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CONDENSED INTERIM FINANCIAL REPORT

Third quarter 2020 Results

November 5, 2020

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FORWARD-LOOKING STATEMENTS

This document includes “forward-looking statements”. We have based these forward-looking statements on our current views and assumptions about future events.

These forward-looking statements involve certain risks and uncertainties. Factors that could cause actual results to differ materially from those contemplated by the forward-looking statements include, among others, the following risk factors:

Risks relating to our Business

- ▶ Customer satisfaction is important to our continued visibility
- ▶ Our proprietary technology could be rendered obsolete or be misappropriated by third parties
- ▶ We are subject to risks related to our information technology, including cyber security risks and risks of hardware and software failures
- ▶ We rely on third party supplies and are subject to disruptions outside our control
- ▶ We are subject to risks related to our international operations and geopolitical volatility
- ▶ We must sometimes provide performance bonds or guarantees to third parties
- ▶ Our reputation is important to our business
- ▶ Our backlog includes contracts that can be unilaterally delayed or terminated at the client’s option
- ▶ We are subject to risks related to our Marine acquisition exit

Risks relating to our Industry

- ▶ We are subject to economic uncertainty, volatility of oil and natural gas prices and conditions in financial markets
- ▶ The volume of our business depends on the level and location of capital expenditures by the oil and gas industry
- ▶ We need to attract and retain talented employees

Financial Risks

- ▶ We face risks (liquidity, asset valuation) related to the Covid-19 outbreak
- ▶ We are exposed to exchange rate fluctuations
- ▶ We must comply with the restrictions and covenants in our current and future debt agreements
- ▶ Our debt may adversely affect our financial health and pose risks to our liquidity
- ▶ We face the risk of payment, supplier and other types of fraud
- ▶ We are exposed to commercial, political and counterparty risk
- ▶ We invest significant amounts of money in our Multi-client library, which we may not recover
- ▶ We may need to impair goodwill on our balance sheet
- ▶ We are subject to inherent rate risk on our floating rate debt
- ▶ We are restricted in our ability to pay dividends

Legal and Regulatory Risks

- ▶ We remain subject to the terms of the Safeguard Plan
- ▶ Our business and that of our customers are subject to complex laws and governmental regulations, and we may be subject to legal proceedings
- ▶ We may not be successful in maintaining the necessary regulatory authorization or licenses needed to operate our business and such authorizations and licenses may be invalid or may be subject to termination, revocation or material alterations in the event of a breach

Environmental and Social Risks

- ▶ We may face risks of health and safety, especially in the context of the Covid-19 outbreak
- ▶ We are exposed to financial risks related to compliance with environmental laws

Certain of these risks are described in our Universal Registration Document for the year ended December 31, 2019; the French version of which we filed with the AMF on April 14, 2020. Our Universal Registration Document is available in French and English on our website at www.cgg.com or on the website maintained by the AMF (French only) at www.amf-france.org. You may request a copy of our Universal Registration Document, which includes our complete audited financial statements, at no charge, by calling our investor relations department at + 33 1 6447 3811, sending an electronic message to invrelparis@cgg.com or invrelhouston@cgg.com or writing to CGG – Investor Relations Department – 27, avenue Carnot – 91341Massy, France.

FINANCIAL STATEMENTS

Unaudited Interim Consolidated statements of operations

<i>(In millions of US\$, except per share data)</i>	Notes	Nine months ended September 30,	
		2020	2019
Operating revenues	11	668.9	930.1
Other income from ordinary activities		0.5	0.5
Total income from ordinary activities		669.4	930.6
Cost of operations		(538.4)	(652.3)
Gross profit		131.0	278.3
Research and development expenses - net		(12.9)	(17.9)
Marketing and selling expenses		(25.2)	(34.3)
General and administrative expenses		(52.9)	(54.0)
Other revenues (expenses) - net	13	(154.8)	(2.9)
Operating income (loss)	11	(114.8)	169.2
Expenses related to financial debt		(101.6)	(100.8)
Income provided by cash and cash equivalents		1.9	2.5
Cost of financial debt, net		(99.7)	(98.3)
Other financial income (loss)	14	(41.8)	3.5
Income (loss) before incomes taxes		(256.3)	74.4
Income taxes		(36.8)	(11.2)
Net income (loss) from consolidated companies before share of income (loss) in companies accounted for under the equity method		(293.1)	63.2
Share of income (loss) in companies accounted for under the equity method	11	0.1	(0.1)
Net income (loss) from continuing operations		(293.0)	63.1
Net income (loss) from discontinued operations	3	(45.0)	(150.5)
Net income (loss)		(338.0)	(87.4)
<i>Attributable to :</i>			
<i>Owners of CGG S.A</i>		(339.6)	(94.2)
<i>Non-controlling interests</i>		1.6	6.8
Net income (loss) per share			
Basic		(0.48)	(0.13)
Diluted		(0.48)	(0.13)
Net income (loss) from continuing operations per share			
Basic		(0.41)	0.08
Diluted		(0.41)	0.08
Net income (loss) from discontinued operations per share			
Basic		(0.06)	(0.21)
Diluted		(0.06)	(0.21)

See the notes to the Unaudited Interim Consolidated Financial Statements

Unaudited Interim Consolidated statements of comprehensive income (loss)

<i>(In millions of US\$)</i>	Nine months ended September 30,	
	2020 (*)	2019 (*)
Net income (loss) from statements of operations	(338.0)	(87.4)
Net gain (loss) on cash flow hedges	(0.1)	(0.4)
Exchange differences on translation of foreign operations	7.1	2.9
Net other comprehensive income (loss) to be reclassified in profit (loss) in subsequent period (a)	7.0	2.5
Net gain (loss) on actuarial changes on pension plan	—	(2.1)
Net other comprehensive income (loss) not to be reclassified in profit (loss) in subsequent period (b)	—	(2.1)
Total other comprehensive income (loss) for the period, net of taxes (a) + (b)	7.0	0.4
Total comprehensive income (loss) for the period	(331.0)	(87.0)
<i>Attributable to :</i>		
<i>Owners of CGG S.A.</i>	<i>(333.4)</i>	<i>(92.5)</i>
<i>Non-controlling interests</i>	<i>2.4</i>	<i>5.5</i>

(*) Including other comprehensive income related to the discontinued operations, which is not material.

Unaudited Consolidated statements of financial position

<i>(In millions of US\$)</i>	Notes	September 30, 2020	December 31, 2019
ASSETS			
Cash and cash equivalents		464.5	610.5
Trade accounts and notes receivable, net		259.0	436.0
Inventories and work-in-progress, net		236.9	200.1
Income tax assets		86.2	84.9
Other current assets, net		84.9	116.7
Assets held for sale, net	3	134.3	316.6
Total current assets		1,265.8	1,764.8
Deferred tax assets	12	10.7	19.7
Investments and other financial assets, net	4	33.9	27.4
Investments in companies under the equity method		3.6	3.0
Property, plant and equipment, net		278.9	300.0
Intangible assets, net	5	654.5	690.8
Goodwill, net	6	1,181.5	1,206.9
Total non-current assets		2,163.1	2,247.8
TOTAL ASSETS		3,428.9	4,012.6
LIABILITIES AND EQUITY			
Financial debt – current portion		73.4	59.4
Trade accounts and notes payables		83.0	117.4
Accrued payroll costs		123.1	156.6
Income taxes payable		73.0	59.3
Advance billings to customers		22.3	36.9
Provisions — current portion	9	55.5	50.0
Other current financial liabilities	7	37.0	—
Other current liabilities	8	230.9	327.3
Liabilities directly associated with the assets classified as held for sale	3	8.1	259.2
Total current liabilities		706.3	1,066.1
Deferred tax liabilities	12	15.8	10.4
Provisions — non-current portion	9	48.0	58.1
Financial debt – non-current portion		1,301.1	1,266.6
Other non-current financial liabilities	7	47.9	—
Other non-current liabilities	8	47.8	4.0
Total non-current liabilities		1,460.6	1,339.1
Common stock: 1,194,086,134 shares authorized and 711,324,363 shares with a €0.01 nominal value outstanding at September 30, 2020		8.7	8.7
Additional paid-in capital		1,687.1	3,184.7
Retained earnings		(371.9)	(1,531.1)
Other Reserves		(33.1)	(23.5)
Treasury shares		(20.1)	(20.1)
Cumulative income and expense recognized directly in equity		(0.8)	(0.7)
Cumulative translation adjustment		(48.9)	(56.3)
Equity attributable to owners of CGG S.A.		1,221.0	1,561.7
Non-controlling interests		41.0	45.7
Total equity		1,262.0	1,607.4
TOTAL LIABILITIES AND EQUITY		3,428.9	4,012.6

See the notes to the Unaudited Interim Consolidated Financial Statements

Unaudited Consolidated statements of cash flows

(In millions of US\$)	Notes	Nine months ended September 30,	
		2020	2019
OPERATING			
Net income (loss)		(338.0)	(87.4)
Less: Net income (loss) from discontinued operations	3	(45.0)	(150.5)
Net income (loss) from continuing operations		(293.0)	63.1
Depreciation, amortization and impairment		136.5	98.0
Multi-client surveys impairment and amortization	5	227.4	175.6
Depreciation and amortization capitalized in Multi-client surveys		(13.2)	(5.9)
Variance on provisions		22.5	1.7
Share-based compensation expenses		3.9	4.0
Net (gain) loss on disposal of fixed and financial assets		—	(0.1)
Equity (income) loss of investees		(0.1)	0.1
Dividends received from investments in companies under the equity method		—	—
Other non-cash items	14	41.8	(2.8)
Net cash-flow including net cost of financial debt and income tax		125.8	333.7
Less : net cost of financial debt		99.7	98.3
Less : income tax expense (gain)		36.8	11.2
Net cash-flow excluding net cost of financial debt and income tax		262.3	443.2
Income tax paid		(3.4)	(19.3)
Net cash-flow before changes in working capital		258.9	423.9
Changes in working capital		(20.5)	148.5
- change in trade accounts and notes receivable		70.6	199.6
- change in inventories and work-in-progress		(34.8)	(17.7)
- change in other current assets		(6.1)	(13.8)
- change in trade accounts and notes payable		(14.9)	(1.8)
- change in other current liabilities		(35.3)	(17.8)
Net cash-flow provided by operating activities		238.4	572.4
INVESTING			
Total capital expenditures (including variation of fixed assets suppliers, excluding Multi-client surveys)	11	(49.8)	(52.3)
Investment in Multi-client surveys, net cash	11	(198.0)	(153.2)
Proceeds from disposals of tangible and intangible assets		0.3	(0.1)
Total net proceeds from financial assets		—	—
Acquisition of investments, net of cash and cash equivalents acquired		(0.4)	—
Variation in loans granted		—	—
Variation in subsidies for capital expenditures		—	—
Variation in other non-current financial assets		12.0	0.6
Net cash-flow used in investing activities		(235.9)	(205.0)

