

Q1 2021 MANAGEMENT DISCUSSION & ANALYSIS



MANAGEMENT'S DISCUSSION AND ANALYSIS

This management's discussion and analysis ("MD&A") is a review of operations, financial position and outlook for Cardinal Energy Ltd. ("Cardinal" or the "Company") for the three months ended March 31, 2021 and is dated May 13, 2021. The MD&A should be read in conjunction with Cardinal's unaudited interim condensed financial statements as at and for the three months ended March 31, 2021 and the audited financial statements for the years ended December 31, 2020 and 2019. Financial data presented has been prepared in accordance with International Financial Reporting Standards ("IFRS" or, alternatively, "GAAP"), unless otherwise indicated. Certain prior period amounts have been reclassified to conform to current period presentation.

All figures in tables are stated in thousands of Canadian dollars (except operational and per share amounts or as noted).

DESCRIPTION OF BUSINESS

Cardinal is engaged in the acquisition, development, optimization and production of crude oil and natural gas in the provinces of Alberta and Saskatchewan.

Non-GAAP Measures

The terms "funds flow", "adjusted funds flow", "adjusted funds flow per share", "adjusted funds flow per diluted share", "adjusted working capital", "development capital expenditures", "net operating expenses", "netback", "net debt", "net debt to adjusted funds flow", "net bank debt", and "total payout ratio" in this MD&A are not recognized under GAAP. Management believes that in addition to earnings and cash flow from operating activities as defined by GAAP, these terms are useful supplemental measures to evaluate operating performance. Users are cautioned however, that these measures should not be construed as an alternative to earnings or cash flow from operating activities determined in accordance with GAAP as an indication of Cardinal's performance and may not be comparable with the calculation of similar measurements by other entities.

Management utilizes "adjusted funds flow" as a key measure to assess the ability of the Company to generate the funds necessary for financing activities, operating activities, and capital expenditures. Adjusted funds flow excludes the change in non-cash working capital, and decommissioning expenditures since Cardinal believes the timing of collection, payment or incurrence of these items involves a high degree of discretion and variability. Expenditures on decommissioning obligations vary from period to period depending on the maturity of the Company's operating areas and availability of adjusted funds flow and are viewed as part of the Company's capital budgeting process. Funds flow excludes the change in non-cash operating working capital. Funds flow and adjusted funds flow are not intended to represent net cash provided by (used in) operating activities calculated in accordance with IFRS. The following table reconciles cash flow from operating activities to funds flow and adjusted funds flow:

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Cash flow from operating activities	13,275	22,041	(40)
Change in non-cash working capital	1,143	(8,565)	n/m
Funds flow	14,418	13,476	7
Decommissioning expenditures	1,731	1,472	18
Adjusted funds flow	16,149	14,948	8

[&]quot;Adjusted funds flow per share" is calculated using adjusted funds flow divided by the weighted average basic shares outstanding adjusted for shares held in treasury.

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[&]quot;Adjusted funds flow per diluted share" is calculated using adjusted funds flow divided by the weighted average diluted shares outstanding adjusted for shares held in treasury.

[&]quot;Adjusted working capital" is calculated as current liabilities less current assets (adjusted for the warrant liability, fair value of financial instruments, current decommissioning obligation and current lease liabilities). Adjusted

working capital is used by Cardinal to monitor its capital structure, liquidity, and its ability to fund current operations. The following table reconciles working capital to adjusted working capital:

	As at		
	Mar 31, 2021 D	ec 31, 2020	Change %
Working capital	(32,609)	(25,690)	27
Lease liabilities	1,634	1,687	(3)
Decommissioning obligation	2,760	3,280	(16)
Fair value of financial instruments, net	15,560	6,909	125
Warrant liability	-	3,530	(100)
Adjusted working capital deficiency	(12,655)	(10,284)	23

"Development capital expenditures" represents expenditures on property, plant and equipment (excluding capitalized G&A, other assets and net acquisitions) as shown in the *Capital Expenditures* section below.

"Net operating expenses" is calculated as operating expense less processing and other revenue primarily generated by processing third party volumes at processing facilities where the Company has an ownership interest, and can be expressed on a per boe basis. As the Company's principal business is not that of a midstream entity, management believes this is a useful supplemental measure to reflect the true cash outlay at its processing facilities by utilizing spare capacity through processing third party volumes.

"Netback" is calculated on a boe basis and is determined by deducting royalties, net operating expenses, and transportation expenses from petroleum and natural gas revenue in accordance with the Canadian Oil and Gas Evaluation ("COGE") Handbook. Netback is utilized by Cardinal to better analyze the operating performance of its petroleum and natural gas assets against prior periods.

The term "net debt" is not recognized under GAAP and is calculated as bank debt plus the principal amount of convertible unsecured subordinated debentures ("convertible debentures"), secured notes and adjusted working capital. Net debt is used by management to analyze the financial position, liquidity and leverage of Cardinal.

"Net debt to adjusted funds flow" is calculated as net debt divided by adjusted funds flow for the trailing twelve month period. The ratio of net debt to adjusted funds flow is used to measure the Company's overall debt position and to measure the strength of the Company's balance sheet. Cardinal monitors this ratio and uses this as a key measure in making decisions regarding financing, capital expenditures and shareholder returns.

"Net bank debt" is calculated as net debt less the principal amount of convertible debentures and secured notes. Net bank debt is used by management to analyze the financial position, liquidity, leverage and borrowing capacity on Cardinal's bank line.

