



**Helios Energy Ltd**  
18 September 2018

## Presentation

Please find attached the presentation that Helios Energy Limited (**Helios** or **Company**) is giving to shareholders and investors this week in Australia.

For further information, please contact:

**Richard He**  
**Managing Director**

**ASX Code: HEB**

### **Directors**

Hui Ye  
Non-Executive Chairman  
  
Richard He  
Managing Director  
  
Robert Bearden  
Non-Executive Director  
  
Nicholas Ong  
Non-Executive Director  
  
John Palermo  
Company Secretary

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September 2018



# HELIOS ENERGY LIMITED

PRESIDIO OIL PROJECT  
Presidio County, Texas, USA

TRINITY OIL PROJECT  
Trinity County, Texas, USA



ASX Code: HE8

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# CAPITAL STRUCTURE



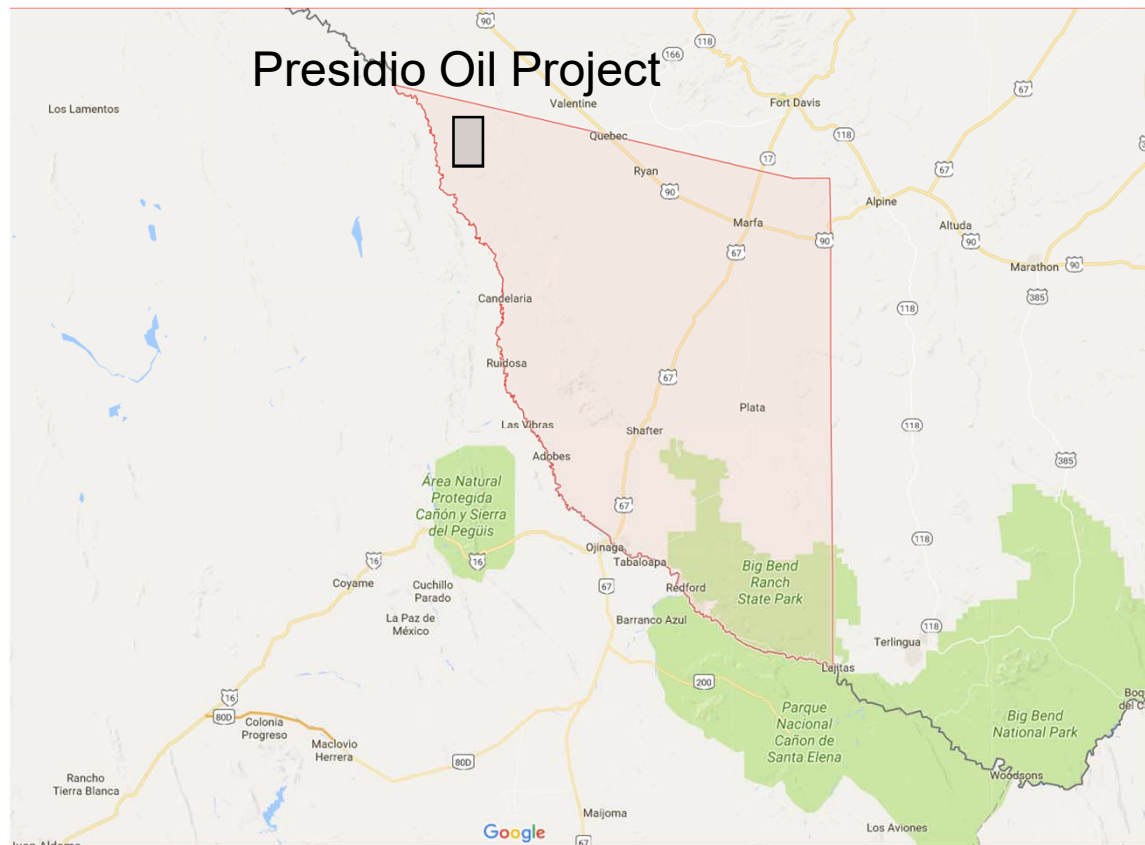
|                                     |               |
|-------------------------------------|---------------|
| Shares                              | 1,415,280,348 |
| Listed Options <sup>A</sup>         | 954,417,877   |
| Performance Rights <sup>B</sup>     | 240,000,000   |
| Cash                                | \$9,200,000   |
| Market Cap at 15 cents <sup>C</sup> | \$212,292,052 |
| Gross Acres of Leases               | 66,776 acres  |

