

Barge Rigs



Fleet Overview

	Rig 20	Rig 21	Rig 22
Date in Service	2002	2005	2007 Major Upgrade 2011
Horse Power	1,500 HP	3,000 HP	3,000 HP
Depth Rating	18,000 ft	35,000 ft	35,000 ft
Top Drive	Varco TDS-II	Canrig 750	Canrig 750
Pumps	2 x Gardner Denver PZ-11, 3516 CAT Engines, 1,600 HP	3 x Continental Emsco, FC-1600 Triplex Pumps 7,500 psi fluid ends	3x LEWCO Triplex Pumps 2,200 HP, 7,500 psi fluid ends
Drawworks	National 110M 2,280 HP	Continental Emsco C-3 Type II 3,000 HP	Continental Emsco C-3 Type II 3,000 HP
Hookload	1 million lbs	2 millions lbs	2 millions lbs
Mud Tank Capacity	1,000 barrels	2,200 barrels	2,200 barrels
Barge Dimensions	195' x 54' x 12'	220' x 64' x 16'	250' x 70' x 18'
Generators	(3) 600 KW Caterpillar SR4B generators and (1) 210 KW Caterpillar SR4 standby	(4) 1,350 KW generators	(4) 2,000 KW generators
Draft	7'	8'	8' 0.5"

Barge Rig Overview – Rig 20

Barge Rig Overview – Rig 20

- Constructed in 2002
- 24-Hour inland bay barge rig
- 1,500 hp drawworks
- 750,000 lb hook load
- 18,000 ft drilling depth

Barge Rig 20 Specs

- **Drawworks:** National 110M, Baylor Electric Brake, National B-1 catheads, 6 hoisting speeds. (2280 input horsepower) National 3-engine compound with Quincy air compressor. Air-conditioned Driller's control room.
- **Drawworks Power:** 3-D-398 Cat engines rated to 760HP each with National C-300-64-FH torque converters.
- **Mast:** DSI/National Oilwell-Angle Leg, 142 foot height x 25 feet base spread, 1,000,000 lb. static load strung on 12 lines with 1 3/8" drill line. Dual standpipes, middle board.
- **Substructure:** Fabricated inland barge type with 30" diameter legs rated to 1,500,000 lb.
- **Hoisting/Traveling Equipment:** National/650G500 hook/block 500-ton capacity, National P-500, 500-ton swivel, 5 1/4" x 40' hexagonal Kelly with/Omsco Kelly cock, Varco pin drive bushing and Nat. ABC-2kelly spinner. 2-Speed Rotating Mouse Hole.
- **Rotary:** National/C275, 27" split bushing, pin drive, 500-ton capacity, drawworks driven.
- **Mud Pumps:** 2 Gardner-Denver PZ-11-1600HP powered by 3516 Cat Engines, 1640 HP with National C-300-125 FH Torque Converters-11" stroke.
- **TOP DRIVE: VARCO TDS-11 500 ton**
- **Mud System:** 1000bbl. total capacity with dividers, equalizers, guns, mixing/treating manifold and hopper system.
- **Solids Control Equipment:** Brandt dual "King Cobra" separators (Shakers), 16-2 mud cleaner (Desilter and Desander over Shaker), 1-G-10 mud degasser, Brandt MA-10 and MA-15 mud agitators.
- **Bulk Barite Storage:** 2000 sack capacity with dry air system.
- **Electrical Power:** 3-600KW Caterpillar SR4B generators powered by D-3412 Caterpillar engines. 1-210KW Caterpillar SR4 standby generator powered by D-3306 Caterpillar engine.
- **Air Compressors:** 1 Quincy 390 air compressor on compound, 1-quincey 5120 elec. drive and 1-gardner denver 75 hp screw drive air compressor, all air compressors equipped with coolers and dryers.