<i>(In millions of US\$)</i>	Notes	Nine months ended September 30,	
		2020	2019
FINANCING			
Repayment of long-term debt	2	(5.2)	—
Total issuance of long-term debt		—	—
Lease repayments		(43.6)	(41.1)
Change in short-term loans		—	0.1
Financial expenses paid		(46.5)	(47.5)
Net proceeds from capital increase:			
— from shareholders		—	—
— from non-controlling interests of integrated companies		—	—
Dividends paid and share capital reimbursements:			
— to shareholders		—	—
— to non-controlling interests of integrated companies		(7.2)	(3.8)
Acquisition/disposal from treasury shares		—	—
Net cash-flow provided by (used in) financing activities		(102.5)	(92.3)
Effects of exchange rates on cash		6.5	(14.5)
Impact of changes in consolidation scope		—	—
Net cash flows incurred by discontinued operations	3	(52.5)	(99.1)
Net increase (decrease) in cash and cash equivalents		(146.0)	161.5
Cash and cash equivalents at beginning of year		610.5	434.1
Cash and cash equivalents at end of period		464.5	595.6

See the notes to the Unaudited Interim Consolidated Financial Statements

Unaudited Consolidated statements of changes in equity

	Number of Shares issued	Share capital	Additional paid-in capital	Retained earnings	Other reserves	Treasury shares	Income and expense recognized directly in equity	Cumulative translation adjustment	Equity attributable to owners of CGG S.A.	Non- controlling interests	Total equity
<i>Amounts in millions of US\$, except share data</i>											
Balance at December 31, 2018	709,944,816	8.7	3,184.6	(1,457.8)	(27.9)	(20.1)	(0.9)	(55.1)	1,631.5	42.6	1,674.1
IFRS 16 First Time Application				0.6					0.6		0.6
Balance at January 1, 2019	709,944,816	8.7	3,184.6	(1,457.2)	(27.9)	(20.1)	(0.9)	(55.1)	1,632.1	42.6	1,674.7
Net gain (loss) on actuarial changes on pension plan (1)				(2.1)					(2.1)		(2.1)
Net gain (loss) on cash flow hedges (2)							(0.4)		(0.4)		(0.4)
Exchange differences on foreign currency translation (3)								4.2	4.2	(1.3)	2.9
Other comprehensive income (1)+(2)+(3)				(2.1)			(0.4)	4.2	1.7	(1.3)	0.4
Net income (4)				(94.2)					(94.2)	6.8	(87.4)
Comprehensive income (1)+(2)+(3)+(4)				(96.3)			(0.4)	4.2	(92.5)	5.5	(87.0)
Exercise of warrants	6,830		0.1						0.1		0.1
Dividends									-	(3.8)	(3.8)
Cost of share-based payment				3.8					3.8		3.8
Exchange differences on foreign currency translation generated by the parent company					(6.4)				(6.4)		(6.4)
Changes in consolidation scope and other				(1.5)					(1.5)		(1.5)
Balance at September 30, 2019	709,951,646	8.7	3,184.7	(1,551.2)	(34.3)	(20.1)	(1.3)	(50.9)	1,535.6	44.3	1,579.9

	Number of Shares issued	Share capital	Additional paid-in capital	Retained earnings	Other reserves	Treasury shares	Income and expense recognized directly in equity	Cumulative translation adjustment	Equity attributable to owners of CGG S.A.	Non- controlling interests	Total equity
<i>Amounts in millions of US\$, except share data</i>											
Balance at January 1, 2020	709,956,358	8.7	3,184.7	(1,531.1)	(23.5)	(20.1)	(0.7)	(56.3)	1,561.7	45.7	1,607.4
Net gain (loss) on actuarial changes on pension plan (1)											
Net gain (loss) on cash flow hedges (2)							(0.1)		(0.1)		(0.1)
Exchange differences on foreign currency translation (3)								6.1	6.1	0.9	7.0
Other comprehensive income (1)+(2)+(3)							(0.1)	6.1	6.0	0.9	6.9
Net income (4)				(339.6)					(339.6)	1.6	(338.0)
Comprehensive income (1)+(2)+(3)+(4)				(339.6)			(0.1)	6.1	(333.6)	2.5	(331.0)
Exercise of warrants	10,664	0.0									
Dividends										(7.2)	(7.2)
Cost of share-based payment	1 357 341			3.5					3.5		3.5
Transfer to retained earnings of the parent company			(1,497.6)	1,497.6							
Exchange differences on foreign currency translation generated by the parent company					(11.5)				(11.5)		(11.5)
Changes in consolidation scope and other				(2.3)	1.9			1.3	0.9		0.9
Balance at September 30, 2020	711,324,363	8.7	1,687.1	(371.9)	(33.1)	(20.1)	(0.8)	(48.9)	1,221.0	41.0	1,262.0

NOTE 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

CGG S.A. (“the Company”), along with its subsidiaries (together, the “Group”) is a global geoscience technology leader providing a comprehensive range of data, products, services and equipment that support the discovery and responsible management of the Earth’s natural resources.

Given that the Company is listed on a European Stock Exchange and pursuant to European regulation n°1606/2002 dated July 19, 2002, the accompanying interim condensed consolidated financial statements have been prepared in accordance with *International Financial Reporting Standards* (“IFRS”) and its interpretations, as issued by the *International Accounting Standards Board* (IASB) and adopted by the European Union as at September 30, 2020.

The Board of Directors has authorized these interim condensed consolidated financial statements for issue on November 4, 2020.

The interim condensed consolidated financial statements are presented in U.S. dollars and have been prepared on a historical cost basis, except for the non-current assets held for sale, the disposal groups, certain financial assets and liabilities that have been measured at fair value.

1.1 - Critical accounting policies

The interim condensed consolidated financial statements do not include all the information and disclosures required in the annual financial statements, and should be read in conjunction with the Group’s annual financial statements as of and for the year ended December 31, 2019 included in its Universal Registration Document for the year 2019 filed with the AMF on April 14, 2020 and approved by the General Meeting on June 16, 2020.

The accounting policies adopted in the preparation of the interim condensed consolidated financial statements are consistent with those followed in the preparation of the Group’s annual financial statements for the year ended December 31, 2019, except for the adoption of the following new Standards, Amendments, and Interpretations:

- ▶ Amendments to IFRS 3 Business Combinations
- ▶ Amendments to IFRS 9, IAS 39 and IFRS 7 “Interest Rate Benchmark Reform”
- ▶ Amendments to the Conceptual Framework in IFRS Standards

- ▶ Amendments to IAS 1 and IAS 8: Definition of Material
- ▶ Amendment to IFRS 16 Leases Covid 19-Related Rent Concessions

The adoption of the new Standards, Amendments, and Interpretations had no impact on the Group’s interim financial statements.

At the date of issuance of these interim condensed consolidated financial statements, the following Standards, Amendments, and Interpretations were issued but not yet adopted by the European Union and were thus not effective:

- ▶ IFRS 17 “Insurance Contracts”
- ▶ Amendments to IAS 1 : Classification of Liabilities as Current or Non-Current
- ▶ Amendments to IFRS 3 Business Combinations; IAS 16 Property, Plant and Equipment; IAS 37 Provisions, Contingent Liabilities and Contingent Assets as well as Annual Improvements 2018-2020
- ▶ Amendments to IFRS 4 Insurance Contracts – deferral of IFRS 9
- ▶ Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16: Interest Rate Benchmark Reform – Phase 2

The Group does not expect any significant impact on our consolidated accounts for the following Standards, Amendments and Interpretations:

- ▶ IFRS 17 “Insurance Contracts”
- ▶ Amendments to IFRS 3 Business Combinations; as well as Annual Improvements 2018-2020
- ▶ Amendments to IFRS 4 Insurance Contracts – deferral of IFRS 9
- ▶ Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16: Interest Rate Benchmark Reform – Phase 2

The review of the amendments IAS 1, IAS 16 Property, Plant and Equipment and IAS 37 Provisions is ongoing to assess the potential impacts on our consolidated financial statements.

1.2 - Use of judgment and estimates

The preparation of consolidated financial statements in accordance with IFRS requires management to make estimates, assumptions and judgments that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts

of revenues and expenses during the reporting period. Actual results could differ materially from those estimates due to changes in economic conditions, changes in laws and regulations, changes in strategy and the inherent imprecision associated with the use of estimates.

Key judgments and estimates used in the financial statements are summarized in the following table:

Note	Judgments and estimates	Key assumptions
Note 6	Recoverable value of goodwill and intangible assets	Expected geophysical market trends and timing of recovery Discount rate (WACC)
Notes 5 and 13	Amortization and impairment of Multi-client surveys	Expected sales for each survey
Note 3	Classification of disposal groups as held for sale	Likelihood of disposal within twelve months
	Valuation of disposal groups classified as held for sale	Assessment of disposal groups at fair value less cost to sell
Notes 4 and 14	Fair value of Shearwater Vendor Notes	Assessment of Shearwater (unlisted company) equity value
Notes 7 and 14	Fair value of Eidesvik put option	Assessment of Shearwater (unlisted company) equity value Volatility of Shearwater share price
Note 7	Idle Vessels Compensation (Capacity Agreement)	Shearwater fleet utilization assumptions over the five-year commitment period
Note 8	Off-Market component (Capacity Agreement)	Market rate over the five-year contractual term as estimated at Marine Closing Date
Note 11	Revenue recognition	Geoscience Contract completion rates
Note 12	Income tax liabilities – Uncertain tax positions	Assessment of most likely amount
	Deferred tax assets	Assumptions supporting the achievement of future taxable profits
Note 9	Provisions for restructuring	Assessment of future costs related to restructuring plans
	Discount rate IFRS 16	Assessment of incremental borrowing rate
	Recoverability of client receivables	Assessment of clients' credit default risk
Note 5	Depreciation and amortization of tangible and intangible assets	Assets useful lives
	Development costs	Assessment of future benefits of each project
Note 9	Post-employment benefits	Discount rate
		Enrollment rate in post-employment benefit plans
		Inflation rate
	Provisions for risks, claims and litigations	Assessment of risks considering court rulings and attorney's positions

Exit from Marine Data Acquisition business

At the beginning of the year, we delivered a key milestone on our strategic roadmap to an asset-light business model with the closing of our strategic partnership with Shearwater GeoServices Holding AS (“Shearwater”) in the Marine Data Acquisition business.

On January 8, 2020 (the “Marine Closing”), Shearwater acquired all of the shares in Global Seismic Shipping AS (“GSS”) (the indirect owner of five high end vessels) and five sets of streamers, and the Capacity Agreement (described below) entered into force. For the latest update related to the Streamer NewCo, please refer to note 15.

More precisely, the following transactions occurred on the Marine Closing:

- ▶ CGG acquired the 50% interest held by Eidesvik in GSS and indemnified Eidesvik for the end of the relationship with payment in Shearwater shares. CGG also granted Eidesvik an associated put option (the “Eidesvik Put Option”);
- ▶ Shearwater acquired 100% of GSS and the streamers from CGG with payment in Shearwater Vendor Notes exchangeable into Shearwater shares (the “Shearwater Vendor Notes”);
- ▶ The existing umbrella agreement and the existing bareboat charter agreements between CGG and GSS subsidiaries were terminated together with the guarantee granted by CGG;
- ▶ Shearwater CharterCo AS entered into five-year bareboat charter agreements with GSS subsidiaries, guaranteed by Shearwater, for the five high end vessels equipped with streamers (the “Shearwater Charter Agreements”) and CGG Services SAS entered into the Capacity Agreement;
- ▶ Under payment instructions agreement (the “Payment Instructions Agreement”), Shearwater and Shearwater CharterCo AS direct CGG Services SAS to pay amounts due under the Capacity Agreement directly to GSS subsidiaries to cover Shearwater CharterCo’s obligations under its bareboat charter agreements; and
- ▶ CGG also entered into step-in agreements with Shearwater and GSS (the “Step-In Agreements”) which could come into force if certain conditions are met and would require CGG to substitute itself for Shearwater CharterCo AS as charterer of GSS subsidiaries’ five high end seismic vessels (equipped with streamers).

