

SPECIFICATION SHEET

GENERAL

- **Rig Type:** Land Drilling Rig – Skid Mounted
 - **Rig Class:** $\geq 1,500$ HP
 - **Design / Manufacturer:** Global Energy – Quicksilver Series
 - **Application:** Oil & Gas / Geothermal Drilling
 - **Power System:** AC / VFD driven
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MAST

- **Type:** Free-standing Mast
 - **Height:** approx. 36 m (118 ft)
 - **Maximum Static Hook Load:** 600,000 lbs
 - **Top Drive & Tripping Capability:** Yes
 - **Casing Handling Capability:** Up to large OD casing strings (subject to project configuration)
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SUBSTRUCTURE

- **Type:** Skid-mounted substructure
 - **Clear Height (Ground to Rotary Beam):**
 - Documented: 17 ft 8 in
 - As-installed / skid-mounted configuration: approx. **22 ft 2 in**
 - **Rotary Load Capacity:** 750,000 lbs (with full setback)
 - **Setback Load Capacity:** 400,000 lbs
 - **Drill Floor Height:** 22 ft
 - **Drill Floor Dimensions:** approx. 40 ft $\times$ 21.5 ft
 - **Skid System:** Integrated hydraulic skid system (transverse / lateral)
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DRAWWORKS

- **Rated Power:** 1,500 HP class

- **Main Drum Rated Pull:** $\geq 600,000$ lbs
 - **Auxiliary Brake:** Eddy current / electromagnetic type
 - **Gear Configuration:** Information to be confirmed
 - **Drum Grooving:** Matched to drilling line
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HOISTING SYSTEM

- **Travelling Block Capacity:** 600,000 lbs
 - **Crown Block Capacity:** 600,000 lbs
 - **Hook Rating:** 600,000 lbs
 - **Links Rating:** 600,000 lbs
 - **Swivel / TDS Integrated Swivel:** Included with Top Drive
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ROTATING SYSTEM

Rotary Table

- **Opening:** 27.5" (37.5" optional configuration)
- **Application:** Drilling and conductor operations (configuration dependent)

Top Drive System

- **Type:** Electric Top Drive
 - **Continuous Torque:** $> 27,000$ ft-lbs
 - **Max Make-up / Break-out Torque:** ITC
 - **Working Pressure:** 5,000 psi
 - **Hoisting Capacity:** 600,000 lbs
 - **Link Tilt Capability:** Yes
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POWER & ELECTRICAL

- **Prime Movers:** Diesel engines driving generators
 - **Power Distribution:** AC / VFD system
 - **Simultaneous Operations Capability:** Designed for concurrent drilling, hoisting, and pumping loads
 - **Emergency Power:** Provided (details ITC)
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MUD SYSTEM

- **Mud Pumps:**
 - Installed: **2 × high-pressure mud pumps**
 - Provision for third pump: **Yes (pre-engineered)**
 - **Combined Continuous Capacity (2 pumps):** ~1000 GPM @ 2600 psi (configuration dependent)
 - **Mud Pump Pressure Rating:** ≥ 3000 psi
 - **Charging Pumps:** Dedicated centrifugal charge pumps
 - **Elastomers / Fluids:** Compatible with water-based muds and geothermal fluids
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WELL CONTROL

- **BOP Handling:** Substructure capable of accommodating full BOP stack
 - **BOP Installation:** Full stack installation within substructure achievable
 - **Diverter / BOP Sizes:** Project specific (ITC)
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DRILLING LINE

- **Diameter:** 1-1/8"
 - **Length:** ≥ 1,500 m on spool
 - **Grade:** EIPS, IWRC
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MOBILITY

- **Rig Move Type:** Skid / modular
- **Rig-Up Flexibility:** Suitable for constrained locations and geothermal pads

The rig features an AC/VFD architecture with Top Drive system, mast rated to 750,000 lbs, skid-mounted substructure, and high-pressure circulating system with multiple mud pumps. Its configuration supports modern drilling practices, BOP handling within the substructure, and flexible rig move operations. The rig is suitable for conventional oil & gas as well as geothermal drilling projects, subject to project-specific configuration and scope. This is a heavy-duty land drilling rig in the 1,500+ HP class, designed for demanding drilling operations including deep and high-load applications. Full inventory list in the following pages.

