Confidential



Introduction

June, 2024





Overview Team Commodities Supply Chain Risk Management Project Pipeline

Company- Overview

- The Commodities Mining Exchange (CMX[™]), our Proprietary Platform provides a unique Trade Finance Hub for Investors, Mining Companies, Energy Providers, Manufacturers and Technology alike, with Significant Arbitrage Opportunities and Solutions for both Short-Term and Long-Term Off-Take Agreements.
- SEC is a Physical Commodities Trading & Mining company. We trade and supply Indonesian Thermal Coal, Colombian Thermal and Metallurgical Coal. Additionally, Venezuelan Thermal Coal, Petroleum Coke, Iron Ore, Crude Oil, and Fuel Oil are available only if OFAC Licenses are available to its global consumers.
- SEC has strict corporate governance and a disciplined approach to our due diligence process regarding any projects we undertake.
- Our team of industry veterans and professionals brings with them over 200 years of combined experience in the international commodities, shipping and logistics businesses.
- Our goal is to become a leading provider of mining and petroleum-based products to global end-users. We look forward to professionally supporting and servicing our valued clients and partners.



Supply Chain Hub

A Physical Commodities Tra and Investing Ecosyster





Overview Team Commodities Supply Chain Risk Management Project Pipeline



Exclusive	In house	Sale to iron ore	In house	Sale of final	
offtake	traffic	producers and	traffic team	product to	
and	team to	tolling	to select	end users	
marketing	select and	opportunities	and		
agreement	monitor	for	monitor		
with iron	best	development	best		A series
оге	shipping	of long-term	logistics		ALL A
producers	<u>options</u>	supply	optio <u>ns</u>		
Security of Supply	Value Addition	Transactions	Value Addition	Contracts	



Management Team



CEO/Chairman DAVID MACIAS

- A 23-year Veteran in the Physical Trade & Sourcing at Sunshine Energy and Commodities, participating in Physical Bulk Cargos of Commodities like Crude Oil, Coal, Iron Ore, and others. Mr. Macias' negotiations capabilities, combined with knowledge of Shipping and Logistics of these Raw Materials in Institutional size, give access to the Supply Chain enduser participants in various Refineries, Steel Mills, and Power Plants Globally.
- Previously served as Chairman and CEO of Upower, Inc., where he developed and funded with The World Bank, Latin America's largest photovoltaic solar power plant in Honduras for \$232mm in 2015, eventually was sold to FinnFund (The sovereign wealth fund of Finland).
- Brings 37+ years of Wall Street financial experience, serving as a Senior Vice President of several different FINRA broker-dealer firms where he managed \$400,000,000+ in assets for over 3,500 Clients. Instrumental in the initial launch in underwriting SPAC's as financial instruments in 1992.
- David has raised \$50 million dollars in private capital raises, and participated in over 154 publicly traded companies since 1987.

PRESIDENT

- Mr. Aizcorbe, is a proven leader with 30 years as a Pioneer in the Solar Energy industry. Having worked as a Strategic Consultant, Investment Banker, and Investor, his divested set of experiences have provided the ability to fuse operational strategy and corporate finance to maximize value creation.
- Managing Director at RedRock Energy Ventures, Inc..
- Jorge has deployed several hundred Megawatts of successful utility scale projects to date, in addition to being Founder of Principal Solar, Inc.. Mr. Aizcorbe was former President of Upower, a renewable energy developer of Solar Projects Internationally focused on Utility-Scale Solar Plants.
- Recently raised capital for the largest lithium brine project in the USA.
- Mr. Aizcorbe is an Investment Banker for over 30 years. Worked at W.R. Grace & Co., one of the first true conglomerate corporations in the USA in Corporate Development and Merger & Acquisitions. Mr. Aizcorbe has structured numerous successful transactions for clients such as Madison Dearborn Partners, Bechtel Corporation, Chase Capital Partners, Scott's Miracle Grow, Hunt Corporation.
- Assisted family in the Real Estate development of communities, including Wellington (WPB) and Palm Beach Point.

