



Farm-Out Presentation

October 2020

Opportunity Summary

- Gazelle Energy Limited (GEL) is seeking a partner or investor to help develop their Turkish Thrace Basin asset.
- Headquartered in Canada, GEL is a private company with a 100% interest in petroleum license F17-b4. The Pehlivanköy natural gas discovery has >47 Bcf 2P and 207 Bcf of 3P reserves in a market with robust gas pricing (Q2 2020 avg. \$US 6.24/Mcf).
- Additional seismically-defined prospects are estimated by management to hold >1 Tcf of gas.
- A 3rd-party assessment of a subset of three of these prospects were evaluated as having Mean Prospective Resources of 378 Bcf.
- The transaction offers low-risk and low-cost access to a material resource base in stable political and fiscal environment with potentially very large upside.



Reserves and Resources – DeGolyer and MacNaughton

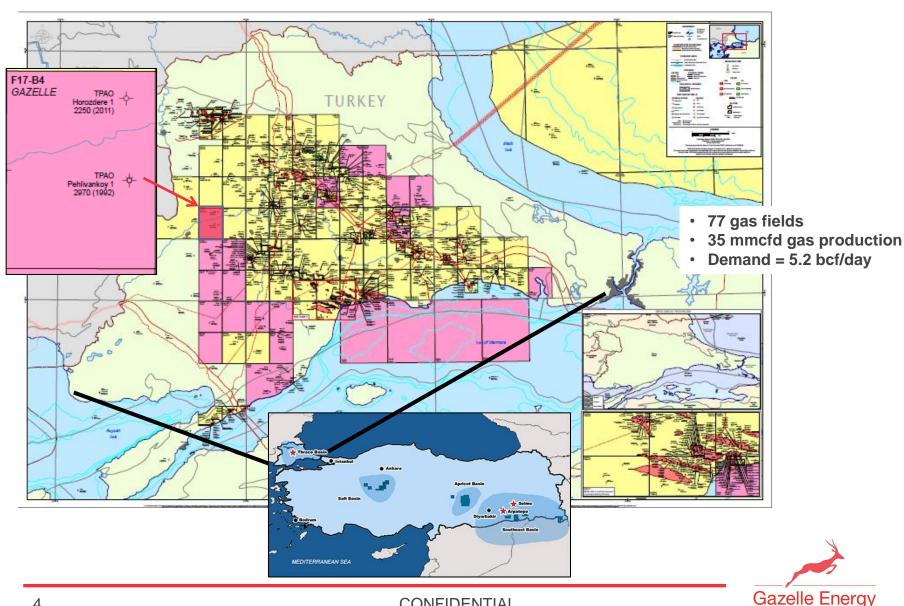
- In addition to the Pehlivanköy gas discovery, there are a number exploration prospects to increase the reserve base;
- D&M prepared estimates for recoverable reserves and prospective resources.

		Recoverable Reserves and Value As at December 31, 2019			
		Condensate (Thous. bbls)	Sales Gas (Million cubic ft)	After-tax Present Worth at 10% (US\$ million)	
1	Proved Developed	0	0		
2	Proved Undeveloped	0	0		
3	Total Proved	0	0		
4	Proved+Probable	347	47,155	66.2	
5	Proved+Probable+Possible	1,749	207,809	539.9	

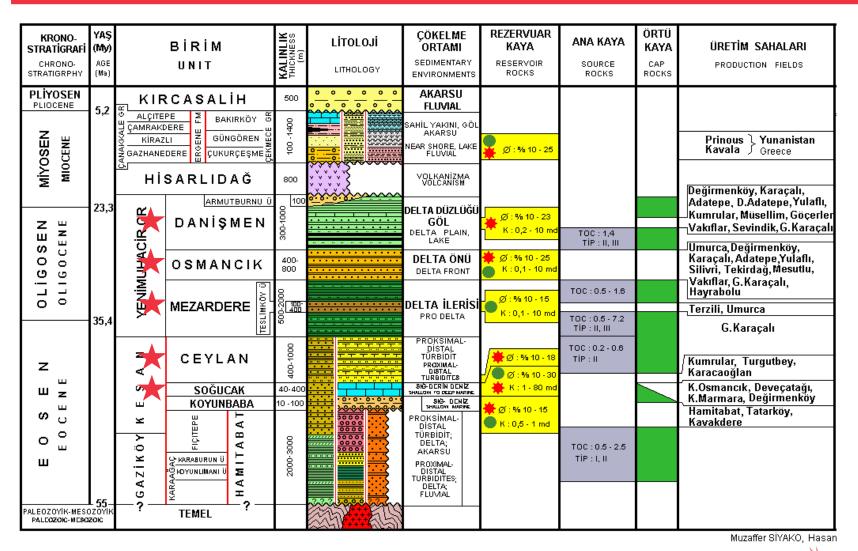
	1U (Low) Estimate	2U (Best) Estimate	3U (High) Estimate	Mean Estimate
Gross Raw Natural Gas Prospective Resources, 10 ⁶ ft ³ Gross Condensate Prospective	238,553	362,601	546,411	378,463
Resources, 10 ³ bbl	1,505	2,793	4,803	3,028

