Investor Technical Presentation - October, 2020



Location, Location, Location...Unique opportunity on the Alaskan North Slope

The Pantheon portfolio consists of **multi billion barrels of discovered oil in place**, located near the only major highway and the underutilized Trans-Alaska Pipeline on the Alaskan North Slope

The location, combined with an Alaskan fiscal regime with low royalty rates of 13.5% to 18.1% provides an opportunity for Pantheon to pursue impactful projects that deliver substantial valuation potential

EXPERIENCED BOARD & MANAGEMENT



BOARD & MANAGEMENT

Phillip Gobe - Chairman

+40 yrs' experience in the sector. Non-exec director of the S&P 500 Pioneer Natural Resources and Scientific Drilling International Inc, the 5th largest provider of directional drilling & measurement equipment and operational services in USA. Formerly head of Prudhoe Bay operations in Alaska for ARCO

Jay Cheatham - Managing Director

Petroleum Engineer. +40 yrs' experience. Ran family E&P business prior to joining ARCO. At time of BP's \$30bn acquisition Jay headed up ARCO International (responsible for all operations outside USA). Prior to that he led ARCO exploration and production for USA (Gulf coast region)

Robert Rosenthal - Technical Director

Geologist +40 yrs' experience. Founding Manager of Great Bear Petroleum. Ex BP (Global Consultant - Exploration worldwide). Expert in seismic stratigraphy and high tech geophysics

Justin Hondris - Director, Finance & Corp Development

Banking & financial background with over 25 yrs' experience including roles in investment banking & private equity with 14 yrs specialising in energy

Patrick Galvin - Chief Commercial Officer / General Counsel Alaska

Former Alaska State Commissioner of Revenue, Former Petroleum Land Manager for the Alaska Dept of Natural Resources, overseeing the State's oil and gas leasing program. Former partner at K&L Gates

Jeremy Brest - NED

+20 yrs' experience banking and financial advisory. A specialist in structuring and execution of private transactions

Mario Traviati - Advisor to the Board

Previous head of Asia Energy research for Merrill Lynch. +35 years working, analysing & funding oil and gas projects, Founding Manager Great Bear Petroleum, previous Woodside Petroleum

Thomas Michael Duncan - Vice President Operations

Professional Engineer, licensed in Alaska with experience and expertise in conventional and unconventional reservoirs throughout North America

Ed Duncan - Senior Geoscience Consultant

Founder Great Bear Petroleum, Geologist +37 years experience

Jerry Nichols - Senior Geophysicist Consultant

Geophysicist with +40 years of experience in numerous worldwide exploration and development projects, including Alaska

TECHNICAL PARTNERS

eSeis Inc.

A pioneer in the use of Seismic Petrophysics / High Tech Geophysics for the petroleum industry. Deep experience in Alaska.

Why Alaska North Slope?

- ✓ Home to the USA's largest 2 oilfields
- ✓ Excellent infrastructure with surplus capacity
- ✓ Onshore, conventional (not shale) projects with enormous potential
- ✓ Host to some of the world's largest discoveries over recent years

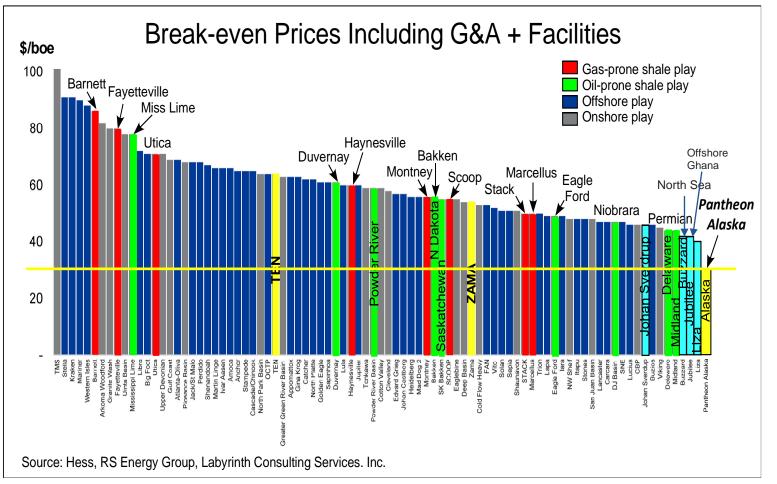
Pantheon in Alaska

- ✓ Lower breakeven than most of world
 - ✓ Culmination of +\$250m spent and +10 years' work invested into Pantheon's acreage
 - ✓ Commanding acreage footprint (working interests at 89% 100%). +150,000 acres
 - ✓ Deep experience in Alaska
 - ✓ c. 1,000 sq miles 3D seismic, majority of which is **proprietary**
 - ✓ Appraising multi billion barrels of oil in place
 - ✓ Located underneath & adjacent to largest pipeline in USA
 - ✓ Moderate drilling depths & no known environmental or social/native impediments
 - ✓ 2 confirmed discovery wells on acreage => opportunity to exploit/commercialise rapidly after drilling
 - ✓ 2 main target formations (Brookian & Kuparuk) have productive analogs in the immediate area.
 - ✓ Targeting pilot production from Alkaid 2021
 - ✓ Talitha#1 well (Jan 2021) believed to be one of the highest impact wells to be drilled globally in 2021

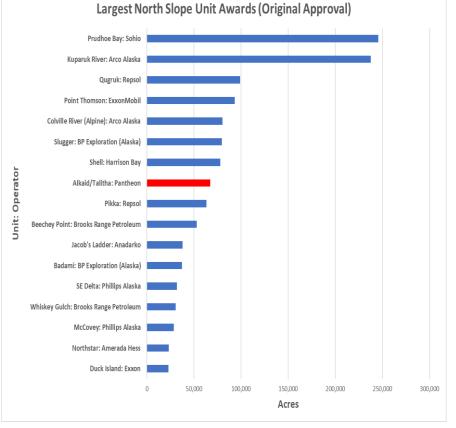
GLOBAL CONTEXT COMPARATIVE GLOBAL PROJECT BREAK-EVEN PRICES



Break-even prices are forecast to be some of the lowest globally



Pantheon is among the largest Production Unit holders on the ANS



1. <u>IHS Markit</u> (Nasdaq: INFO), a world leader in critical information, analytics and solutions

"Alaska North Slope a 'Super Basin' ready for Oil Resurgence as Oil Production Expected to Grow 40 Percent in Eight Years" [IHS Markit , 2018]

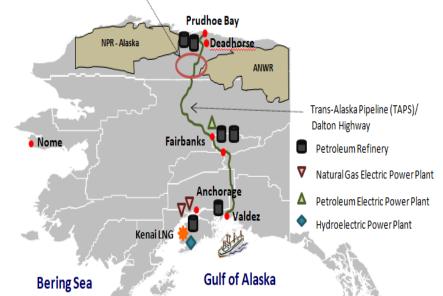
IHS Markit¹ defines 'super basins' as basins which:

- 1. have multiple reservoirs and source rocks;
- 2. diverse play types across numerous geologic horizons;
- 3. infrastructure with access to markets;
- 4. established service sector and supply chains; and
- 5. hold **at least 5 billion BOE** in conventional remaining reserves and have already produced at least 5 billion BOE

Based on recent discoveries IHS estimates that the ANS offers:

38 billion boe of undiscovered potential vs 16 billion boe produced

- 28 billion barrels of oil yet to be discovered
- 50 trillion cubic feet of gas yet to be discovered



"For onshore light-oil opportunities in a stable country with a positive investment outlook, the ANS provides a viable alternative to the competitive Lower-48 unconventional basins"

"Previously thought of as a mature basin, recent large discoveries made in the shallow Nanushuk and Torok formations indicate **this basin has a lot of room left to grow** beyond the Endicott and Ivishak formations, which are the reservoirs from which the giant Prudhoe Bay and Endicott fields produce"

Pantheon – in the right place, at the right time!

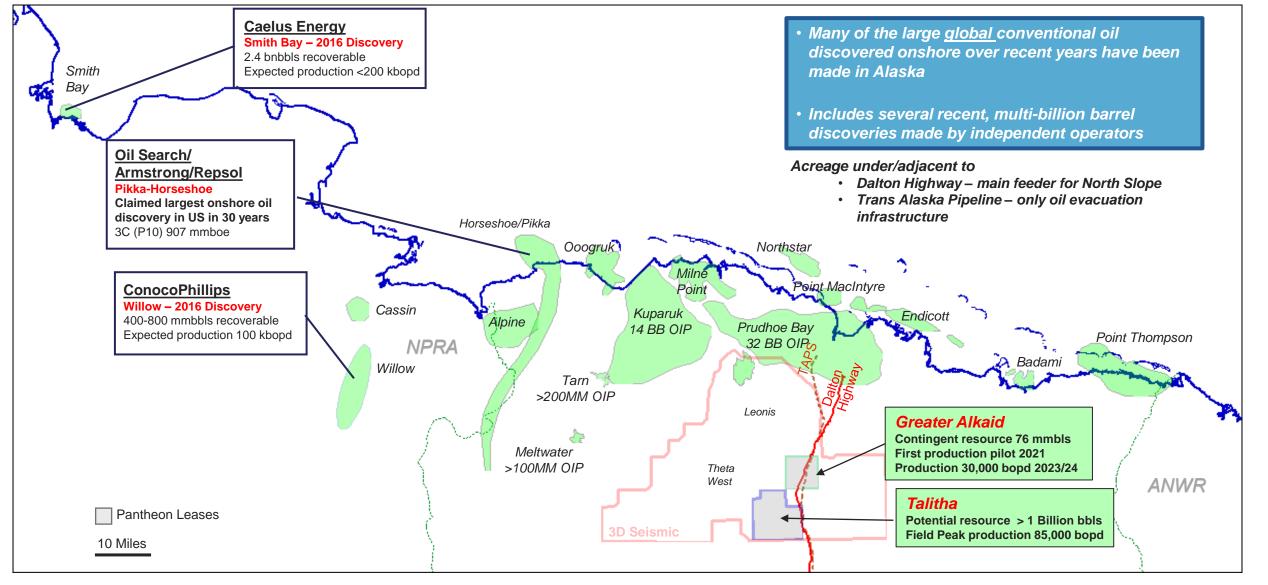
WORLD CLASS SIZE & SCALE ALASKA NORTH SLOPE: "SUPER BASIN – Ready for Resurgence"