Company- Team



Overview Team Commodities Supply Chain Risk Management Project Pipeline

RABBI LEVY ABDURAKHMANOV – VP of Corporate Finance & Trade Finance

Rabbi Levy currently serves as Chief Financier of Sunshine Energy & Commodities, specializing in all aspects of Corporate Finance and Trade Finance. Tasks include capital investing, financing, and liquidity management. Rabbi Levy obtains financing to facilitate business and extension of credit in many cases. Rabbi Levy's credentials leverage an ability to facilitate international trade and commerce for the firm, since 2020. Rabbi Levy also is an Ambassador for The Foundation for a Drug-Free World, a Non-Profit Organization empowering both Youth and Adults alike to live Drug-Free Worldwide. See below links:



<u>https://youtu.be/QTvJvjJvB24</u> <u>https://www.drugfreeworldamericas.org/about-us</u> <u>https://www.foundationforadrugfreeworldnewyorkchapter.org/about-us--contact-information.html</u>

GEOFF BRIGHT - VP OF PLANNING & BUSINESS DEVELOPMENT

Geoff has been actively involved in the shipping & trading sectors for more than 30 years. In 1981 he joined The John Bull Group of Companies and became Managing Director of the newly formed Britannia Liner Services which he built from scratch and under his leadership quickly became a mainstream player in the UK liner agency & forwarding industry culminating in key appointments with several major shipping lines which remain with the management to this day. Geoff has worked for a number of trading entities and managed their operations including, steel trading, steel scrap, coal trading, non-ferrous metals coal processing and terminal operations which were all linked to a wide range of trade on the global markets. Geoff has extensive experience in setting up, building, formulating corporate strategy and direction for global trade and consequently has the ability to be a key player in any such organization.

ROBERT J. DILLON - VP OF SHIPPING & LOGISTICS

Robert John Dillon is the President of John F. Dillon & Co., LLC (www.JFD.com) in Norwalk, CT. Robert joined JFD in the spring of 1982 and spent time in the Tokyo freight markets during his formative years (1983-1986). He has served as the President of JFD since January 1st of 2000. He has also been a board member of the Association of Shipbrokers & Agents of North America since 1996. JFD was founded in 1965 as the leading dry cargo brokerage firm in the North American freight market. JFD ships dry cargo commodities globally including iron ore, coal, grains, steel, petroleum coke, sugar, salt, and fertilizers. Its team of highly professional and experienced freight advisors and brokers have extensive experience in the logistics of moving dry cargo from the point of origin to the point of destination, including but not limited to the contractual terms and nuances surrounding each different trade. The company maintains two offices in Norwalk, CT USA and Shanghai, China.

WILLIAM RODRIGUEZ - VP OF COLOMBIAN & LATIN AMERICAN OPERATIONS

Mr. Rodríguez has a specialization in Marketing and Customer Service Management earned at the Universidad San Martin de Colombia. With more than 10 years of experience in the commodities sector, Mr. Rodríguez serves customers and suppliers throughout the Latin American region. Rodríguez also has a specialization in Logistics, Transportation, and Customs & Cargo Security of raw materials, including Coal, Iron Ore, Petcoke and Crude Oil.

FELIPE SAAVEDRA - VP OF MARKETING & SALES

Mr. Saavedra has been a Trade Executive for SEC since 2021 and VP of Investments for Li3 Group. Started off as intern at SEC and Upower Group.



Overview

Commodities

Supply Chain

Risk Management

Project Pipeline

Team

Strategy- Risk Management

Risk Types and Mitigation

Market Risk

- All trades have security of underlying physical commodity
- Trading software with mark to market capability and monitoring of cargo movement

Counterparty and Credit Risk

• Use of irrevocable LCs, counterparty screening, diversity of customer base

Operational Risk

- In-house experienced logistics personnel and network of proven service providers
- Cargo insurance for loss, damage and theft
- Procedures for trade execution and LC opening; multiple layers of approval

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Overview Team Commodities Supply Chain Risk Management Project Pipeline

Company- Commodities

Indonesian Thermal Coal

- Colombian Thermal Coal
- Colombian Metallurgical Coal
- Venezuelan Thermal Coal*
- Venezuelan Iron Ore*
- Venezuelan Crude Oil*
- Venezuelan Fuel Oil*
- Venezuelan Petcoke*

* Venezuelan Thermal Coal, Petroleum Coke, Iron Ore, Crude Oil, and Fuel Oil are available only if OFAC Licenses are available to its global consumers.