"Total payout ratio" represents the ratio of the sum of dividends declared plus development capital expenditures divided by adjusted funds flow. Total payout ratio is another key measure to assess Cardinal's ability to fund financing activities, operating activities, and capital expenditures.

51-101 Advisory

In accordance with Standards for Disclosure of Oil and Gas Activities ("NI 51-101"), natural gas volumes have been converted to barrels of oil equivalent using a conversion rate of six thousand cubic feet of natural gas to one barrel of oil. This ratio is based on an energy equivalency conversion method primarily applicable at the burner tip. It does not represent a value equivalency at the wellhead and is not based on either energy content or current prices. The term "boe" is useful for comparative measures and observing trends, it does not accurately reflect individual product value and may be misleading, particularly if used in isolation. Based on the current price of crude oil to natural gas, using a 6:1 conversion ratio may be misleading as an indication of value.

FIRST QUARTER 2021 HIGHLIGHTS

- Increased adjusted funds flow by 8% over the same period in 2020;
- Petroleum and natural gas revenue increased 35% over the same period in 2020 due to stronger commodity prices;
- General and administrative costs decreased by 37% over the same period in 2020;
- Capital expenditures decreased 57% over the first quarter of 2020 to \$9.5 million, which included a minor acquisition of light oil production;
- Reduced net debt to \$218.4 million, a 20% reduction over the net debt balance at March 31, 2020.

OPERATIONS

PRODUCTION

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Light oil (bbl/d)	7,042	7,792	(10)
Medium / heavy oil (bbl/d)	7,739	9,301	(17)
Crude oil (bbl/d)	14,781	17,093	(14)
Natural gas (mcf/d)	14,364	14,368	-
NGL (bbl/d)	1,210	836	45
boe/d	18,385	20,323	(10)
% Crude oil and NGL production	87%	88%	(1)

First quarter 2021 production decreased 10% over the same period in 2020 as the Company continues to recover from production shut-in during the second quarter of 2020 as a result of low commodity prices from the COVID-19 pandemic ("COVID-19"). As commodity prices continue to strengthen in 2021, Cardinal expects to increase its well reactivation activity which had been significantly curtailed throughout most of 2020. NGL production increased 45% in the first quarter of 2021 compared to the same period in 2020 due to a retroactive adjustment for higher liquids yields from a third party processing facility in the Grande Prairie area.

PETROLEUM AND NATURAL GAS REVENUE

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Light oil	39,155	32,611	20
Medium / heavy oil	38,924	27,335	42
Crude oil	78,079	59,946	30
NGL	3,226	1,625	99
Natural gas	4,242	1,902	123
Petroleum and natural gas revenue	85,547	63,473	35
Cardinal average prices			
Light oil (\$/bbl)	61.78	45.99	34
Medium / heavy oil (\$/bbl)	55.89	32.30	73
Natural gas (\$/mcf)	3.28	1.45	126
Equivalent (\$/boe)	51.70	34.32	51
Benchmark prices			
Crude oil - WTI (US \$/bbl)	57.84	46.17	25
Crude oil - Edmonton light (Cdn \$/bbl)	66.45	51.62	29
Crude oil - WCS (Cdn \$/bbl)	57.42	34.12	68
Natural gas - AECO Spot (Cdn \$/gj)	2.99	1.93	55
Exchange rate - (US/Cdn)	0.79	0.75	6

Petroleum and natural gas revenue increased 35% in the first quarter of 2021 as compared to the same prior period in 2020 due to a 51% increase in realized commodity prices partially offset by lower production. In the first quarter of 2021, the Company's Edmonton light benchmark price increased 29% as compared to a 34% increase in the Company's realized light oil price as the Company had a greater proportion of higher priced Cromer light oil production. During the first quarter of 2021, Cardinal's medium/heavy oil Western Canadian Select ("WCS") benchmark price increased 68% as compared to a 73% increase in the realized medium/heavy oil price due to the Company receiving tariff reductions in certain areas beginning in the first quarter of 2021. The Company's first quarter 2021 natural gas price increased 126% over the same period in 2020 as compared to the AECO benchmark increase of 55% due to the Company ending its lower priced Chicago based natural gas sales contract in the fourth quarter of 2020.

FINANCIAL INSTRUMENTS - COMMODITY

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Realized gain/(loss) on commodity contracts	(13,801)	8,221	n/m
Unrealized gain/(loss) on commodity contracts	(8,651)	8,176	n/m

Managing the variability in funds flow and adjusted funds flow is an integral component of Cardinal's business strategy. Changing business conditions are monitored regularly and reviewed with our Board of Directors to establish risk management guidelines used by management in carrying out the Company's risk management program. The risk exposure inherent in movements in the price of crude oil, natural gas and foreign exchange rates are proactively managed by Cardinal through the use of derivatives with investment-grade counterparties. The Company considers these derivative contracts to be an effective means to manage cash flow from operating activities, and adjusted funds flow.

Cardinal utilizes a variety of derivatives including swaps, collars and puts to protect against downward commodity price movements and foreign exchange fluctuations and avoids entering into more complex derivative structures. Contracts settled in the period result in realized gains or losses based on the market price compared to the contract price. Changes in the fair value of the contracts, as measured at the balance sheet date, are reported as unrealized gains or losses in the period as the forward markets for commodities and currencies fluctuate and as new contracts are executed. For commodities, Cardinal's risk management program allows for hedging a forward profile of three years, of up to 75% of average forecasted 12 months of gross production and up to 50% and 30% of the following 12 and 24 months, respectively. During the first quarter of 2021, Cardinal had a \$13.8 million realized hedging loss due to the significant increase in oil prices experienced during the quarter. In the first quarter, approximately 60% of the Company's oil production was hedged which decreases to approximately 39% in the second quarter of 2021.