Pantheon Focus Area

REGIONAL CONTEXT PANTHEON'S ACREAGE ON THE NORTH SLOPE





PANTHEON SIGNIFICANT MILESTONES ACHIEVED IN 2020 Executing the Plan



Q1 2021 - 89-100% WI

Jan 2019 - Acquired GBP and raised US\$21m, Difficult markets - China trade war crashed DJI		Production Confirme ar accumulation	Production Test at Alkaid		 Q4 2019 - Award of new acreage: secured 2 additional oil accumulations - Theta West & Leonis. Estimated > 1 Billion bbl OIP Commenced Farmout Process 		D disruption cess: created om. Interest C's to smaller groups	on all projects provides control & flexibility with option to fund via farmout
	2019				2020			2021 Q1 2021 - DRILLING
Q1 2019 - Free Carry on Drilling Winx Exploration well: high risk well totally		 Q3 2019 - Successful capital raise of \$11m at a 18% premium to previous fundraise 		Q1 2020 - IER at Alkaid: 900m bbl OIP and 76.5 mm bbls recoverable <i>Contingent</i>		 Q3 2020 – Production Units deemed completed at Alkaid (22.804 acres) 		

18% premium to previous fundraise price

funded by 3rd parties

- Secured world class technical team: eSeis. Exchanged \$2.7m for a 1% royalty, saving \$\$\$ and endorsing quality of project
- Acquired Haliburton's 25% interest in Alkaid: contra against their share of drilling and P&A liabilities

obis recoverable Contingent Resource - \$595 million NPV at \$55 oil price

- completed at Alkaid (22,804 acres) & Talitha (44,373 acres)
- IER at Talitha > 1 billion bbl OIP and 302 mm bbls recoverable Prospective Resource - \$2.7bn NPV10 at forward strip price (\$46 -\$55)

Project Overview

- 1. Greater Alkaid (100%)
- 2. Talitha (89.2%)
 - a. Shelf Margin Deltaic
 - b. SlopeFan System
 - c. Kuparuk
 - d. Basin Floor Fan
- 3. Theta West (100%)
- 4. Leonis (100%)



PROJECT RESOURCE SUMMARY Not a 'one project' company



Independent Expert

- Four Projects in same geographic location
- All projects contain discoveries of oil
- Two projects matured Greater Alkaid & Talitha
- Greater Alkaid successfully tested oil zone
- IER on Greater Alkaid
- Talitha to test three major zones possibly more
- IER on primary SMD objective at Talitha
- · Company estimates two other zones
- Kuparuk estimate of 341 mbbls recoverable
- Slope & Basin Floor Fan Systems under evaluation

		simales			
Project	Working Interest	Oil in Place (Million Bbl oil)	Recoverable Resource Millions Bbls	Recoverable Resource Millions Bbl oil	Project NPV (\$m)
Greater Alkaid	100%	900	90 - 135	76.5	\$595 ⁽³⁾
Talitha Project	89%				
1. Shelf Margin Deltaic ¹		1,800	483	304	\$2,694
2. Kuparuk		1,364	341	n/a	n/a
3. Slope Fan System ²			tbd	tbd	
4. Basin Floor Fan		tbd	tbd		
Total		4,064	939	380.5	\$3,289
Theta West	100%	>1,000	tbd		
Leonis	100%	combined	tbd		

Company Estimates

Notes:

1. Shelf Margin Deltaic - Company Estimate to be upgraded Oct 2021

2. Slope Fan System - analysis underway. To be announced Q4 2021

3. As at Jan 2020, at \$55 oil price held flat

Greater Alkaid

- ✤ Confirmed Oil Discovery with 35⁺ deg API oil
- Contingent Resource 76.5 MMBO recoverable
- Under Dalton Highway and Trans-Alaska Pipeline
- Substantial resource potential to be evaluated
- Discovery well terminated in oil zone



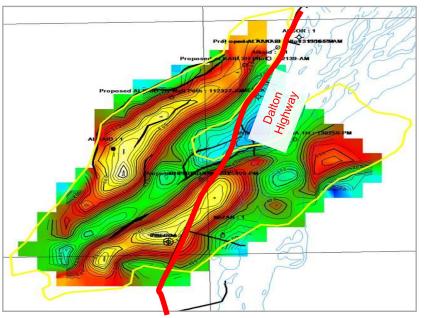
GREATER ALKAID PROJECT (100%) Appraisal and Development

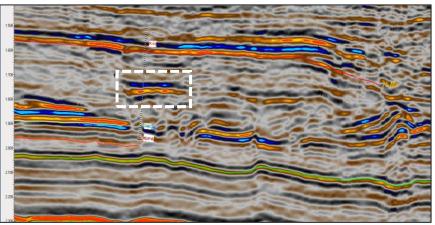
ALKAID – CONFIRMED DISCOVERY

- Major discovery under the Trans Alaska Pipeline and Dalton Highway
- · Confirmed discovery tested 35 deg API oil
- · 450ft gross pay with 240ft net pay
- 6ft interval flowed 100 bopd
- No oil/water contact found Significant additional upside potential
- · IER affirms 76.5 MMBO Contingent Resources (recoverable)
- Pantheon estimate 90-135 MMBO recoverable
- At current strip price, NPV(10) c.\$316 million^{*} (\$595m at \$55 oil)

HIGHLIGHTS

- Easy to identify oil accumulation on seismic
- · Modelled well economics
 - Estimated ultimate recovery (EUR) of 2.25 MMBO
 - Peak field development flow rate of 30,000 bopd
- Location allows testing & short-term production along Dalton Highway
- · Ability to use low cost modular production units
- Pilot production targeting onstream 2021







Talitha Appraisal Project

- Multi-billion Barrel Oil in Place Potential
- Recoverable oil potential in excess of 1 billion barrels
- 8 Miles from Dalton Highway and Trans Alaska Pipeline
- 2 Target zones have proven productive analogs in immediate project area
- Talitha well targets three and possibly four oil accumulations Shelf Margin Deltaic Slope Fan Systems Kuparuk

TALITHA #1 APPRAISAL WELL High Impact well targeting 1 billion bbls of recoverable oil



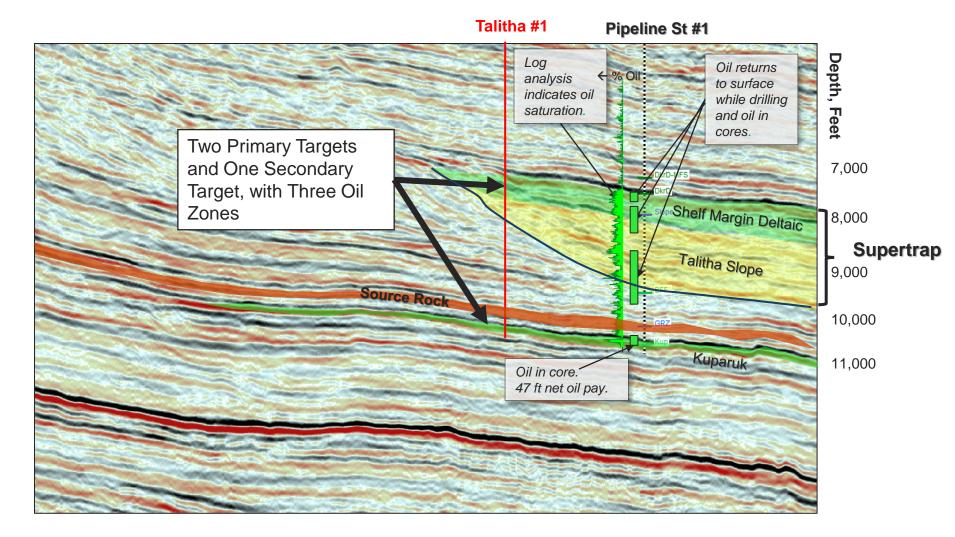
Talitha Appraisal well

Updip from Pipeline State #1 discovery well confirmed oil in all target formations

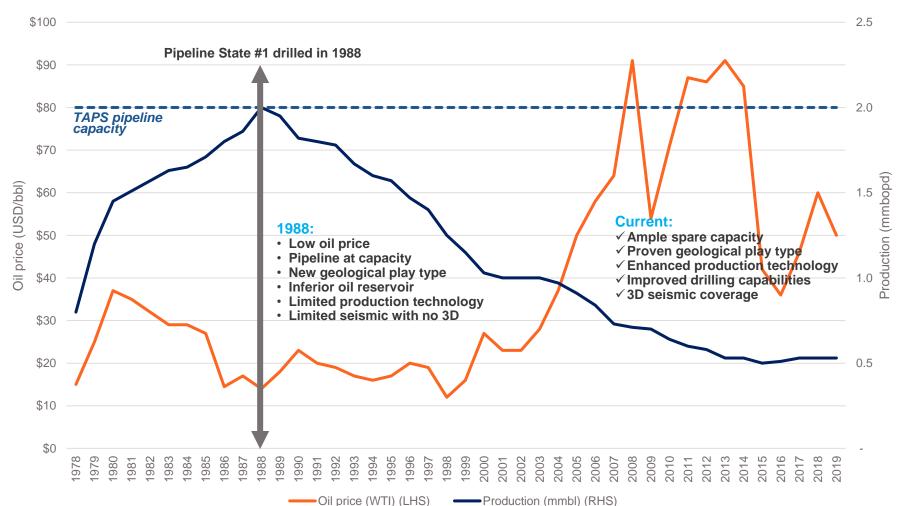
Super trap with >2000 feet hydrocarbons in discovery well

Targeting 3 independent zones with Multi Billion barrel OIP potential

Potential for over 1 billion bbls of recoverable across all target formations.