Project Pipeline

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Overview Team Commodities Supply Chain Risk Management Project Pipeline

Mining & Petroleum-based

- Thermal Coal mining in Indonesia, Colombia, and Venezuela*
- Metallurgical Coal mining in Colombia
- Iron Ore mining in Venezuela*
- Petroleum (Crude Oil, Fuel Oil, and Petcoke) mining in Venezuela*
- * Only with a OFAC License



Indonesian Thermal Coal Mine - Overview

Name		Pt.Saijaan Prima Coal
		Kabupaten Kota Baru,South
LOCATION		Kalimantan
Concession Number		
		1.182.RKAB/MB.05/DJB.B.2024
Mining Method		Open Pit
		American Society For Testing And
Preparation System		Materials (ASTM)
Quality Captral System		Any Reputable Surveyor Available
Quality Control System		In Indonesia
START Production		April-10
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Conveyor Belt
Distance From Mine		27 Km
		700 MT/ Hour (conveyor loading)+
Stocking Capacity		Manual Loading
		South East Kalimantan Port
Port Name		
Equipment	Туре	Crusher (Exca Crusher)
	Capacity	300-500 MT/ Hour
Loading Capacity		500-700 MT/ Hour



Specifications

Indonesian Thermal Coal Mine

S.NO	Parameter	Basis	Unit	Typical
				5800
1	Gross Calorific Value	ADB	Kcal/kg	6000
2	Total Moisture	ARB	%	9.0
З	Inherent Moisture	ADB	%	4.0-5.0
4	Ash Content	ADB	%	16.0-20.0
5	Volatile Matter	ADB	%	42.0 (Арргох.)
6	Fixed Carbon	ADB	%	By Difference
7	Total Sulphur	ADB	%	0.8-1.5
9	Hard Grove Index (HGI)	Index		46.0-50.0 (Арргох.)



Indonesian Thermal Coal Mine - Map







Colombian Thermal Coal Mine - Overview

Name		C.I. Carbones Del Porvenir Sas
Location		Norte De Santander
Mining Method		Open Pit / Underground Mining
		American Society For Testing And
Preparation System		Materials (ASTM)
		Any Reputable Surveyor Available
Quality Control System		In Colombia
Area's Width	Total Concession Area	860 Hectares
	Active Area	400 Hectares
Coal Reserve	Mineable	20,000,000 Metric Tons
START Production		June-3
Production Volume	Daily	6,000 Metric Tons
	Monthly	180,000 Mt
	Yearly	2,160,000 Metric Tons
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Conveyor Belt
Distance From Mine		576 Km
Stocking Capacity		300,000 Metric Tons
		Puerto Brisa, Dibulla, Guajira,
Port Name		Colombia
Equipment	Туре	Сопveyor
	Capacity	5,000 MT/Hr
Loading Capacity		40,000 MT/Day
Stocking Capacity/Width		200,000 MT (Or More)
Barge Size		
Distance From Port To		
Point Off Shore Trans		Up To 70 Feet 3 Hours.



Specifications

Colombian Thermal Coal Mine

S.NO	Parameter	Basis	Unit	Typical
1	Gross Calorific Value	ADB	Kcal/kg	6947
2	Total Moisture	ARB	%	-10.0
З	Inherent Moisture	ADB	%	
4	Ash Content	ADB	%	10.0 -12.0
5	Volatile Matter	ADB	%	38.0 - 44.0
6	Fixed Carbon	ADB	%	By Difference
7	Total Sulphur	ADB	%	0.9
				Size Distribution for
8	Size	0 <i>-</i> 50mm	%	Discussion
9	Hard Grove Index (HGI)	Index		45-50



Colombian Thermal Coal Mine - Map





Technical Specifications of the Loading Port

Basic Information	Name	Puerto Brisa
	Location	Dibulla, Colombia
	Port Code	CORCH
	Port Type	Bulk
	Latitude	11º 15' 37,96" N
	Longitude	73º 22' 56,11''W
Port Access	Length	2,000 meters
	Ancho de solera	220 meters
	Depth	17.5 meters
	Buque de diseño	180,000
Dock Information	# of Docks	1
	Docking Positions	2
	Area of Dock	380 x 22 m ²
	Length of Dock	380
	Viaducto	1,180



Colombian Metallurgical Coal Mine (Low Volatility) -1 Overview

Name		Mina La Aurora
Location		Zulia – Colombia
Mining Method		Underground Mining
Preparation System		ASTM
Quality Control System		SGS Internacional Laboratory
Area's Width	Total Concession Area	898 Hecatares
	Active Area	898 Hectatares
Coal Reserve	Mineable	15,571,000 Metric Tons
START Production		Is In Production
Production Volume	Daily	1000 Metric Tons
	Monthly	30,000 Metric Tons
	Yearly	360,000 Metric Tons
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Conveyor Belt
Distance From Mine		576 Km
Stocking Capacity		30,000 МТ (Ог Моге)
Port Name		Puerto Brisa
Equipment	Туре	Сопveyor
	Capacity	5000 MT / Hr
Loading Capacity		150,000 Metric Tons
Stocking Capacity/Width		3,000,000 Metric Tons



