



ASX Release

19 October 2021

September Quarterly Activity Report

Highlights – Certified Independent Resources Estimate for Napoleon Completed by ERCE

- ERCE has completed independent estimates of Prospective Resources and geological chance of success (COS) for the Napoleon Prospect, located in the Dampier basin, North-West Shelf
- TMK holds the right to a 20% interest in Napoleon comprising production licence WA-8-L at depths below 2,700m (see note 2 below)
- The Mean Gross Unrisked Prospective Resources for the main target (197T) are **1,528 Bcf** of gas and **66 million barrels** of condensate
- ERCE attributes a 24% geological chance of success for 197T
- In the success case, ERCE attributes a phase risk of 60% gas / 40% oil to the three prospective intervals above the 197T. These intervals are significant oil targets, which adds to the overall prospectivity
- **The full ERCE Independent Report can be found on the Company's website at www.tamaska.com.au**
- TMK and the operator Skye Napoleon will immediately apply for a drilling permit for an exploration well at Napoleon
- TMK will convert its 20% shareholding in Skye Napoleon to a direct 20% working interest in the project under a joint operating agreement
- Skye Napoleon will proceed with a farm out of its 80% interest in the project in order to fund the drilling of an exploration well
- Tamaska had a net cash position of approximately A\$2.27 million at 30 September 2021 (no debt)

ERCE has certified undiscovered recoverable resources (Prospective Resources) and geological chance of success for multiple stacked prospective intervals at Napoleon, with the principal target being the 197T interval. The Prospective Resources and geological chance of success for each reservoir interval are summarised below.

Table 1 – Gross Unrisked Prospective Resources and COS, Napoleon Prospect

Prospect Interval	Unrisked Gross Prospective Gas Resources (Bscf)				Unrisked Gross Prospective Condensate Resources (MMstb)				Chance of Geological Success
	1U	2U	3U	Mean	1U	2U	3U	Mean	
Napoleon 176S	23	103	456	201	0.7	3.9	19.6	8.5	19%
Napoleon 182S	22	100	443	196	0.7	3.7	19.2	8.4	20%
Napoleon 186S	20	96	435	190	0.6	3.6	18.6	8.1	26%
Napoleon 197T	149	730	3,484	1,528	5.1	28.2	151.4	66.1	24%

Table 2- Net Working Interest to Tamaska, Unrisked Prospective Resources and COS, Napoleon Prospect

Prospect Interval	Unrisked Gross Prospective Gas Resources (Bscf)				Unrisked Gross Prospective Condensate Resources (MMstb)				Chance of Geological Success
	1U	2U	3U	Mean	1U	2U	3U	Mean	
Napoleon 176S	5	15	44	30	0.1	0.6	1.9	1.3	19%
Napoleon 182S	4	15	43	29	0.1	0.6	1.9	1.2	20%
Napoleon 186S	4	14	42	28	0.1	0.5	1.8	1.2	26%
Napoleon 197T	30	107	324	223	1	4.1	14.1	9.7	24%

1. Gross volumes include those outside of licence WA-8-L
2. Net Working Interest volumes have been limited to licence WA-8-L and assume a conversion of Tamaska's 20% shareholding of the Napoleon Deep project into a direct working interest and has been applied deterministically based on GRV
3. Net Working interest = Gross prospective resources x On-block% x block interest%
4. ERCE has made estimates only for the most likely hydrocarbon phase expected in the success case. The COS shown here exclude phase risk which ERCE has estimated to be 60% gas (40% oil) for the 176S, 182S and 189S intervals and 90% gas (10% oil) for the 197T interval.
5. The Prospective Resources have also not been adjusted for the chance of development (COD). Quantifying the COD requires consideration of both economic contingencies and other contingencies, such as legal, regulatory, market access, political, social license, internal and external approvals and commitment to project finance and development timing.

The estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

TMK's technical advisor Dariusz Jablonski said:

"We engaged ERCE to provide us with an independent assessment of Napoleon and are delighted that it has confirmed a world class gas condensate target. The mean Gross Unrisked Prospective Resources for the primary 197T target of 1.5 Tcf of gas and 66 million barrels of condensate confirms in TMK's view a large, exciting exploration play located in shallow water right in the heart of the North-West Shelf. Proximity to existing infrastructure substantially increases the potential viability.