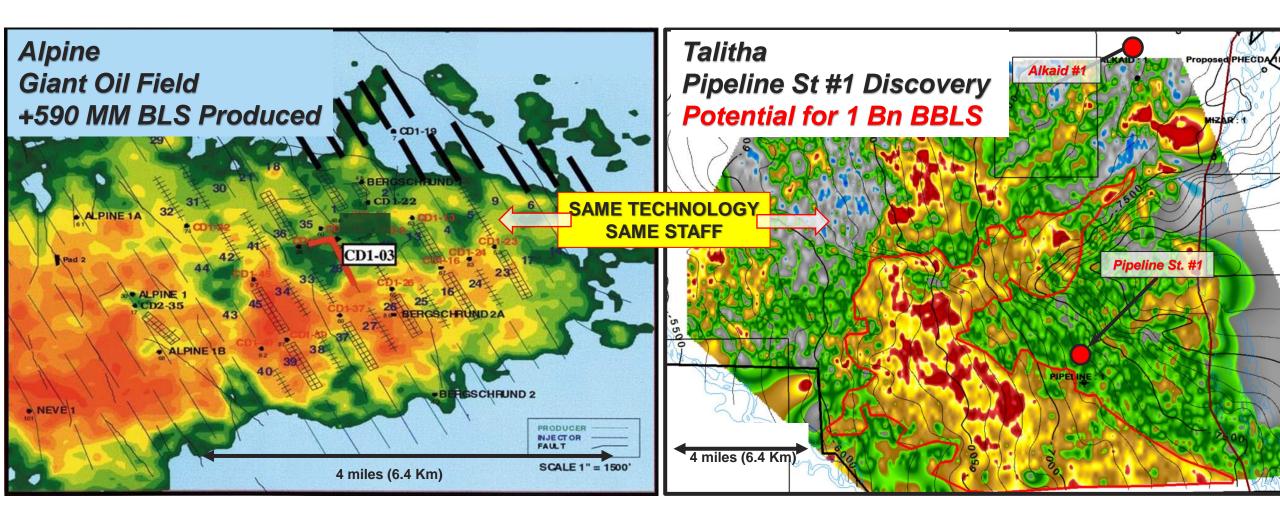


OIL PRICE VS. ALASKA PIPELINE CAPACITY

ALPINE FIELD: DISCOVERY ANALOG FOR TALITHA Comparison of Talitha Shelf Margin Deltaics and Alpine Seismic Attribute Responses

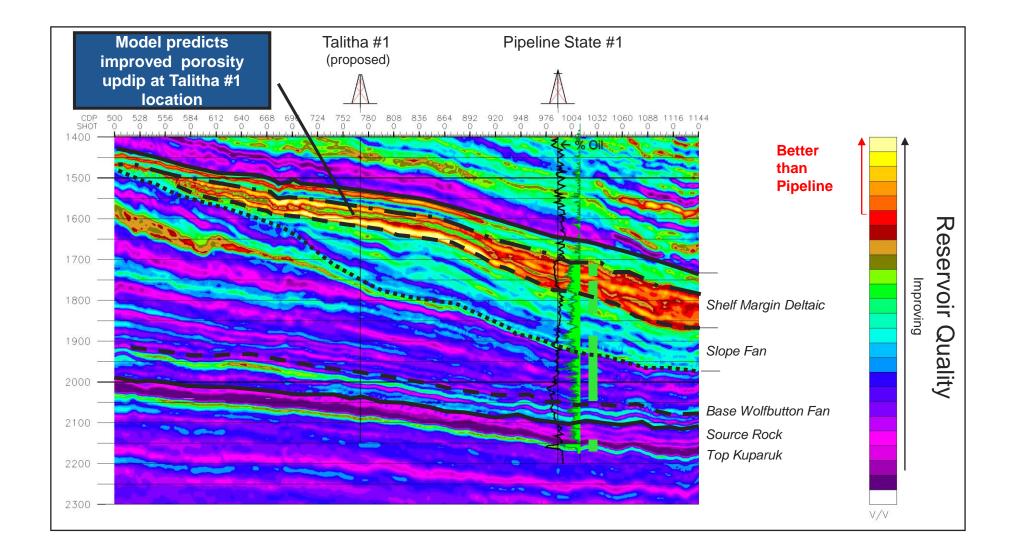


TWO EXPERTS THAT DISCOVERED ALPINE ARE WORKING ON TALITHA



RESERVOIR ATTRIBUTE RESERVOIR QUALITY IMPROVES AT TALITHA #1 LOCATION





Other Projects

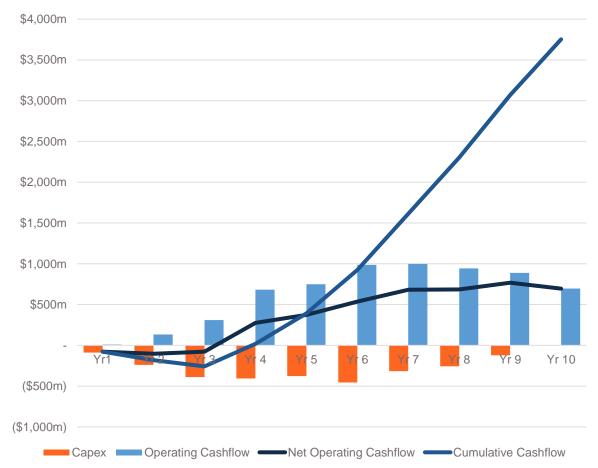
- Acquired two additional projects:
 - Theta West
 - ✤ Leonis
- Oil confirmed in multiple analog wells
- ✤ >1 billion barrel oil in place potential



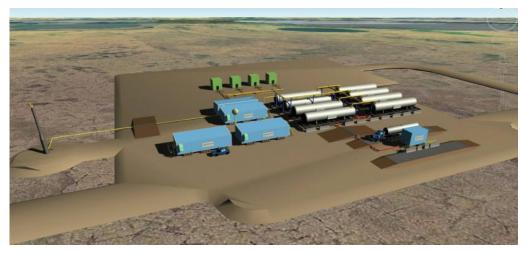
SHELF MARGIN DELTAIC CASHFLOW ANALYSIS Expediting Cashflow through technology innovation



SMD PROJECT FORECAST CASHFLOW ANALYSIS



MODULAR ARCTIC PRODUCTION SYSTEM (MAPS)¹



Source: Alaska Journal of Commerce, 21 February 2018

- Mobile Arctic Production System by NANA WorleyParsons
- · Leased stand alone early production system
- Fully modularised, mobile and customisable solution
- Consists of four modules: one each for power generation, natural gas handling, electrical controls and a 5,000 barrels per day liquids production module. Scalable at 5000 barrels of liquids/day
- trucking facilities with storage or connect directly into pipeline.
- · MAPS can be leased hence minimal facilities cost to operator
- Preclude spending upfront \$300 m on upfront processing facilities.
- Perfect for PANR unique location adjacent road and pipeline

Source: Lee Keeling & Associates. The chart represents forecast cashflows underlying the previously disclosed 2.7bn NPV10, based upon a modelled development scenario



Pantheon is poised to appraised <u>a large, independently validated resource</u>

No debt

2

3

- Executive and technical teams with proven exploration and production capabilities in Alaska
- Tangible, valuation milestones achieved in past 21 months post Great Bear acquisition
- Unique acreage position adjacent to infrastructure expedites economic development
- 5 Discovered oil resources focused on appraisal and development **not exploration!**
- 6 Two discoveries independently assessed with Production Unit applications currently underway
- 7 Near term drilling appraising these discoveries **converting resources to reserves & cashflow**
- 8 Access to underutilized export infrastructure adjoining project area ready to be employed
- 9 First well in Q1 2021* is targeting 1 billion bbls of recoverable oil **appraisal !**
- 10 Next 12 months of activity set leverages \$250 million invested to date and a decade of work

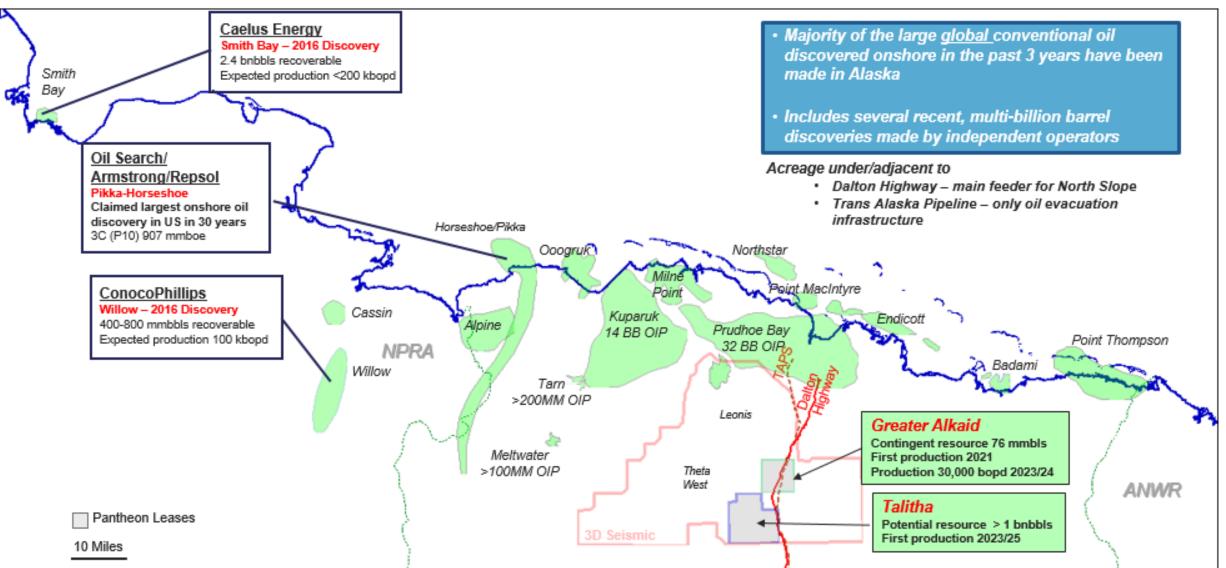
Portfolio <u>includes multi billion bbls of OIP</u> + in excess of 1 <u>billion bbls of recoverable oil potential</u> in multiple projects to be appraised and tested over next 12 months

* Subject to completion of Farmout

Pantheon Resources plc

Alaska Project Overview

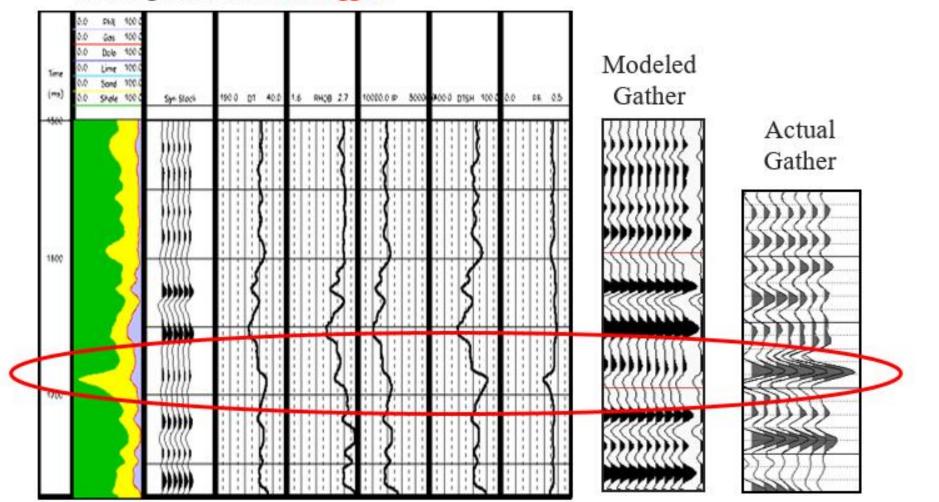
PANTHEON'S ACREAGE ON THE NORTH SLOPE – REGIONAL CONTEXT



Alpine Discovery Creating a Valid Model



Bergschrund #1 Well, Alpine field discovery well Well Log Information <mark>as Logged</mark>