*Note A: Each listed option has an exercise price of 2 cents and expires on 31 December 2021.*

*Note B: Each performance right has an exercise price of only \$0.0001 but cannot be exercised unless the performance milestone is successfully reached on or before 31 December 2021. The performance milestone is average daily production (net to Helios) (pre-royalty) of 1,200 barrels of oil equivalent (boe) per day (as determined by an independent petroleum reservoir engineer) from the Presidio Oil Project.*

*Note C: 15.5 cents was the closing price on 17 September 2018.*

# LOCATION – TEXAS, USA



# NEW OIL DISCOVERY



## New Oil Discovery - Presidio Oil Project (onshore Texas, USA)

- Helios is a 100% pure play Texas, USA oil and gas company
- Helios raised \$18m and listed on ASX in August 2017 at 2 cents per share
- Drilled 2 vertical wildcat wells: Quinn Creek 141 and Quinn Mesa 113 (2 miles apart)
- New Oil Discovery in the Ojinaga Shale Formation
- In June 2018, Helios successfully completed a one stage frack in the Quinn Creek 141 well to test the lower Ojinaga Formation (at 4,800 feet depth)
- Well flowed 260 barrels of oil and 1,345 barrels of completion fluid in 168 hours. The oil produced is good quality, mature, 39 degrees API gravity light oil similar in composition to Eagle Ford Shale oils. Gas was also produced at 456 mcf per day on a 34/64ths of one inch choke
- The observations to date evidence a new oil discovery
- Very encouraging oil and gas production from a single stage frack

# STRATIGRAPHY



| Gulf Coast         |                        | Presidio Oil<br>Project Subsurface                               |
|--------------------|------------------------|------------------------------------------------------------------|
| Series             | Division or Group      |                                                                  |
| Gulf<br>Cretaceous | Austin                 | San Carlos<br>(Olmos)                                            |
|                    |                        | Austin Chalk age<br>equivalent formation<br>(called the Ojinaga) |
|                    | Eagle Ford             | Upper Eagle Ford Shale                                           |
|                    |                        | Boquillas                                                        |
|                    | Comanche<br>Cretaceous | Washita                                                          |
| Eagle Mt SS        |                        |                                                                  |
| George Town        |                        |                                                                  |
| Fredericksburg     |                        | Kiamichi                                                         |
|                    |                        | Edwards                                                          |
| Trinity            |                        | Glen Rose                                                        |
|                    |                        | Hosston/Travis Peak                                              |



# OJINAGA FORMATION



## New Oil Discovery - Ojinaga Formation

- High quality oil
- Typical fracked horizontal wells in west Texas have lateral lengths of between 5,000 feet (25 fracked stages) and 10,000 feet (50 fracked stages) and with each stage having a typical horizontal length of 200 feet
- Logs indicate that the lower interval of the Ojinaga Formation in the Quinn Creek 141 well is highly naturally fractured
- The lower bench of the Ojinaga Formation is approximately 330 feet thick with uniform rock characteristics. It is predominantly black shale with micro laminations of siltstone and fine carbonates
- The lower bench of the Ojinaga Formation shows clearly on both 2D & 3D seismic and is easily mapped
- Helios has no debt
- A fracked horizontal well of 7,000 feet in length (35 stages) would cost US\$7m