TMK believes the seismic inversion and amplitude distribution at 197T provide hydrocarbon and gas/water contact indications that favour the 3U outcome, comprising gross unrisked volumes of **3.5 Tcf** of gas and **151 million barrels** of condensate. This larger closure has structural analogues such as the lower Jurassic Caribou-Gnu-Reindeer and potentially Corvus discoveries and represents a very large upside case."

A dry hole cost (prepared by AZTEC) of a 4,900m exploration well intersecting four Napoleon targets is estimated at AU\$41.1 million.

The ERCE report assesses the chance of geological success (discovery) but not the chance of development which requires consideration of economic and other contingencies, involving appraisal and feasibility work which would need to be undertaken post discovery.

It is too early to properly estimate these factors. However, given the location and potential size of Napoleon, TMK considers that there would be a high chance of development in the event of a 2U or better discovery in the 197T target.

Summary of the Napoleon Prospect

- Napoleon is located in WA-8-L, in the premier Barrow-Dampier sub-basin on Australia's North West coast. The lead is an upthrown tilted fault block with closure in the prolific North Rankin, Brigadier and Mungaroo Formations.
- Recent seismic mapping and geo-technical studies suggest a large unrisks volume of hydrocarbons, a target of similar significance to the Dorado, Wanaea and Angel discoveries.
- Extensive 3D seismic reprocessing by Downunder Geosciences (to improve the imaging of the structure) and basin analysis studies have been completed.
- 3D geochemical modelling has been completed, which evaluated the composition of hydrocarbons and assessed their migration and entrapment within the structure.
- Results of the reprocessed 3D seismic indicate evidence of reservoir and hydrocarbon charge (including the presence of hydrocarbon escape features).
- The geochemical modelling suggests (mostly) in-situ hydrocarbon charge from Lower to Middle Jurassic (mostly) marine source rocks that remained in the liquid maturity window for a significant period of geological time.
- Mapping of the reprocessed seismic data indicates strong amplitudes associated with the North Rankin, Brigadier and Mungaroo Formation reservoirs. In contrast, the overlaying seal facies are dominated by low amplitudes on top and on the downthrow of the structure.
- The main target is estimated to be at a total vertical depth of approximately 4,500 meters, located in about 80 meters of water depth. Accordingly, the target can be drilled by a jack-up rig.
- Detailed well planning and cost estimates for a 4,900m exploration well to intersect the four targets has been undertaken, with a preliminary dry-hole cost estimate of AU\$41.1 million.
- Additional targets in the overlying Athol Formation and Murat Siltstone also exist above the primary objective. These may offer additional prospectivity within the Lower to Middle Jurassic succession and are being evaluated.
- Quantitative Interpretation (QI) techniques have been used to evaluate the presence of effective reservoirs and likely fluid composition.

- The seismic reprocessing, basin analysis and geochemical modelling has been completed, and the subsurface interpretation has been updated. An independent risked prospective resource estimate has been calculated in accordance with SPE-PRMS.

*ERCE is an independent energy consulting group that provides certified Reserves and Resources estimates for international stock exchanges. The work performed by ERCE on behalf of TMK and Skye Napoleon is in accordance with the Petroleum Resources Management System 2018 (PRMS). The information in this announcement which relates to Prospective Resources is based on, and fairly represents, information and supporting documentation prepared by, or under the supervision of Dr Stewart Easton, a qualified petroleum reserves and resources evaluator, employed by ERCE and a Fellow of the Geological Society and a member of the Society of Petroleum Engineers.

Existing Projects

West Klondike Project, Wilbert Sons LLC #1 well, Iberville Parish, Louisiana (11.36% Working Interest)

Tamaska participated in the drilling of the West Klondike discovery well in late 2012. The well commenced producing gas from the lower Nod Blan on 4 September 2014. Once the lower gas zones were produced, the Operator commenced production of the remaining Lario oil zone.

In 2017, the Operator performed a small hydraulic frac in the Lario, with encouraging results of over 100 bopd in short term testing. The well was put on jet pump to assist with oil lift, and placed back on production. In July 2018, the Operator ran a pressure survey on the well and the reservoir appeared to be close to initial pressure, indicating constrained flow into the well, potentially due to frac sand over the completion. Plans to treat the well in an endeavor to improve production are subject to economic conditions. At the present, the field is producing intermittently and sales occur once the tanks fill.