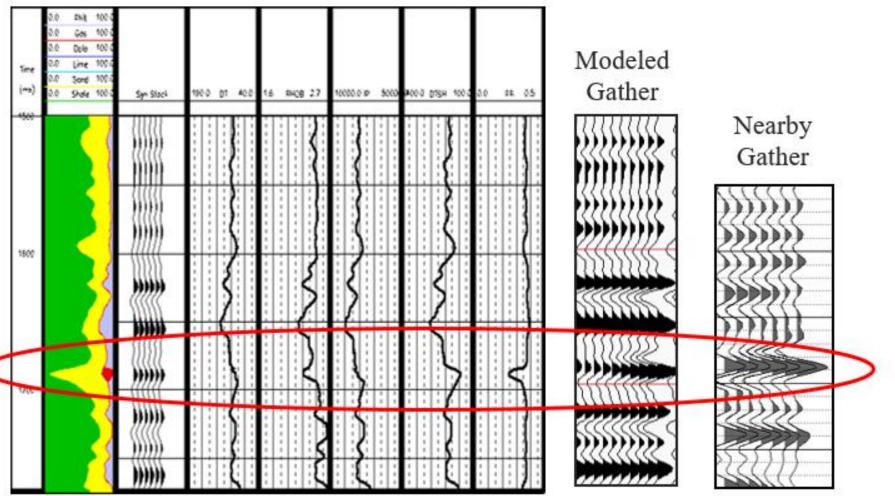


Alpine Discovery Creating a Valid Model



Bergschrund #1 Well, Alpine field discovery well Well Log Information corrected

Well logs are highly influenced by the near wellbore environment and must be corrected to make valid seismic models.

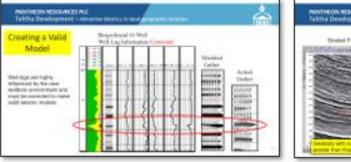


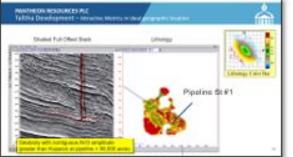
Alpine Discovery Creating a Valid Model



Technology created at Union Texas Petroleum aided the Alpine field discovery

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This technology became the cornerstone of eSeis inc., a company specializing in seismic petrophysics and founded in the year 2000.

Talitha Petrophysical Review Talitha Development: Pipeline State #1 Logs

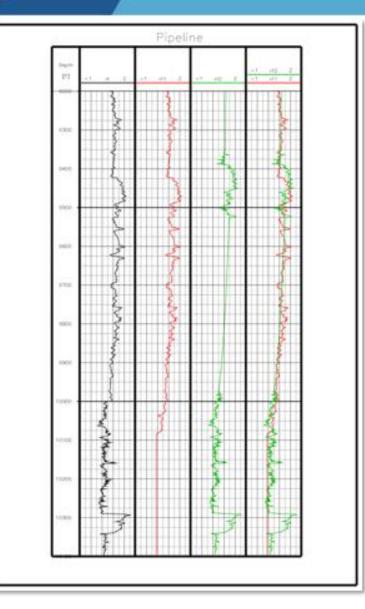


Wireline LWD Pipeline Pipeline LWD over cored interval Kuparuk Kuparuk is only logged by LWD μ

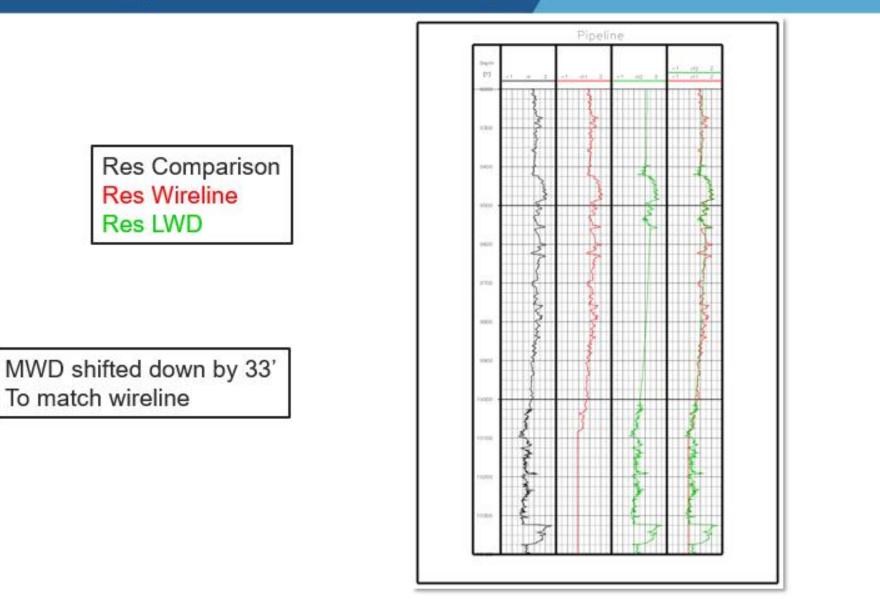
Talitha Petrophysical Review Talitha Development: Resistivity Comparison - Wireline vs LWD



Res Comparison Res Wireline Res LWD



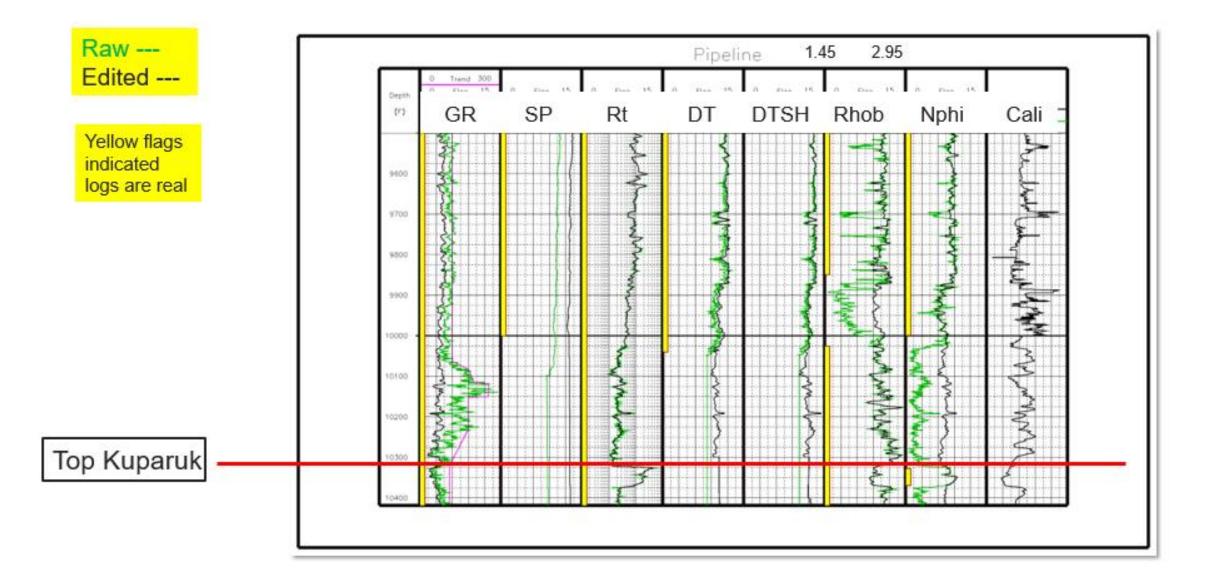
Talitha Petrophysical Review Talitha Development: LWD Shifted Down by 33 Feet





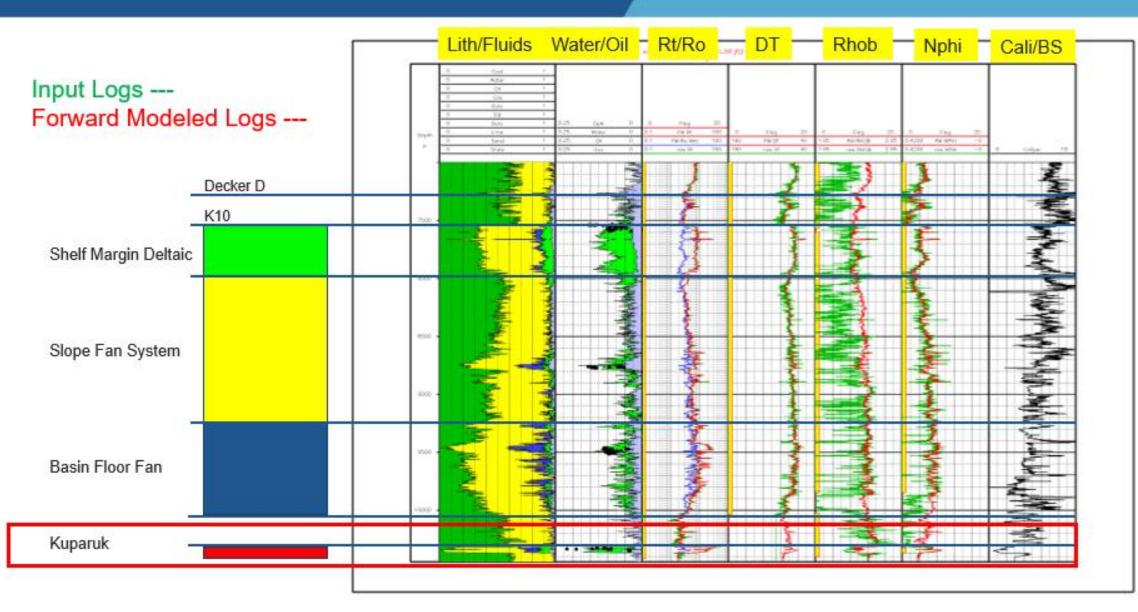
Talitha Petrophysical Review Talitha Kuparuk Development: Raw vs Edited Curves