As a result, CGG recognized the following items in these interim financial statements at the time of the Closing:

- ▶ US\$52.9 million of Shearwater Vendor Notes;
- ▶ US\$(148.0) million of liabilities related to the Capacity Agreement; and
- ▶ US\$(4.6) million of liability related to fair value of the Eidesvik Put Option.

Shearwater Vendor Notes

Those notes are exchangeable into Shearwater shares. They can also be used to setoff payment obligations or buy assets, if Shearwater agrees to. Shearwater is in no case required to

settle the notes with cash. If those notes are not settled by December 31, 2020, Shearwater may require CGG to use the notes as consideration in kind for the purchase of shares in Shearwater at a fixed price of US\$25.2262 per share. *Please refer to note 4.*

Capacity Agreement

The main terms of the Capacity Agreement are that CGG will:

- ▶ work exclusively with Shearwater’s global fleet of high-end 3D and source vessels for our Multi-client marine and nodes data acquisition projects up to 730 vessel days per year on average for the next five years;
- ▶ pay a pre-agreed day rate for the first 2.5 years and the higher of market rate or the pre-agreed day rate for the remaining 2.5 years;
- ▶ reimburse Shearwater for project-related operational costs and fuel ; and
- ▶ compensate Shearwater for days during which more than one of its high end seismic vessels are idle for a maximum of three vessels (the “Idle Vessels Compensation”).

The pre-agreed day rate as negotiated in summer 2019 is higher than the estimated average market day rate at the Marine closing date. Thus, an off-market operational liability of US\$(69.3) million was recognized at the Marine Closing date representing the net present value of the positive difference between the pre-agreed rate and the estimated market rate over the five-year contractual term. *Please refer to note 8.*

The Idle Vessels Compensation gave rise to a US\$(78.7) million financial liability at the Marine Closing date representing the net present value of expected payments under this clause. The expected payments were estimated based on Shearwater fleet utilization assumptions over the five-year commitment period. *Please refer to note 7 and 10.*

Eidesvik Put Option

Eidesvik has the right to sell all its Shearwater shares to CGG at a strike price of US\$30 million. The exercise period starts at the earlier of: i) the date of Shearwater IPO, and ii) 1 year after Marine Closing. It ends at the earlier of: i) 6 months after the date of Shearwater IPO, and ii) 3 years after Marine closing. The fair value of this put option has been assessed at US\$(4.6) million as of the Marine Closing Date. *Please refer to note 7 and note 10.*

Step-In Agreements

As described above, following the Marine Closing, Shearwater CharterCo AS has entered into five-year bareboat charter agreements with the GSS subsidiaries, guaranteed by Shearwater, for the five high-end vessels equipped with streamers. As part of the Step-In Agreement, CGG has agreed to substitute itself for Shearwater CharterCo AS as charterer of GSS subsidiaries’ five high-end seismic vessels (equipped with streamers) in the event of a payment default under the charter party between GSS subsidiaries and Shearwater CharterCo AS. This payment default can only be triggered either by CGG non-payment under the Payment Instructions Agreement, or by Shearwater’s insolvency.

Were the Step-in Agreements to be triggered:

- ▶ CGG would be entitled to terminate the Capacity Agreement;
- ▶ CGG would have the right to use the five high end seismic vessels equipped with streamers under bareboat charter agreements;
- ▶ CGG would be entitled, through pledge in its favor, to acquire all the share capital of GSS, knowing that GSS and subsidiaries' principal assets would be the vessels and streamers and its principal liabilities would be the external debt associated with the vessels.

The Step-In Agreements will not impact the statement of financial position unless a trigger, as described above, occurs. In such circumstances, the obligations under the Capacity Agreement should be terminated and replaced by the obligations under the Step-In Agreements, representing a lower amount of commitment compared to the Capacity Agreement.

For more information about the Exit from Marine Data Acquisition business and the strategic partnership with Shearwater, please refer to the notes 2 and 5 to our consolidated financial statements in the 2019 Universal Registration Document.

Covid-19 pandemic and drop in oil price

The Covid-19 pandemic that started at the beginning of the year has plunged the global economy into a deep recession leading to an unprecedented decline in the demand for oil and gas. The radical increase in supply by Saudi Arabia and Russia to gain market share from early March due to the inability of OPEC and oil producing countries to reach a consensus on supply cuts, further exacerbated the crisis. As a result, over the period, the Brent oil price plummeted drastically from trading in the high US\$60's per barrel during late 2019 down to US\$50 on March 5, 2020, the date of approval of the 2019 accounts by the CGG Board of Directors, and US\$25 on March 31, 2020. It rebounded with the steady recovery in the economy reaching US\$41 on June 30, 2020 and then fluctuated between US\$40 and US\$45 during the summer before closing at US\$41 as of September 30, 2020.

In this uncertain context, our clients reacted sharply and announced severe cuts in exploration and production spending (E&P), and deferrals of projects, by about 30% compared to the previous year. Although crude-oil prices improved from the lows in March, our clients remain prudent. Even though our markets stabilized in the third quarter as large Independents and National Oil Companies started to resume activity mainly in their core areas, we expect a very low market in 2020 and anticipate our operating result and our cash flows to be materially adversely affected.

It is difficult to predict how long the economic contraction and the imbalance between supply and demand in the oil market will persist, as well as the timing and breadth of the recovery of clients' activity. We believe though that the situation should gradually return to normal, with oil and gas continuing to play a primary role in the energy mix. Provided the pandemic remains under control, we anticipate, in line with the consensus and with our clients' forward view, that the oil price should recover around 2019 levels, at US\$60-65 for Brent, at the 2022/2023 horizon, driving E&P spending in the coming years.

With revenues from activities down 33% for the first nine months of the year 2020 compared to last year, the Group launched cost reduction actions to align its cost structure and protect cash going forward (the "Covid-19 plan").

The first measures were implemented during the period and US\$38 million of costs were incurred, mostly severance costs, as of September 30, 2020. The Group also reviewed the carrying value of its assets and liabilities and recorded an impairment of US\$169 million during the period, mainly including (i) US\$22 million of impairment loss related to fair value re-measurement of our GeoSoftware business available for sale (See note 3), (ii) US\$30 million of impairment loss related to fair value re-measurement of the Shearwater Vendor Notes (See note 4), (iii) US\$69 million of impairment loss on Multi-client library mainly in frontier exploration areas due to the current oil price environment (See note 5), (iv) US\$24 million of impairment loss relating to goodwill allocated to our Geoconsulting CGU (See note 6), (v) US\$14 million of loss related to the fair value re-measurement of the Eidesvik Put Option (See note 7) and (vi) US\$9 million of loss on deferred tax assets (See note 12).

In the period, the Group benefited from governments' support measures in certain countries triggering a positive cash impact of US\$10m million, including US\$5 million of tax and social contribution deferrals and US\$4 million of grants and subsidies.

The Group will continue to closely monitor the situation and outlook.

Launch of employment protection plan in France

In the context of the crisis linked to the massive cuts in E&P spending, the Group initiated an employment protection plan in France including a plan for voluntary departures. This project is subject to the process "information and consultation" with the Social and Economic Committee and to negotiations with the organizations representing employees. The plan aims to limit the number of compulsory departures, to provide the best possible support for employees leaving the company and to permit the Group to retain the skills and expertise necessary to carry out its activities. *Please refer to notes 9 and 13.*

Divestment from Seabed Geosolutions BV

In line with our strategy to exit the Contractual Data Acquisition business, on December 30, 2019 CGG SA entered into a Share Purchase and Exit Agreement to transfer on that date 15% (out of its total 40% stake) of its shares in the Seabed Geosolutions BV joint venture ("Seabed") to its partner Fugro NV ("Fugro"), with its remaining 25% shareholding to be transferred before April 1, 2020.

The full divestment from Seabed was effective on April 1, 2020 with the transfer of the remaining shares to Fugro.

Signature of an agreement for the sale of the Multiphysics activity

In line with its strategy to exit from the Contractual Data Acquisition business, the Group on August 5, 2020 entered into an agreement for the sale of its Multiphysics activity. The Closing of the sale should effectively take place at the beginning of the year 2021. *Please refer to note 3.*

CGG is pursuing the execution of its strategy in full compliance with all legal requirements.

Decision of the French Supreme Court

On July 17, 2018, certain holders of CGG's convertible bonds filed an appeal before the French Supreme Court (Cour de cassation) against the ruling rendered on May 17, 2018 by the Appeals Court of Paris rejecting a claim by a group of Convertible Bondholders against the ruling of the Commercial Court of Paris sanctioning the Safeguard Plan on December 1, 2017.

On February 26, 2020, the French Supreme Court (Cour de cassation) confirmed the ruling rendered by the Appeals Court of Paris and rejected the claim from a group of Convertible Bondholders, putting a definitive end to this litigation.

Safeguard procedure and early repayment of creditors

In September 2020, CGG SA organized the early repayment, of all of the creditors remaining under its safeguard plan approved by the judgment of the commercial court of Paris on December 1, 2017, with a view to the filing by the co-commissioners for the execution of the plan of a request to recognize the completion of the safeguard plan.

Subsequently, CGG recognized the following items during the period at the effective date of the payments:

- ▶ Cash out for US\$5.2 million and debt repayment for the same amount;
- ▶ Decrease of our debt for US\$3.0 million following the effect of the reversal of the discount.

NOTE 3 NON-CURRENT ASSETS HELD FOR SALE AND DISCONTINUED OPERATIONS

The 2021 strategic roadmap includes a transition to an asset-light model by reducing CGG's exposure to the contractual data acquisition business. As a result of these strategic announcements in November 2018 and actions undertaken subsequently, we presented our contractual data acquisition operations and the costs of implementation of the related measures, referred to as the CGG 2021 Plan, in accordance with IFRS 5, as discontinued operations and assets held for sale.

The fair value measurement of assets held for sale is categorized within Level 3 of the fair value hierarchy.

Disaggregation of assets

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Goodwill	1.2	23.0
Intangible assets, net	86.4	77.2
Property, plant and equipment, net	3.3	48.4
Right of use-assets	-	82.0
Investments in companies formerly under the equity method	35.0	72.0
Trade accounts and notes receivable, net	6.9	12.1
Other current assets, net	1.4	1.9
Other non-current assets, net	0.1	-
Assets held for sale, net ^(a)	134.3	316.6

(a) Decrease mainly related to Marine exit for US\$(144.6) million, equity investment for US\$(10.6) million and GeoSoftware for US\$(18.2) million.

As of September 30, 2020, the assets held for sale amounted to US\$134.3 million, which comprised US\$92.0 million of GeoSoftware assets and US\$42.3 million of Other Assets held for sale.