Specifications

Colombian Metallurgical Coal Mine (Low Volatility) -1

S.NO	Parameter	Basis	Unit	Typical
1	Gross Calorific Value	ADB	BTU	12,300
2	Gross Calorific Value	ADB	Kcal/kg	6833
З	Humidity	ARB	%	10.0
4	Ash Content	ADB	%	≤ 11.0
5	Volatile Matter	ADB	%	≤ 23.0
6	Fixed Carbon	ADB	%	≥73.0
7	Sulfur Content	ADB	%	≤ 1.1
8	Size	0-50mm	mm	
9	FSI			≥ 5

Colombian Metallurgical Coal Mine (Low Volatility) - 1 Map





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Technical Specifications of the Loading Port

Basic Information	Name	Puerto Brisa
	Location	Dibulla, Colombia
	Port Code	CORCH
	Port Type	Bulk
	Latitude	11º 15' 37,96" N
	Longitude	73º 22' 56,11''W
Port Access	Length	2,000 meters
	Ancho de solera	220 meters
	Depth	17.5 meters
	Buque de diseño	180,000
Dock Information	# of Docks	1
	Docking Positions	2
	Area of Dock	380 x 22 m ²
	Length of Dock	380
	Viaducto	1,180



Colombian Metallurgical Coal Mine (Medium Volatility)-2 Overview

Name		Mina San Mateo
Location		Boyacá – Colombia
Mining Method		Underground Mining
Preparation System		ASTM
Quality Control System		SGS Internacional Laboratory
Area's Width	Total Concession Area	758 Hectares
	Active Area	520 Hectares
Coal Reserve	Mineable	14,800,000 Metric Tons
START Production		Is In Production
Production Volume	Daily	1000 Metric Tons
	Monthly	30,000 Metric Tons
	Yearly	360,000 Metric Tons
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Conveyor Belt
Distance From Mine		927,5 Km
Stocking Capacity		30,000 MT (Ог Моге)
Port Name		Puerto Brisa
Equipment	Туре	Сопveyor
	Capacity	5000 MT / Hr
Loading Capacity		150,000 Metric Tons
Stocking Capacity/Width		3,000,000 Metric Tons

Specifications



Colombian Metallurgical Coal Mine (Medium Volatility) -2

S.NO	Parameter	Basis	Unit	Typical
1	Gross Calorific Value	ADB	BTU	12,300
2	Gross Calorific Value	ADB	Kcal/kg	6833
З	Humidity	ARB	%	≤ 10.0
4	Ash Content	ADB	%	≤ 11.0
5	Volatile Matter	ADB	%	≤ 29.0
6	Fixed Carbon	ADB	%	≥73.0
7	Sulfur Content	ADB	%	≤ 1.1
8	Size	0-50mm	mm	
9	FSI			≥ 5

Colombian Metallurgical Coal Mine (Medium Volatility) - 2 Map







Technical Specifications of the Loading Port

Basic Information	Name	Puerto Brisa
	Location	Dibulla, Colombia
	Port Code	CORCH
	Port Type	Bulk
	Latitude	11º 15' 37,96" N
	Longitude	73º 22' 56,11''W
Port Access	Length	2,000 meters
	Ancho de solera	220 meters
	Depth	17.5 meters
	Buque de diseño	180,000
Dock Information	# of Docks	1
	Docking Positions	2
	Area of Dock	380 x 22 m ²
	Length of Dock	380
	Viaducto	1,180



Colombian Metallurgical Coal Mine (High Volatility) -3 Overview

Nате		Mina Sucre
Location		Santander – Colombia
Mining Method		Underground Mining
Preparation System		ASTM
Quality Control System		SGS Internacional Laboratory
Area's Width	Total Concession Area	1700 Hectares
	Active Area	640 Hectares
Coal Reserve	Mineable	12,360,000 Metric Tons
START Production		Is In Production
Production Volume	Daily	1000 Metric Tons
	Monthly	30,000 Metric Tons
	Yearly	360,000 Metric Tons
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Conveyor Belt
Distance From Mine		927,5 Km
Stocking Capacity		30,000 MT (Or More)
Port Name		Puerto Brisa
Equipment	Туре	Сопveyor
	Capacity	5000 MT / Hr
Loading Capacity		150,000 Metric Tons
Stocking Capacity/Width		 3,000,000 Metric Tons



