www.PetroRigs.com 1200 HP Rig

<u>MAST</u>

ITEM		DESCRIPTION	<u>QUANTITY</u>
Mast	Rostel	telescoping double certified and built to API 4F specifications. Clear height	
	102'-3'	". 400,000 lbs. static hook. Capable of withstanding 81 mph wind loading	
	with fu	Ill setback and 107 mph wind loading without setback. Included winterization	1
	around	the racking board with integral derrickman warmup shack.	
Mast Trailer	Trailer	to transport mast	1
Crown	Tesco a	8 lines split block setup, four 36" sheaves and one 30" crossover sheave all	
	groove	ed for 1-1/8" drilling line.	
Racking Board	Rackin	g board is enclosed with wind walls extending 12' above the board and 4' below	1
	the bo	ard.	
Setback & Rack	king	12,000' of 3-1/2" or 4" DP with 5-1/4" tool joints plus BHA.	1
Board Capacity	,		
Setback & Rack	king	9500' of 4-1/2" Drill pipe (DP) with 6-1/2" tool joints plus heavy	
Board Capacity	,	weight DP and bottom hole assembly (BHA).	1

SUBSTRUCTURE DESCRIPTION

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<u>ITEM</u>	DESCRIPTION	QUANTITY
Substructure	Tesco Swing Up substructure with simultaneous 400,000 lbs. static rotary capacity &	
	200,000 lbs. setback capacity. Usable BOP height of 15' and drill floor height of 20'-6".	1
Raising Skid	Mast and floor raising skid with hydraulic raising rams.	1
Sub DS and	DS wing supports Water Tank, Change House, and Dog House stack up, ODS wing	
ODS Wings	supports Shaker Tank, Shaker Module, and Toolhouse.	2
Sub Rear Porch	Rear Porch supports the Accumulator Module, Choke Manifold Module and Poorboy	
	Degasser Module.	1
Water Tank	200bbl Main Rig Water Tank sits on the DS substructure frame on level 1 and supports	
	a change room on level 2.	1
Rig Change	Change room with personnel lockers on level 2 supports the Rig Doghouse on level 3.	
Room		1
Dog House	The Dog house houses a PLC computer operated drillers console, the gas detection	
	instrumentation, BOPE control panel and Super Choke controls.	1
Accumulator	CTI 5 Station 3M BOPE accumulator with local manual controls and drill floor HMI control	ols.
module	Equipped 1 electric and 3 air power pumping systems as well as with nitrogen backup	
	accumulator system. (0 hours on API CAT IV just completed) Part of Substructure.	1
Shaker Module	This module houses two Swaco Mongoose shakers (a Pro Dual setup) capable of deliveri	-
	cuttings to an attached auger house to convey cuttings to bins or tankage, or to optional	1
	Dewatering shaker unit.	1
Choke Mani-	3" double gut choke manifold with Tartan valves, hydraulic and manual chokes and 6k ps	i
fold Module	test pump.	1
Shakers	MI-SWACO Mongoose Dual Platform. Part of Shaker Module.	1
Shaker Tank	The Shaker tank sits on the ODS substructure frame on level 1 and supports the Shaker	
	module above on level 2. This tank houses a 130bbl Sand Trap and a 26.6 bbl Trip Tank P	'art
	of Shaker Maodule.	1
ODS Tool House		1
Winterizing	Complete substructure is enclosed with buildings, wind walls to a height of 12' above the	
	doghouse roof, and doors enclosing the cellar.	1
Mud Gas Seper	· · ·	
(Poorboy Degas	•	1
BOP Dolly	A BOP dolly capable of moving a 13-5/8" 5000 psi BOP stack through a set of outside doe	
	on a track, and into position in the cellar over the well center.	1