In 2019 the assets of our GeoSoftware business, part of our GGR segment, were reclassified to the line "assets held for sale" and liabilities to the line "liabilities directly associated with the asset classified as held for sale". The GeoSoftware activity does not meet the criteria of a major line of business under IFRS 5, therefore the GeoSoftware operations were not presented as discontinued operations in the consolidated statements of operations and in the consolidated statements of cash flows (hence triggering no retrospective presentation). Any sale of these related assets would be independent from the CGG 2021 Plan.

With the global economic crisis and the drop in oil price and E&P spending, the GeoSoftware business was remeasured triggering an impairment of US\$21.8 million as of September 30, 2020.

Disaggregation of liabilities

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Trade accounts and notes payable	1.6	2.6
Accrued payroll costs	0.3	3.2
Other current liabilities	5.9	-
Other non-current liabilities	0.3	1.7
Lease liability	-	190.7
Provisions for onerous contracts	-	61.0
Liabilities directly associated with the assets classified as held for sale ^(a)	8.1	259.2

(a) Decrease mainly related to Marine exit for US\$(252.8) million.

As of September 30, 2020, the liabilities directly associated with the assets classified as held for sale amounted to US\$(8.1) million, which comprised US\$(1.9) million for

GeoSoftware and US\$(6.2) millions for Liabilities directly associated with the Other Asset classified as held for sale.

Net income (loss) from discontinued operations

(In millions of US\$)	Nine months ended September 30,	
	2020	2019
Operating revenues	25.0	160.8
Operating income (loss)	(45.7)	(131.8)
Net income (loss) from discontinued operations	(45.0)	(150.5)

For the period ended September 30, 2020, we recognized US\$(44.0) million of restructuring costs as part of the CGG 2021 Plan including US\$(22.4) million of impairment of

assets, coming from the re-measurement to fair value less cost to sell of our disposal groups and US\$(16.0) million of ramp down costs.

Net cash flows incurred by discontinued operations are as follows

The following table presents the net cash flow from discontinued operations for each of the periods stated:

(In millions of US\$)	Nine months ended September 30,	
	2020	2019
Net cash-flow from discontinued operations	(52.5)	(99.1)

NOTE 4 INVESTMENTS AND OTHER FINANCIAL ASSETS

(In millions of US\$)	September 30, 2020	December 31, 2019
Vendor Notes (Capacity Agreement)	19.2	-
Non-consolidated investments	0.9	1.1
Loans and advances ^(a)	0.7	7.3
Deposits and other ^(b)	13.1	19.0
TOTAL	33.9	27.4

(a) The variance of US\$(6.6) million mainly corresponds to trust ("Fiducie") releasing of guarantees for US\$5.8 million,

(b) As of September 30, 2020, the amount of pledged financial assets was US\$13.0 million.

The Shearwater Vendor Notes was valued at US\$19.2 million as of September 30, 2020, compared to US\$52.9 million at the Marine Closing date. US\$3.5 million were used to settle various operational costs. A fair value adjustment of US\$(30.2) million was booked in a context of depressed oil and gas market environment. Please refer to note 14.

The fair value measurement of the Vendor Notes is categorized within Level 3 of the fair value hierarchy and the

valuation is based on Shearwater equity value estimate. External valuation firms have determined the Vendor Notes' fair value at the Marine Closing date as well as its reassessment as of June 30, 2020.

A change of +/- 10% in the Shearwater equity value estimate (as compared to value as at Marine Closing date), with all other assumptions being equal, would result in a respective +/- US\$4.3 million fair value impact on the Vendor Notes.

NOTE 5 INTANGIBLE ASSETS

As of September 30, 2020, the net intangible assets amounted to US\$654.5 million compared to US\$690.8 million as of December 31, 2019. The variance was mainly attributable to Multi-client surveys:

- ▶ The capitalization in Multi-client surveys for US\$211.2 million, including a US\$182.4 million increase in offshore surveys gross value;
- ▶ The amortization on Multi-client surveys for US\$227.4 million, including US\$68.9 million of impairment loss triggered by the downward revision in sales forecasts

- ▶ mainly in frontier exploration areas (mostly Africa and Ireland) due to the drop of the oil price; and
- ▶ A negative impact from change in currency exchange rates of US\$13.7 million mostly relating to the Brazilian library.

Variation of the period

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Balance at beginning of period	1,206.9	1,229.0
Increase	-	-
Impairment	(24.0)	-
Reclassification of intangible assets as "Assets held for sale" ^(a)	-	(23.0)
Change in exchange rates	(1.4)	0.9
Balance at end of period	1,181.5	1,206.9

(a) Goodwill associated to GeoSoftware activity was reclassified in asset held for sale

Impairment review

The Group management undertakes at least an annual impairment test covering goodwill, intangible assets and indefinite life assets allocated to the cash generating units (CGU) to consider whether an impairment is required.

This review is conducted at year-end, unless there is an indication of potential loss of value. With the collapse in the oil price and the severe E&P spending cuts, we conducted a Goodwill impairment test as at June 30, 2020, which ended up with the impairment of the goodwill allocated to our Geoconsulting CGU for US\$24 million. No trigger event was

identified as of September 30, 2020. The information disclosed in this note are the expected discounted cash flows as determined as at June 30, 2020, the assumptions of which are deemed to remain valid in conjunction with the capital employed as of September 30, 2020.

The recoverable amount retained by the Group corresponded to the value in use of the assets, cash generating units or group of cash generating units, defined as the discounted expected cash flows.

The following table provides the split of the total Group Goodwill per segment after current period impairment:

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Contractual Data Acquisition	-	-
<i>CGU Multi-client</i>	284	284
<i>CGUs in Geoscience</i>	724	748
GGR	1,008	1,032
Equipment	174	175
Total	1,182	1,207

Key assumptions used in the determination of recoverable amount

In determining the asset recoverable amount through value in use, management makes estimates, judgments and assumptions on uncertain matters. For each cash generating unit tested for goodwill impairment, the value in use is determined based on economic assumptions and forecasted operating conditions as follows:

- ▶ Expected cash flows estimated over explicit period 2020-2023,
- ▶ Use of normative cash flows, the discounted normative cash flows weigh more than 90% of the total value in use,
- ▶ Long-term growth rate at 2.0% for all the CGUs,
- ▶ Discount rates which we consider reflecting the respective sectors weighted average cost of capital (WACC):
 - » 10.0% for the Equipment segment (compared to 9.75% in 2019) corresponding to a pre-tax rate of 12.3%;
 - » 9.625% for the cash generating units within the GGR segment (compared to 9.0% in 2019) corresponding to a pre-tax rate of 11.7%.

Our WACC is calculated using the standard Capital Asset Pricing Model (CAPM) methodology. We requested an external valuation firm to perform an independent assessment in 2020. The pre-tax WACC are computed by iteration: the discount rate leading to the same net present value is calculated with post-tax WACC with tax expenses and excluding tax impacts from cash flows projections.

The unprecedented crisis triggered by Covid-19 pandemic led to a large reduction in oil demand due to lockdown measures in the most of important economies worldwide. This resulted in the collapse of oil price and massive cuts in E&P spending by Oil & Gas companies.

This context opens a new period of high uncertainty for the whole oil and gas industry. We do not know how long this period of crisis will persist. For 2020, we expect very challenging market conditions to remain. We believe though that such an unbalanced situation between supply and demand in the oil market should normalize in the future, and in line with the consensus and with our clients' forward view, estimate that the oil price should progressively recover to 2019 levels, around US\$60-65 for Brent, at the 2022/2023

horizon, driving an increase of activity and E&P spending in the coming years. The financial projections of our CGU are built on such recovery path.

GGR

The massive cut in E&P spending is expected to impact strongly our GGR segment activity. If the first half of 2020 was supported by pre-Covid-19 backlog, the slow sales should materialize in the second half. We are responding to the current environment by:

- ▶ Aligning our cost structure with the new baseline;
- ▶ Preserving our investment in new MC surveys at a balanced level, focusing on acceptable levels of prefunding and predicted returns;

However, we are also:

- ▶ Continuing to invest in research and development, people development, and computer equipment to maintain our leadership in high-end imaging and strengthen our reservoir characterization monitoring. We believe this positioning is critical during the downturn and beyond.

The capital employed of the Multi-client CGU amounted to US\$642 million as of September 30, 2020, including US\$284 million of goodwill.

While expectations for this CGU have been lowered, there is no goodwill impairment to be recorded based on our long-term projections.

The capital employed of the Geoscience CGUs amounted to US\$924 million as of September 30, 2020, including

Sensitivity to changes in assumptions

Changing the assumptions selected by Group management, in particular the discount rate and the normative cash flows could significantly affect the evaluation of the value in use of our cash generating units and, hence, the Group's impairment test result. The profile of the business cycle could affect, to a lesser extent compared to the two previous

US\$724 million of goodwill, net of an impairment of US\$24 million for the goodwill allocated to Geoconsulting CGU. Indeed our Geoconsulting CGU, involved in upstream consulting, has been particularly hard hit by the cuts in clients' spending. As we do not expect a rapid recovery in this business, we accounted this aforementioned impairment.

US\$24 million impact related to impairment of goodwill as of September, 30 2020.

Equipment

In the current context, we expect the revenues of our Equipment business to be significantly impacted as the crisis led Sercel's clients to defer their investments. Going forward, we expect a solid rebound, in line with the trajectory mentioned above, fueled by Sercel's large installed base, its portfolio of new products and the diversification dynamics into non-oil sectors. In land acquisition equipment, we see some opportunities in India, Russia and North Africa, especially for the new generations of products, and in the Middle-East with some high-channel count crews ("mega crew"). While still very low currently, we also expect expansion of the marine equipment activity, supported by the obsolescence of streamers in operations and shrinking inventories from stacked vessels.

The capital employed of the Equipment CGU amounted to US\$555 million as of September 30, 2020, including US\$174 million of goodwill.

While the expectations have been lowered, there is no goodwill impairment to be recorded based on our long-term projections.

No impairment of goodwill recognized as of September 30, 2020.

assumptions, the evaluation of the value in use of our CGUs. The main assumptions of this impairment test as of June 30, 2020 is the gradual recovery scenario – depicted above - at the 2022/2023 horizon. Cash flows generated in 2022 and 2023 as well as in the normative year may vary depending upon the timing and breadth in recovery.

Changes to the assumptions used in the impairment test lead to the following:

Goodwill	Excess of the expected future Discounted cash flows over the carrying value of assets including goodwill	Sensitivity on 2022-2023 cash flows		Sensitivity on normative cash flows		Sensitivity on discount rate (after tax)		
		Decrease by 10%	Increase by 10%	Decrease by 10%	Increase by 10%	Decrease by 0.25bps	Increase by 0.25bps	
(In millions of US\$)								
CGU Multi-client	284	115	(6)	6	(69)	69	29	(27)
CGUs Geoscience	724	104	(7)	7	(96)	96	40	(38)
CGU Equipment	174	282	(7)	7	(75)	75	30	(29)
Total	1,182							

NOTE 7 OTHER CURRENT AND NON-CURRENT FINANCIAL LIABILITIES

Idle Vessel Compensation

The Idle Vessels Compensation (Capacity Agreement) gave rise to a US\$(78.7) million financial liability at the Marine Closing date representing the net present value of expected payments under this clause of agreement. The expected payments are based on Shearwater fleet utilization assumptions over the five-year commitment period.