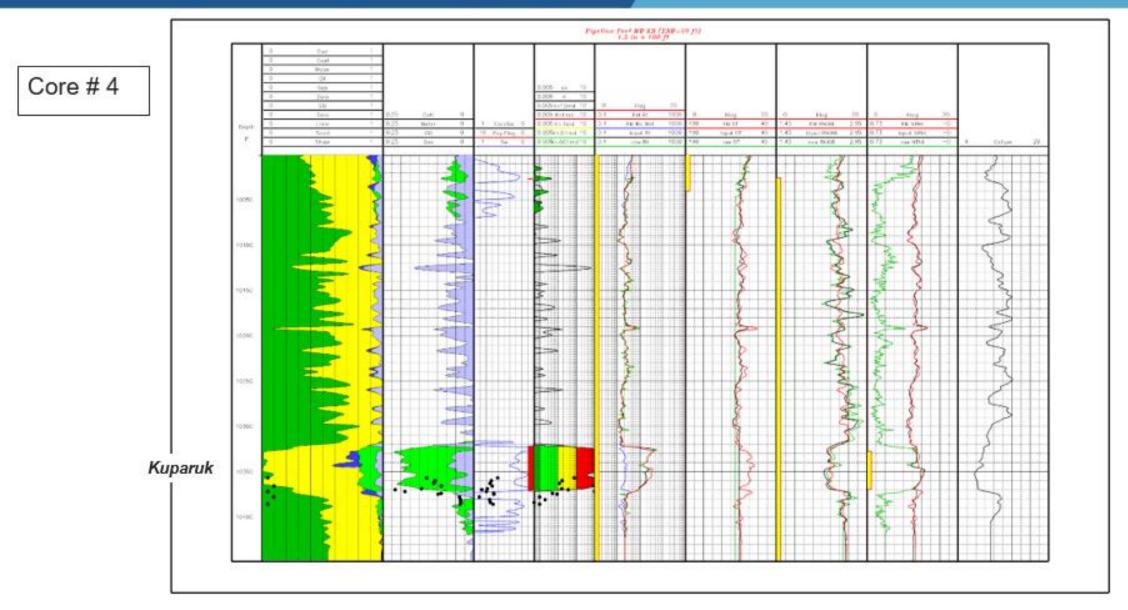
Pipeline State #1 Log Analysis





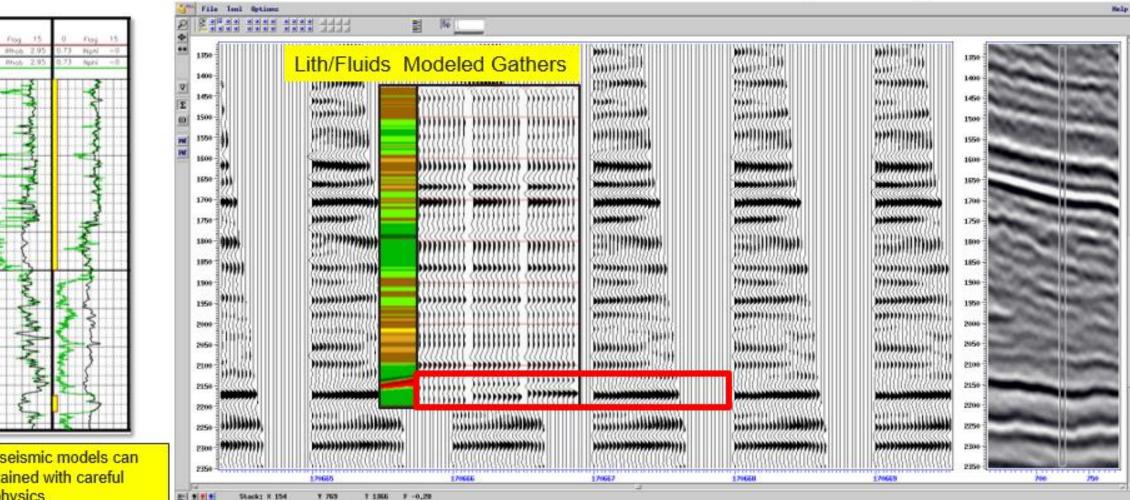
Talitha Petrophysical Review Talitha Kuparuk Development: Log Analysis





Talitha Petrophysical Review Talitha Kuparuk Development: Pipeline St. Actual vs Modeled Gathers





Actual Gathers of Kuparuk at Pipeline St.

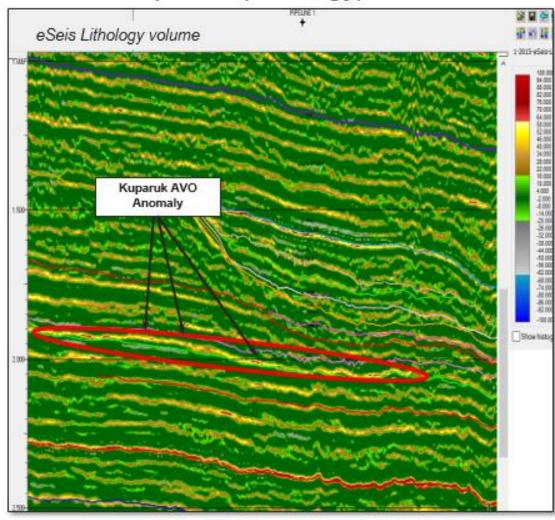
Good seismic models can be obtained with careful petrophysics

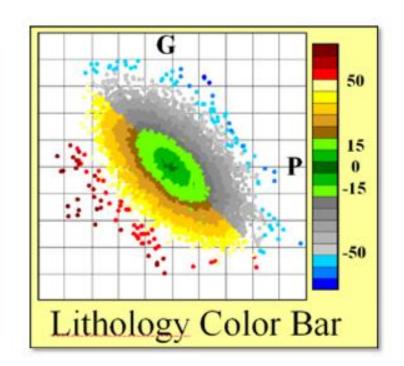
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Talitha Petrophysical Review Talitha Kuparuk Development: AVO Amplitude (Lithology) Section

AVO Amplitude (Lithology) Section

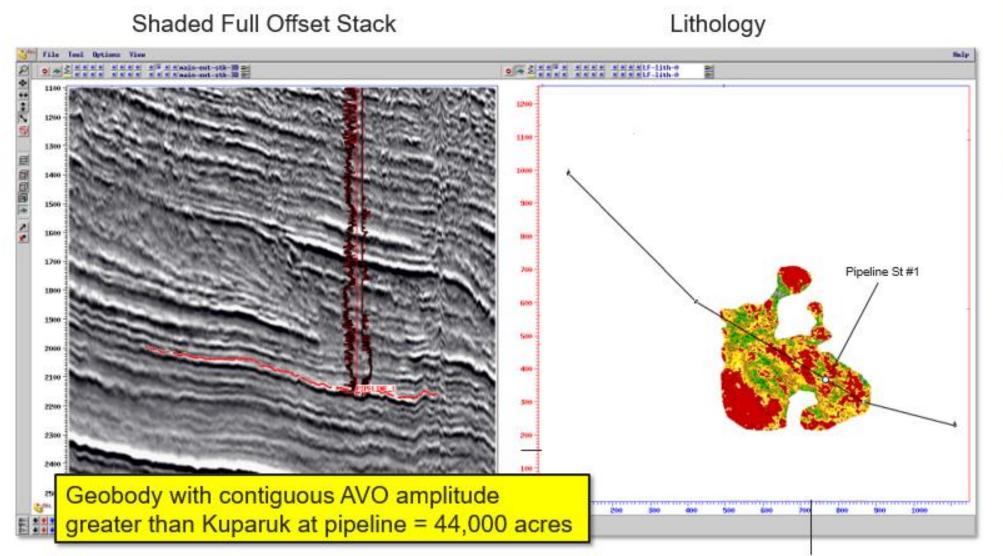


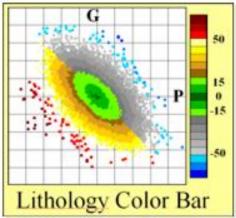


Elliptical distance from the origin in inverted P vs G AVO space



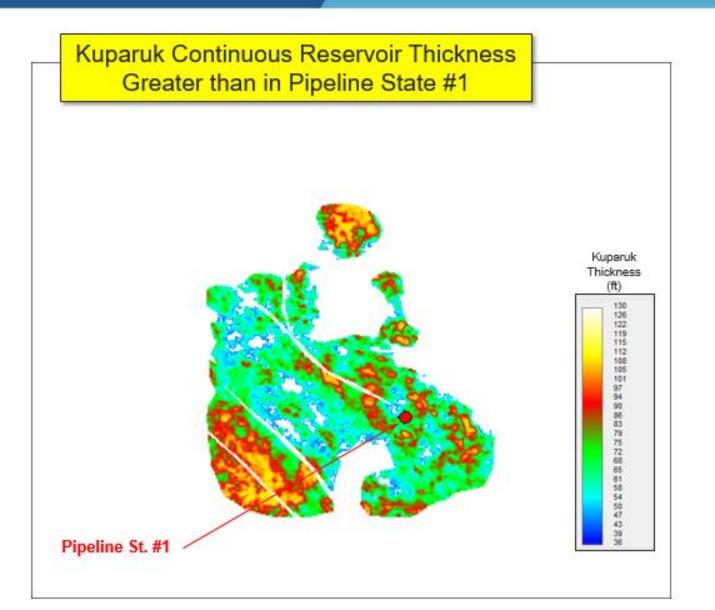
Talitha Petrophysical Review Talitha Kuparuk Development: AVO Lithology Anomaly – Areal Extent





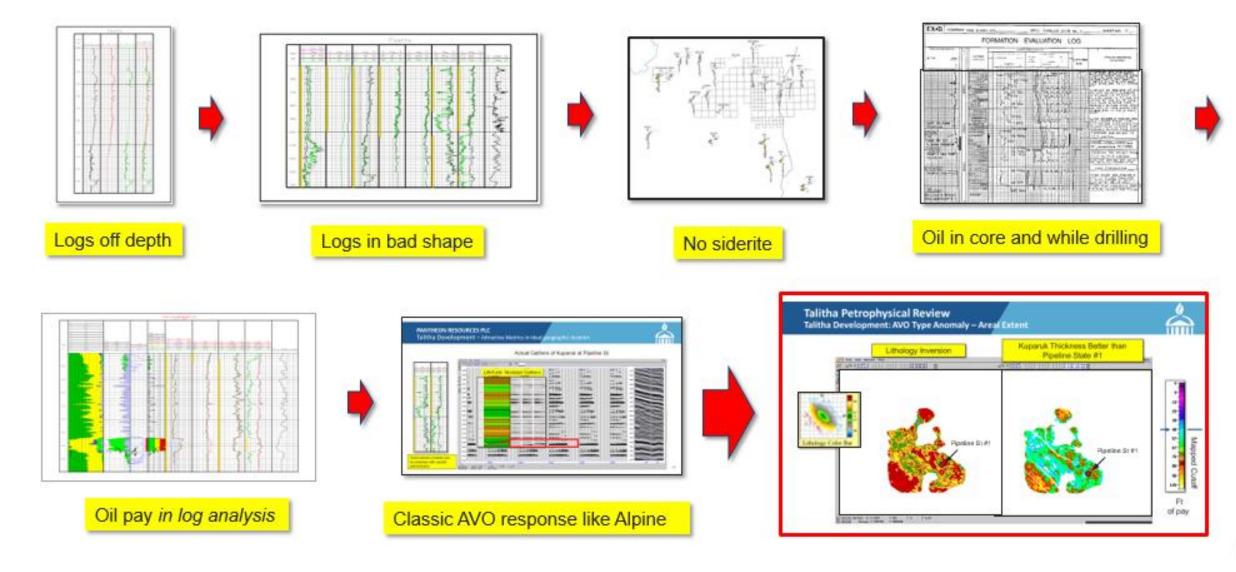
Talitha Petrophysical Review Kuparuk Isopach