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Thrace Basin Hydrocarbon Fields

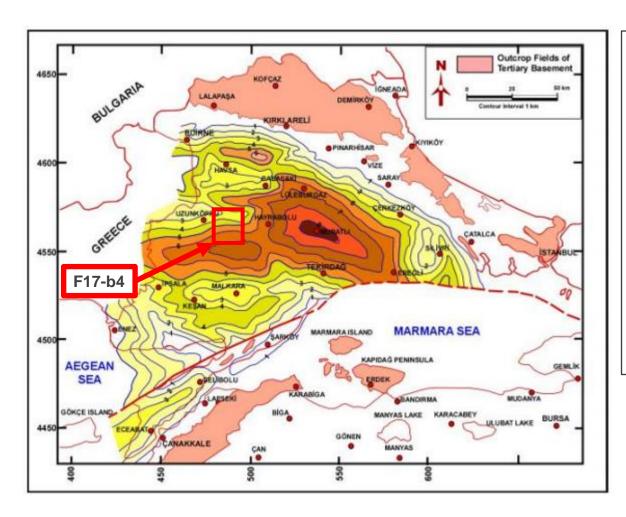


Conventional/Unconventional Prospectivity



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Thrace Basin Tertiary Rock Thickness

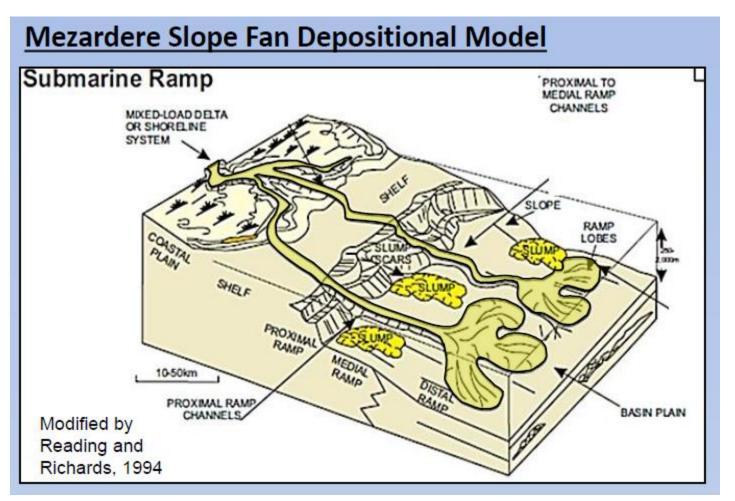


6

- Tertiary basin
- 9,000 m of tertiary age sediments
- Depositional environment
 - ➤ Deltaic sands
 - Turbidite sands
 - Reef development on Paleozoic highs
- Key reservoirs
 - Danismen gas
 - ➤ Osmancik gas
 - ➤ Mezardere gas
 - ➤ Ceylan gas
 - Sogucak oil
 - > Hamitabat gas

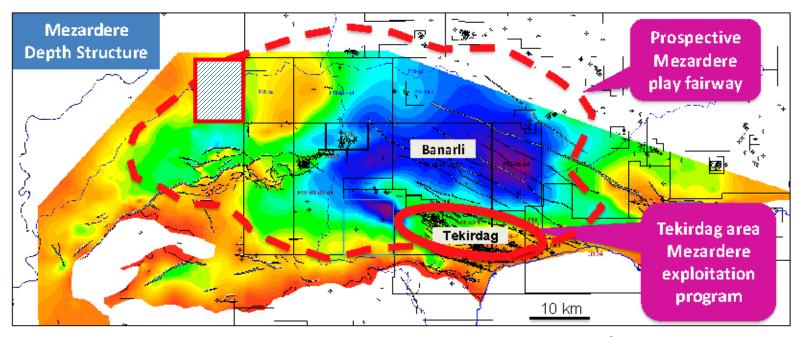


Depositional Model



Source: Norgard, 2016.