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<u>1200 HP Rig</u>

	POWER GENERATION	
ITEM	DESCRIPTION	QUANTITY
Electric Power	Two each 14 L Detroit Diesel Series 60 (600 HP each) engines. Each engine driving a	
	"New Age" generator (producing 470 KW each) which provides AC for the rig and powe	r
	the #2 Mud Pump. The system is designed with the capability to add an optional 3 rd star	nd
	alone generator and sync into the system if desired.	2
Hydraulic	Two each Series DDEC IV MTU 2000 Detroit Diesel engines. Maximum continuous powe	r
Power	600 KW (800 HP); maximum 634 KW (850 HP) each. Each engine driving 6 Linde HPV135	5
	hydraulic pumps. Total rig hydraulic power 1,200 KW (1,600 HP). These units provide po	ower
	for the drawworks, top drive and one mud pump.	2
	HOISTING SYSTEMS	
	HOISTING SYSTEMS	
ITEM Drawworks	DESCRIPTION	QUANTITY
Drawworks	Tesco Hydraulic Single Drum Drawworks, Lebus grooved for 1-1/8" drill line. The Draw-	
	works mounts to the back of the mast and isequipped with two 50" disk brakes, two	1
August Durale	calipers for the working brake. The hydraulic system is used as the dynamic brake.	1
Auxillary Brak-		1
ing System	drawworks provides power in and out of hole. <i>This is integral to the drawworks</i> .	1
BOP Handling	One set of hydraulic cylinders mounted horizontally under the floor for lifting the BOP stack and moving the BOPs on or off the BOP dolly. <i>This is integral to the substructure</i> .	1
System Tugger Utility	Two each tugger utility winches, with 10,000 lbs. hoisting capacity. Integral to Drawwor	1 ks. 2
Winches	Two each tugger utility winches, with 10,000 lbs. Hoisting tapacity. Integral to Drawwor	K3. Z
Manrider	One winch engineered for man-riding applications with max overpull protections.	
Winches	Mounted to Mast.	2
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	ROTARY & TRAVELLING EQUIPMENT	
<u>ITEM</u>	DESCRIPTION	<u>QUANTITY</u>
Top Drive	Tesco model 250 HMI top drive, 250-ton capacity with integrated swivel. Maximum tor	•
	of 20,600 ft-lbs. and maximum speed of 175 rpm.	1
Travelling Block		1
Drilling Line	1-1/8" x 5000' Tuf-Flex drilling line.	2 new, 1 partial
Rotary Table	Twister 175 rotary table (hydraulically driven) with 17-1/2" opening.	1
	<u>MUD SYSTEM</u>	
ITEM	DESCRIPTION	QUANTITY
Mud Pump #1	One each Ellis Williams WH 1000 A Triplex: 6"x10" stroke. Powered by a Haglund Hydra	ulic
	motors producing 746 KW (1000 HP). Equipped with PD 45-5000 pulsation dampener.	1
Mud Pump #2	One each TSM 1000 HP triplex pump. Powered by one each 1000 HP AC electric drive	
	motor and Yaskawa 1000 hp VFD. Equipped with PD 45-5000 pulsation dampener.	1
Pits	472 BBLS active mud pits system. See drawing for tank capacities, use, and locations	7 tanks
Vacuum Degas	ser Derrick Vacu-Flo Degasser	1
Centrifugal Pur		
	transfer, charge pumps.	3
Agitators	7.5 HP agitators.	5
Mud Mixing	Venturi mud mix hoppers.	
Hopper		1

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HVAC SYSTEMS

DESCRIPTION

Steam Heaters

BLOW OUT PREVENTER EQUIPMENT (BOPE)

ITEM

ITEM

<u>ITEM</u>	DESCRIPTION	QUANTITY
BOPE	CTI 5 Station 3M BOPE accumulator with local manual controls and drill floor HMI contro	ols.
Accumulator	Equipped 1 electric and 3 air power pumping systems as well as with nitrogen backup	
	accumulator system. (0 hours on API CAT IV just completed) Part of Substructure.	1

Ruffneck Steam Heaters. Integral to Rig throughout.

<u>ITEM</u>	DESCRIPTION	QUANTITY
Choke Manifold	3" 5M working pressure with super choke. Part of substructure	1
Choke Hose	3" 5M system working pressure with HCR and manual valves.	1
Kill Hose	2" 5M system working pressure with 2 each manual valve.	1
BOP Test Pump Test	pump assembly comes equipped with pressure gauges, hoses and valving required	to
test t	he BOPs to AOGCC regulation. Part of Choke Manifold and Substructure.	1
Inside Blow Out	This item is integral to top drive system and is included with top drive assembly.	
Preventor (IBOP)		2

INSTRUMENTATION

<u>ITEM</u>	DESCRIPTION	QUANTITY
Dog House	PLC/HMI controlled joystick Drillers console with integral BOP control panel and Super	
	Choke controls. Part of Substructure.	1
Gas Detection	Otis Gen II 32-Channel hybrid monitor system, as available	1
Gas Detection	Otis Gen II 32-wire free OI-6900 ambient air gas sensors (LEL &H2S), as available	4
Weight Indicat	or Integrated weight indicator in Drillers console and hydraulic dead line anchor	
	weight indicator.	1
HP Mud & Cem	<i>ent</i> Local pressure gauges at the mud pumps and at the rig floor mud manifold.	1
Pressure Gauge	s	
Rig Intercom	Gaitronics Page/Party Communications System	1

HANDLING TOOLS DESCRIPTION

ITEM	DESCRIPTION	QUANTITY
Lift Subs		1 lot
Crossovers		1 lot
Drill Pipe Slips	Hand slips for 4-1/2" drill pipe.	2 sets
Drill Collar Slips	Drill Collar slips for 6-1/2" collars	1 set
Power Slips	Cavins air slips 2-3/8" to 5-1/2"	1
Manual Rotary Tongs	B&V WRT 35 Manual rotary tongs	2 sets
Manual Rotary Tongs	Rostel Type B	2 sets

MISCELLANEOUS EQUIPMENT

ITEM	DESCRIPTION	QUANTITY
Portable HPU	Cummins BT4 engine/generator, electric driven HPU pumps with manual and remote	
Module	controls. This HPU unit is used to raise and lower the mast and swing up rig floor.	1
Test joint	27' long with 4-1/2" XT39 connections	1
Raising Cylinde	r Spare Raising Hydraulic Cylinder	
Hydraulic Mote	ors Spare Hydraulic Motors for Top Drive and Draw Works	1 lot
Hydraulic Pum	os Spare Hydraulic pumps for HPU	1 lot
Gear Box	Spare HPU gear box for pump drive	1

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QUANTITY