



19 August 2021

Thorsby 3 Well Drilling Update - Sparky Formation - Leo 1, 2, 3

- The 3 well Leo drilling program has commenced in the Sparky Formation, Thorsby area of Alberta, Canada
- The Leo #1 is presently at ~2,000m measured depth. Intermediate casing has been set and the well is drilling ahead within the Sparky Formation. The well is expected to complete drilling this weekend, following which Leo #2 will commence drilling from the same pad
- Leo's 1, 2 and 3 wells (3rd Generation) Sparky Wells have been optimised and will average ~3,800m MD (400m longer) and 53 fracture stages averaging 1.0 tonnes of sand per meter over the horizontal length
- IP90 production rates per well are ~274-460 bbl/d with NPV10 of C\$6.5-\$8.8 million based on EUR's of 352,000 – 462,000 boe with 80% oil
- Wells average approximately 10 days each to drill and will be subsequently fracture stimulated as
 part of the completion process. All wells are adjacent to Calima's oil processing facility. This pad
 contains two of the best performing Thorsby Sparky wells
- These wells are considered development in nature with low geological risk
- An update of the 4 Gemini IP30 well rates will be provided at the end of August 2021

Jordan Kevol, Calima CEO, states that:

"We are very excited to be back drilling in the Thorsby area. The last well drilled in this area was in January 2019. We are drilling near some of our best wells to date and planning to implement a larger frac intensity relative to the previous wells with improved economics expected. The 3 wells have minimal on-lease tie-in's and will flow into our existing oil processing facilities that have ample room for the hydrocarbons. We have a lot of running room in the Thorsby Sparky play, and these wells are expected to be very impactful to our bottom line with IP90's of up to 460 barrels of oil per day."

Leo #1 Well, 100% WI

Leo #1 has set intermediate casing at 1,546m measured depth, and is drilling ahead in the horizontal leg portion in the Sparky Formation. The well encountered drilling complications during the intermediate section and subsequently was side-tracked. The well is expected to complete drilling this weekend.

The rig will then be skidded over ~15 meters and the next Sparky well, Leo #2 will spud. Leo #3 will be spudded immediately following Leo #2 from the same pad.

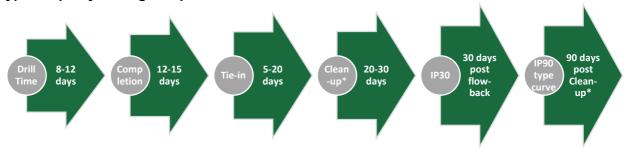
The completion and fracture process for the 3 Leo wells is expected to begin in the third week of September with initial production in late October anticipated. All wells are being drilled from a single pad location adjacent to the Company's oil processing facility. This pad contains two of the best performing Thorsby Sparky wells which have produced greater than 300 mbbl oil and 370 mboe since July 2018.

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Typical Sparky drilling and production timeframes



^{*} Clean-up is the period that water and drilling fluids are recovered from the completion and at after which time commercial hydrocarbons begin to flow from the reservoir.

Sparky Economics

Calima has drilled 11 Sparky wells to date, of this total the tier 1 wells (2nd Generation) averaged ~3,400m measured depth (MD) and 36 fracture stages averaging 0.8 tonnes of sand per meter over the horizontal length costing ~\$2.5 million on average.

Leo 1, 2 and 3 wells (3rd Generation) Sparky Wells have been optimised and will average ~3,800m MD (**400m longer**) and 53 fracture stages averaging 1.0 tonnes of sand per meter over the horizontal length. The optimised wells are budgeted for \$3.2 million per well and the Company anticipates IP90 rates of 460 boe/d (80% oil) and cumulative production of 462,000 boe.

Well paybacks are 5-10 months and the NPV at 10% is ~C\$6.5 - \$8.8 million. Well economics¹ are summarised below:

| | | | Sparky Type Curve Economics | | |
|----------|--------------------------|----------|---------------------------------|---------------------------------|--|
| | | | Tier 1 \$70 WTI ² | Tier 2 \$70 WTI ³ | Illustrative 40 T/Stage \$70 WTI ⁴ |
| Щ | EUR – Oil & Liquids/Well | Mbbl | 318 | 283 | 360 |
| RESOUR | | MMcf | 543 | 412 | 614 |
| | Total EUR | Mboe | 409 | 352 | 462 |
| Υ. ΥΥ | % Liquids (Oil & NGLs) | % | 78% | 80% | 78% |
| | Avg. Royalty Rate | % | 17% | 17% | 17% |
| | CAPEX/Well | \$M | C\$2,500 | C\$2,500 | C\$3,200 |
| | F&D | \$/boe | C\$6.11 | \$7.10 | \$6.93 |
| S | BTAX IRR | % | >500% | 442% | 270% |
| 딭 | BTAX NPV10 | \$M | C\$7,810 | C\$6,516 | C\$8,772 |
| Q | P/I 10% | X | 3.1 | 2.6 | 2.7 |
| CONOMI | Payout | Mths | 5 | 6 | 10 |
| 8 | IP90 Oil (Wellhead) | bbl/d | 336 | 274 | 460 |
| | Netback (Year 1) | \$/boe | C\$42.00 | C\$43.50 | C\$41.20 |
| | Recycle Ratio | Х | 6.9 | 6.1 | 5.9 |
| | Break-even to WTI | US\$/bbl | US\$34.00 | US\$35.10 | US\$33.22 |

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I Refer to the Reserve Evaluation – Blackspur Oil Corp. Acquisition announcement dated 25 February 2021 (pages 15-24). The Company is not aware of any new information or data that materially affects the information included in the referenced ASX announcement and confirms that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. Flat pricing: US70/bbl WTI, C\$2.50/GJ AECO, US\$12/bbl WCS differential and 1.25 CAD or AUS/USD. Break-even prices include DCET and the point at which IRR is zero and it is no longer economic to drill that play type. They are calculated by sensitizing WTI while maintaining other price streams constant.

² Tier 1 are planned future wells incorporating all technical learnings over the wells drilled to date and based on best 2 wells drilled to date.

³ Tier 2 adds a third well with sand issues and downtime but still consistent with all the learnings in tier 1 (away from fault).
4 The illustrative curve is based on increasing the length and frac size to 1 T/m, this increase in planned on future wells.





Thorsby Development Field

Production from the Leo program will come on stream in the fourth quarter of 2021. Thorsby provides a land base of ~108 net sections (69,120 net acres) that can be developed from multi-well pads, all of which have year-round access and minimise the environmental footprint with oil processing facilities of 3,000 bbl/d oil capacity. Thorsby wells averaged gross production of ~850 boe/d in June 2021 (100% WI) solely from the Sparky Formation. There are 11 wells drilled to date with future well recoveries estimated at 352 - 462 mboe (80% oil).

Well inventory includes 89 net Sparky and 12 net Nisku wells identified with multiple pools to be delineated (28 booked reserve Sparky locations). Selected wells demonstrated significant type curve outperformance in the Sparky formation. Below in Figure 2 is a 3D interpretation of a full Thorsby field development.