The field is potentially large enough for another production well, but the decision to drill is contingent on improved production performance from the Lario, and improved economic conditions.

	December 2020 Quarter	March 2021 Quarter	June 2021 Quarter	September 2021 Quarter
	<i>Estimate*</i>	<i>Estimate*</i>	<i>Estimate*</i>	<i>Estimate*</i>
Net Produced Oil	5 bbls	5 bbls	5 bbls	5 bbls
Revenue net of sales tax and royalty	~\$200	~\$200	~\$250	~\$300

*The Company is awaiting final sales off take figures from the Operator.

Tenement Summary

At 30 September 2021 the Company held the following interests in tenements:

Project	Percentage Interest	Number of Tenements
Fusselman Project	12.5%	7
West Klondike	11.36%	6

Related Party Payments

During the quarter ended 30 September 2021, the Company made payments of \$39,000 to related parties and their associates. These payments relate to Directors fees.

Cash Position

TMK had approximately A\$2.27 million of working capital at 30 September 2021.

For and on behalf of the Board

For further information, please contact:

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This announcement was authorised for release by:

*Brett Lawrence
Managing Director*

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

Tamaska Oil & Gas Limited

ABN

66 127 735 442

Quarter ended ("current quarter")

30 September 2021

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	-	-
1.2 Payments for		
(a) exploration & evaluation (if expensed)	-	-
(b) development	-	-
(c) production	-	-
(d) staff costs	(48)	(48)
(e) administration and corporate costs	(14)	(14)
1.3 Dividends received (see note 3)	-	-
1.4 Interest received	-	-
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Government grants and tax incentives	-	-
1.8 Other (provide details if material)		
1.9 Net cash from / (used in) operating activities	(62)	(62)

2. Cash flows from investing activities		
2.1 Payments to acquire:		
(a) entities		
(b) tenements		
(c) property, plant and equipment		
(d) exploration & evaluation (if capitalised)	(58)	(58)
(e) investments		
(f) other non-current assets		

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities		
	(b) tenements		
	(c) property, plant and equipment		
	(d) investments		
	(e) other non-current assets		
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (provide details if material)		
2.6	Net cash from / (used in) investing activities	(58)	(58)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities		
3.3	Proceeds from exercise of options	-	-
3.4	Transaction costs related to issues of equity securities or convertible debt securities		
3.5	Proceeds from borrowings		
3.6	Repayment of borrowings		
3.7	Transaction costs related to loans and borrowings		
3.8	Dividends paid		
3.9	In-specie Capital Distribution	-	-
3.10	Net cash from / (used in) financing activities	-	-

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	2,397	2,397
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(62)	(62)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(58)	(58)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	-

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	2,277	2,277

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	2,277	2,397
5.2	Call deposits	-	-
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	2,277	2,397

6. Payments to related parties of the entity and their associates

- 6.1 Aggregate amount of payments to related parties and their associates included in item 1
- 6.2 Aggregate amount of payments to related parties and their associates included in item 2

**Current quarter
\$A'000**

39

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

7. Financing facilities	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
<i>Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.</i>		
7.1 Loan facilities	-	-
7.2 Credit standby arrangements		
7.3 Other (please specify)		
7.4 Total financing facilities		
7.5 Unused financing facilities available at quarter end		-
7.6 Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.		

8. Estimated cash available for future operating activities	\$A'000
8.1 Net cash from / (used in) operating activities (Item 1.9)	62
8.2 Capitalised exploration & evaluation (Item 2.1(d))	58
8.3 Total relevant outgoings (Item 8.1 + Item 8.2)	120
8.4 Cash and cash equivalents at quarter end (Item 4.6)	2,277
8.5 Unused finance facilities available at quarter end (Item 7.5)	-
8.6 Total available funding (Item 8.4 + Item 8.5)	2,277
8.7 Estimated quarters of funding available (Item 8.6 divided by Item 8.3)	19
8.8 If Item 8.7 is less than 2 quarters, please provide answers to the following questions:	
1. Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
Answer:	
2. Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
Answer:	
3. Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
Answer:	

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 19 October 2021

Authorised by: Brett Lawrence, Director

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.