Mezardere Play Fairway



Source: Valeura Energy

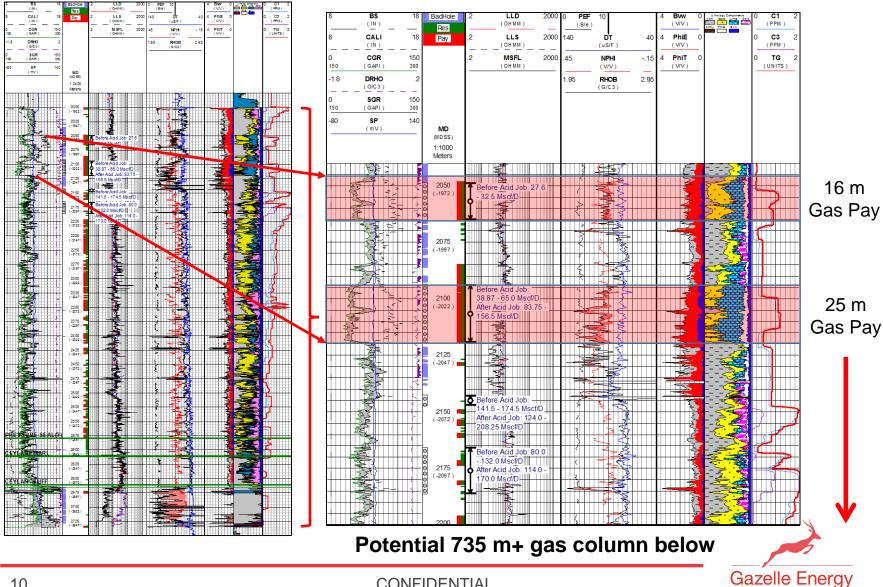
GEL acreage falls almost entirely in VLE's seismically mapped "Prospective Mezardere Play Fairway".



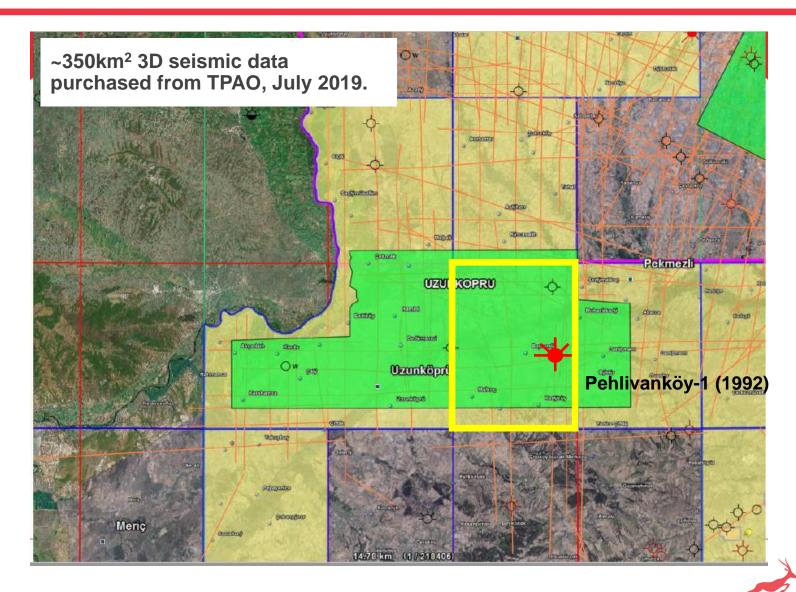
Pehlivanköy-1 Wellhead (1992)