Talitha Petrophysical Review Talitha Development: Kuparuk Seismic Petrophysical Summary





Talitha Volumetrics SMD and Kuparuk Deterministic Calculations

Talitha Unit Area: 44,453 acres

Kuparuk	PANR		
OIP (BnBBLS)	1.372		
Recoverable (BnBBLS)	0.343		

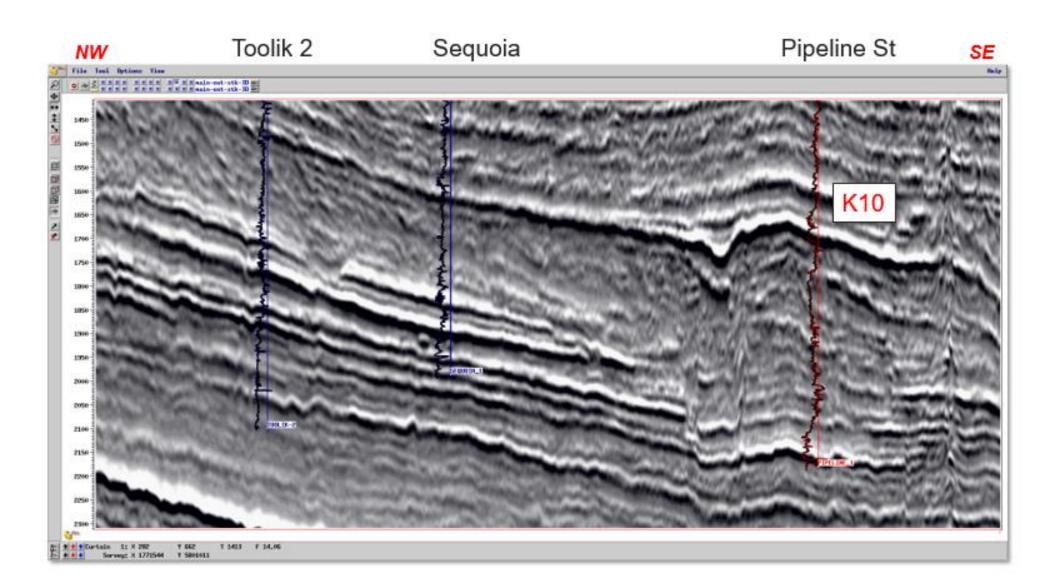
Brookian Reservoirs

2000 ft hydrocarbons



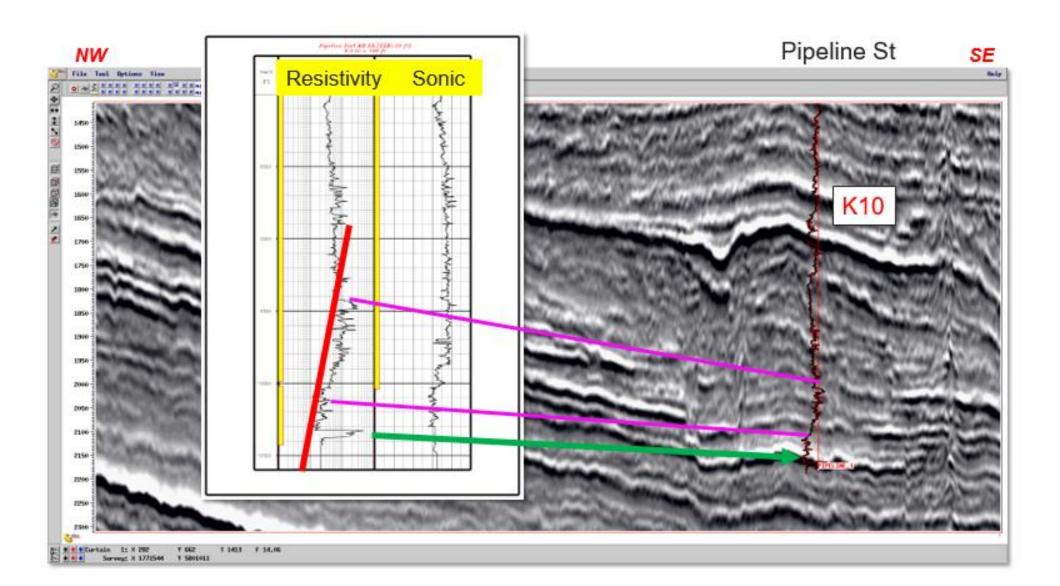
Brookian Petrophysical Review Talitha Development: Arb Line through Pipeline St. #1





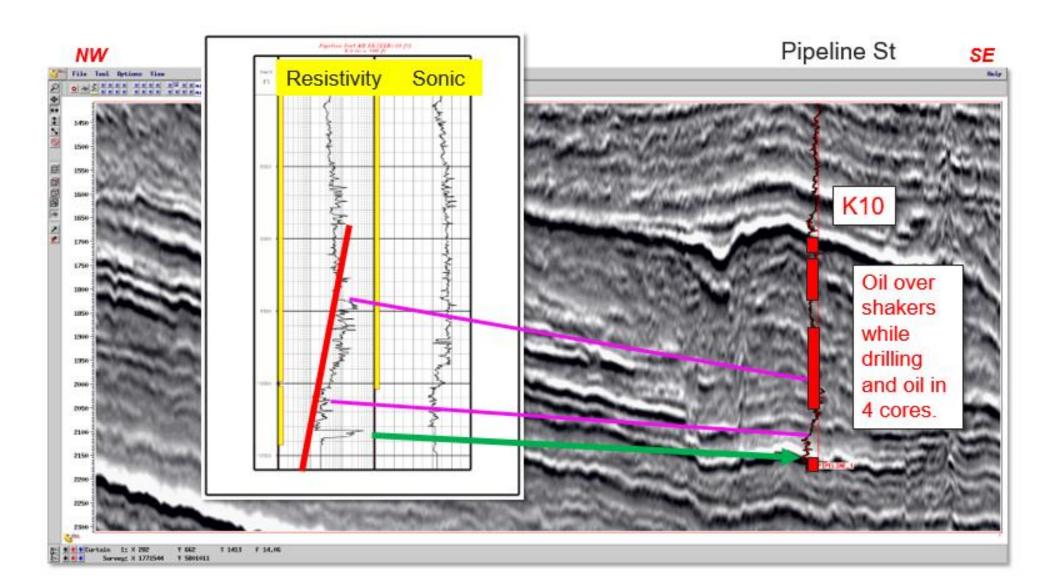
Brookian Petrophysical Review Talitha Development: First Pass Interpretation Tie to Seismic





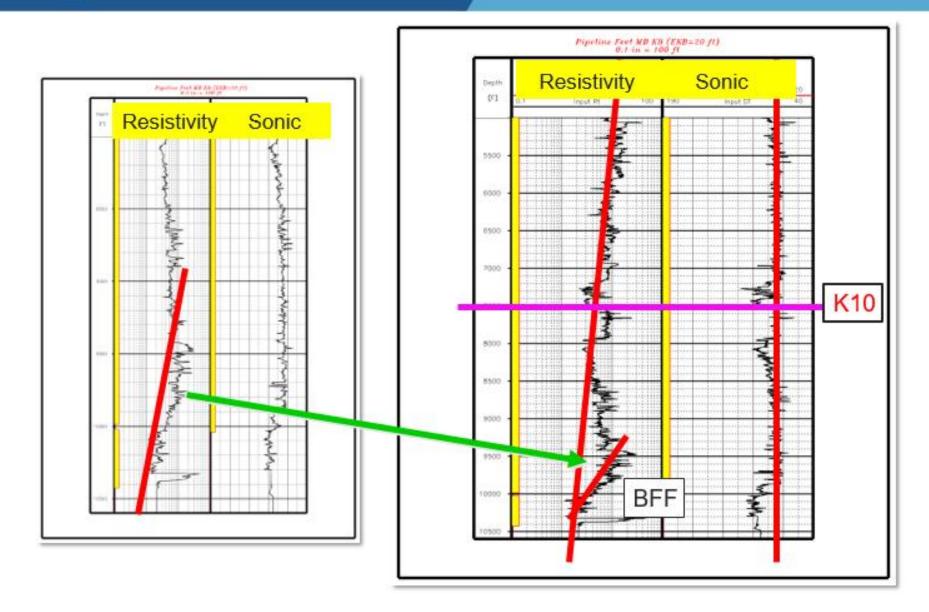
Brookian Petrophysical Review Talitha Development: First Pass Interpretation Tie to Seismic





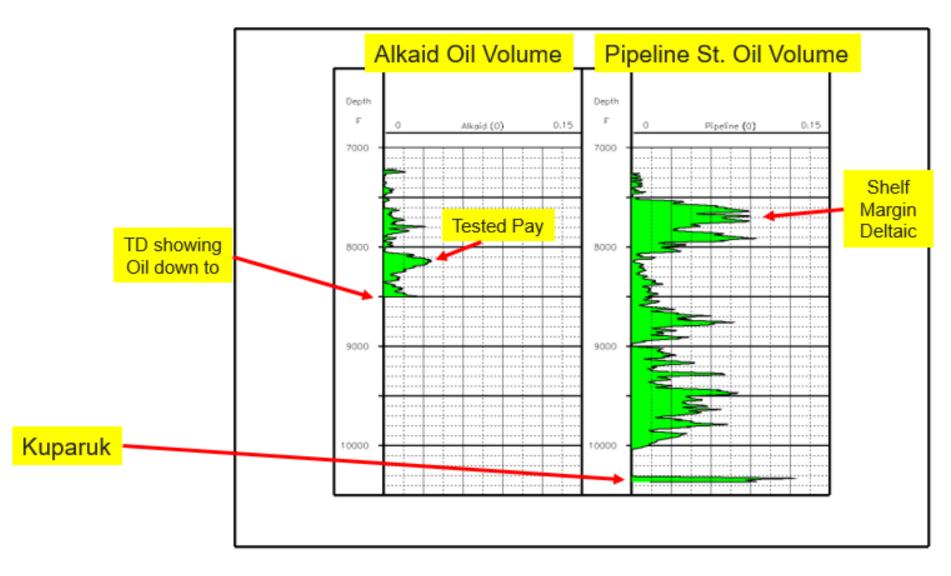
Brookian Petrophysical Review Talitha Development