The Idle Vessel Compensation is a debt at amortized costs. *Please refer to note 2.*

As of September 30, 2020, the outstanding Idle Vessels Compensation financial liability was US\$(65.9) million. The current portion of the Idle Vessels Compensation was US\$(18.0) million and the non-current portion was US\$(47.9) million.

Eidesvik Put Option

Eidesvik has the right to sell all its Shearwater shares to CGG at a strike price of US\$30 million. *Please refer to note 2.*

The oil market has suffered from price falls since December 31, 2019. In light of this, the fair value of the Eidesvik Put Option was re-measured leading to a US\$(14.4) million impact to reach US\$(18.9) million as of September 30, 2020 compared to US\$(4.6) million at Marine Closing date.

The fair value measurement of the put option is categorized within Level 3 of the fair value hierarchy and the valuation is based on our Shearwater equity value estimate. External

valuation firm has determined the put option fair value at the Marine Closing date as well as its reassessment as of June 30, 2020. The full amount is presented in the line Other current financial liabilities.

A change of +/- 10% in the Shearwater equity value estimate (as compared to value as at Marine Closing date), with all other assumptions being equal, would result in a respective +/- US\$3.1 million fair value impact of the put option.

NOTE 8 OTHER CURRENT AND NON-CURRENT LIABILITIES

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Value added tax and other taxes payable	30.7	40.8
Deferred revenue	187.2	280.7
Fair value of financial instruments	-	0.1
Off Market Component ^(a)	12.3	-
Other liabilities	0.7	5.7
Total other current liabilities	230.9	327.3

(a) "Capacity Agreement", see note 2.

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Research and development subsidies	0.2	0.2
Profit sharing scheme	2.1	3.2
Off Market Component ^(a)	45.4	-
Other non-current liabilities	0.1	0.6
Total other non-current liabilities	47.8	4.0

(a) "Capacity Agreement", see note 2.

NOTE 9 PROVISIONS

September 30, 2020

<i>(En millions de dollars US)</i>	Balance at beginning of year	Additions	Deductions (used)	Deductions (unused)	Others	Balance at end of period	Current	Non-current
Provisions for redundancy plan	-	38.3	(7.6)	-	(0.5)	30.2	30.2	-
Total Covid-19 plan ⁽¹⁾	-	38.3	(7.6)	-	(0.5)	30.2	30.2	-
Provisions for redundancy plan	28.5	0.7	(20.2)	(0.8)	(1.3)	6.9	6.9	-
Provisions for other restructuring costs	2.6	1.9	(1.9)	(0.1)	0.1	2.6	2.6	-
Provisions for onerous contracts	2.0	-	(0.7)	(0.1)	(0.2)	1.0	0.4	0.6
Total CGG 2021 plan	33.1	2.6	(22.8)	(1.0)	(1.4)	10.5	9.9	0.6
Retirement indemnity provisions ⁽²⁾	40.0	1.8	(4.8)	(3.8)	0.9	34.1	-	34.1
Customers guarantee provisions	2.7	1.3	(1.2)	-	0.2	3.0	-	3.0
Other provisions for restructuring costs	1.5	-	-	-	-	1.5	1.5	-
Provisions for cash-settled share-based payment arrangements	1.1	0.8	(0.4)	-	0.1	1.6	-	1.6
Other provisions for onerous contracts	0.8	0.1	(0.2)	-	-	0.7	0.2	0.5
Other provisions	28.9	3.7	(6.3)	(1.3)	(3.1)	21.9	13.7	8.2
Total other provisions	75.0	7.7	(12.9)	(5.1)	(1.9)	62.8	15.4	47.4
TOTAL PROVISIONS	108.1	48.6	(43.3)	(6.1)	(3.8)	103.5	55.5	48.0

(1) See Note 2

(2) The unused deduction for US\$3,8 million of retirement benefits is a collateral effect of the Covid-19 plan

NOTE 10 CONTRACTUAL OBLIGATIONS, COMMITMENTS AND CONTINGENCIES
Contractual obligations

<i>(In millions of US\$)</i>	September 30, 2020	December 31, 2019
Long-term debt obligations	1,642.8	1,688.9
Lease obligations – other than bareboat agreements	149.6	173.1
Lease obligations - bareboat agreements	-	326.3
Total obligations	1,792.4	2,188.3

The following table sets forth our future cash obligations (not discounted) on our contractual obligations and commitments as of September 30, 2020:

<i>(In millions of US\$)</i>	Payments due by period				Total
	Less than 1 year	2-3 years	4-5 years	After 5 years	
Long-term debt obligations:					
Financial debt (including cumulated PIK) ^(a)	-	627.8	744.3	0.6	1,372.7
Other long-term obligations (cash interest)	81.3	170.6	18.2	-	270.1
Total Long-term debt obligations	81.3	798.4	762.5	0.6	1,642.8
Lease obligations	55.7	58.9	23.0	12.0	149.6
Total Contractual Cash Obligations ^(b)	137.0	857.3	785.5	12.6	1,792.4

(a) PIK : Payment In Kind interest

(b) Payments in other currencies are converted into U.S. dollars at the September 30, 2020 exchange rates.

Other loan

Please refer to note 2 - Safeguard procedure and early repayment of creditors.

Capacity Agreement: Idle vessel compensation and Off-market component

As described in note 2 of the interim financial statements, on January 8, 2020, CGG and Shearwater entered in a Capacity Agreement at the Marine Closing Date, for which the main terms of the agreement are as follows:

- ▶ Work exclusively with Shearwater's global fleet of high-end 3D and source vessels for our Multi-client marine and nodes data acquisition projects up to 730 vessel days per year on average for the next five years:
 - » pay a pre-agreed day rate for the first 2.5 years and the higher of market rate or the pre-agreed day rate for the remaining 2.5 years;

- » reimburse Shearwater for project-related operational costs and fuel; and
- ▶ Compensate Shearwater for days during which more than one of its high-end seismic vessels are idle for a maximum of three vessels (the "Idle Vessels Compensation"). The maximum Idle Vessel Compensation for a full year represents US\$(21.9) million. As of September 30, 2020 the remaining maximum Idle Vessels Commitment until the end of the five-year commitment period was US\$(93.7) million.

Contingencies

As described in note 2 of the interim financial statements, CGG has agreed to substitute itself for Shearwater CharterCo AS as charterer of GSS subsidiaries' five high-end seismic vessels (equipped with streamers) in the event of a payment default under the charter party between the GSS subsidiaries and Shearwater CharterCo AS. This payment default can only be triggered either by CGG non-payment under the Payment Instructions Agreement, or by Shearwater's insolvency.

The Step-In Agreements will not impact the financial statement of position unless a trigger, as described above in Note 2, occurs. In such circumstances, the obligations under the Capacity Agreement should be terminated and replaced by the obligations under the Step-In Agreements, representing a lower amount of commitment compared to the Capacity Agreement.

Eidesvik Put Option

Please refer to note 7.

Group organization

Segment presentation and discontinued operations

The financial information by segment is reported in accordance with our internal reporting system and provides internal segment information that is used by the chief operating decision maker to manage and measure performance.

Until the last quarter of 2018, we organized our activities in four segments for financial reporting: (i) Contractual Data Acquisition, (ii) Geology, Geophysics & Reservoir (“GGR”), (iii) Equipment and (iv) Non-Operated Resources. In November 2018, we announced the new strategy for our Group that included the transition to an asset-light model by reducing CGG’s exposure to the Contractual Data Acquisition business. As a result of these strategic announcements and actions undertaken since then, our Contractual Data Acquisition segment and part of our Non-Operated Resources segment have been presented as discontinued operations in our income statement and as assets held for sale in our balance sheet in accordance with IFRS 5. The costs of implementation of our strategic plan described above, referred to as the “CGG 2021 Plan”, are reported in discontinued operations in the related Contractual Data Acquisition business lines.

Our Geology, Geophysics & Reservoir (“GGR”) and Equipment segments are reported in continuing operations.

Internal reporting and Segment presentation

Before the implementation of IFRS 15, the Group applied the percentage of completion method for recognizing Multi-client prefunding revenues. Following the implementation of IFRS 15, the Group recognizes Multi-client prefunding revenues only upon delivery of final processed data.

Although IFRS fairly presents the Group’s statement of financial position, for internal reporting purposes CGG management continues to apply the pre-IFRS 15 revenue recognition principles, with Multi-client prefunding revenues recorded based on percentage of completion. CGG management believes this method aligns revenues closely with the activities and resources used to generate it and provides useful information as to the progress made on Multi-client surveys, while also allowing for useful comparison across time periods.

CGG therefore presents the Group’s results of operations in two ways:

- ▶ the “Reported” or “IFRS” figures, prepared in accordance with IFRS, with Multi-client prefunding revenues recognized upon delivery of the final data; and
- ▶ the “Segment” figures, for purposes of internal management reporting, prepared in accordance with the

Group’s previous method for recognizing Multi-client prefunding revenues.

Other companies may present Segment and related measures differently than we do. Segment figures are not a measure of financial performance under IFRS and should not be considered as an alternative to operating revenues, operating income or any other measures of performance derived in accordance with IFRS as indicators of our operating performance.

Alternative Performance Measures

As a complement to Operating Income, EBIT may be used by management as a performance measure for segments because it captures the contribution to our results of the significant businesses that are managed through our joint ventures. We define EBIT as Operating Income plus our share of income in companies accounted for under the equity method.

We define EBITDAs as earnings before interest, tax, income from equity affiliates, depreciation, amortization net of amortization expense capitalized to Multi-client, and share-based compensation cost. Share-based compensation includes both stock options and shares issued under our share allocation plans. EBITDAs is presented as additional information because we understand that it is a measure used by certain investors to determine our operating cash flow and historical ability to meet debt service and capital expenditure requirements.

Inter-segment transactions are made at arm’s length prices. They relate primarily to geophysical equipment sales made by the Equipment segment. These inter-segment revenues and the related earnings are eliminated in consolidation in the tables that follow under the column “Eliminations and other”.

Operating Income and EBIT may include non-recurring or restructuring items, which are disclosed in the reportable segment if material. General corporate expenses, which include Group management, financing, and legal activities, have been included in the column “Eliminations and other” in the tables that follow. The Group does not disclose financial expenses or financial revenues by segment because they are managed at the Group level.

Identifiable assets are those used in the operations of each segment. Unallocated and corporate assets consist of “investments and other financial assets” and “cash and cash equivalents” of our consolidated statement of financial position. The group does not track its assets based on country of origin.

Capital employed is defined as “total assets” excluding “cash and cash equivalents” less (i) “current liabilities” excluding “bank overdrafts” and “current portion of financial debt” and (ii) “non-current liabilities” excluding “financial debt”.