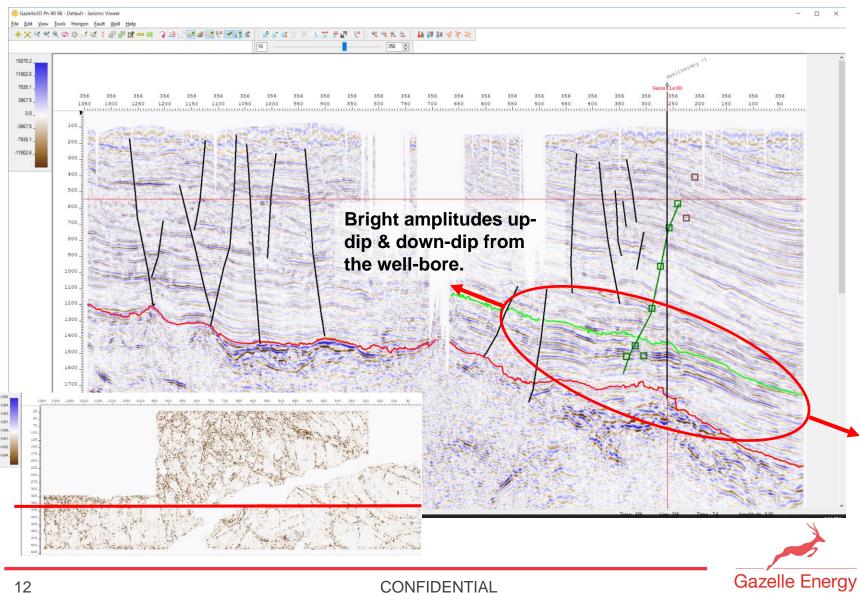
Pehlivanköy-1 with Teslimköy Gas Pay



Uzunköprü 3D Seismic Survey (2005)



W-E Section Through Pehlivanköy-1



Summary of AVO Modeling Results

Modeling for the middle and lower Mezardere sandstones show

- Porous sands are observed to be nearly unconsolidated or barely cemented.
- Encasing shales are fine grained silts possibly with minor amounts of calcite cements (interpretation) making them significantly stiffer than reservoir sands.
- Leading to class IV AVO response.

Fluid Substitution / Porosity Perturbations

- Brine substitution at in-situ porosity demonstrates reflectivity that lies on the background shale/Brine sand line in an AVO Intercept vs Gradient x-plot.
- Lowering porosity caused the sands to be higher impedance then encasing shale – flipping the polarity of the top sand response from a through to a peak.
- Increasing the porosity marginally increases the amplitude of the top sand response but only on near angles/offset traces. Far angle/offset traces remain subdued.
- The gas case at lower porosity demonstrate similar response to the Brine case at the same porosity. High impedance
- At insitu and higher porosity (+5% P.U. to +10% P.U.) the response shows a low to very low impedance contrast to the encasing shale and amplitudes remain strong across near angle/offset to far angle/offset traces consistent with Class IV AVO...

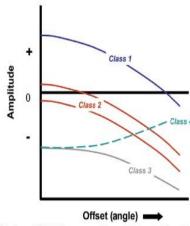


FIG. 2. Classification of AVO Responses Class 1, Class 2, Class 3, and Class 4. (Rutherford and Williams. 1989).

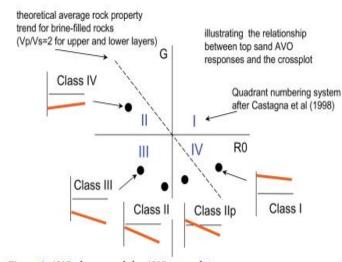
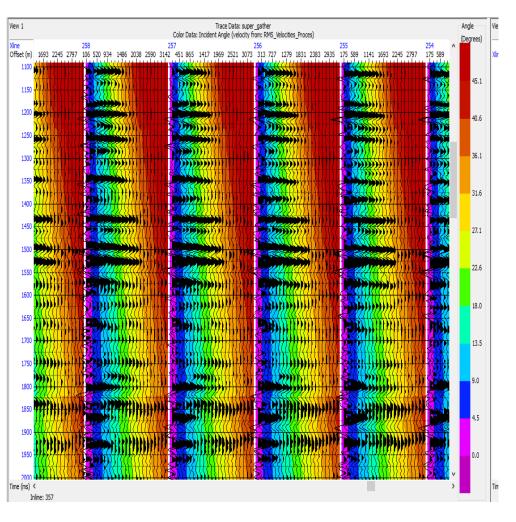


Figure 1. AVO classes and the AVO crossplot.