# NEW OIL DISCOVERY



## New Oil Discovery - Presidio Oil Project (onshore Texas, USA)

- The frack of the lower bench of the Ojinaga Formation in the Quinn Creek 141 well successfully injected 200,000 pounds of proppant (approximately 1,500 pounds of proppant per foot) and was deployed easily and without complications. At 1,500 pounds of proppant per foot this frack can be considered a “light frack”. Leading oil players in the Permian Basin in west Texas are commonly injecting 3,000 pounds of proppant per foot. Generally speaking, the greater the amount of proppant injected per foot (all other factors remaining equal) the higher the levels of 30 day initial oil production (**30 Day IP**) and estimated ultimate recovery (**EUR**) of oil
- The lower bench of the Ojinaga Shale Formation in the Quinn Creek 141 well has porosity predominately ranging between 4% to 12.5% and permeability up to 0.75  $\mu$ d (micro darcys). Analysis of the Quinn Creek 141 well and surrounding historical wells clearly shows that these porosity and permeability characteristics in Presidio County in the Ojinaga Shale Formation exceed the characteristics present in the Eagle Ford Shale in the Karnes Trough which is the premier sweet spot of the Eagle Ford Shale play

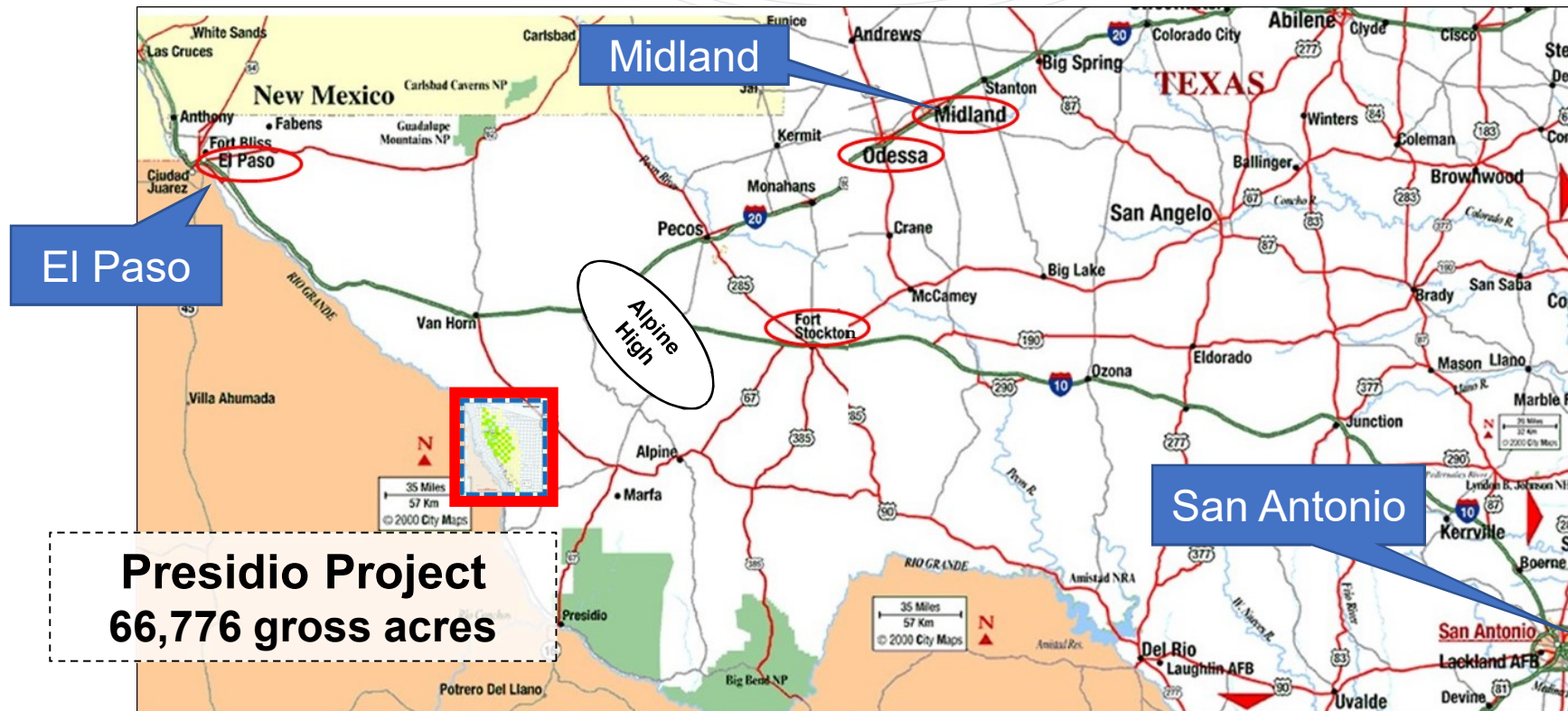
# INFRASTRUCTURE



## Excellent Infrastructure - West Texas, USA

- Access to the Quinn Mesa 113 and the Quinn Creek 141 well locations is provided by a 25 mile unsealed, formed road constructed by Helios that branches off the sealed US-90 highway which carries heavy truck and passenger vehicle traffic
- The Quinn Mesa 113 and the Quinn Creek 141 well locations have access to ample supplies of fresh water provided by local water wells drilled into shallow water aquifers
- The El Paso Oil Refinery located in El Paso, Texas has a processing capacity of 135,000 barrels of oil per day and is located 170 miles from the Presidio Oil Project. Crude oil is sold there by truck delivery
- The Presidio Oil Project is located 250 miles (or 5 hours by truck) from Midland, Texas which is the epicenter of the Permian Basin oil industry. All rigs, supplies and services required for the Presidio Oil Project are sourced from Midland, Texas. Oil production in the Permian Basin is nearing 3,200,000 bopd