As of the date of this MD&A Cardinal had the following commodity derivatives, referenced to WTI, WCS, and AECO outstanding:

			Average				Average
Commodity	Financial Instrument	Period	Volume			Str	ike Price
Crude Oil							_
	CDN WTI Swap	Apr - Jun 2021	2,000	bbl/d		\$	58.29
		Apr - Sep 2021	1,000	bbl/d		\$	59.00
		Apr - Dec 2021	1,500	bbl/d		\$	55.83
	USD WTI Swap	Apr - Jun 2021	1,000	bbl/d	USD	\$	42.80
	CDN WTI Collar	Apr - Jun 2021	500	bbl/d	Floor	\$	50.00
					Ceiling	\$	65.00
	CDN WCS Differential Swap	Apr - Jun 2021	1,500	bbl/d		\$	(16.42)
	USD WCS Differential Swap	Apr - Jun 2021	2,000	bbl/d	USD	\$	(12.30)
Natural Gas							
	AECO Swap	Apr - Dec 2021	11,000			\$	2.56

ROYALTIES

	Thre	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %	
Royalties	12,967	10,284	26	
Percent of revenue	15.2%	16.2%	(6)	
\$/boe	7.84	5.56	41	

Royalties are either paid or taken in kind and are owed to land and mineral rights owners and to provincial governments. The terms of the land and mineral rights owner agreements and provincial royalty regimes impact Cardinal's overall corporate royalty rate.

Royalties as a percentage of revenue decreased during the first quarter of 2021 as compared to the same period in 2020 due to a higher proportion of lower royalty rate oil production in the first quarter of 2021. In addition, the Company's realized oil price was higher than the government reference price used to calculate oil royalties.

NET OPERATING EXPENSES

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Operating expenses	36,234	38,681	(6)
Less: Processing and other revenue	(848)	(617)	37
Net operating expenses (1)	35,386	38,064	(7)
\$/boe	21.39	20.58	4
(4) Consider CAAD was a second			

(1) See non-GAAP measures.

During the first quarter of 2021, net operating expenses per boe increased by 4% over the same period in 2020 due to higher Alberta electricity costs. In the first quarter of 2021, Cardinal has reduced its Alberta power grid consumption by approximately 13% over the same period in 2020 however spot electricity prices have increased by approximately 42%. In response to the higher oil prices, in the first quarter of 2021, the Company has also increased its workover and well reactivation activity which was deferred in 2020 due to COVID-19.

TRANSPORTATION EXPENSES

	Thr	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %	
Transportation expenses	496	575	(14)	
\$/boe	0.30	0.31	(3)	

Transportation costs and transportation costs per boe slightly decreased in the first quarter of 2021 as compared with the same period in 2020 as the Company's clean oil trucking decreased due to reduced higher cost oil production which requires additional trucking costs.

NETBACK

Three months ended		
Mar 31, 2021	Mar 31, 2020	Change %
51.70	34.32	51
7.84	5.56	41
21.39	20.58	4
0.30	0.31	(3)
22.17	7.87	182
	Mar 31, 2021 51.70 7.84 21.39 0.30	Mar 31, 2021Mar 31, 202051.7034.327.845.5621.3920.580.300.31

Cardinal's first quarter 2021 netback increased 182% as compared to the same period in 2020 due to higher commodity prices partially offset by higher royalties and net operating costs.

GENERAL AND ADMINISTRATIVE ("G&A")

	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %
Gross G&A	4,070	5,807	(30)
Capitalized G&A and overhead recoveries	(1,003)	(933)	8
G&A	3,067	4,874	(37)
\$/boe	1.85	2.64	(30)

In the first quarter of 2021, G&A costs and G&A costs per boe were 37% and 30% lower, respectively, than the same period in 2020. In response to COVID-19, Cardinal has been proactive in reducing costs throughout the Company with decreased staffing levels and compensation costs and has also received government subsidies which have reduced G&A costs by \$0.2 million during the first quarter.

SHARE-BASED COMPENSATION ("SBC")

	<u>Thr</u>	Three months ended		
	Mar 31, 2021	Mar 31, 2020	Change %	
Gross SBC	855	1,560	(45)	
Capitalized SBC	(91)	(139)	(35)	
SBC	764	1,421	(46)	
\$/boe	0.46	0.77	(40)	

SBC expense decreased in the first quarter as compared to the same period in 2020 due to a decrease in the grant fair value of restricted awards ("RAs") and performance awards ("PAs") outstanding.

As at March 31, 2021, Cardinal had 3.8 million RAs and 1.5 million PAs outstanding.

FINANCE

	Three months ended			
	Mar 31, 2021	Mar 31, 2020	Change %	
Interest - bank debt	2,851	1,931	48	
Other finance charges, net	424	314	35	
Interest - convertible debentures	348	620	(44)	
Interest - secured notes	592	-	-	
Interest - capital leases	58	84	(31)	
Accretion	1,937	2,192	(12)	
Unrealized foreign exchange loss	-	1,109	(100)	
Finance	6,210	6,250	(1)	
\$/boe	3.75	3.38	11	
Average bank debt	193,282	195,112	(1)	
Interest rate - bank debt	6.0%	4.0%	50	

In the first quarter, higher bank fees increased the interest on bank debt by 48% over the same period in 2020. In addition, interest on the recently issued second lien secured notes of \$0.6 million was partially offset by reduced interest on the redeemed convertible debentures as described in the Capital Funding section below.