	Description	Code	Brand	Model
Generator 1	Generator	0000095950	CATERPILLAR	SR4B
	Engine	0000079275	CATERPILLAR	3512B
	Compressor	0000090264	SULLAIR	1809/A
	Air Dryer	0000090825	SULLAIR	S/N
Generator 2	Generator	0000095591	CATERPILLAR	SR4B
	Engine	0000079271	CATERPILLAR	3512B
	Air Dryer	0000090824	SULLAIR	S/N
	Compressor	0000090263	SULLAIR	1809/A
Generator 3	Generator	0000095590	CATERPILLAR	SR4B
	Engine	0000079380	CATERPILLAR	3512B
	Compressor	0000090265	GARDNER DENVER	HDR5-3L
	Air Tank N°1	PE161TAUS1	NA	NA
	Air Tank N°2	PE161TAUS1	NA	NA
Mud Pump 1	Mud Pump	0000005627	NOV	FD 1600
	Electric Engine MP1A	0000091395	WARD LEONARD	WL752150HSTAA
	Blower MP1A	PE161SOB1A	NA	NA
	Aux Oil Pump			
	Rod Lubrication Auxiliary Pum			
	Charge Pump N°1	0000091659	SIEMENS	RGZZESD
Mud Pump 2	Mud Pump	0000005628	NOV	FD 1600
	Electric Engine MP1A	0000091384	WARD LEONARD	WL752150HSTAA
	Blower MP1A	PE161SOB2A	SIN FABRICANTE	SIN MODELO
	Aux Oil Pump			
	Rod Lubrication Auxiliary Pum			
	Charge Pump N°2	0000091388	SIEMENS	RGZZESD
VFD	VFD	0000062561	Global Energy Services	CABINA VFD
	Air conditioner N° 1	0000062562	SPECIFIC SYSTEMS	APK120-C-WHD-X-G-X-10-X-W-N-N-
	Air conditioner N° 2	0000062563	SPECIFIC SYSTEMS	APK120-C-WHD-X-G-X-10-X-W-N-N-
	VFD Transformer	0000062564	HAMMOND POWER SOLUTIONS INC.	MK1000PTAH3R
	VFD Transformer	0000062565	HAMMOND POWER SOLUTIONS INC.	MK112PB
	VFD Transformer	0000062567	VASILE	VSV
Fuel Tank	Fuel Tank	0000043440	NA	NA
	Centrifugal Pump N°1			
	Centrifugal Pump N°2			
Ground Manifold	Mud Pumps Manifold			
Grasshopper Cable Skid	Grasshopper Cable Skid	NA	NA	NA
Water Tank	Water Tank - 79m3	0000043435	NA	NA
HPU	Top Drive HPU	0000082705	CANRIG LTD	P/N AY10135
	Iron Roug HPU	0000082712	HAWK INDUSTRIES	HPU T-WREX JR
	Rig HPU	0000082704	Global Energy Services	HPU
	Starting Engine (Combustion)	0000078156	CUMMINS	QSB3.3
	Starting Engine (Electric)	0000091386	WEG MOTORES ELECTRICOS	FRAME404/5T - 75 HP
Accumulator	Accumulator	0000092240	T3 ENERGY SERVICES	18252406810T3A
	Air Tank	PE161TAACU	NA	NA
Substructure	Substructure	0000040046	Global Energy Services	SUBESTRUCTURA 750000 LBS
	Air Tank	PE161TASU1	NA	NA
	Rotary Table	0000099186	AMERICAN BLOCK	RK-275
	Electric Engine (Rotary Table)	0000091382	WARD LEONARD	WL752150HSTAA
	Control Panel	0000094011	Global Energy Services	GES-AC1600
	DW Gearbox	0000096364	FLENDER	K3DH-117
	Motor Control Panel	0000091381	WARD LEONARD	WL752150HSTAA
	Hydraulic Winch No. 1	0000085180	BRADEN Gearmatic	PD-12C-SPL-59029-01
	Hydraulic Winch No. 2	0000085181	BRADEN Gearmatic	PD-12C-SPL-59029-01
	Hydraulic Winch No. 3	0000085189	BRADEN Gearmatic	BG48-05119-01
	BOP Winch No. 1			
	BOP Winch No. 2			
Mast	Mast 750000 LBS	0000086613	Global Energy Services	NA
	Mast Rigging	0000098161	AMERICAN BLOCK	B42F 400
	Mast Dolly	00000000557	NA	
Main tools	Top Drive	0000062560	CANRIG LTD	1035AC-500
	Electric Engine Pot Top Drive	0000091383	5GEB20C1	VV08050005
	Iron Roughneck	0000082225	T-WREX JR	117
	Pneumatic Wrench	82221		550A
	Pipe Spinner	82501	KLAMPON	KSA7
Dog House	Driller Cabin	0000044338	NA	S/N
	Air Conditioned	0000062566	APK120-C-WHD-X-G-X-10-X-W-N-N-	T-700602-01