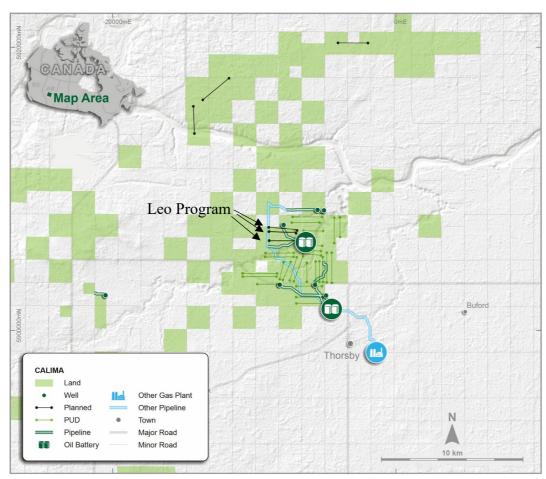


Figure 1: Thorsby Field







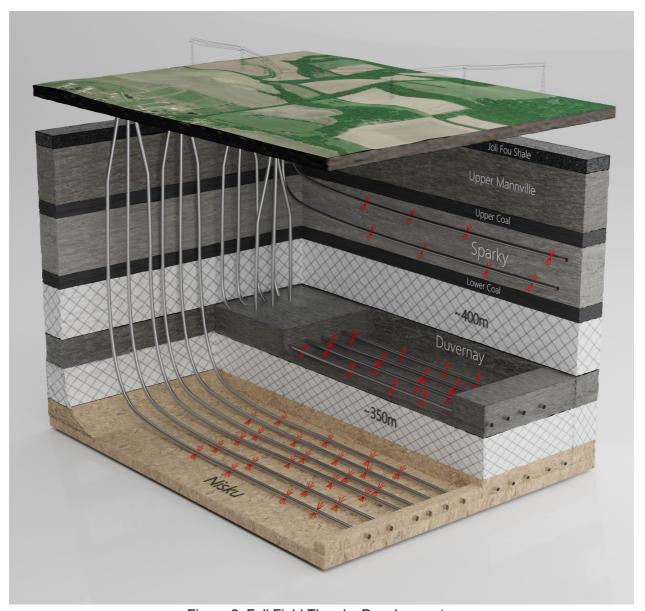


Figure 2: Full Field Thorsby Development

This release has been approved by the Board.

For further information visit www.calimaenergy.com or contact:

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Calima Assets



Forward Looking Statements

This release may contain forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "anticipate", "believe", "intend", "estimate", "expect", "may", "plan", "project", "will", "should", "seek" and similar words or expressions containing same. These forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this release and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. These include, but are not limited to, risks or uncertainties associated with the discovery and development of oil and natural gas reserves, cash flows and liquidity, business and financial strategy, budget, projections and operating results, oil and natural gas reserves, cash flows and timing of capital expenditures, including future development costs, availability and terms of capital and general economic and business conditions. Given these uncertainties, no one should place undue reliance on any forward-looking statements attributable to Calima, or any of its affiliates or persons acting on its behalf. Although every effort has been made to ensure this release sets forth a fair and accurate view, we do not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Qualified petroleum reserves and resources evaluator statement

The petroleum reserves and resources information in this announcement in relation to Blackspur Oil Corp is based on, and fairly represents, information and supporting documentation in a report compiled by InSite Petroleum Consultants Ltd. (InSite) for the 2019YE Reserves Report (December 31, 2019). InSite is a leading independent Canadian petroleum consulting firm registered with the Association of Professional Engineers and Geoscientists of Alberta. These reserves were subsequently reviewed by Mr. Graham Veale who is the VP Engineering with Blackspur Oil Corp. The InSite 2019YE Reserves Report and the values contained therein are based on InSite's December 31, 2019 price deck (https://www.insitepc.com/pricing-forecasts). Production (net of royalties) for the period ended June 30, 2021 was ~1.2 mmboe. Mr. Veale holds a BSc. in Mechanical Engineering from the University of Calgary (1995) and is a registered member of the Alberta Association of Professional Engineers and Geoscientists of Alberta (APEGA). He has over 25 years of experience in petroleum and reservoir engineering, reserve evaluation, exploitation, corporate and business strategy, and drilling and completions. InSite and Mr. Veale have consented to the inclusion of the petroleum reserves and resources information in this announcement in the form and context in which it appears.

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Oil and Gas Glossary and Definitions Adjusted EBITDA: Adjusted EBITDA is calculated as net income (loss) before interest and financing expenses, income taxes, depletion, depreciation and amortisation, and adjusted to exclude certain non-cash, extraordinary and non-recurring items primarily relating to bargain purchase gains, gains and losses on financial instruments, transaction and advisory costs and impairment losses. Calima utilises adjusted EBITDA as a measure of operational performance and cash flow generating capability. Adjusted EBITDA impacts the level and extent of funding for capital projects investments or returning capital to shareholders. Adjusted working capital: Adjusted working capital is comprised of current assets less current liabilities on the Company's balance sheet and excludes the current portions of risk management contracts and credit facility draws. Adjusted working capital is utilised by Management and others as a measure of liquidity because a surplus of adjusted working capital will result in a future net cash inflow to the business which can be used for future funding, and a deficiency of adjusted working capital will result in a future net cash outflow which will require a future draw from Calima's existing funding capacity. ARO / Asset Retirement the process of permanently closing and relinquishing a well by using cement to create plugs at specific intervals within a well bore Obligation: Available funding: Available funding is comprised of adjusted working capital and the undrawn component of Blackspur's credit facility. The available funding measure allows Management and other users to evaluate the Company's liquidity. **Credit Facility Interest:** Borrowings under the Credit Facility incur interest at a market-based interest rate plus an applicable margin which varies depending on Blackspur's net debt to cash flow ratio. Interest charges are between 150 bps to 350 bps on Canadian bank prime borrowings and between 275 bps and 475 bps on Canadian dollar bankers' acceptances. Any undrawn portion of the demand facility is subject to a standby fee in the range of 20 bps to 45 bps. Security for the credit facility is provided by a C\$150 million demand debenture CO2e: carbon dioxide equivalent **Conventional Well:** a well that produces gas or oil from a conventional underground reservoir or formation, typically without the need for horizontal drilling or modern completion techniques Compression: a device or facility located along a natural gas pipeline that raises the pressure of the natural gas flowing in the pipeline, which in turn compresses the natural gas, thereby both increasing the effective capacity of the pipeline and allowing the natural gas to travel longer distances **Corporate Decline:** consolidated, average rate decline for net production from the Company's assets **Exit Production:** Exit production is defined as the average daily volume on the last week of the period Operating Income: Oil and gas sales net of royalties, transportation and operating expenses