DEPLETION AND DEPRECIATION ("D&D")

	Inr	Inree months ended			
	Mar 31, 2021	Mar 31, 2020	Change %		
Depletion and depreciation	17,142	23,507	(27)		
\$/boe	10.36	12.71	(18)		

Depletion is calculated based on capital expenditures incurred since inception of the Company, future development costs associated with proved and probable reserves, production rates, and proved and probable reserves. In addition to depletion, Cardinal records depreciation on other capital equipment and right-of-use assets not directly associated with proved and probable reserves.

D&D costs and D&D costs per boe decreased 27% and 18%, respectively, in the first quarter of 2021 as compared to the same period in 2020 due to a lower property, plant and equipment depletable base from the Company's impairment charge taken in the first quarter of 2020 and lower production in the current quarter.

DEFERRED TAXES

The Company has approximately \$1.4 billion of tax pools (\$1.3 billion are unrestricted) available to be applied against future income for tax purposes. Based on available pools and current commodity prices, Cardinal does not expect to pay current income taxes until 2027 or beyond. Any potential taxes payable beyond 2027 would be affected by commodity prices, capital expenditures and production.

In the fourth quarter of 2020, Cardinal received a proposal letter from the Canada Revenue Agency ("CRA") wherein the CRA stated that it proposed to reduce certain non-capital loss tax pools of approximately \$192 million carried forward in the tax return filed for the year ended December 31, 2015. Cardinal disagrees with CRA's position and firmly believes it will be successful in defending its position. Prior to the proposal letter, Cardinal had derecognized these tax assets in the first quarter of 2020.

EARNINGS (LOSS), CASH FLOW FROM OPERATING ACTIVITIES, ADJUSTED FUNDS FLOW AND PAYOUT RATIOS

	Three months ended			
	Mar 31, 2021	Mar 31, 2020	Change %	
Loss \$/share	(25,961)	(450,944)	(94)	
Basic and diluted	(0.20)	(3.98)	(95)	
Cash flow from operating activities	13,275	22,041	(40)	
Adjusted funds flow \$/share	16,149	14,948	8	
Basic and diluted	0.12	0.13	(8)	
Total payout ratio	37%	169%	(78)	

In the first quarter of 2021, a rapid increase in forward oil prices created realized and unrealized losses on the Company's risk management program impacting the loss, cash flow from operating activities, and adjusted funds flow. Cardinal had approximately 60% of its oil production hedged at prices below the current oil price. This increased the current period loss by approximately \$22.5 million. In addition, due to a significant increase in the Company's share price, Cardinal recorded a non-cash re-measurement loss of the warrant liability. The Company's first quarter 2021 loss decreased by 94% over the same period in 2020 as Cardinal recorded significant impairment charges and derecognized its deferred tax asset in the first quarter of 2020. In the first quarter of 2021, a strong recovery of oil and natural gas prices increased Cardinal's adjusted funds flow by 8% over the same period in 2020.

CAPITAL EXPENDITURES

In the first quarter of 2021, the Company executed a conservative capital expenditure program of \$9.5 million which included a minor acquisition of light oil production. In addition capital expenditures were limited to required CO₂ expenditures for the Company's enhanced oil recovery ("EOR") project at Midale, Saskatchewan and expenditures on infrastructure and pipeline integrity. There were no wells drilled during the first quarter of 2021.

	Three months ended			
	Mar 31, 2021	Mar 31, 2020	Change %	
Land	79	108	(27)	
Drilling and completion	1,187	14,484	(92)	
Equipment, facilities and pipelines	4,641	7,190	(35)	
Total development capital expenditures (1)	5,907	21,782	(73)	
Capitalized G&A	258	314	(18)	
Other assets	36	45	(20)	
Acquisition, net	3,326	-	n/m	
Total capital expenditures (2)	9,527	22,141	(57)	

⁽¹⁾ Represents the total of exploration and evaluation and property, plant and equipment expenditures from the statements of cash flows less amounts recorded for capitalized G&A and other assets (included in the table of expenditures above).

The Company's Board of Directors has approved an adjusted 2021 capital budget of \$46 million.

DECOMMISSIONING OBLIGATION

In the first quarter of 2021, the Company settled \$1.7 million of decommissioning obligations and also benefitted from government subsidies received through its service providers and further reduced our future decommissioning obligations by \$1.1 million.

WARRANT LIABILITY

On December 30, 2020, as part of a private placement, Cardinal issued 8,122,000 units consisting of one common share and one warrant at \$0.50 per unit for net proceeds of \$4.0 million. At December 31, 2020 the warrants issued were classified as a financial liability as a result of a cashless exercise provision; however, during the first quarter of 2021, all of the warrant holders waived their right to cashless exercise the warrants. As a result, on the date when the warrant holders relinquished their right to cashless exercise, the Company fair valued the warrant liability and recorded the resulting re-measurement expense and reclassified the warrant liability to shareholder's equity.