Analysis by segment (continuing operations)

Nine months ended September 30, 2020

Amounts in millions of US\$, except for assets and capital employed in billions of US\$	GGR	Equipment	Eliminations	Segment figures	IFRS 15 adjustments	Consolidated Total / As reported
Revenues from unaffiliated customers	491.6	180.5	-	672.1	(3.2)	668.9
Inter-segment revenues ⁽¹⁾	-	2.5	(2.5)	-	-	-
Operating revenues	491.6	183.0	(2.5)	672.1	(3.2)	668.9
Depreciation and amortization (excluding Multi-client surveys)	(112.5)	(23.4)	(0.6)	(136.5)	-	(136.5)
Depreciation and amortization of Multi-client surveys	(238.1)	-	-	(238.1)	10.7	(227.4)
Operating income ⁽²⁾	(85.9)	(16.4)	(20.0)	(122.3)	7.5	(114.8)
EBITDAs	253.5	7.4	(17.9)	243.0	(3.2)	239.8
Share of income in companies accounted for under the equity method	0.1	-	-	0.1	-	0.1
Earnings Before Interest and Tax ⁽²⁾	(85.8)	(16.4)	(20.0)	(122.2)	7.5	(114.7)
Capital expenditures (excluding Multi-client surveys) ⁽³⁾	31.3	16.8	1.7	49.8	-	49.8
Investments in Multi-client surveys, net cash	198.0	-	-	198.0	-	198.0
Capital employed ⁽⁴⁾	1.7	0.6	(0.1)	2.2	-	2.2
Total identifiable assets ⁽⁴⁾	2.3	0.6	-	2.9	-	2.9

(1) Sale of equipment to the Contractual Data Acquisition segment which is classified as discontinued operation.

(2) "Eliminations and other" corresponded to general corporate expenses.

(3) Capital expenditures included capitalized development costs of US\$(31.9) million for the nine months ended September 30, 2020. "Eliminations and other" corresponded to the variance of suppliers of assets for the nine months ended September 30, 2020.

(4) Capital employed and identifiable assets related to non-current assets held for sale and discontinued operations are included under the column "Eliminations and other".

Nine months ended September 30, 2019

Amounts in millions of US\$, except for assets and capital employed in billions of US\$	GGR	Equipment	Eliminations	Segment figures	IFRS 15 adjustments	Consolidated Total / As reported
Revenues from unaffiliated customers	685.2	319.2	-	1,004.4	(74.3)	930.1
Inter-segment revenues ⁽¹⁾	-	9.4	(9.4)	-	-	-
Operating revenues	685.2	328.6	(9.4)	1,004.4	(74.3)	930.1
Depreciation and amortization (excluding Multi-client surveys)	(75.0)	(22.5)	(0.6)	(98.0)	-	(98.0)
Depreciation and amortization of Multi-client surveys	(244.2)	-	-	(244.2)	68.6	(175.6)
Operating income ⁽²⁾	147.7	50.9	(23.6)	174.9	(5.7)	169.2
EBITDAs	463.0	73.6	(21.5)	515.2	(74.3)	440.9
Share of income in companies accounted for under the equity method	(0.1)	-	-	(0.1)	-	(0.1)
Earnings Before Interest and Tax ⁽²⁾	147.6	50.9	(23.6)	174.8	(5.7)	169.1
Capital expenditures (excluding Multi-client surveys) ⁽³⁾	37.7	13.8	0.8	52.3	-	52.3
Investments in Multi-client surveys, net cash	153.2	-	-	153.2	-	153.2
Capital employed ⁽⁴⁾	1.9	0.5	(0.1)	2.3	-	2.3
Total identifiable assets ⁽⁴⁾	2.2	0.6	0.6	3.4	-	3.4

(1) Sale of equipment to the Contractual Data Acquisition segment which is classified as discontinued operation.

(2) "Eliminations and other" corresponded to general corporate expenses.

(3) Capital expenditures included capitalized development costs of US\$(24.2) million for the nine months ended September 30, 2019. "Eliminations and other" corresponded to the variance of suppliers of assets for the nine months ended September 30, 2019.

(4) Capital employed and identifiable assets related to non-current assets held for sale and discontinued operations are included under the column "Eliminations and other".

The following table disaggregates our operating revenues by major sources for the period ended September 30, 2020:

(In millions of US\$)	Nine months ended September 30, 2020		
	GGR	Equipment	Consolidated Total
Multi clients prefunding	139.5		139.5
Multi clients after sales	96.0		96.0
Total Multi clients	235.5		235.5
Geoscience	252.9		252.9
Equipment, Land equipment		128.3	128.3
Equipment, Marine equipment		37.1	37.1
Equipment, Downhole Gauges		11.6	11.6
Equipment, Non-Oilfield related		6.0	6.0
Total equipment		183.0	183.0
Internal revenues		(2.5)	(2.5)
Total Group operating revenues as reported	488.4	180.5	668.9

NOTE 12 INCOME TAXES

As of September 30, 2020, the net deferred tax position amounted to US\$(5.1) million compared to US\$9.3 million at the end of December 2019.

This is mainly due to the US\$8.9 million impairment of deferred tax assets in the United Kingdom due to downward revision of the outlook following the share drop in the oil price and the massive reduction in E&P spending.

NOTE 13 OTHER REVENUES AND EXPENSES

As of September 30, 2020, the other revenues and expenses amounted to US\$(154.8) million compared to US\$(2.9) million at the end of September 2019.

They comprised US\$(68.9) million impairment on our Multi-client data library (see note 5), US\$(24.0) million goodwill

impairment (see note 6), US\$(21.8) million of fair value adjustment of our GeoSoftware business available for sale (see note 3) and US\$(37.7) million costs relating to the Covid-19 plan (mostly provisions for redundancy and severance costs).

NOTE 14 OTHER FINANCIAL INCOME

As of September 30, 2020, the other financial income and expenses amounted to a loss of US\$41.8 million, compared to an income of US\$3.5 million as of September 30, 2019, including US\$44.6 million re-measurements of fair value of other financial assets and liabilities and an exchange gain of

US\$2.2 million. These re-measurements of fair value concerned the Eidesvik Put Option for an amount of US\$14.4 million and the Shearwater Vendor Notes for an amount of US\$30.2 million. Please refer to note 4 and 7.

NOTE 15 SUBSEQUENT EVENTS

Sercel and Shearwater agreed to suspend negotiations on Marine streamer Newco

During October and due to the downturn in the oil & gas industry, triggered by the Covid-19 pandemic, CGG and Shearwater have jointly agreed to suspend negotiations around creating a marine streamer equipment joint venture until visibility in the streamer replacement cycle improves. Both parties continue to benefit from the marine acquisition partnership and remain committed to the establishment of its

technology component to further their mutually beneficial cooperation.

Safeguard procedure

On October 1, 2020, pursuant the organization of the early repayment of all the creditors remaining under the safeguard procedure, the co-commissioners for the execution of the plan filed a request to the Commercial Court of Paris to recognize the completion of the safeguard plan.

Group organization

Segment presentation and discontinued operations

The financial information by segment is reported in accordance with our internal reporting system and provides internal segment information that is used by the chief operating decision maker to manage and measure performance.

Until the last quarter of 2018, we organized our activities in four segments for financial reporting: (i) Contractual Data Acquisition, (ii) Geology, Geophysics & Reservoir (“GGR”), (iii) Equipment and (iv) Non-Operated Resources.

In November 2018, we announced the new strategy for our Group that included the transition to an asset-light model by reducing CGG’s exposure to the Contractual Data Acquisition business. As a result of these strategic announcements and actions undertaken since then, our Contractual Data Acquisition segment and part of our Non-Operated Resources segment have been presented as discontinued operations in our income statement and as assets held for sale in our balance sheet in accordance with IFRS 5. The costs of implementation of our strategic plan described above, referred to as the “CGG 2021 Plan”, are reported in discontinued operations in the related Contractual Data Acquisition business lines.

Our Geology, Geophysics & Reservoir (“GGR”) and Equipment segments are reported in continuing operations.

Internal reporting and Segment presentation

Before the implementation of IFRS 15, the Group applied the percentage of completion method for recognizing Multi-client prefunding revenues. Following the implementation of IFRS 15, the Group recognizes Multi-client prefunding revenues only upon delivery of final processed data.

Although IFRS fairly presents the Group’s statement of financial position, for internal reporting purposes CGG management continues to apply the pre-IFRS 15 revenue recognition principles, with Multi-client prefunding revenues recorded based on percentage of completion. CGG management believes this method aligns revenues closely with the activities and resources used to generate it and provides useful information as to the progress made on Multi-client surveys, while also allowing for useful comparison across time periods.

CGG therefore presents the Group’s results of operations in two ways:

- ▶ the “Reported” or “IFRS” figures, prepared in accordance with IFRS, with Multi-client prefunding revenues recognized upon delivery of the final data; and
- ▶ the “Segment” figures, for purposes of internal management reporting, prepared in accordance with the Group’s previous method for recognizing Multi-client prefunding revenues.

Other companies may present Segment and related measures differently than we do. Segment figures are not a measure of financial performance under IFRS and should not be considered as an alternative to operating revenues, operating income or any other measures of performance

derived in accordance with IFRS as indicators of our operating performance.

Geophysical Market Environment

Overall demand for geophysical services and equipment is dependent on spending by oil and gas companies for exploration, development and production and field management activities. We believe the level of spending of such companies depends on their assessment of their ability to efficiently supply the oil and gas market in the future and the current balance of hydrocarbon supply and demand. The geophysical market has historically been extremely volatile. We believe many factors contribute to the volatility of this market, such as the geopolitical uncertainties that can harm the confidence and visibility that are essential to our clients’ long-term decision-making processes and the expected balance in the mid- to long-term between supply and demand for hydrocarbons. Lower or volatile hydrocarbon prices tend then to limit the demand for seismic services and products. In recent years, oil and gas companies have reduced their exploration and production spending due to falling or volatile oil prices, affecting demand for our products and services as reflected in our results.

Covid-19 pandemic and drop in oil price

The Covid-19 pandemic that started at the beginning of the year has plunged the global economy into a deep recession leading to an unprecedented decline in the demand for oil and gas. The radical increase in supply by Saudi Arabia and Russia to gain market share from early March due to the inability of OPEC and oil producing countries to reach a consensus on supply cuts, further exacerbated the crisis. As a result, over the period, the Brent oil price plummeted drastically from trading in the high US\$60’s per barrel during late 2019 down to US\$50 on March 5, 2020, the date of approval of the 2019 accounts by the CGG Board of Directors, and US\$25 on March 31, 2020. It rebounded with the steady recovery in the economy reaching US\$41 on June 30, 2020 and then fluctuated between US\$40 and US\$45 during the summer before closing at US\$41 as of September 30, 2020.

In this uncertain context, our clients reacted sharply and announced severe cuts in exploration and production spending (E&P), and deferrals of projects, by about 30% compared to the previous year. Although crude-oil prices improved from the lows in March, our clients remain prudent. Even though our markets stabilized in the third quarter as large Independents and National Oil Companies started to resume activity mainly in their core areas, we expect a very low market in 2020 and anticipate our operating results and our cash flows to be materially adversely affected.

It is difficult to predict how long the economic contraction and the imbalance between supply and demand in the oil market will persist, as well as the timing and breadth of the recovery of clients’ activity. We believe though that the situation should gradually return to normal, with oil and gas continuing to play a primary role in the energy mix. Provided the pandemic remains under control, we anticipate, in line with the consensus and with our clients’ forward view, that the oil price should recover around 2019 levels, at US\$60-65 for Brent, at the 2022/2023 horizon, driving E&P spending in the coming years.

With revenues from activities down 33% for the first nine months of the year 2020 compared to last year, the Group launched cost reduction actions to align its cost structure and protect cash going forward (the “Covid-19 plan”).

In the period, the Group benefited from governments' support measures in certain countries triggering a positive cash impact of US\$10m million, including US\$5 million of tax and social contribution deferrals and US\$4 million of grants and subsidies.