# PERMIAN BASIN – SUPPLY SOURCE



|                       |              |
|-----------------------|--------------|
| <b>El Paso</b>        | <b>3 hrs</b> |
| <b>Fort Stockton</b>  | <b>2 hrs</b> |
| <b>Midland/Odessa</b> | <b>4 hrs</b> |

|                    |              |
|--------------------|--------------|
| <b>Houston</b>     | <b>9 hrs</b> |
| <b>San Antonio</b> | <b>6 hrs</b> |
| <b>Abilene</b>     | <b>5 hrs</b> |

# LARGE LEASE HOLDING



## 66,776 Gross Acres

- Helios has been actively leasing in the Presidio Oil Project area
- Excluding the initial 6,400 acres (4,480 net acres) of the Presidio Oil Project in which Helios will earn a 70% WI upon completing the drilling of 3 wells, Helios has been actively leasing additional acres in close proximity to these initial 6,400 acres and now has a 70% WI in a further 26,096 acres. In addition, Helios has a 70% WI in a further 34,280 acres which have been placed under call option to lease
- In total Helios has under contract a 70% WI in a total of 66,776 acres (46,743 net acres)
- Helios will acquire more leases in the Presidio Oil Project area in the near future
- Ojinaga Formation play area is substantial. It is approximately 200,000 acres in size

# NEW SEISMIC PROGRAMME



## US\$600,000 – 39 Miles of New 2D seismic

- Helios has to date shot, processed and interpreted a total of 17 miles of 2D seismic and 2 square miles of 3D seismic across the Presidio Oil Project. The Company's 3D seismic programme was acquired over 2 square miles covering the Quinn Creek 141 well and the Quinn Mesa 113 well and the area in between the 2 wells. Recent geological surface fieldwork has supported the current seismic interpretation and confirmed that an extensive area of Ojinaga Shale Formation and Eagle Ford Shale Formation are present throughout Helios' leases.
- The decision by Helios to focus its resources on its new oil discovery in the lower interval of the Ojinaga Formation has resulted in the decision to acquire further 39 miles 2D seismic at a cost of US\$600,000.
- This 2D seismic program will be shot, processed and interpreted prior to the commencement of the drilling of the third well in the Presidio Oil Project.