LIQUIDITY AND CAPITAL RESOURCES				
	As at			
Capitalization table	Mar 31, 2021	Dec 31, 2020	Change %	
Net bank debt ⁽¹⁾	201,639	202,399	-	
Convertible debentures	-	28,207	(100)	
Secured notes	16,809	16,217	4	
Common shares, outstanding	144,387,662	121,348,705	19	
Market price at end of period (\$ per share)	\$ 2.62	\$ 0.82	220	
Market capitalization	378,296	99,506	280	
Total capitalization (1) See non-GAAP measures	596,744	346,329	72	

⁽²⁾ Expenditures exclude expenditures for the decommissioning obligation and non-cash capitalized share-based compensation.

CAPITAL FUNDING

Bank debt

The Company's reserves-based revolving credit facility of \$225 million is comprised of a \$205 million syndicated term credit facility and a \$20 million non-syndicated operating line credit facility (the "Facilities"). On May 12, 2021, the Facilities were renewed on a revolving basis until May 31, 2022 and a maturity date of May 31, 2023, and may be extended for a further 364 day period, subject to approval by the syndicate. If not extended, the Facilities will cease to revolve, the applicable margins will increase by 0.5% and all outstanding advances will be repayable on May 31, 2023. There are no financial covenants related to the Facilities, provided that Cardinal is not in default of the terms of the Facilities. Cardinal was in compliance with the terms of the Facilities at March 31, 2021 and remains in compliance at the date of this MD&A.

The available lending limits of the Facilities are reviewed semi-annually based on the syndicate's interpretation of the Company's reserves, future commodity prices and costs. As the available lending limit of the Facilities is based on the syndicate's interpretation of the Company's reserves and future commodity prices and costs, there can be no assurance that the amount of the Facilities will not decrease at the next scheduled review.

Advances under the Facilities are available by way of either prime rate loans, which bear interest at the banks' prime lending rate plus 1.75% to 5.25% and bankers' acceptances, which are subject to fees and margins ranging from 2.75% to 6.25%. Interest and standby fees on the undrawn amounts of the Facilities depend upon certain ratios. The Facilities are secured by a general security agreement over all of the Company's assets.

Convertible debentures

On February 4, 2021, Cardinal issued a notice of redemption for all of the outstanding debentures with a principal amount of \$28.2 million, effective March 11, 2021. Prior to the redemption date, Cardinal issued 22,410,000 common shares upon the conversion of \$28.0 million of principal amount of the debentures representing approximately 99.3% of the outstanding debentures. The redemption of the remaining \$0.2 million principal amount of the 8% debentures was funded through the Company's credit facility.

Secured Notes

On December 30, 2020, Cardinal entered into a subscription agreements for a non-brokered private placement ("Private Placement") of \$16.9 million principal amount of second lien secured notes ("Secured Notes") issued at a 4% discount for net proceeds of \$16.2 million. The proceeds were utilized to repay the maturing 5.5% convertible debentures. As part of the offering, each subscriber was also required to subscribe for a pro rata number of units ("Units") totaling 8,122,000 Units, at a subscription price of \$0.50 per Unit for net proceeds of \$4.0 million. See Share Capital section.

The Secured Notes bear interest at 12% per annum, with interest compounded and accrued semi-annually and added to the principal amount outstanding, payable on maturity. The Secured Notes mature on June 30, 2022, and contain an extension provision, exercisable by either Cardinal or the holders on 30 days' prior written notice, to extend the maturity date to November 30, 2022.

CAPITAL STRUCTURE

Cardinal manages its capital to provide a flexible structure to support production maintenance, capital programs and other operational strategies. Maintaining a strong financial position enables Cardinal to enhance business opportunities and supports Cardinal's strategy of providing shareholder return through growth of the business and reducing its cost structure.

One of the key measures that the Company utilizes in evaluating its capital structure is the credit available from the Facilities in relation to the Company's budgeted capital expenditure program and the ratio of net debt to adjusted funds flow (see non-GAAP measures).

To manage its capital structure, Cardinal considers its net debt to adjusted funds flow ratio, its capital expenditures program, the current level of credit available from the Facilities, the level of credit that may be attainable due to

changes in petroleum and natural gas reserves and new equity if available on favourable terms. The Company prepares an annual capital expenditure budget, which is monitored monthly and updated as necessary.

	Twelve months ended			
		Mar 31, 2021		Dec 31, 2020
Bank debt	\$	188,984	\$	192,115
Secured notes		16,809		16,217
Principal amount of Convertible Debentures		-		28,207
Adjusted working capital deficiency ⁽¹⁾		12,655		10,284
Net debt ⁽¹⁾	\$	218,448	\$	246,823
Cash flow from operating activities	\$	34,759	\$	43,525
Change in non-cash working capital		7,161		(2,547)
Funds flow (1)	\$	41,920	\$	40,978
Decommissioning obligation expenditures		3,108		2,849
Adjusted funds flow (1)		45,028		43,827
Net debt to adjusted funds flow (1)		4.9		5.6

(1) See non-GAAP measures

Cardinal's ratio of net debt to adjusted funds flow as at March 31, 2021 was 4.9 to 1, lower than the ratio at December 31, 2020 but still above the Company's targeted range of 2.0 to 1. Lower adjusted funds flow from reduced oil prices experienced since the second quarter of 2020 has resulted in the ratio being well above the historical range. In response to this, Cardinal has taken numerous steps to mitigate the impact including reducing capital expenditures, operating and G&A costs. During the first quarter of 2021, the Company also strengthened its bank debt position and converted \$28 million of convertible debentures into common shares. Under the budgeted scenario, Cardinal expects the net debt to adjusted funds flow ratio to continue to be reduced throughout the year.