The Group will continue to closely monitor the situation and outlook.

Impairment and non-recurring and restructuring costs

To adjust to the volatile market environment, the Group may have to incur non-recurring or restructuring costs. The Group had in the past and may have in the future impairment losses or write-offs as events or changes in circumstances occur that reduce the fair value of an asset below its book value.

In continuing operations, in the context of drop in oil price and E&P spending cuts, the Group recorded the following non-recurring charges in the period:

- ▶ US\$38 million of costs relating to the implementation of measures as part of Covid-19 plan, corresponding mainly to severance costs;
- ▶ US\$ 22 million of impairment loss related to fair value re-measurement of our GeoSoftware business available for sale (*See note 3*);
- ▶ US\$ 30 million of impairment loss related to fair value re-measurement of the Shearwater Vendor Notes (*See note 4*);
- ▶ US\$ 69 million of impairment loss on Multi-client library mainly in frontier exploration areas due to the current oil price environment (*See note 5*);
- ▶ US\$ 24 million of impairment loss relating to goodwill affected to our Geoconsulting CGU (*See note 6*);

- ▶ US\$ 14 million of loss related to the fair value re-measurement of the Eidesvik put option (*See note 7*); and
- ▶ US\$ 9 million of loss on deferred tax asset (*See note 12*).

In discontinued operations, the Group recorded the following charges in relation to CGG 2021 Plan:

- ▶ US\$2 million various final adjustments coming from Marine Acquisition exit Transaction;
- ▶ US\$20 million of wind-down costs linked to the exit from Contractual Data Acquisition;
- ▶ US\$22 million of loss on fair value remeasurement and impairment of our disposal groups.

Accounting policies

This operating and financial review and prospects should be read in conjunction with our consolidated interim financial statements and the notes thereto.

Please refer to note 1.

Significant events, Acquisitions and Divestures

During the period under review, the most significant external event was the unprecedented crisis triggered by Covid-19 pandemic, which led to a large reduction in oil demand after shutdown of world economies and resulted in the collapse of oil price and massive cuts in E&P spending by our clients.

The most significant change to our perimeter was the Closing of Marine strategic partnership with Shearwater on January 8, 2020.

Please refer to note 2.

Nine months ended September 30, 2020 compared to nine months ended September 30, 2019

Unless otherwise specified, comparisons made in this section are between the nine months ended September 30, 2020 and the nine months ended September 30, 2019. References to 2020 correspond to the nine months ended September 30, 2020 and references to 2019 correspond to the nine months ended September 30, 2019.

Operating revenues

The following table sets forth our operating revenues by division for each of the periods stated:

(In millions of US dollars)	Nine months ended September 30,						Increase/(Decrease)	
	2020			2019			2020 vs. 2019	
	Segment Figures	IFRS 15 adjustment	As reported	Segment Figures	IFRS 15 adjustment	As reported	Segment Figures	As reported
Geoscience	252.9		252.9	279.0		279.0	-9%	-9%
Multi-client data	238.7	(3.2)	235.5	406.2	(74.3)	331.9	-41%	-29%
GGR Revenues	491.6	(3.2)	488.4	685.2	(74.3)	610.9	-28%	-20%
Equipment Revenues	183.0		183.0	328.6		328.6	-44%	-44%
Eliminated revenues and others	(2.5)		(2.5)	(9.4)		(9.4)	-73%	-73%
Total operating revenues	672.1	(3.2)	668.9	1,004.4	(74.3)	930.1	-33%	-28%

Our consolidated operating revenues as reported, following the application of IFRS 15, decreased by 28% to US\$669 million in 2020 from US\$930 million in 2019.

Before IFRS 15 adjustments, our consolidated operating revenues decreased by 33% to US\$672 million in 2020 from US\$1,004 million in 2019, driven by declines in both GGR and Equipment. The respective contributions from the Group's businesses to our segment operating revenues were 73 % from GGR and 27 % from Equipment.

GGR

Operating revenues as reported from our GGR segment decreased by 20 % to US\$488 million compared to 2019. Before IFRS 15 adjustments, GGR segment revenues decreased by 28 % to US\$492 million from US\$685 million in 2019, with clients reprioritizing portfolios to factor in reductions in spending.

GEOSCIENCE

Despite the general slowdown of the economy pursuant to the Covid-19 pandemic and its effect on clients' E&P spending, Geoscience has continued to deliver quality work with the majority of its employees working remotely. Its activity remained resilient over the period, with revenues down 9 % to US\$253 million in 2020 compared to US\$279 million in 2019, driven by sustained activity levels in the main large imaging centers, GeoSoftware and dedicated processing centers.

MULTI-CLIENT DATA

Multi-client data revenues as reported decreased by 29% to US\$235 million in 2020 compared to US\$332 million in 2019. Before IFRS 15 adjustments, Multi-client data segment revenues decreased by 41 % at US\$239 million.

Prefunding revenues as reported increased by 58% to US\$139 million in 2020 from US\$82 million in 2019. Excluding IFRS 15 adjustment, prefunding revenue of our

Multi-client projects reached US\$143 million, down 9% from US\$156 million in 2019. Our Multi-client cash capex were up to US\$198 million from US\$153 million in 2019, while the cash-prefunding rate was at 72% from 102% in 2019.

After-sales revenues strongly decreased 62% to US\$96 million in 2020 as anticipated from US\$250 million in 2019, which included large one-off transfer fees in the third quarter of 2019.

Equipment

Total revenues for our Equipment segment (including internal and external sales) decreased 44 % to US\$183 million in 2020 from US\$329 million in 2019 with a drop in the equipment market triggered by the Covid-19 pandemic.

Internal sales represented 1% of total revenues in 2020 compared to 3% in 2019. External revenues for our Equipment segment decreased 43 % to US\$181 million in 2020 from US\$319 million in 2019.

- ▶ Land equipment sales represented 70 % of total revenues in 2020, compared to 73 % in 2019, with significant deliveries mainly in North Africa, Middle East, India and Russia, a reduction compared to last year. Additionally, the first land node WiNG system was delivered by Sercel in North America during the period.
- ▶ Marine equipment sales represented 20% of total revenues in 2020 compared to 17% in 2019 driven by sales of spares sections of Sentinel streamers' installed base.
- ▶ Downhole equipment and Non-Oil & Gas sales decreased to US\$18 million in 2020 compared to US\$33 million in 2019.

Operating expenses

The following table sets forth our operating expenses for each of the periods stated:

(In millions of US\$)	Nine months ended September 30,				Increase/(Decrease)	
	2020		2019		2020 vs. 2019	
	Segment Figures	As reported	Segment Figures	As Reported	Segment Figures	As reported
Operating revenues	672.1	668.9	1,004.4	930.1	-33%	-28%
Costs of Operations	(549.1)	(538.4)	(720.9)	(652.3)	-24%	-17%
% of operating revenues	-82%	-80%	-72%	-70%		
Gross Margin	123.5	131.0	284.0	278.3	-57%	-53%
% of operating revenues	18%	20%	28%	30%		
Research and Development	(12.9)	(12.9)	(17.9)	(17.9)	-28%	-28%
% of operating revenues	-2%	-2%	-2%	-2%		
Marketing and Selling	(25.2)	(25.2)	(34.3)	(34.3)	-27%	-27%
% of operating revenues	-4%	-4%	-3%	-4%		
General and Administrative	(52.9)	(52.9)	(54.0)	(54.0)	-2%	-2%
% of operating revenues	-8%	-8%	-5%	-6%		
Other incomes (expenses)	(154.8)	(154.9)	(2.9)	(2.9)		
Operating Income	(122.3)	(114.8)	174.9	169.2	-170%	-168%

Excluding impairment loss, the amortization cost of our Multi-client library as reported corresponded to 67% of the Multi-client data revenues as reported in 2020 compared to 53% in 2019. Excluding IFRS 15 adjustments, the segment amortization cost of our Multi-client library increased to 71% of the Multi-client data segment revenues in 2020 compared to 60% in 2019, mainly due to the decrease in sales and less favorable mix, with large one-off transfer fees in 2019, and impairment losses recorded in 2020.

As a percentage of operating revenues as reported, cost of operations as reported increased to 80% in 2020 from 70% in 2019. Excluding IFRS 15 adjustments, segment cost of operations, as a percentage of the segment operating revenues, increased to 82% in 2020 from 72% in 2019, mainly due to reduced activity triggering lower absorption of structure costs.

The decrease of US\$ 5 million in 2020 compared to 2019 in research and development was mainly due to the increase in development costs capitalization in our Equipment segment.

Marketing and Selling expenses and General and Administrative expenses decreased by 27% and 2% respectively in 2020 compared to 2019, mainly due to the impact of support costs reduction measures and a slightly more favorable exchange rate environment. The average exchange rate was set as US\$1.12 per euro for the nine months ended September 30, 2020 compared to US\$1.13 per euro in 2019.

Other expenses of US\$155 million were up made of the following:

- ▶ US\$38 million of costs relating to the implementation of measures as part of our Covid-19 plan, corresponding mainly to severance costs,
- ▶ US\$22 million of loss on fair value remeasurement of our GeoSoftware disposal group, part of Geoscience,

- ▶ US\$24 million of impairment loss relating to goodwill of our Geoconsulting cash generating unit, part of Geoscience,
- ▶ US\$69 million of Multi-client library impairment loss triggered by the downward revision in sales forecasts mainly in frontier exploration areas in the current depressed oil and gas market environment.

Operating income

Operating income as reported amounted to a loss of US\$115 million in 2020 as a result of the factors described above, compared to a gain of US\$169 million in 2019. Excluding IFRS 15 adjustments, segment operating income amounted to a loss of US\$122 million in 2020 compared to a gain of US\$175 million in 2019.

Segment operating income from our GGR segment was a loss of US\$86 million in 2020 compared to a gain of US\$148 million in 2019, strongly impacted by charges booked as a result of the depressed market pursuant to Covid-19 pandemic, while 2019 benefited from high one-off transfer fees.

Segment operating income from our Equipment segment recorded a loss of US\$16 million in 2020 compared to a gain of US\$51 million in 2019, mainly impacted by the drop in equipment market triggered by the Covid-19 crisis.

Financial income and expenses

Net cost of financial debt in 2020 was US\$100 million, which was stable compared to US\$98 million in 2019.

Other financial income and expenses amounted to a loss of US\$42 million in 2020, compared to an income of US\$4 million in 2019, including US\$45 million of loss on fair value re-measurement relating to other financial assets and liabilities linked to Marine Acquisition exit transaction.

Income taxes

Income taxes as reported amounted to an expense of US\$37 million in 2020 compared to a US\$11 million expense in 2019, including US\$9 million of impairment loss of deferred tax asset triggered by the downward revision of perspectives following the sharp drop of oil price.

Net Income from continuing operations

Net income from continuing operations as reported was a loss of US\$293 million in 2020 compared to a gain of US\$63 million in 2019 as a result of the factors discussed above.

Net Income from discontinued operations

Operating revenues for Contractual Data Acquisition decreased 84% to US\$25 million in 2020 from US\$161 million in 2019.

Net loss from discontinued operations amounted to US\$45 million in 2020 compared to a loss of US\$151 million in 2019.