Rig Aerial Overview



- **Cranes:** Main crane; Applied Hydraulics 60 foot box boom with load line and fast line, 30-ton equipped with angle indicator and load indicator, 5 ton ebi crane (grocery and small supplies)
- **Fluid Capacities:**
 - Main Fuel tank - 39,737 gallons
 - Auxiliary fuel (day tanks) – 4000 gallons
 - Drill Water – 98,024 gallons
 - Potable Water – 30,000 gallons
 - Brake Water – 20,000 gallons
 - Pollution tank – 20,000 gallons
- **INSTRUMENTATION:** MD TOTCO RIG SENSE SYSTEM INCLUDES; PVT, FLO-SHOW, DEPTH, ROP, HOOK LOAD, BIT WEIGHT, BLOCK POSITION, PUMP PRESSURE, SPM WITH ACCUMULATED STROKES, ROTARY RPM, ROTARY TORQUE, TONG TORQUE, STRING WEIGHT AND GAS DETECTION. AUTOMATIC DRILLER. EXPLOSION-PROOF INTERCOM.
- **DRILL STRING:** 18,000' 5" 19.50LB. G-105 DRILL PIPE, 30-JT. 5" HWDP, 10-8" SPIRAL DRILL COLLARS, 30-JT. 6 1/2" SPIRAL DRILL COLLARS. CROSS OVERS, SAVER SUBS, BIT SUBS AND HANDLING SUBS. ALL DRILL STRING HANDLING TOOLS.
- **AUXILIARY PUMPS:** DRILL WATER, BAY WATER, WASHDOWN, MUD MIXING, SOLIDS CONTROL PUMPS, CHARGING AND 10" MARLOW DE-BALLASTING PUMP, FUEL TRANSFER PUMPS.

Rig 20 Well Listings Since 2019

Spud Date	Release Date	Operator	Well Name	Parish
Feb-19	Feb-19	LLOX, LLC	SL 21345 #4 ALT	Jefferson
Feb-19	Mar-19	Interstate Explorations	Palmetto Bayou Grandison #1	LaFourche
Mar-19	Apr-19	STACKED		
Apr-19	Jun-19	PetroQuest	Thibodeaux #1 P&A	Vermillion
Jun-19	Aug-19	STACKED		
Aug-19	Sep-19	LLOX, LLC	EMC Fee #1	Plaquemines
Sep-19	Sep-19	LLOX, LLC	EMC Fee A #1	St Charles
Sep-19	Oct-19	LLOX, LLC	EMC Fee #3	St Charles
Oct-19	Nov-19	STACKED		
Nov-19	Dec-19	Texas Petroleum Investment	EMC Fee #1	Iberia
Dec-19	Feb-20	STACKED		
Feb-20	Mar-20	American Natural Energy Corp	DSCI 85 SWD	St. Charles
Mar-20	Mar-20	American Natural Energy Corp	DSCI 155 BC 35	St. Charles
Mar-20	Apr-20	American Natural Energy Corp	DSCI 156 BC 46	St. Charles
Apr-20	Apr-20	American Natural Energy Corp	DSCI 157	St. Charles
Apr-20	May-20	American Natural Energy Corp	DSCI 160 Drill & Complete	St. Charles
May-20	Jun-20	American Natural Energy Corp	DSCI 156 Complete	St. Charles
Jun-20	Jun-20	American Natural Energy Corp	DSCI 155 Complete	St. Charles
Jun-20	Jul-20	American Natural Energy Corp	DSCI 161 Drill	St. Charles
Jul-20	Apr-21	STACKED		
Apr-21	May-21	LLOX, LLC	G-V Plantation # 1	Iberia
May-21	Jun-21	LLOX, LLC	K RC SUA; SL 21966 #1	Plaquemines
Jun-21	Jun-21	Decker	CIB C RC SUA; ALM LLC	Terrebonne
Jun-21	Jul-21	TPIC	S/L 20369 #3	St. Mary
Jul-21	Jul-21	STACKED		
Jul-21	Aug-21	LLOX, LLC	Apache LA, Minerals LLC #1	Terrebonne
Aug-21	Aug-21	Whitney Oil & Gas	S/L 998 #196	Plaquemines
Aug-21	Present	STACKED		