As discussed below in the *Liquidity* section, the Company currently has available capacity on its Facilities to satisfy its capital and asset retirement obligations for 2021 and the Company will continue to monitor this ratio and endeavors to return to a level of a 2.0 to 1 target ratio.

LIQUIDITY

The Company relies on cash flow from operating activities, the unused portion of the Facilities and equity issuances to fund its capital requirements and provide liquidity. Cardinal had sufficient credit capacity to cover its adjusted working capital deficiency of \$12.7 million and continues to have sufficient available capacity as at the date of this MD&A.

The Company believes that it is well positioned to take advantage of its internally developed opportunities funded through its currently available Facilities combined with anticipated cash flow from operating activities. Present sources of capital are anticipated to be sufficient to satisfy the Company's capital program and decommissioning obligations for the 2021 fiscal year and beyond.

Since the second quarter of 2020, the Company's reduced cost structure and higher oil prices have provided for increased cash flow from operating activities through the first quarter of 2021. In May 2021, the extension of our Facilities to a May 31, 2023 maturity combined with the settlement of all outstanding convertible debentures has solidified the Company's liquidity position.

DIVIDENDS

In March 2020, due to the effect of the effect of COVID-19 which caused a collapse in the price of crude oil, Cardinal has elected to suspend its dividend. The Company will continue to evaluate market conditions to determine when we could reinstate a dividend in the future.

SHARE CAPITAL

The Company has a bonus award plan whereby RAs and PAs may be granted to directors, officers, employees and other service providers. In the case of PAs, the award value is adjusted for a payout multiplier which can range from 0.0 to 2.0 and is dependent on the performance of the Company relative to pre-defined corporate performance measures for a particular period. Awards are adjusted for dividends declared, either with a cash payment or incremental common shares, and may be settled in cash, common shares issued from treasury or common shares acquired by an independent trustee in the open market for such purposes.

In the first quarter of 2021, the trustee purchased 589,843 treasury shares (Q1 2020 - 303,495) at an average price of \$2.12 (Q1 2020 - \$2.31) for the potential settlement of vesting RAs and PAs. During the first quarter of 2021, the Company settled 1,852,173 RAs (Q1 2020 - 898,191) and 282,123 PAs (Q1 2020 - nil) with 1,218,400 shares (Q1 2020 - 898,191) held by the trustee and a cash payment of \$2.1 million (Q1 2020 - \$0.5 million) for withholding taxes. At March 31, 2021, the trustee held a remaining balance of 720,567 (December 31, 2020 - 1,349,124) treasury shares.

In the first quarter of 2021, Cardinal granted 1.7 million RAs and 1.0 million PAs to officers, directors and employees pursuant to the Company's bonus award plan.

On December 30, 2020, as part of the Private Placement, Cardinal issued 8,122,000 Units consisting of one common share and one warrant at \$0.50 per unit for net proceeds of \$4.0 million.

Equity Instruments as at	May 13, 2021	Mar 31, 2021	Dec 31, 2020
Common shares, issued	145,108,229	145,108,229	122,697,829
Treasury shares	(720,567)	(720,567)	(1,349,124)
Convertible debentures	-	-	22,565,600
Warrants	8,122,000	8,122,000	8,122,000
RAs	3,845,372	3,845,372	3,992,659
PAs	1,536,246	1,536,246	846,369

OFF BALANCE SHEET ARRANGEMENTS

Cardinal does not have any special purpose entities nor is it a party to any arrangements that would be excluded from the balance-sheet.

CONTRACTUAL OBLIGATIONS

At March 31, 2021, the Company had contractual obligations as follows:

	2021	2022	2023	2024	2025	Thereafter
Trade and other payables	54,058	_	-	-	-	-
Lease liabilities	1,387	1,362	1,102	18	-	-
Bank debt ⁽¹⁾	-	-	188,984	-	-	-
Secured notes	-	20,156	-	-	-	
Total contractual obligations	\$ 55,445	\$ 21,518	190,086	18	-	-

(1) Amount excludes interest; bank renewal completed on May 12, 2021

ADDITIONAL INFORMATION

CRITICAL ACCOUNTING ESTIMATES

There have been no changes in Cardinal's critical accounting estimates in the three months ended March 31, 2021. Further information on the Company's critical accounting policies and estimates can be found in the notes to the annual financial statements and MD&A for the year ended December 31, 2020.

INTERNAL CONTROLS UPDATE

Cardinal is required to comply with National Instrument 52-109 "Certification of Disclosure on Issuers' Annual and Interim Filings". The certificate requires that Cardinal disclose in the interim MD&A any change in the Company's internal control over financial reporting ("ICOFR") that occurred during the period that have materially affected, or are reasonably likely to materially affect Cardinal's ICOFR. As of the date of this MD&A Cardinal confirms that there have been no such changes in Cardinal's ICOFR during the first quarter of 2021.

ENVIRONMENTAL RISKS

The oil and gas industry has a number of environmental risks and hazards and is subject to regulation by all levels of government. Environmental legislation includes, but is not limited to, operational controls, site restoration requirements and restrictions on emissions of various substances produced in association with oil and natural gas operations. Compliance with such legislation could require additional expenditures and a failure to comply may result in fines and penalties which could, in the aggregate and under certain unlikely assumptions, become material.

Operations are continuously monitored to minimize the environmental impact and capital is allocated to reclamation and other activities to mitigate the impact on the areas in which we operate.