Specifications

Colombian Metallurgical Coal Mine (High Volatility) -3

S.NO	Parameter	Basis	Unit	Typical
1	Gross Calorific Value	ADB	BTU	12,300
2	Gross Calorific Value	ADB	Kcal/kg	6833
З	Humidity	ARB	%	≤ 10.0
4	Ash Content	ADB	%	<u>≤</u> 12.0
5	Volatile Matter	ADB	%	<u>≤</u> 35.0
6	Fixed Carbon	ADB	%	≥ 73.0
7	Sulfur Content	ADB	%	≤ 1.1
8	Size	0-50mm	mm	
9	FSI			≥ 5

Colombian Metallurgical Coal Mine (High Volatility) - 3 Map







Technical Specifications of the Loading Port

Basic Information	Name	Puerto Brisa
	Location	Dibulla, Colombia
	Port Code	CORCH
	Port Type	Bulk
	Latitude	11º 15' 37,96" N
	Longitude	73º 22' 56,11''W
Port Access	Length	2,000 meters
	Ancho de solera	220 meters
	Depth	17.5 meters
	Buque de diseño	180,000
Dock Information	# of Docks	1
	Docking Positions	2
	Area of Dock	380 x 22 m ²
	Length of Dock	380
	Viaducto	1,180



Venezuelan* Thermal Coal Mine - Overview

Name		Paso De Diablo
Location		Estado Zulia
Mining Method		Open Pit
Preparation System		Astm D 5192-99
Quality Control System		Incolab International Laboratory
Area's Width	Total Concession Area	24,192 Hectares
	Active Area	12,000 Hectares Aprox.
Coal Reserve	Mineable	150 Million Metric Tons
START Production		Is In Production
Production Volume	Daily	1,400 Metric Tons
	Monthly	36,400 Metric Tons
	Yearly	840,000 Metric Tons
Transportation	Mine To Jetty	Truck
	Jetty To Vessel	Barges
Distance From Mine		83 Km
Stocking Capacity		70,000 Metric Tons
Port Name		Santa Cruz (Load in Gabarras)
Equipment	Туре	Barges
	Capacity	11,000 Metric Tons
Loading Capacity		9,000 MT / Day
Stocking Capacity/Width		100,000 МТ (Ог Моге)



Specifications

Venezuelan* Thermal Coal Mine

S.NO	Parameter	Basis	Unit	Typical
1	Gross Calorific Value	ADB	Kcal/kg	6,900
2	Total Moisture	ADB	%	7.50
З	Inherent Moisture	ADB	%	
4	Ash Content	ADB	%	9.0
5	Volatile Matter	ADB	%	34.00
6	Fixed Carbon	ADB	%	49.5
7	Total Sulphur	ADB	%	1
8	Size	0-50mm	ШШ	
9	Hard Grove Index (HGI)	Index		45-50



Venezuelan* Thermal Coal Mine - Map





Technical Specifications of the Loading Port

Basic Information	Name	Guanta Cruz Port
	Port Authority	Ferrominera Orinoco CA
	Port Code	VEGUA
		Guanta Port, Edo Anzoategui,
	Location	Venezuela
	Latitude	10° 14' 42" N
	Longitude	64° 35' 30" 0
	Port Type	Sea
Water Depth	Channel	66 to 75 feet, 20.1 to 21.3 meters
	Loading Dock	21 to 25 feet, 6.4 to 7.6 meters
	Mid Tide	1 foot
	Anchorage	46 to 50 feet, 14 to 15.2 meters
	Oil Terminal	Small
Other Services	Boat Repairs	For emergencies only



Venezuelan* Iron Ore Mine - Overview

NAME		Ferrominera del Orinoco
Location		Estado de Bolivar Venezuela
Mining Method		Open Pit
Preparation System		ATSM
Quality Control System		Incolab International Laboratory
Area's Width	Total Concession Area	94,000 Km2
	Active Area	55,000 Km2
Ore Reserve	Mineable	460 Million MT (Proved Reserves)
START Production		Is in Production
Production Volume	Daily	1,900 Metric Tons
	Monthly	55,000 Metric Tons
	Yearly	669,000 Metric Tons
Transportation	Mine to Jetty	Truck
	Jetty to Vessel	Barges
Distance from Mine		231 km
Stocking Capacity		70,000 Metric Tons
Port Name		Ordaz Port
Equipment	Туре	Barges
	Capacity	11,000 Metric Tons
Loading Capacity		9,000 MT / day
Stocking Capacity/Width		100,000 Metric Tons