Cash flows from continuing operations

Operating activities

The following table presents a summary of the net cash as reported related to operating activities for each of the periods stated:

<i>(In millions of US dollars)</i>	Nine months ended September 30,	
	2020	2019
Net cash before changes in working capital	258.9	423.9
Change in working capital	(20.5)	148.5
Net cash provided by operating activities	238.4	572.4

Before changes in working capital, net cash as reported provided by operating activities in 2020 was US\$259 million compared to US\$424 million in 2019, due to lower demand pursuant Covid-19 pandemic. Changes in working capital had a negative impact on cash from operating activities of US\$21 million in 2020, in anticipation of increasing sales in

Investing activities

The following table presents the main items linked to investing activities for each of the periods stated:

<i>(In millions of US dollars)</i>	Nine months ended September 30,	
	2020	2019
Net cash used in investing activities	247.6	205.6
Of which		
<i>Industrial capital expenditures</i>	17.9	28.1
<i>Capitalized development costs</i>	31.6	24.3
<i>Multi-client Data</i>	198.0	153.2

The net cash used in investing activities was US\$248 million in 2020 compared to US\$206 million in 2019, mainly driven

Net income

Net income as reported was a loss of US\$338 million in 2020 compared to a loss of US\$87 million in 2019

Liquidity and capital resources

Our principal financing needs are the funding of ongoing operations and capital expenditures, investments in our Multi-client data library, the funding of the measures relating to the "Covid-19 plan" and to the tails of the "CGG 2021 Plan" and of our debt services obligations. We do not have any major debt repayment scheduled before 2023, the maturity date of our first lien senior secured notes. We intend to fund our capital requirements through cash generated by operations and liquidity on hand. In the past, we have obtained financing through bank borrowings, capital increases and issuances of debt and equity-linked securities.

Our ability to make scheduled payments of principal, or to pay the interest or additional amounts, if any, or to refinance our indebtedness, or to fund planned capital expenditures will depend on our future performance, which, to a certain extent, is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control.

the coming fourth quarter of 2020, while a very favorable collection pattern materially impacted 2019.

Net cash provided by operating activities was US\$238 million in 2020 compared to US\$572 million in 2019.

by Multi-client data investments, increasing by US\$45 million from a low point in 2019.

In 2020, we had four on-going Multi-client projects, including three marine streamer surveys, Nebula in Brazil, Gippsland in Australia and North Viking Graben in Norway, and one ocean bottom nodes survey in the UK North Sea.

As of September 30, 2020, the net book value of our Multi-client data library as reported was US\$499 million compared to US\$531 million as of December 31, 2019. Excluding IFRS 15 adjustments, the segment net book value of our Multi-client data library was US\$345 million as of September 30, 2020, compared to US\$376 million as of December 31, 2019.

Net cash flows from discontinued operations

The following table presents a summary of the cash flow of the discontinued operations for each of the periods stated:

<i>(In millions of US dollars)</i>	Nine months ended September 30,	
	2020	2019
Net cash flow incurred by discontinued operations	(52.5)	(99.1)

Net financial debt

Net financial debt as of September 30, 2020 was US\$910 million compared to US\$716 million as of December 31, 2019. The ratio of net financial debt to equity was 75% as of September 30, 2020 compared to 46% as of December 31, 2019.

“Gross financial debt” is the amount of bank overdrafts, plus current portion of financial debt, plus financial debt, and “net financial debt” is gross financial debt less cash and cash

Financing activities

Net cash used by financing activities was US\$103 million during the nine months ended September 30, 2020, compared to net cash used of US\$92 million for the nine months ended September 30, 2019 mainly related to lease repayments, financial expenses paid and early repayment of creditors under safeguard procedure.

equivalents. Net financial debt is presented as additional information because we understand that certain investors believe that netting cash against debt provides a clearer picture of our financial liability exposure. However, other companies may present net financial debt differently than we do. Net financial debt is not a measure of financial performance under IFRS and should not be considered as an alternative to any other measures of performance derived in accordance with IFRS.

The following table presents a reconciliation of net financial debt to financing items of our statement of financial position at September 30, 2020 and December 31, 2019:

<i>(In millions of US dollars)</i>	September 30, 2020	December 31, 2019
Bank overdrafts	-	-
Current portion of financial debt	73.4	59.4
Financial debt	1,301.1	1,266.6
Gross financial debt	1,374.5	1,326.0
Less cash and cash equivalents	(464.5)	(610.5)
Net financial debt	910.0	715.5

EBIT and EBITDAS (unaudited)

EBIT is defined as operating income plus our share of income in companies accounted for under the equity method. As a complement to operating income, EBIT may be used by management as a performance indicator for segments because it captures the contribution to our results of the significant businesses that we manage through our joint ventures.

EBITDAS is defined as earnings before interest, tax, income from equity affiliates, depreciation, amortization net of amortization expense capitalized to Multi-client and share-based compensation cost. Share-based compensation includes both stock options and shares issued under our share allocation plans. EBITDAS is presented as additional

information because we understand that it is one measure used by certain investors to determine our operating cash flow and historical ability to meet debt service and capital expenditure requirements.

However, other companies may present EBIT and EBITDAS differently than we do. EBIT and EBITDAS are not a measure of financial performance under IFRS and should not be considered as an alternative to cash flow from operating activities or as a measure of liquidity or an alternative to net income as indicators of our operating performance or any other measures of performance derived in accordance with IFRS.

The following table presents a reconciliation of EBITDAS and EBIT to net income for the periods indicated:

Nine months ended September 30, 2020

<i>(In millions of US dollars)</i>	Segment Figures	IFRS 15 adjustments	As reported
EBITDAS	243.0	(3.2)	239.8
Depreciation and amortization	(136.5)	-	(136.5)
Multi-client surveys impairment and amortization	(238.1)	10.7	(227.4)
Depreciation and amortization capitalized to Multi-client surveys	13.2	-	13.2
Share-based compensation expenses	(3.9)	-	(3.9)
Operating income	(122.3)	7.5	(114.8)
Share of (income) loss in companies accounted for under equity method	0.1	-	0.1
EBIT	(122.2)	7.5	(114.7)
Cost of financial debt, net			(99.7)
Other financial income (loss)			(41.8)
Total income taxes			(36.8)
Net income from continuing operations			(293.0)

Nine months ended September 30, 2019

<i>(In millions of US dollars)</i>	Segment Figures	IFRS 15 adjustments	As reported
EBITDAS	515.2	(74.3)	440.9
Depreciation and amortization	(98.0)	-	(98.0)
Multi-client surveys impairment and amortization	(244.2)	68.6	(175.6)
Depreciation and amortization capitalized to Multi-client surveys	5.9	-	5.9
Share-based compensation expenses	(4.0)	-	(4.0)
Operating income	174.9	(5.7)	169.2
Share of (income) loss in companies accounted for under equity method	(0.1)	-	(0.1)
EBIT	174.8	(5.7)	169.1
Cost of financial debt, net			(98.3)
Other financial income (loss)			3.5
Total income taxes			(11.2)
Net income from continuing operations			63.1

Net cash flow

"Net cash flow" is defined as "Net cash flow provided by operating activities" plus "Total net proceeds from disposals of assets", minus (i) "Total capital expenditures" and "Investments in Multi-client surveys, net cash" as set out in our consolidated statement of cash flows in the "Investing section", (ii) "Lease repayment" and "Financial expenses paid" as set out in our consolidated statement of cash flows in the "Financing section", and (iii) "Net cash flows incurred by Discontinued Operations".

Net cash flow is presented as additional information because we understand that it is one measure used by certain investors to determine our operating cash flow and historical ability to meet debt service and capital expenditure

requirements. However, other companies may present net cash flow differently than we do. Net cash flow is not a measure of financial performance under IFRS and should not be considered as an alternative to cash flow from operating activities or any other measures of performance derived in accordance with IFRS

Net cash flow amounted to outflows of US\$152 million in 2020 compared to inflows of US\$179 million in 2019. Net cash flow before net cash flow incurred by Discontinued Operations represented outflows of US\$100 million in 2020, compared to inflows of US\$278 million in 2019.

Nine months ended September 30,

(In millions of US\$)	2020	2019
Net cash flow provided by operating activities	238.4	572.4
Total capital expenditures (including variation of fixed assets suppliers, excluding Multi-client surveys)	(49.8)	(52.3)
Investments in Multi-client surveys, net cash	(198.0)	(153.2)
Total net proceeds	(0.1)	(0.1)
Lease repayments	(43.6)	(41.0)
Financial expenses paid	(46.5)	(47.5)
Net cash flow before net cash flows incurred by Discontinued Operations	(99.6)	278.3
Net cash flows incurred by Discontinued Operations	(52.5)	(99.1)
Net cash flow	(152.1)	179.2

Contractual Obligations, commitments and contingencies

The following table sets forth our future cash obligations (not discounted) as of September 30, 2020:

(In millions of US\$)	Payments due by period				
	Less than 1 year	2-3 years	4-5 years	After 5 years	Total
Long-term debt obligations:					
Financial debt (including cumulated PIK) ^(a)	-	627.8	744.3	0.6	1,372.7
Other long-term obligations (cash interests)	81.3	170.6	18.2	-	270.1
Total Long-term debt obligations	81.3	798.4	762.5	0.6	1,642.8
Lease obligations	55.7	58.9	23.0	12.0	149.6
Total Contractual Cash Obligations ^(b)	137.0	857.3	785.5	12.6	1,792.4

(a) PIK : Payment In Kind interest

(b) Payments in other currencies are converted into U.S. dollar at September 30, 2020 exchange rates.

Other loan

Please refer to note 2 - Safeguard procedure and early repayment of creditors.

Compensation for a full year represents US\$(21.9) million. As of September 30, 2020 the remaining maximum Idle Vessels Commitment until the end of the five-year commitment period was US\$(93.7) million.

Capacity Agreement: Idle vessel compensation and Off-market component

As described in note 2, on January 8, 2020, CGG and Shearwater entered into a Capacity Agreement at the Marine Closing Date, for which the main terms of the agreement are as follows:

- ▶ Work exclusively with Shearwater's global fleet of high-end 3D and source vessels for our Multi-client marine and nodes data acquisition projects up to 730 vessel days per year on average for the next five years:
 - » pay a pre-agreed day rate for the first 2.5 years and the higher of market rate or the pre-agreed day rate for the remaining 2.5 years;
 - » reimburse Shearwater for project-related operational costs and fuel; and
- ▶ Compensate Shearwater for days during which more than one of its high-end seismic vessels are idle for a maximum of three vessels (the "Idle Vessels Compensation"). The maximum Idle Vessel

Contingencies

As described in note 2, CGG has agreed to substitute itself for Shearwater CharterCo AS as charterer of GSS subsidiaries' five high-end seismic vessels (equipped with streamers) in the event of a payment default under the charter party between the GSS subsidiaries and Shearwater CharterCo AS. This payment default can only be triggered either by CGG non-payment under the Payment Instructions Agreement, or by Shearwater's insolvency.

The Step-In Agreements will not impact the financial statement of position unless a trigger, as described in note 2, occurs. In such circumstances, the obligations under the Capacity Agreement should be terminated and replaced by the obligations under the Step-In Agreements, representing a lower amount of commitment compared to the Capacity Agreement.

Eidesvik Put Option

Please refer to note 7.