OUTLOOK

The first quarter of 2021 has brought a renewed confidence to the Canadian oil and gas market. Cardinal's first quarter adjusted funds flow was somewhat muted by losses from hedges that were put in place during 2020. Our second quarter will see a significant reduction in outstanding hedges which will be further reduced in the second half of 2021. The Company has increased its 2021 capital budget to \$46 million which will see Cardinal drill two wells in each of its four operating areas. In May 2021, our credit facility with our syndicate of banks was renewed at \$225 million. Cardinal will continue to prioritize debt repayment in 2021.

QUARTERLY DATA

	Mar 31, 2021	Dec 31, 2020	Sep 30, 2020	Jun 30, 2020
Production				
Oil (bbl/d)	14,781	15,149	14,582	14,251
Natural gas (mcf/d)	14,364	13,653	13,448	12,873
NGL (bbl/d)	1,210	1,200	834	772
Oil equivalent (boe/d)	18,385	18,625	17,657	17,169
Financial				
Revenue	85,547	66,065	61,982	31,711
Earnings (loss)	(25,961)		(4,659)	
Basic per share (\$)	(0.20)	1.06	(0.04)	, ,
Diluted per share (\$)	(0.20)		(0.04)	
Cash flow from operating activities	13,275	12,810	18,950	(10,276)
Adjusted funds flow ⁽¹⁾	16,149	13,608	13,206	2,065
Basic and diluted per share (\$)	0.12	0.12	0.12	0.02
Adjusted working capital deficiency ⁽¹⁾	(12,655)	(10,284)	(10,898)	(5,012)
Total assets	750,410	749,133	633,024	676,560
Bank debt	188,984	192,115	204,018	217,206
Principal amount of convertible debentures	-	28,207	44,451	44,451
Secured notes	16,809	16,217	-	-
Total long-term liabilities (2)	287,370	316,952	102,579	115,559
Shareholders' equity	388,753	372,848	251,859	253,804
Common shares outstanding, net (000's) ⁽³⁾	144,388	121,349	113,496	113,382
Diluted shares outstanding, net (000's) ⁽³⁾	157,891	134,310	118,490	118,712
	Mar 31, 2020	Dec 31, 2019	Sep 30, 2019	Jun 30, 2019
Production				
Oil (bbl/d)	17,093	16,757	16,624	16,997
Natural gas (mcf/d)	14,368	15,459	15,022	15,906
NGL (bbl/d)	836	893	932	939
Oil equivalent (boe/d)	20,323	20,227	20,059	20,587
Financial				
Revenue	63,473	93,272	95,483	106,166
Earnings (loss)	(450,944)		359	(3,099)
Basic and diluted per share (\$)	(3.98)			(0.03)
Cash flow from operating activities	22,041	31,714	24,836	35,923
Adjusted funds flow ⁽¹⁾	14,948	28,864	27,571	35,736
Basic and diluted per share (\$)	0.13	0.25	0.24	0.31
Adjusted working capital deficiency ⁽¹⁾	(35,909)	(29,291)	(10,325)	(9,159)
Total assets	703,401	1,149,827	1,186,151	1,190,950
Bank debt	192,965	173,308	192,435	195,468
Principal amount of convertible debentures	44,931	45,000	45,000	45,000
Total long-term liabilities (2)	306,973	284,251	359,809	362,500
Shareholders' equity	280,608	737,902	758,263	763,655
Common shares outstanding, net (000's) ⁽³⁾	113,354	113,657	114,333	115,203
	•			
Diluted shares outstanding, net (000's) ⁽³⁾ (1) See non-GAAP measures	118,797	118,271	119,088	120,220

⁽¹⁾ See non-GAAP measures

Since the second quarter of 2019, production has been relatively consistent but fluctuations in commodity prices have resulted in revenue variances. In the second quarter of 2020, reduced oil demand due to concerns over the effect of COVID-19 has significantly impacted oil pricing and revenue. The Company shut-in higher cost production in the second quarter of 2020 and has subsequently brought back on certain production with supporting economics.

⁽²⁾ Includes lease liabilities and decommissioning obligation.

⁽³⁾ Net of treasury shares

Reduced production and low commodity prices significantly impacted revenue, cash flow from operating activities and adjusted funds flow in 2020. In the first quarter of 2021, a rapid increase in oil prices created significant realized and unrealized hedging losses which negatively impacted the loss, cash flow from operating activities and adjusted funds flow.

Cardinal's quarterly earnings and losses have varied significantly due to non-cash unrealized gains and losses on risk management contracts. The Company's earnings also fluctuate with non-cash impairment charges and reversals of previous impairments on its assets as shown with a \$23.4 million impairment charge in the fourth quarter of 2019 and an impairment charge of \$343 million in the first quarter of 2020. A portion of this impairment charge was reversed in the fourth quarter of 2020 when forecasted oil prices partially recovered which positively impacted earnings by \$122.7 million. In the second quarter of 2019, the Company's deferred tax expense increased by \$16.5 million as the deferred tax asset was reduced due to the Alberta governments decrease in tax rates from 12% to 8% over the next four years. As the Company did not have sufficient certainty regarding future utilization of all of its tax pools, Cardinal derecognized its deferred tax asset and recognized an expense of \$102.9 million in the first quarter of 2021, the Company recognized a re-measurement loss on its warrant liability of \$12.9 million.