Barge Rig Overview – Rig 21

Barge Rig Overview – Rig 21

- Constructed in 2005
- 24-Hour inland bay barge rig
- 3,000 hp drawworks
- 2,000,000 lb hook load
- 30,000 ft drilling depth

Barge Rig 21 Specs

- **DRILLING RIG #21:** 24-HOUR INLAND BARGE DRILLING RIG RATED 30,000' WITH 15,000' 5.5 HT-55 DRILL PIPE, 12 - 8" DRILL COLLARS REGULAR CONNECTION, 20 - 6.5 DRILL COLLARS IF CONNECION, AND 30 – 5.5 HWDP.
- **DRAWWORKS:** CONTINENTAL EMSCO C-3 TYPE 2, 3000HP INPUT GROOVED FOR 1 ¼" DRILL LINE 7838 ELECTRIC BRAKE POWERED BY 3-1000HP GE ELECTRIC MOTORS
- **MAST:** SOMAC 2,000,000 LBS. HOOK LOAD 152' STRUNG WITH 16 LINES 1 ¼" DRILL LINE, RACKING BOARD, MIDDLE BOARD, DUAL STAND PIPES 7500 PSI.
- **ROTARY:** 37 ½ PIN DRIVE WITH 2 SPEED GEAR BOX DRIVEN BY 1-752 GE ELECTRIC MOTOR.
- **TOP DRIVE:** CAN RIG 750 TON.
- **TONGS:** NATIONAL OILWELL VARCO ST-80
- **ROTARY TONGS:** BJ TYPE DB AND HANDLING TOOLS. AIR SLIPS: ACCESS BACK SAVER, OFFSET FOR TOP DRIVE, 750 TONS.
- **MUD PUMPS:** 3 CONTINENTAL FC 1600 HP, POWERED BY 3-GE 752 ELECTRIC MOTORS ALL 3 PUMPS ARE EQUIPPED WITH 7500 PSI FLUID ENDS, AND SOUTHWEST HYD. LINER RETAINERS, AND 2-PIECE QUICK CHANGE RODS, SUCTIONS ARE SUPER CHARGED WITH 3-6X5 DERRICK CENTRIFUGAL PUMPS, HEADERS AND STAND PIPES ARE 5" MECHANICAL STEEL TUBES. ALL 3 PUMPS ARE EQUIPPED WITH 7500 PSI PULSATION DAMPNERS, AND SAFETY POP OFF VALVES WITH DISCHARGE RETURN TO SUCTION PITS, PUMP ROD LUBRICATION IS PROVIDED BY SHAFT/BELT DRIVEN CENTERFUGE PUMPS, AND CLOSED RESERVOIR. ALL 3 PUMPS CAPABLE OF RUNNING SIMULTANEOUSLY.
- **GENERATORS:** 4-3512 CAT ELECTRONIC FUEL EFFICIENT 1500 HP ENGINES WITH 1300 KW KATO GENERATORS. COOLING IS PROVIDED BY 4 COOLING TOWERS LOCATED ON TOP OF LIVING QUARTERS. 1 CAT 350 KW STANDBY GENERATOR. SCR HOUSE: 6-SCR PANELS, AND 5 GENERATOR PANELS (1-SPARE PANEL, COOLING INSIDE SCR HOUSE IS PROVIDED BY 20-TONS OF AC).
- **MUD PITS SOLID CONTORL:** TOTAL MUD CAP 2200 BLS, SAND TRAP 74 BBLS, 130 BBLS TRIP TANKS