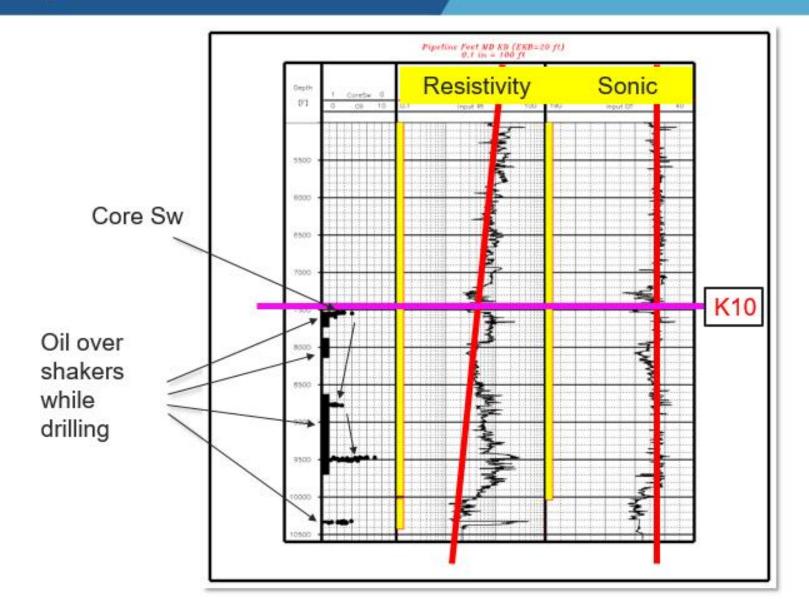
Pipeline State vs Alkaid OIL VOLUME





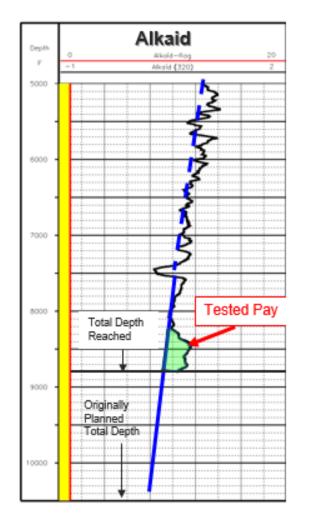
Brookian Petrophysical Review Talitha Development





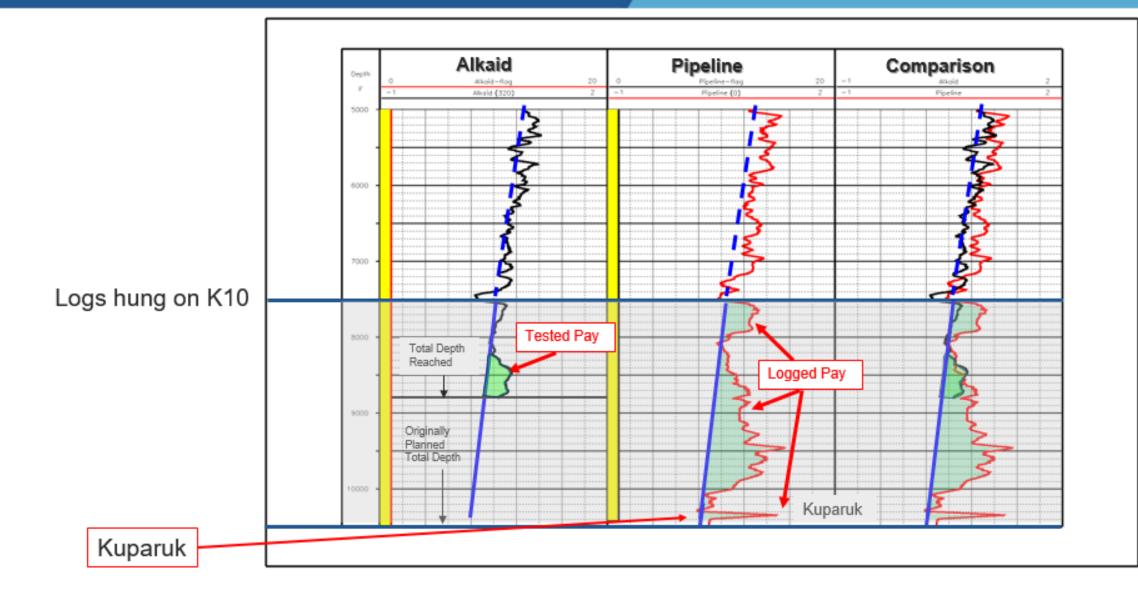
Pipeline State vs Alkaid Resistivity





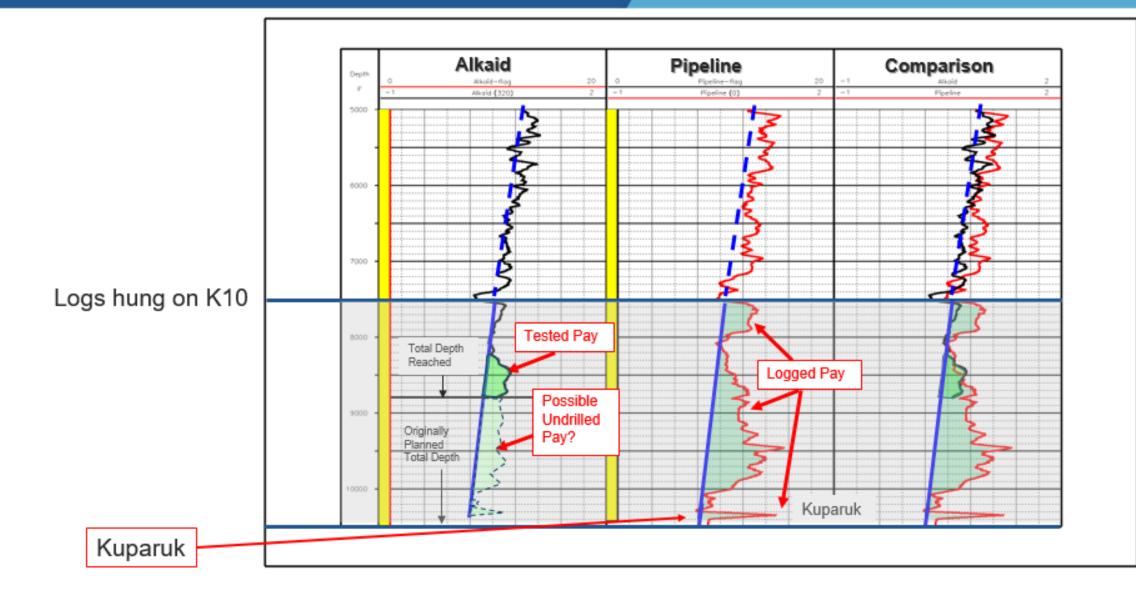
Pipeline State vs Alkaid Resistivity





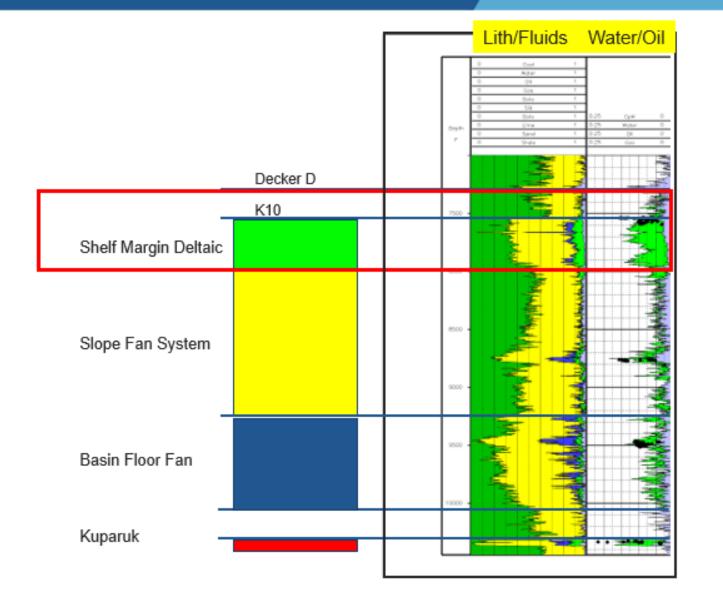
Pipeline State vs Alkaid Resistivity





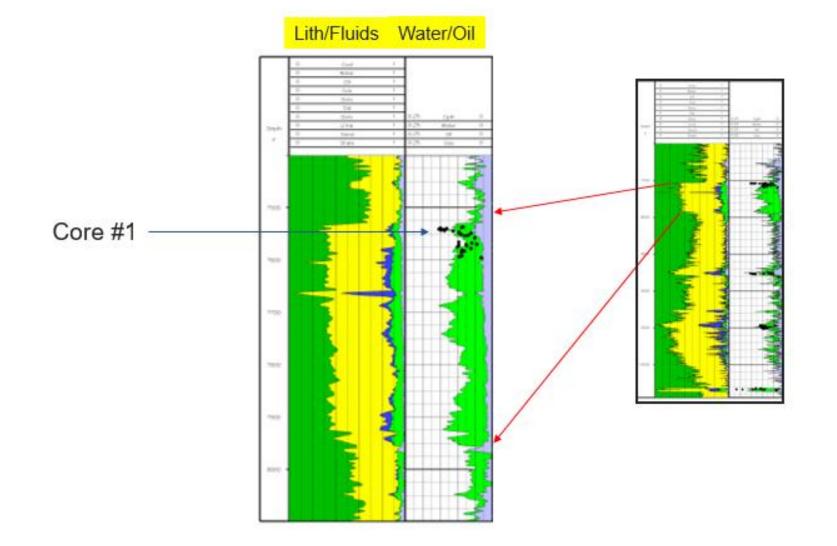
Pipeline State #1 Log Analysis





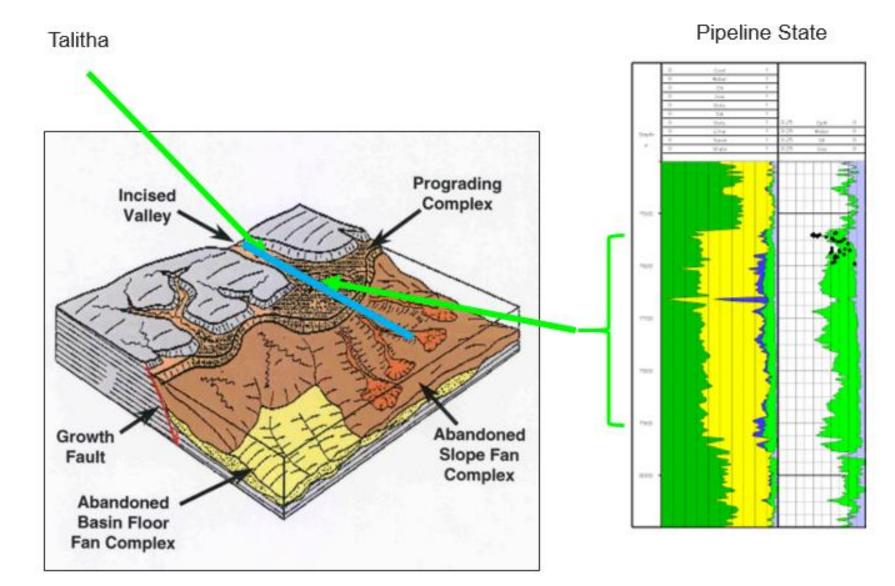
Pipeline State #1 Log Analysis Shelf Margin Deltaic