FORWARD LOOKING STATEMENTS

This MD&A contains certain forward-looking statements and forward-looking information (collectively referred to herein as "forward-looking statements") within the meaning of applicable Canadian securities laws. All statements other than statements of present or historical fact are forward-looking statements. Forward-looking information is often, but not always, identified by the use of words such as "anticipate", "believe", "plan", "intend", "objective", "continuous", "ongoing", "estimate", "expect", "may", "will", "project", "should", or similar words suggesting future outcomes. In particular, this MD&A contains forward-looking statements relating, but not limited to:

- plans to increase well reactivation activity;
- estimated tax pools, future taxability and future taxable income;
- expectations with respect to the outcome of the CRA dispute;
- plans to manage liquidity and continue to reduce debt;
- future cash flow from operating activities;
- 2021 capital expenditure plans;
- Cardinal's business strategy, goals and management focus;
- Cardinal's dividend plans;
- targeted net debt to adjusted funds flow ratio and plans to monitor this ratio;
- Cardinal's risk management strategy including the mitigation of our exposure to commodity price risk, medium crude oil differentials, foreign exchange risk on borrowings and the benefits to be obtained therefrom;
- sources of funds for the Company's operations, capital expenditures, and decommissioning obligations;
- plans to minimize the environmental impact of our operations;
- abandonment and reclamation spending plans including the timing thereof;
- anticipated costs of compliance with environmental legislation;
- future liquidity and the Company's access to sufficient debt and equity capital;
- Cardinal's asset base;
- expectations regarding the business environment, industry conditions, future commodity prices and differentials;
- Cardinal's capital management strategies; and
- treatment under governmental and other regulatory regimes and tax, environmental and other laws.

Forward-looking statements regarding Cardinal are based on certain key expectations and assumptions of Cardinal concerning the impact of COVID-19; anticipated financial performance, business prospects, strategies, regulatory developments, current and future commodity prices and exchange rates, applicable royalty rates, tax laws, production shut-ins, future well production rates and reserve volumes, future operating costs, the performance of existing and future wells, the success of our exploration and development activities, the sufficiency and timing of

budgeted capital expenditures in carrying out planned activities, the timing and success of our cost cutting initiatives, the availability and cost of labor and services, the impact of increasing competition, conditions in general economic and financial markets, availability of drilling and related equipment, effects of regulation by governmental agencies, the ability to obtain financing on acceptable terms which are subject to change based on commodity prices, market conditions, and drilling success .

These forward-looking statements are subject to numerous risks and uncertainties, certain of which are beyond Cardinal's control. Such risks and uncertainties include, without limitation: the impact of general economic conditions; volatility in market prices for crude oil and natural gas; impact of COVID-19 and the ability of the Company to carry on operations as contemplated in light of COVID-19; determinations by OPEC and other countries as to production levels; industry conditions; currency fluctuations; imprecision of reserve estimates; liabilities inherent in crude oil and natural gas operations; environmental risks; incorrect assessments of the value of acquisitions and exploration and development programs; competition from other producers; the lack of availability of qualified personnel, drilling rigs or other services; changes in income tax laws or changes in royalty rates and incentive programs relating to the oil and gas industry including government curtailment programs; hazards such as fire, explosion, blowouts, and spills, each of which could result in substantial damage to wells, production facilities, other property and the environment or in personal injury; and ability to access sufficient capital from internal and external sources.

Management has included the forward-looking statements above and a summary of assumptions and risks related to forward-looking statements provided in this MD&A in order to provide readers with a more complete perspective on Cardinal's future operations and such information may not be appropriate for other purposes. Cardinal's actual results, performance or achievement could differ materially from those expressed in, or implied by, these forward-looking statements and, accordingly, no assurance can be given that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do so, what benefits that Cardinal will derive there from. Readers are cautioned that the foregoing lists of factors are not exhaustive. These forward-looking statements are made as of the date of this MD&A and Cardinal disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise, other than as required by applicable securities laws.

Supplemental Information Regarding Product Types

This MD&A includes references to 2019, 2020 and 2021 production. The Company discloses crude oil production based on the pricing index that the oil is priced off of. The following table is intended to provide the product type composition as defined by NI 51-101.

	LIGHT/MEDIUM			CONVENTIONAL	
	CRUDE OIL	HEAVY OIL	NGL	NATURAL GAS	TOTAL (BOE/D)
Q1/21	54%	26%	7%	13%	18,385
Q4/20	55%	26%	7%	12%	18,625
Q3/20	56%	27%	5%	12%	17,657
Q2/20	57%	27%	4%	12%	17,169
Q1/20	56%	28%	4%	12%	20,323
Q4/19	56%	27%	4%	13%	20,227
Q3/19	54%	29%	5%	12%	20,059
Q2/19	54%	29%	4%	13%	20,587
2020	57%	26%	5%	12%	18,442
Frequently Used Terms					
Term or abbreviation					
"bbl"		Barrel(s)			
"bbl/d"		Barrel(s) per day			

"boe"

"boe/d"

"COGE Handbook"

"GJ" "gj/d"

"m" preceding a volumetric measure

"mcf"
"mcf/d"
"NGL"
"n/m"
"US"

"USD"
"WCS"
"WTI"

Barrel(s) of oil equivalent

Barrel(s) of oil equivalent per day

Canadian Oil and Gas Evaluation Handbook

Gigajoule

Gigajoule(s) per day

1,000 units of the volumetric measure

Thousand cubic feet

Thousand cubic feet per day

Natural gas liquids

Not meaningful ie. absolute value greater than 300%

United States

United States dollars Western Canadian Select West Texas Intermediate