13 CONFIDENTIAL

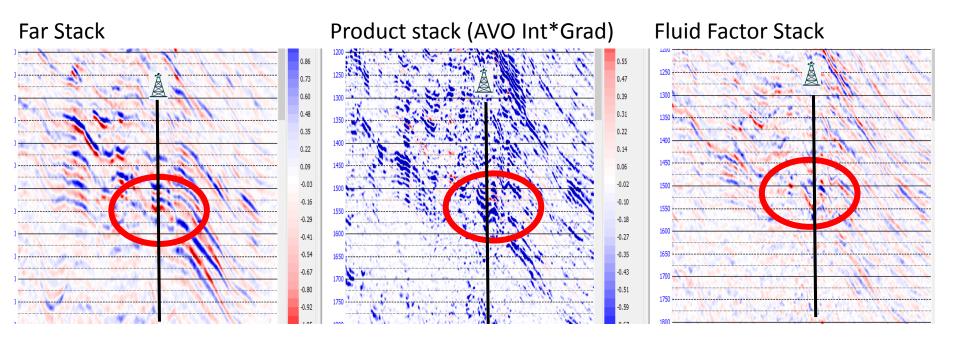
AVO Analysis



- AVO Compliant Gathers
- Pre-stack Time Migrated
- Angles available at target depth (Mezardere)
 - ➤ Angle aperture (5° 40°)
- Color overlay are angles computed from pre-stack velocity analysis
- Supergathers created by using 3x3 bins in the offset domain.



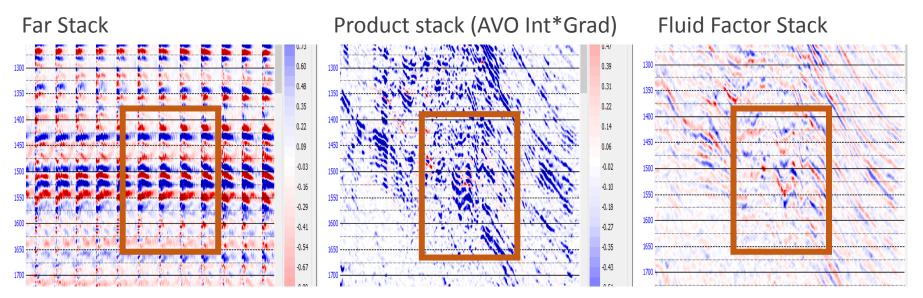
AVO Attribute Analysis at Pehlivanköy-1



Based on modeling suggesting Class iV AVO for sands at the Mezadere level, Far stack, A*B (Intercept * Gradient stack) and Fluid Factor are estimated.

- Product stack estimated using Aki & Richards of AVO intercept and gradient
- Fluid Factor estimated using Fatti's estimation of Rp (P-reflectivity), Rs (shear reflectivity) and Rd (Density Reflectivity)
- All three attributes show good positive indications of gas response at well
- Far stack shows larger areal extent to anomalous behaviour (less sensitive to errors in NMO)
- Product stack shows weak +ve anomaly (consistent with hydrocarbon response around well). Weak response is expected for Class
 IV AVO (stronger for Class III)
- Fluid factor also shows good –ve anomaly (strong blue over red) consistent with anomalous fluid behaviour.

Gather Response at Prospective Location

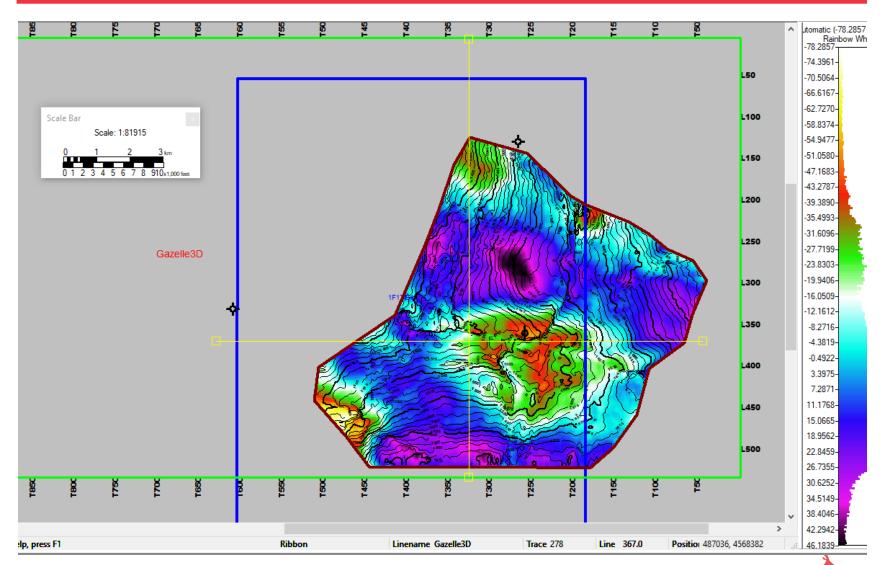


Response of gathers at Pehlivankoy-1 well location

 Strong amplitude with slightly diminishing response to far angles consistent with expected Class IV AVO