# QUINN CREEK 141 WELL – FRACK JOB





# QUINN CREEK 141 WELL



Valley floor runs north-south  
Picture taken looking north-east



# TRINITY OIL PROJECT

## TRINITY COUNTY, TEXAS, USA



### Trinity Oil Project (onshore unconventional oil project)

- The Trinity Oil Project is comprised of 3,128 net acres (100%WI) owned by Helios. The area is located about 100 miles northwest of Houston, and can be considered as a northeastward extension of the very well documented South Texas Eagle Ford trend.
- There has been increased interest and activity in the Woodbine, Eagle Ford, Buda, and Glen Rose formations (“Eaglebine” and “BudaRose”) in the Trinity, Houston and Walker county areas.
- Helios has the choice of developing the Trinity Oil Project with fracked horizontal wells into the Lower Woodbine, or vertical wells with individual completions in the target intervals. An additional alternative would be to drill vertical wells and then to comingling all the completed fracked intervals into a single production stream.
- Cost of a vertical, fracked well which comingles all the completed fracked intervals into a single production stream is US\$3.5m (100%WI).

# EXPERIENCED OIL PEOPLE



Helios has an office in Houston, Texas and a strong and experienced team of oil people with extensive and successful experience in the oil business in Texas, USA.

## Richard He

- Richard He is the Managing Director of Helios. He is based at the Company's Houston office.
- Richard He is an entrepreneur and venture capitalist in natural resources with a particular focus on oil and gas.
- Mr He was an investment banker and venture capitalist based in Shanghai and Beijing for more than 12 years with a capital markets practice and investment focus on Chinese equities listed on the major Chinese stock exchanges.
- Over the past 11 years, he has been based in Houston, Texas and has invested in and managed exploration and production shale plays in Texas, USA.
- Mr He is noted for his successful development of the Halliday Oil Field in the Woodbine tight sands play located in East Texas in which he was a joint venture participant. After drilling 14 successful fracked horizontal wells, the joint venture participants sold the Halliday Oil Field to Halcon Resources for US\$520m

# EXPERIENCED OIL PEOPLE



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## Neville Henry

- Geologist. Born in Sydney. Has been based in Houston, Texas for 29 years
- 44 years in the worldwide oil and gas industry
- He has directly led oil exploration teams responsible for oil and gas discoveries across 6 basins over 5 countries for total discovered reserves of more than 4 billion barrels of oil
- Worked for Anadarko for 12 years most notably as International Exploration Manager and Worldwide Business Development Manager. During this 12 year period was part of the core team that built this non-US oil production business from 25,000 bopd to 400,000 bopd
- Neville has extensive operational experience in Texas and the USA in general. Extensive experience with Eagles Ford Shale, Gulf Coast and Permian Basin reservoirs
- Proven oil finder
- Along with Peter Allchurch brought the Eagle Ford Shale oil project to Aurora Oil and Gas (which was bought in 2014 at an EV of \$2.6b)
- Along with Peter Allchurch introduced the Presidio Oil Project and the Trinity Oil Project to Helios

# EXPERIENCED OIL PEOPLE



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## Hui Ye

- Chairman of Helios
- Largest shareholder of Helios (473,998,197 shares)(33% shareholding)
- Chairman and President of Beijing Chunhui Yuan Group which is a large private company with extensive interests in real estate, hotels, natural resources, education and entertainment.
- Hui Ye is a graduate of Shenzhen University in 1988.

# LOOKING FORWARD



## Near Term Events

- **New Seismic Programme** – shoot, process and interpret a further 39 miles of 2D seismic
- **Lease More Acres** – buy further acres in the Presidio Oil Project
- **Drill Third Well** – drill a third well into the Presidio Oil Project.
- **Add Value to Acres** – through successful fracked drilling of the Ojinaga Formation





# Thank You

CONTACT US

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