Barge Rig 21 Arial Overview



- **BOP:** ANNULAR 13 5/8 5,000 PSI RAMS 13 5/8 10,000 PSI DRILLING SPOOL 13 5/8 10,000 PSI 2-10,000 PSI HCR VALVES 2-10,000 PSI MANUAL VALVES
- **BOP HANDLING EQUIPMENT:** 2-50 TON AIR OPERATED CHAIN FALLS 2-50 TON MANUAL OPERATED CHAIN FALLS
- **MANIFOLD:** CHOKE MANIFOLD IS RATED TO 15,000 PSI WITH 2-3" MANUAL CHOKES AND 2-SWATCO HYD. CHOKES BOTH MANIFOLDS ARE H2S CERTIFIED WITH 16"X40" GAS BUSTER AND 8" VENT RUNNING PAST DERRICK CROWN
- **CLOSING UNIT:** CAD S/N 020411589-1 MASTER UNIT, DRILLERS CONTROL PANEL, REMOTE PANEL 7-STATIONS, DIVERter SENSORS AND ALARMS, 450 GALLON RESERVOIR, 300 GALLON BOTTLE CAPACITY WITH 150 GALLON USEABLE FLUID CAPABLE OF CLOSING A SET OF 18" BOPS WITH 1 1/2 TIMES REMAINING CAPACITY.
- **CRANES:** OIL STATES MOD 60B3A-70 (70" BOOMS) 30-TON, 1 ON DRILL FLOOR AND 1 ON PATIO NEXT TO QUARTERS. BOTH CRANES ARE EQUIPPED WITH WEIGHT INDICATORS AND CROWN STOPS.
- **STORAGE:** DRILL WATER 98,000 GALLONS, POT WATER 50,000 GALLONS FUEL 50,000 GALLONS
- **BRAKE WATER, DRILL WATER AND BAY WATER PUMPS:** ALL 3 SYSTEMS HAVE 2-4X3 DERRICK CENTRIFUGAL PUMPS EACH 1-BACKUP PUMP EACH.

Rig 21 Well Listings Since 2019

Spud Date	Release Date	Operator	Well Name	Parish
Dec-18	Apr-19	Stacked		
Apr-19	Apr-19	LLOX, LLC	S/L 20344 SWD #1	Plaquemines
Apr-19	Apr-19	LLOX, LLC	S/L 195 QC SWD 7	Plaquemines
Apr-19	May-19	LLOX, LLC	SL 21775 #1	Plaquemines
May-19	Jun-19	LLOX, LLC	SL 21775 #2	Plaquemines
Jun-19	Jul-19	LLOX, LLC	LL&E #1	Plaquemines
Jul-19	Jul-19	LLOX, LLC	SL 21897 #1	Jefferson
Jul-19	Aug-19	LLOX, LLC	SL 21897 #2	Jefferson
Aug-19	Aug-19	LLOX, LLC	SL 21897 #2 ST	Jefferson
Aug-19	Mar-20	Stacked		
Mar-20	Mar-20	LLOX, LLC	Preparations for Power lines	
Mar-20	Jul-20	Stacked		
Jul-20	Feb-21	LLOX, LLC	G-V Plantation #1	St. Mary
Feb-21	Sep-21	Stacked		
Sep-21	Oct-21	Whitney Oil & Gas	S/L 998 #196	Plaquemines
Oct-21	Dec-21	Whitney Oil & Gas	S/L 1008 #138	Plaquemines
Dec-21	Jan-22	Whitney Oil & Gas	S/L 1388 #30	Plaquemines
Jan-22	Jan-22	LLOX, LLC	S/L 22013 #1 South Pass Block 7	Plaquemines
Jan-22	Jan-22	Stacked		
Jan-22	Jan-22	LLOX, LLC	S/L 195 QQ#1 AFE#WC21131201	Plaquemines
Jan-22	Feb-22	LLOX, LLC	S/L 195 QQ#4 AFE#WC21131601	Plaquemines
Feb-22	Feb-22	LLOX, LLC	S/L 195 QQ#3 AFE#WC21131501	Plaquemines
Feb-22	Feb-22	LLOX, LLC	S/L 21775 #2 AFE#WE22131101	Plaquemines
Feb-22	Mar-22	Peak	V-WA-Y RA VUA; LA Furs A # 25 AFE F25-01	Vermilion
Mar-22	Mar-22	Stacked		
Mar-22	Present	Whitney Oil & Gas	S/L 998 #198 AFE EB22005	Plaquemines