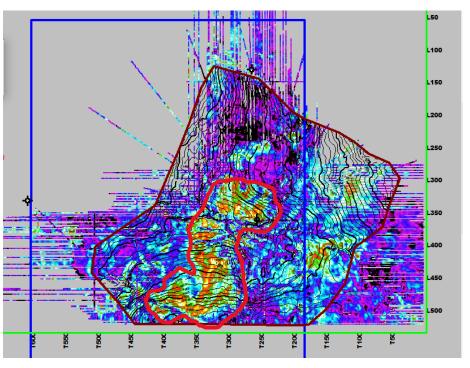


25m Gas Pay Sand - Residual Time Structure Grid (msec)

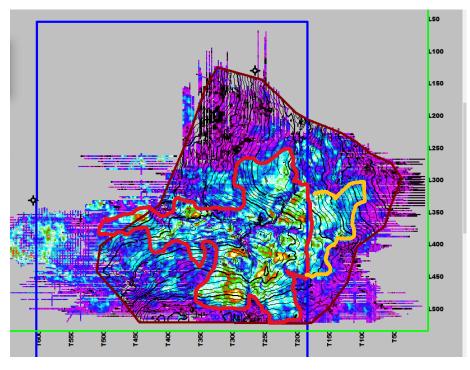


25m Gas Pay Sand - Amplitudes

Post-stack migration full stack



Pre-stack migration far stack (30°-37°)

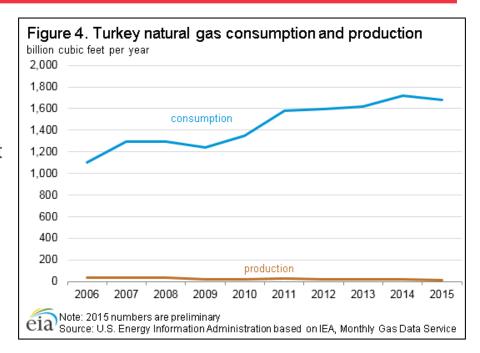


Amplitudes appear to be brighter on post-stack migration but that is likely due to thin bed interference. What becomes obvious is the sand morphology is more apparent on the far stack. It looks more like what we expect for the stratigraphic interval (turbidite).



Turkey – Fiscal Regime and Marketing

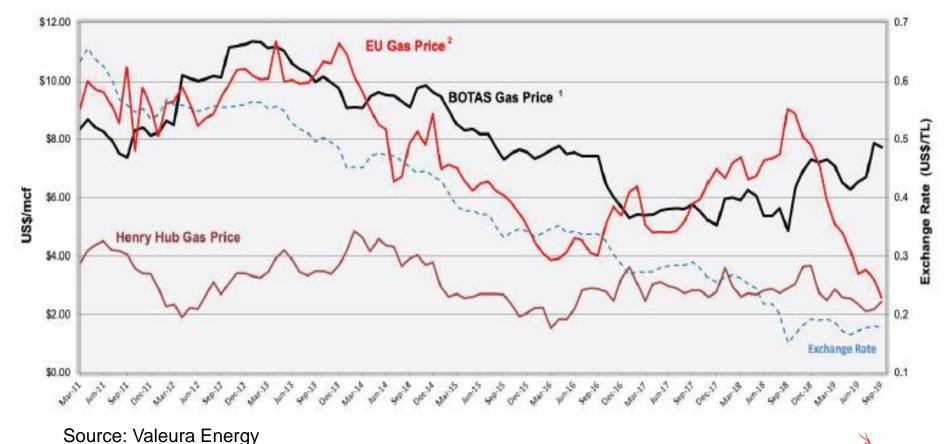
- The term for an exploration license is five years until January 26, 2024.
- In case of discovery, a production lease is granted for 20 years, which may be extended twice for periods not exceeding 10 years at a time.
- Excellent fiscal terms:
 - ▶ 12.5% Royalty
 - 22% Corporate Tax
- Natural gas supply/demand:
 - Turkey produces less than 1% of its own natural gas consumption – a local market.
 - Acreage proximal to several tie-in points to the Turkish domestic grid (approx. 25 km) and multiple export lines to Europe.
 - Natural gas price ~US\$6.00/mcf





Botaş Natural Gas Pricing

 Gas price in Turkish Lira is adjusted regularly to track price of imported gas, primarily from Russia, and offset devaluation of the Turkish Lira.