Shelf Margin Deltaics Trap Definition

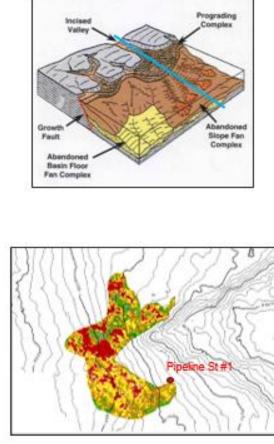


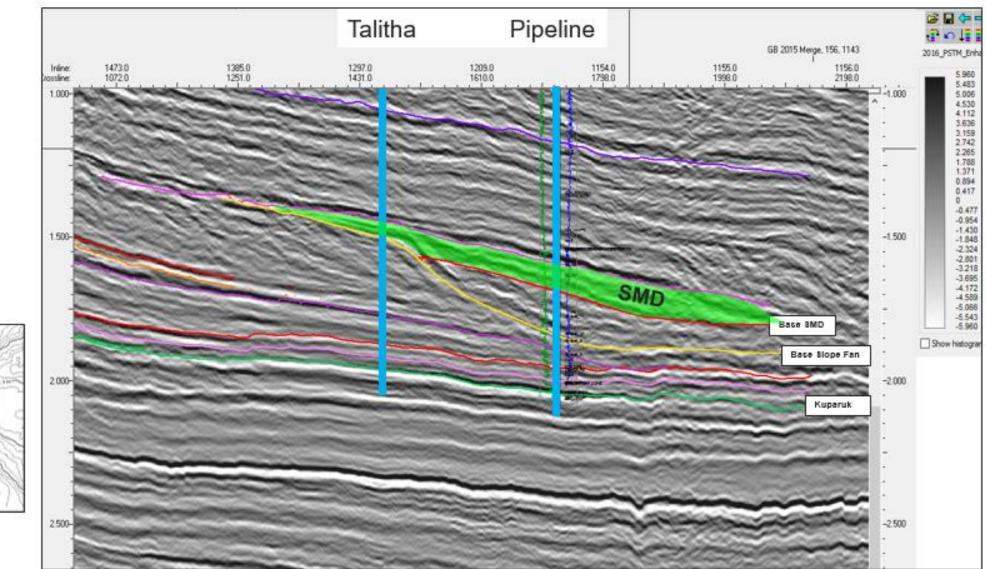


Shelf Margin Deltaics Trap Definition

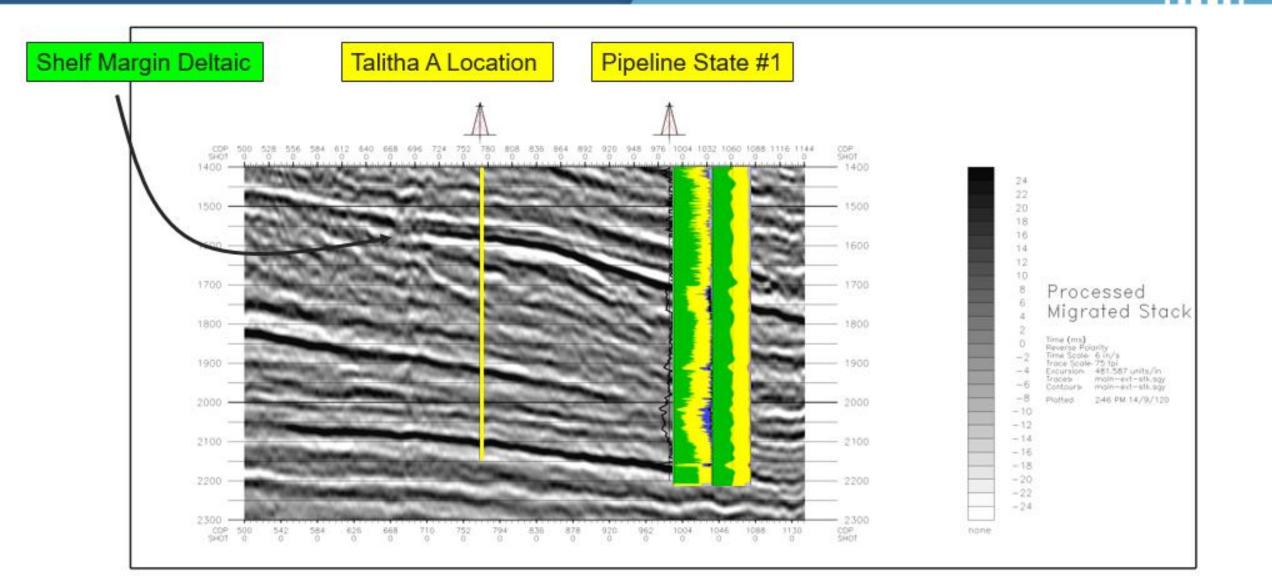
Prestack Time Migration





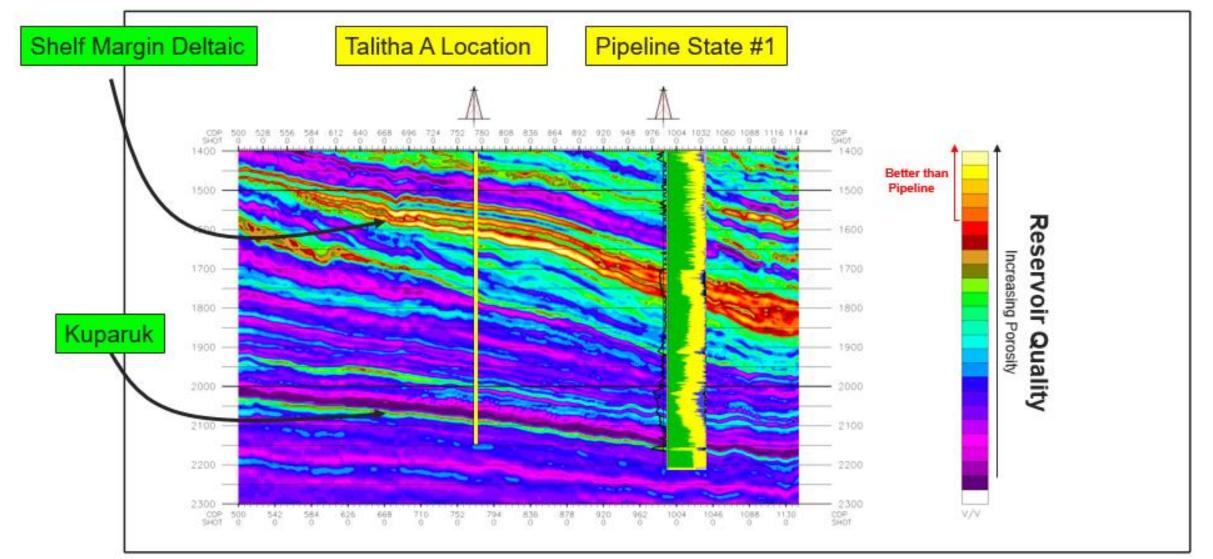


Arbitrary Line Connecting Pipeline State #1 to Talitha Location A



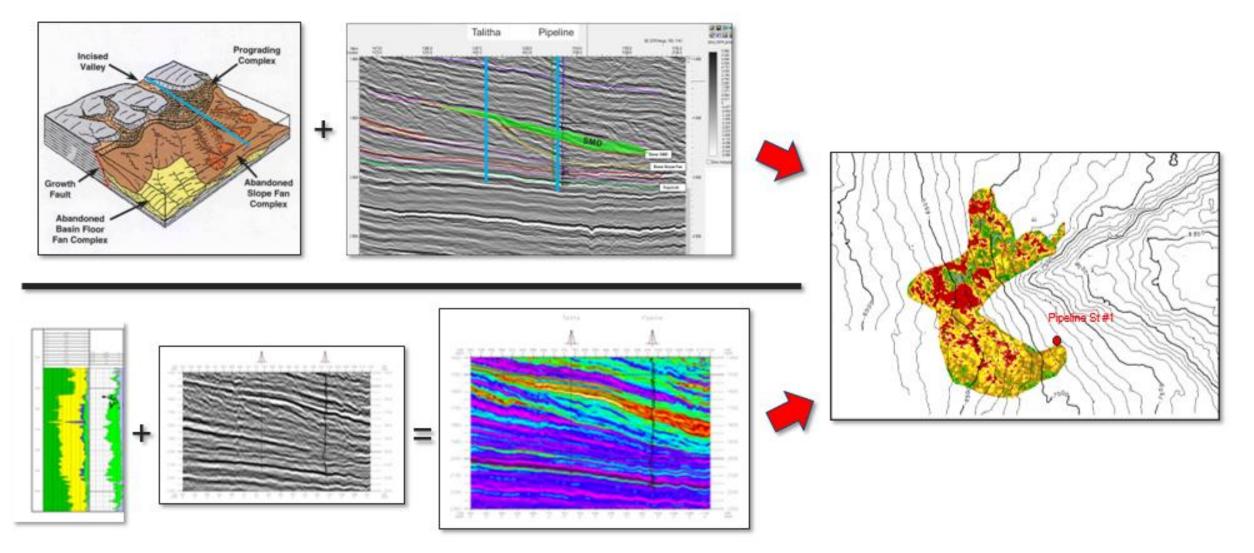
Seismic Petrophysics, Density Porosity Inversion





Shelf Margin Deltaics Trap Definition





Talitha Volumetrics SMD and Kuparuk Deterministic Calculations

Talitha Unit Area: 44,453 acres

SMD	LKA
OIP (BnBBLS)	1.1
Recoverable (BnBBLS)	0.302

Kuparuk	PANR
OIP (BnBBLS)	1.372
Recoverable (BnBBLS)	0.343

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