Specifications

Venezuelan* Iron Ore Mine

S.NO	Parameter	Unit	Typical
1	Fe	%	62
2	FeO	%	10.80
З	S	%	0.046
4	Sb	%	<0.01
5	Na ₂ O	%	0.036
6	К ₂ О	%	0.025
7	Cu	%	0.056
8	As	%	<0.02
9	РЬ	%	0.006
10	SiO ₂	%	3.64
11	Al ₂ O ₃	%	1.70
12	CaO	%	0.23
13	MgO	%	0.42
14	MnO	%	0.042
15	Р	%	0.033
16	TIO ₂	%	0.11
17	Mg	%	0.25



Venezuelan* Iron Ore Mine - Map





Technical Specifications of the Loading Port

Basic Information	Name	Ordaz Port
	Port Authority	Ferrominera Orinoco CA
	Port Code	VEPZO
	Location	Ordaz Port, Edo Bolivar, Venezuela
	Latitude	8° 19' 0" N
	Longitude	62° 42' 0" W
	Port Type	River
Water Depth	Channel	31 to 35 feet, 9.4 to 10 meters
	Loading Dock	26 to 30 feet, 7.1 to 9.1 meters
	Mid Tide	5 feet
	Anchorage	36 to 40 feet, 11 to 12.2 meters
	Oil Terminal	36 to 40 feet, 11 to 12.2 meters
Other Services	Boat Repairs	For emergencies only



Venezuelan* Crude Oil Terminal – Overview

NAME	PDVSA
Quality Control System	Any reputable surveyor available
Quality Control System	in Venezuela
Port Name	Jose Port Terminal
Shipping Rates	1,000,000-2,000,000 bbls/ Month