Barge Rig Overview – Rig 22

Barge Rig Overview – Rig 22

- Drilling Rig 22 is the most capable barge drilling rig in the GOM/Transition Zone market today, drilling exclusively for Freeport-McMoRan Oil & Gas (NYSE: FCX) since 2007 through 2016
- In 2011 FCX invested more than \$20MM in upgrades on the rig enabling it to safely and effectively drill into the deepest and toughest formations in the area
- Constructed in 2007
- 24-Hour posted barge rig
- 3,000 hp drawworks
- 2,000,000 lb hook load
- 35,000 ft drilling depth

Barge Rig 22 Drilling Equipment Specs

- **Design:** SEMCO Marine
- **Mast:** SOMAC 152-Ft 2,000,000-LBS Static hook load bottom spread 35-ft
- **Drawworks:** Continental EMSCO C-3 Type 2, 3000 Hp Powered by 3 GE 1100-HP High torque motors
- **Rotary Table:** 49 1/2" Pin Drive, 1000 Ton, with 2 Speed Gear Box Driven By 1-752 GE Electric Motor.
- **Top Drive:** CanRig 750 Ton
- **Tubular handling:** NOV IR 3080 iron Roughneck
- **Air Slips:** Access Back Saver, Offset for Top Drive, rated @ 750 Tons
- **Mud Pumps:** 3-Ea LeTourneau W-2215, Rated @2200-HP powered by GE High Torque, discharge Rated @ 7500-PSI 752 motors

Barge Rig 22 Aerial Overview



Barge Rig 22 Power / Crane Specs

- **Main Power:** 4-3516 Cat Electric Fuel Efficient 3500 Hp Engines With 2000 Kw Kato Generators, Cooling Is Provided By 4 Cooling Towers.
- 1 Cat 350-kw Standby Generator E-Gen.
- **SCR System:** 6-SCR panels, and 5 generator panels (1-spare panel, cooling inside SCR house is provided by 20-tons of ac)
- **Crane:** 1-30 TON SEATRAX GANTRY TYPE CRANE ON DRILL FLOOR. 1-30 TON OIL STATE MOD. 60B33A-70 ON PIPE RACK

Rig 22 Well Listings Since 2007

Spud Date	Release Date	Operator	Well Name	Parish
Apr-07	Oct-07	McMoRan Oil & Gas	S/L 340 #5	Iberia
Oct-07	Apr-08	McMoRan Oil & Gas	SMI 212 #229	Iberia
Apr-08	Oct-08	McMoRan Oil & Gas	OCS 00310 Well #231	Federal
Oct-08	Apr-09	McMoRan Oil & Gas	OCS 00310 Well #233	Federal
Oct-09	Nov-09	Chevron	OCS G-0310 #231	Federal
Nov-09	Nov-10	McMoRan Oil & Gas	Blueberry Hill #2	Iberia
Nov-10	Jan-11	Chevron	SMI 212 #229 MRWO	Iberia/Federal
Jan-11	Jul-11	McMoRan Oil & Gas	217 #234 Hurricane Deep #2	Federal
Jul-11	Sep-12	McMoRan Oil & Gas	Upgrades/SEMCO	
Sep-12	Jan-15	McMoRan Oil & Gas	Jeanerette Minerals #1	St. Martin
Jan-15	Jul-15	McMoRan Oil & Gas	Standby/Berwick Dock	
Jul-15	Sep-15	McMoRan Oil & Gas	Highlander #1	St. Martin
Oct-15	Dec-17	McMoRan Oil & Gas	Standby/Berwick Dock	
Dec-17	Nov-19	Mormaer Exploration/STACKED	Highlander #2	St Martin
Nov-19	Jan-20	Southern Oil of LA	SL 21864 #1	Plaquemines
Jan-20	Present	STACKED		