrunk Gas EUR, bcf	2,151.7	4,465.2	8,822.7





• NSAI defines Kodiak Updip as area with minimum average properties of porosity of 12%, permeability of .1 md





Updated Recovery Factor (RF) distributions

Assigned RF ranges before adding Kodiak Updip (2023 report):

	Low	Best	High
Oil RF	4%	7%	12%
Gas RF	19%	30%	45%

	Low	Best	High
oil RF in Tarn/MW	10%	25%	45%
oil RF in Kodiak Updip (reduced from Tarn/MW due to lower porosity/permeability)	7%	15%	30%
gas RF in Kodiak Updip (increased from Kodiak Downdip due to higher porosity/permeability)	20%	40%	60%

Assigned RF ranges for the entire Kodiak area (updated for Kodiak Updip using GRV-weighted average):

	Low	Best	High
Oil RF	5%	8%	15%
Gas RF	19%	32%	48%



Natural Gas Potential: Creating an asset from a liability

Alaska Gasline Development Corp - proposed agreement could provide non-equity funding capacity on the back of gas sales

Initial In-State pipeline project does not rely upon LNG facilities or other gas supplies. Strengthens economics of subsequent LNG exports

Creating an opportunity for helium development if LNG phase of project proceeds





- Proposal for Pantheon to sell methane from its associated gas (ie excluding NGLs shipped through TAPS and delivered as ANS crude stream) at a base price up to \$1 per mmBtu at exit to Ahpun Facility¹
- Minimum 20 year take or pay (ToP) contract would provide borrowing capacity of up to \$250 million at Ahpun FID (50% of Real Post Tax NPV12.5)
- Actively pursing options with the State of Alaska to reduce gas purchase price in mutually beneficial way
- ¹ Under the proposed terms, this would provide for:

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- 1) free shipment of any helium produced along with the methane gas,
- 2) free offtake of any gaseous residues remaining after liquefaction of methane at the planned AK LNG Project, and
- 3) free access to sufficient land adjacent to the liquefaction plant to construct and operate a helium liquefaction plant and associated logistics facilities.

There can be no guarantee that acceptable arrangements will be concluded between the parties



Permitting an Ahpun Development Project to Provide In-State Gas Major Permits Required for Development to Proceed



• FID on In-State Phase of Alaska LNG Project

• LNG Export, Right of Way and Major Environmental Permits, and Federal Loan Guarantee in hand

- Wetland Fill Permits (Corps of Engineers)
- Unit Development Plan Approval (State)
- State Pipeline Right-of-Way Lease (State)
- Hot Tap Design Approval (Fed DoT/Alyeska)
- Air Quality Permit (ADEC)
- Development Permit (North Slope Borough)

Proposed TAPS Hot Tap Location



Natural Gas Pipeline Entry at Ahpun Facility Exit

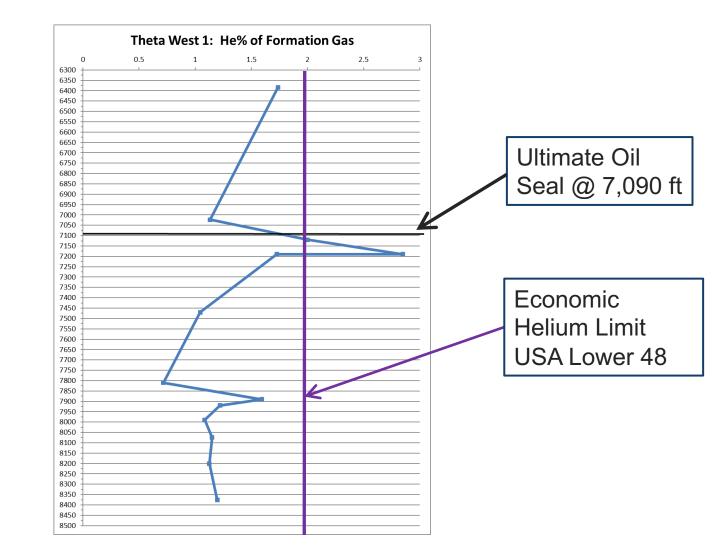
Helium Potential in Kodiak Field - But No Guarantees! Advanced Hydrocarbon Stratigraphy (AHS) Analysis on Theta West-1

Rock Volatiles Stratigraphy of Pantheon's Theta West-1 Well, North Slope, Alaska

Conclusions:

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- World Class Petroleum System >1,460 feet of significant oil saturation indicated by 1,460' of continuous oil bearing cuttings.
- 2. Good Quality and High Abundances of Oil, Reservoirs, and Seals.
- 3. High Helium documented in 3 sample types:
 - i. Isotubes,
 - ii. Sealed at Well Cuttings, and
 - iii. Lab Loaded Cuttings.



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Objective	 Deliver sustainable market recognition of \$5 - \$10 per barrel of 1C/1P recoverable resources by end 2028 by developing Ahpun and Kodiak
Goals	 Bring Ahpun into production and be ready to supply pipeline spec gas Generate positive net operating cashflow within 18 months of start up to fund ongoing develop of both Ahpun and Kodiak
Infrastructure Requirements to Achieve Financial Self- Sufficiency (Planning Case)	 17 production & 7 injection wells from Ahpun topsets on initial two pads At least 20,000 bpd marketable liquids processing capacity Hot tap into TAPS main oil line with potential gas line connection to reduce future gas reinjection well requirements
Key Activity Update	 Kodiak: NSAI updated report: 1.2 Bn bbls into TAPS & 5.4 tcf natural gas Ahpun: SLB development planning (per well modelling): 3.7 mmbbls into TAPS and 8 bcf natural gas in topsets. IP30 of 4,000 bpd, 2,000 bpd full first year LKA Ahpun Alkaid zone estimate: to be released when completed CGA Ahpun western topsets estimate: to be released when completed

Q & A