which flow through the Company's derivative settlements on its financial statements Free Cash Flow (FCF): represents Hedged Adjusted EBITDA less recurring capital expenditures, asset retirement costs and cash interest expense Free Cash Flow Yield: represents free cash flow as a percentage of the Company's total market capitalisation at a certain point in time

> Funds flow is comprised of cash provided by operating activities, excluding the impact of changes in non-cash working capital. Calima utilises funds flow as a measure of operational performance and cash flow generating capability. Funds flow also impacts the level and extent of funding for investment in capital projects, returning capital to shareholders and repaying debt. By excluding changes in non-cash working capital from cash provided by operating activities, the funds flow measure provides a meaningful metric for Management and others by establishing a clear link between the Company's cash flows, income statement and operating netbacks from the business by isolating the impact of changes in the timing between accrual and cash settlement dates.

> a financial arrangement which allows the Company to protect against adverse commodity price movements, the gains or losses of

Gathering & Compression owned midstream expenses; the costs incurred to transport hydrocarbons across owned midstream assets (G&C): Gathering & Transportation third-party gathering and transportation expense; the cost incurred to transport hydrocarbons across third-party midstream assets

G&A: general and administrative expenses; may be represented by recurring expenses or non-recurring expense Hedged Adjusted EBITDA:

EBITDA including adjustments for non-recurring and non-cash items such as gain on the sale of assets, acquisition related expenses and integration costs, mark-to-market adjustments related to the Company's hedge portfolio, non-cash equity compensation charges and items of a similar nature:

Hyperbolic Decline: non-exponential with subtle multiple decline rates; hyperbolic curves decline faster early in the life of the well and slower as time increases

The LMR (Liability Management Ratio) is determined by the Alberta Energy Regulator ("AER") and is calculated by dividing

Blackspur's deemed assets by its deemed liabilities, both values of which are determined by the AER. LOF: lease operating expense, including base LOE, production taxes and gathering & transportation expense

Midstream: a segment of the oil and gas industry that focuses on the processing, storing, transporting and marketing of oil, natural gas, and

natural gas liquids

Net debt is calculated as the current and long-term portions of Calima's credit facility draws, lease liabilities and other borrowings Net Debt"

net of adjusted working capital. The credit facility draws are calculated as the principal amount outstanding converted to Australian dollars at the closing exchange rate for the period. Net debt is an important measure used by Management and others to assess the Company's liquidity by aggregating long-term debt, lease liabilities and working capital.

NGL / Natural Gas Liquids:

 $hydrocarbon\ components\ of\ natural\ gas\ that\ can\ be\ separated\ from\ the\ gas\ state\ in\ the\ form\ of\ liquids$ Net Debt/Adjusted EBITDA a measure of financial liquidity and flexibility calculated as Net Debt divided by Hedged Adjusted EBITDA

(Leverage) Net Revenue Interest: a share of production after all burdens, such as royalty and overriding royalty, have been deducted from the working interest. It is

the percentage of production that each party actually receives

Operating Costs: total lease operating expense (LOE) plus gathering & compression expense

Operating Netback: Operating netback is calculated on a per boe basis and is determined by deducting royalties, operating and transportation from oil and natural gas sales, after adjusting for realised hedging gains or losses. Operating netback is utilised by Calima and others to assess the profitability of the Company's oil and natural gas assets on a standalone basis, before the inclusion of corporate overhead related costs. Operating netback is also utilised to compare current results to prior periods or to peers by isolating for the impact of changes

a marketing contract between buyer and seller of a physical commodity which locks in commodity pricing for a specific index or