Specifications

Venezuelan* Crude Oil Terminal

CARACTERISTICAS DEL CRUDO		HIDROCARBUROS LIVIANOS			INFORMACION GENERAL											
GRAVEDAD API 60 * F	*API	15,9	C	ROMATO	GRAFIA	DE GASI	ES									
GRAVEDAD ESPECIFICA 60/60 * F	Adim	0,9600		PIE-20	20-100	100-150	150-200	LOS DA	TOS ANA	LITICOS	EN EST/	A HOJA R	EPRESE	INTAN LO	DS	
VISCOSIDAD CINEMATICA A 100 ° F	cSt	791,9	% VOL	0.004				DE UNA	EVALUA	CION CO	MPLETA	A REALIZA	ADA EN I	DICIEMB	RE DEL:	2020
VISCOSIDAD CINEMATICA A 122 ° F	cSt	329,8	CT y C2	0,004		0.0000	0.0004	INTEVE	P.							
AZUFRE	% Peso	2,71	C3	0,089	0,0136	0,0029	0,0004	1								
CONTENIDO DE PARAFINAS	% Peso	5,63	ISO C4	0,116	0,0000	0,0019	0,0004	1								
FUNTO DE FLUIDEZ	Adim	11 40	IRO CE	0,232	0,0408	0,0044	0,0011	1								
LOS EVISTENTE		-1	NLC5	0,210	0,0983	0.0072	0,0020	1								
PRESIÓN DE VAPOR REID	100°E osi	2.06	CS+	0.093	O, IEEE	0,0075	0,0015	1								
PUNTO DE INFLAMACIÓN	°C	12	COT	0,000				1								
CONTENIDO DE SAL	lbs / Mbls	21.8						1								
CLORUROS INORGÁNICOS	q/q mqq	35						1								
		CRUDO							DE	STILACI	ON					
FRACCIONES	°C		PIE-20	20-100	100-150	150-200	200-250	250-300	300-343	343-402	402-461	461-500	343+	402+	461+	500+
PENDIMIENTO EN EL OPUDO	Adim % Resea	11,4	0.63	1.26	2.62	2.14	5.32	7.19	8.37	11.10	0.76	7.47	72.48	82.47	52.71	45.24
RENDIMIENTO EN EL CRUDO	% Vol		1.00	1.56	3.29	3.75	6.03	7.88	6.78	11.37	9.87	7.44	69.72	58.35	48.48	41.04
RENDIMIENTO ACUMULADO	% Peso		0.63	1.89	4.51	7,65	12.97	20.15	26.52	37.62	47.38	54.85	100.00	100.00	100.00	100.00
RENDIMIENTO ACUMULADO	% Vol		1,00	2,56	5,85	9,60	15,63	23,51	30,29	41,66	51,53	58,97	100,00	100,00	100,00	100,00
RENDIMIENTO PROMEDIO ACUMULADO	% Vol			1,28	4,20	7,71	12,58	19,53	26,84	35,90	46,50	55,14			1000	
GRAVEDAD ESPECIFICA 60/60 ° F	Adim	0,9600		0,7096	0,7665	0,8063	0,8488	0,8762	0,9042	0,9315	0,9509	0,9646	1,0136	1,0224	1,0336	1,0499
GRAVEDAD API A 60 F	*API	15,9		67,9	53,1	44,0	35,2	30,0	25,0	20,4	17,3	15,2	8,1	6,9	5,4	3,3
DESTILACIÓN ASTM DIE	* C	50.4		40.0	101.9	143.1	212.0	259.6	210.2	260.7	207.2	289.1	257.5	201.5	445.5	495.2
* 5% VOL RECOBRADO	° C	155.5		48.0	113.9	155.1	220.9	268.3	315.7	369.8	409.1	423.2	386.0	432.5	493.5	527.1
* 10% VOL RECOBRADO	* C	220,4		56.0	117,2	160.1	224.0	270,1	316,9	373.9	418.5	441.4	397,3	452.0	513.5	551.6
* 20% VOL RECOBRADO	°C	296,8		64,0	120,6	165,5	225,5	272,2	317,7	378,0	427,2	458,7	427,5	491,5		593,2
* 30% VOL RECOBRADO	° C	358,8		71.0	123,6	170,9	227.1	273,6	318,1	378,0	430,4	470.3	466,0			1000
* 40% VOL RECOBRADO	°C	422,4		77,0	126,7	174,4	229,2	275,3	318,5	378,4	426,3	479,6	510,0			
50% VOL RECOBRADO	°C	483,9		81,0	129,8	178,8	231,1	277,2	319,4	384,0	435,6	488,1				
20% VOL RECOBRADO		559,0		86,0	132,9	182,6	233,4	2/3,4	321,3	390,3	445,2	496,3				
* 80% VOL RECOBRADO	° C			96.0	140.7	191.6	239.4	285.1	325.9	406.5	459.3	514.9				
* 90% VOL RECOBRADO	* Č			101.0	147.2	199.3	244.6	289.9	330.6	415.7	470.3	531.0				
PFE	°C	614.0		118.0	163.6	218.2	253.6	298.0	339,3	425.8	477.7	601.9	524,0	526,5	514.5	604.2
VISCOSIDAD CINEMATICA A 70°F	cSt	3494							1						1	1
VISCOSIDAD CINEMATICA A 100°F	cSt	791,9				1,06	2,10	4,22	9,97							
VISCOSIDAD CINEMATICA A 122°F	cSt	329,8				0,91	1,68	0.50	6.44	23,99	106,60	427,5				-
VISCOSIDAD CINEMATICA A 140°F	cSt	179,60				0,81	1,44	2,58	5,11	15,93	59,80	205,1	1780	11750	222210	DU/A
VISCOSIDAD CINEMATICA A 210°F	cSt	_				0.56	0.89	1.40	2.34	5.05	12.26	28.60	574.7	2912	33982	124377
VISCOSIDAD CINEMATICA A 275°F	cSt					0,00	0,00	1,10	2,04	5,65	12,20	20,00	98,33	302.9	1761	4304
VISCOSIDAD ABSOLUTA 60 ° C	Poise						-				-		12	150	5951	
MERCAPTANOS (Como S)	ppm p/p	46,47		2,58	19,91	35,67	9,42	17,59	25,46							
AZUFRE	% Peso	2,73		0.0054	0,015	0,112	0,421	1,10	1,83	2,31	2,27	2,43	3,01	3,49	3,79	3,85
CORROSION A LA LAMINA DE COBRE	50°C/3h			1a	30	30+	3a	- 24					- 20			00
PUNTO DE NUBE		-15				<-50	<-50	-30	-24	19	15	33	35	57	69	90
PUNTO DE INFLAMACION	* C	12				32	82	117	160	180	223	250	239	303	330	339
PRESION DE VAPOR REID (MICRO)	psi	2.06		9.09	2,80	1,31	012		100	100	EE.C		2.00	000	000	0.0.0
CLORUROS ORGANICOS	ppm p/p	35		<12	<12	<12	<12									
NUMERO DE NEUTRALIZACION	mgKOH/g	1,22				0,079	0,18	0,64	1,08	1,50	2,02	2,14	1,43	1,24	0,98	0.71
ASFALTENOS	% Peso	8,2											11,8	13,7	16,7	18,2
HON, (MOTOR)	Octanos			70	59	50										
AROMATICOS (HPLC)	% Peso			0.5	- 50	- 50	23.41	33.91	44.28	52.51	54.60	58.50				
SATURADOS (HPLC)	% Peso						76.56	65.77	54.82	44.67	39.64	31.01				
RESINAS (HPLC)	% Peso						0.04	0.33	0,91	2,82	5,76	10,49				
AROMATICOS - FIA	% vol			_	17,2	17,4	18,9	31,1	-		-					
SATURADOS - FIA	% vol				82,2	82,6	81,1	68,9								
PARAFINAS - PNA	% Peso			26,07	14,73	12,08										
ISO PARAFINAS - PNA	% Peec			28,52	20.21	13,28										
ISO PARAFINAS - PNA	% vol			33.68	31.21	24.50										
NAFTENOS - PNA	% Peso			31.72	33,32	20,14										
NAFTENOS - PNA	% vol			29,38	32,69	19,71										
AROMÁTICOS - PNA	% Peso			10,40	22,43	36,17										
AROMATICOS - PNA	% vol			8,41	19,77	33,05										
N + A	% Peso			42,13	55,76	56,32										
N + A	% vol			37,79	52,46	52,76	00 E	100								
PUNTO DE CONGELACION	*0					23,5	-53.0	-24.0								
NUMERO LUMINOMETRO (CALCULADO)	Adim					52.9	45.5	31.8								
NAFTALENOS	% Vol					0,38	2,57	5,99								
INDICE DE REFRACCION A 20°C(67°C)	Adim					1,4460	1,4640	1,4810	1,4980	1,5155	1,5090	1,5175				1
RELACION CARBONO / HIDROGENO	Adim			5,73	6,16	6,32	6,67	6,97	7,27	7,44	7,59	7,60			and the second s	
NITHOGENO TOTAL	ppm p/p	3657				and the second s		55	252	994	1769	2608	5582	6193	6975	7134
NITHOGENO BASICO	a/a maa								183	443	559.5	816.3	1445.5			and the second se