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Gas Infrastructure

Natural Gas Infrastructure Map



This map is without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries, and to the name of any territory, dity or area.



Work Program Commitments

YEAR 1	Program Amount (\$US)
Legacy Data Purchase (Logs, FWR's, etc)	\$25,000
Legacy 2D Seismic Data Purchase (incl. field	\$25,000
tapes, observer's logs, etc)	1 -7
Digitize well-logs	\$5,000
Reprocess 2D Seismic	\$25,000
Compile technical database	. ,
Delineate structural/stratigraphic	\$75,000
framework	
3rd-Party Reserve/Resource Assessment	\$25,000
Field-work to assess status of Pehlivankoy-1	\$50,000
Sub-Total:	\$230,000
YEAR 2	
Mapping & delineation of prospectivity	\$250,000
Core/Cuttings/Geochemistry	\$25,000
Design/Permit/Acquire/Process 125 km ²	\$2,300,000
new 3D seismic	
Pehlivankoy-1 Sidetrack/Re-entry/Twin	\$2,500,000
Sub-Total:	\$5,075,000
YEAR 3	
Evaluation of Pehlivankoy-1 results and	\$250,000
interpretation/generation of a risked	
lead/prospect drilling inventory	
Sub-Total:	\$250,000
YEAR 4	
Ongoing G&G technical work & operational	\$250,000
support	
Drill 1 Exploration well to the	\$2,500,000
Mezardere/Ceylan	
Sub-Total:	\$2,750,000
YEAR 5	
Evaluation of well results &	\$250,000
relinquishment/conversion	
Sub-Total:	\$250,000
PROGRAM TOTAL:	\$8,555,000







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Appendix



24

Leadership

The principals of Gazelle each have in excess of 30 years of experience and have successfully started multiple exploration and production in Canada, Middle East and worldwide, including the Central Asian Republics of the Former Soviet Union. Gazelle has been actively seeking additional investment projects to build its portfolio in Kazakhstan, Ukraine, Oman, Uzbekistan, Ghana, Nigeria and Algeria.

Ken McNeill

Chairman of the Board of Directors

Ken McNeill is a successful entrepreneur and petroleum landman with 39 years of oil industry experience. As a senior officer and/or director, he has been involved in the early start-up and growth phases of eleven oil and gas companies (nine in Western Canada and two internationally).

Michael Volcko, P.Eng.

President & CEO, Director

Michael Volcko is a reservoir engineer with more than 30 years of petroleum industry experience. He was founder and President of Altius Energy Corporation, a private Canadian oil company which acquired, developed and operated oil production in Kazakhstan. Under Mr. Volcko's leadership, Altius grew to nearly 2000 bbl/d prior to being acquired by Arawak Energy Corporation in 2005. Mr. Volcko is also CEO of Allied Petroleum Exploration, a private Canadian energy company with a large exploration block containing an oil discovery in Oman.

David Kisilevsky, P.Geol.

Executive Vice President - Exploration & COO, Director

David Kisilevsky is a structural geologist and petrophysicist with 26 years' experience in the petroleum industry, and related geosciences. He was previously Vice President, corporate Director and a Principal Shareholder of Petrel Roberston Consulting Ltd.



Leadership

Dr. Nasser al-Araimi

Non-Executive Advisor – Business Development

Graeme Bate

Vice President - Business Development

Graeme Bate is an experienced petroleum executive, with 30 years of varied industry experience around the world. He is a petrophysicist and reservoir engineer by training and worked in several African and European countries as a field engineer and manager with Schlumberger. For many years he was a Partner and the leader of the Canadian oil and gas industry consulting business of PricewaterhouseCoopers LLP.



Thrace Basin Hydrocarbon Fields