Physical Contract: location and that is reflected in the Company's commodity revenues Production Taxes: state taxes imposed upon the value or quantity of oil and gas produced

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| Term | Meaning | | |
|------------------------------|---|--|--|
| Promote: | an additional economic ownership interest in the jointly-owned properties that is conveyed cost-free to the operator in | | |
| | consideration for operating the assets | | |
| PDP/ Proved Developed | a reserve classification for proved reserves that can be expected to be recovered through existing wells with existing equipment and | | |
| Producing: | operating methods | | |
| PV10: | a standard metric utilised in SEC filings for the valuation of the Company's oil and gas reserves; the present value of the estimated | | |
| | future oil and gas revenues, reduced by direct expenses, and discounted at an annual rate of 10% | | |
| RBL / Reserve Based Lending | a revolving credit facility available to a borrower based on (secured by) the value of the borrower's oil and gas reserves | | |
| Royalty Interest or Royalty: | Interest in a leasehold area providing the holder with the right to receive a share of production associated with the leasehold area | | |
| Terminal decline: | represents the steady state decline rate after early (initial) flush production | | |
| tCO2: | Tonnes of Carbon Dioxide | | |
| Unconventional Well: | a well that produces gas or oil from an unconventional underground reservoir formation, such as shale, which typically requires hydraulic fracturing to allow the gas or oil to flow out of the reservoir | | |
| Upstream: | a segment of the oil and gas industry that focuses on the exploration and production of oil and natural gas | | |
| Working Capital Ratio: | The working capital ratio as the ratio of (i) current assets plus any undrawn availability under the facility to (ii) current liabilities less any amount drawn under the facilities. For the purposes of the covenant calculation, risk management contract assets and liabilities are excluded. | | |
| WI/ Working Interest: | a type of interest in an oil and gas property that obligates the holder thereof to bear and pay a portion of all the property's maintenance, development, and operational costs and expenses, without giving effect to any burdens applicable to the property | | |

| Abbreviation | Abbreviation meaning | Abbreviation | Abbreviation meaning |
|--------------|--|------------------|--|
| 1P | proved reserves | A\$ or AUD | Australian dollars |
| 2P | proved plus Probable reserves | C\$ or CAD | Canadian dollars |
| 3P | proved plus Probable plus Possible reserves | US\$ or USD | United states dollars |
| bbl or bbls | barrel of oil | (\$ thousands) | figures are divided by 1,000 |
| boe | barrel of oil equivalent (1 bbl = 6 Mcf) | (\$ 000s) | figures are divided by 1,000 |
| d | suffix – per day | Q1 | first quarter ended March 31st |
| GJ | gigajoules | Q2 | second quarter ended June 30th |
| mbbl | thousands of barrels | Q3 | third quarter ended September 30 th |
| mboe | thousands of barrels of oil equivalent | Q4 | fourth quarter ended December 31st |
| Mcf | thousand cubic feet | YTD | year-to-date |
| MMcf | million cubic feet | YE | year-end |
| PDP | proved developed producing reserves | H1 | six months ended June 30 th |
| PUD | Proved Undeveloped Producing | H2 | six months ended December 31st |
| С | Contingent Resources – 1C/2C/3C – low/most likely/high | В | Prefix – Billions |
| Net | Working Interest after Deduction of Royalty Interests | MM | Prefix - Millions |
| NPV (10) | Net Present Value (discount rate), before income tax | M | Prefix - Thousands |
| EUR | Estimated Ultimate Recovery per well | /d | Suffix – per day |
| WTI | West Texas Intermediate Oil Benchmark Price | bbl | Barrel of Oil |
| WCS | Western Canadian Select Oil Benchmark Price | boe | Barrel of Oil Equivalent (1bbl = 6 mscf) |
| 1P or TP | Total Proved | scf | Standard Cubic Foot of Gas |
| 2P or TPP | Total Proved plus Probable Reserves | Bcf | Billion Standard Cubic Foot of Gas |
| 3P | Total Proved plus Probable plus Possible Reserves | tCO ₂ | Tonnes of Carbon Dioxide |
| EBITDA | Earnings before interest, tax, depreciation, depletion and | OCF | Operating Cash Flow, ex Capex |
| | amortisation | | |
| Net Acres | Working Interest | E | Estimate |
| IP24 | The peak oil production rate over 24 hours of production | CY | Calendar Year |
| IP30/90 | Average oil production rate over the first 30/90 days | | |