Venezuelan* Crude Oil Terminal





Venezuelan* Fuel Oil – Overview

NAME	PDVSA
Quality Control Cystom	Any reputable surveyor available
Quality Control System	in Venezuela
Port Name	Amuay Port Terminal
Shipping Rates	1,000,000-2,000,000 bbls/ Month



Specifications

Venezuelan* Fuel Oil

S.NO	Parameter	Unit	Typical
1	Aluminum Content	PPM	30.0
2	API Gravity @60F (15.5°C)	API	10.0
З	Ash Content	%WT	.01500
4	Carbon Conradson	%WT	16.00
5	Flash Point	°F	150.0
6	Pour Point	°F	60.0
7	Water & Sediment	%VOL	100
8	Silicon Content	PPM	50.0
9	Sodium Content	PPM	70.0
10	Sulphur Content	%WT	3.5
11	Vanadium Content	PPM	500
12	Kinematic Visc @122°F (50°C)	ጠጠ ² / s	650,000-850,000



Venezuelan* Fuel Oil - Refinery





Venezuelan* Petcoke - Overview

NAME		PDVSA	
Quality Control Cystom		Any reputable surveyor available	
Quality Control System		in Venezuela	
Shipping Rates		50,000 (x2) MT / Month	
Port Name		Petro San Felix	
	Draft	10 Meters	
Loading Rate		700 MT / Hour	
		8,000-10,000 MT SHINC / Day	
Port Name		Petro Petrocedeño	
	Draft	10-12 Meters	
Loading Rate;		600 MT / Hour	
		7,000-9,000 MT SHINC	



Specifications Venezuelan* Petcoke

S.NO	Parameter	Unit	Test Method	Value
1	Ash- Dry Basis	%WT	D3174	1.20
2	Gross Calorific Value	BTU/lb	D2015	14,000
3	Moisture	%WT	D3173/D3302	12
4	Size Less Than 10cm	%	D293	98
5	Sulphur- Dry Basis	%WT	D4294/D4239	5
6	Vanadium & Metals Content	PPM	D3683	5,000
7	Hardgrove Index		D409	50



Venezuelan* Petcoke - Refinery







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Sunshine Energy & Commodities

THANK YOU!

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