

	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
1	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 full setback and 107 mph wind loading without setback. Includes winterization around the racking board with integral derrickman warmup shack.	1
1	Mast Trailer	Trailer to transport mast	1
1	Crown	Tesco 8 lines split block setup, four 36" sheaves and one 30" crossover sheave all grooved for 1-1/8" drilling line.	1
1	Racking Board	Racking board is enclosed with wind walls extending 12' above the board and 4' below the board.	1
1	Setback & Racking Board Capacity	12,000' of 3-1/2" or 4" DP with 5-1/4" tool joints plus BHA.	1
1	Setback & Racking Board Capacity	9,500' of 4-1/2" drill pipe (DP) with 6-1/2" tool joints plus heavy weight DP and bottom hole assembly (BHA).	1

		<u>SUBSTRUCTURE</u>	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
2	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
2	Raising Skid	Mast and floor raising skid with hydraulic raising rams.	1
2	Sub DS and ODS Wings	DS wing supports Water Tank, Change House, and Doghouse stackup, ODS wing supports Shaker Tank, Shaker Module, and Toolhouse	2
2	Sub Rear Porch	Rear Porch supports the Accumulator Module, Choke Manifold Module and Poorboy Degasser Module	1
2	Water Tank	200 bbl Main Rig Water Tank sits on the DS substructure frame on level 1 and supports a change room on level 2	1
2	Rig Change Room	Change room with personnel lockers on level 2 supports the Rig Doghouse on level 3	1
2	Dog House	The Doghouse houses a PLC computer operated drillers console, the gas detection instrumentation, BOPE control panel and Super Choke controls	1
2	Accumulator Module	CTI 5 Station 3M BOPE accumulator with local manual controls and drill floor HMI controls. 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
2	Shaker Module	This module houses two Swaco Mongoose shakers (a Pro Dual setup) capable of delivering cuttings to an attached auger house to convey cuttings to bins or tankage, or to optional Dewatering shaker unit	1
2	Choke Manifold Module	3" double gut choke manifold with Tartan valves, hydraulic and manual chokes and 6kpsi test pump	1
2	Shakers	MI-SWACO Mongoose Dual Platform. Part of Shaker Module	1
2	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 130 bbl Sand Trap and a 26.6 bbl Trip Tank. Part of Shaker Module	1
2	ODS Tool House	This module is two rooms that houses tools and equipment	1
2	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 Separator Module (Poorboy Degasser)	Mud/Gas Separator with 9' Mud Seal vented to atmosphere	1
2	BOP Dolly	A BOP dolly capable of moving a 13 5/8" 5000 psi BOP stack through a set of outside doors on a track, and into position in the cellar over the well center	1

		<u>POWER GENERATION</u>	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
3	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 power the #2 Mud Pump. The system is designed with the capability to add an optional 3rd stand alone generator and sync into the system if desired.	2

Hydraulic Power

Two each Series DDEC IV MTU 2000 Detroit Diesel engines. Maximum continuous power 600 KW (800 HP); maximum power 634 KW (850 HP) each. Each engine driving 6 Linde HPV135 hydraulic pumps. Total rig hydraulic power 1,200 KW (1,600 HP). These units provide power for the drawworks, top drive and one mud pump. 2
 These engines are in Kenai and separated from the HPU. Currently the HPU's are driven by the 1000hp AC motors which would need to be removed and the Diesel engines re-installed.

AC Drive House to be used with 3rd party incoming power and the Optional 1000hp electric motors to drive the HPU's instead of the MTU 2000 engines above.

AC Drive House Drive house with 2 ea Yaskowa 1000hp VFD's and switch gear. 1 This unit will alternately supply the rig with AC power from outside utility to enable the rig to run without generator power. 1
 The MTU 2000 engines are then replaced w/1000hp AC motors to drive HPU's

#3 Generator Auxillary power unit

14 L Detroit Diesel Series 60 (600HP engine) driving a "New Age" 470kw generator with MCC, govonor, and plug bank. This unit can be stand alone generator package or set along side the #1 and #2 rig generators and synched in with them. It also is the power for the pre-mix pits 1

HOISTING SYSTEMS

ITEM	DESCRIPTION	QUANTITY
4 Drawworks	Tesco Hydraulic Single Drum Drawworks, Lebus grooved for 1 1/8" drill line. The Drawworks mounts to the back of the mast and is equipped with two 50" disk brakes, two calipers for the working brake. The hydraulic system is used as the dynamic brake.	1
4 Auxiliary Braking System	Spring applied hydraulically activated disk brakes for parking brake function. Hydraulic drawworks provides power in and out of hole. This is intregal to the draw works	1
4 BOP Handling System	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. This is intregal to the substructure	1
4 Tugger Utility Winches	Two each tugger utility winches, with 10,000lbs. hoisting capacity. Intregal to Draw works	2
4 Manrider Winches	One winch engineered for man-riding applications with max overpull protections. Mounted to Mast	2

ROTARY & TRAVELLING EQUIPMENT

ITEM	DESCRIPTION	QUANTITY
5 Top Drive	Tesco model 250 HMI top drive, 250-ton capacity with integrated swivel. Maximum torque of 20,600 ft.-lbs. and maximum speed of 175 rpm.	1
5 Travelling Block	Tesco split block 400,000 lbs. capacity, 8 lines setup.	1
5 Drilling Line	1-1/8" x 5000' Tuf-Flex drilling line.	2 new, 1 partial
5 Rotary Table	Twister 175 rotary table (hydraulically driven) with 17-1/2" opening.	1

MUD SYSTEM

ITEM	DESCRIPTION	QUANTITY
6 Mud Pump #1	One each Ellis Williams WH 1000 A Triplex: 6" x 10" stroke. Powered by a Haglund Hydraulic motors producing 746 KW (1000 HP). Equipped with PD 45-5000 pulsation dampener.	1
6 Mud Pump #2	One each TSM 1000 HP triplex pump. Powered by one each 1000 HP AC electric drive motor and Yaskawa 1000hp VFD. Equipped with PD 45-5000 pulsation dampener.	1
6 Pits	472 BBLs active mud pits system. See drawing for tank capacities, use, and locations.	7 tanks
6 Vacuum Degasser	Derrick Vacu-Flo Degasser.	1
6 Centrifugal Pumps	6 x 5 Mission Magnum centrifugal pumps. Used for mud mixing, gun lines, mud transfer, charge pumps	3
6 Agitators	7.5 HP agitators.	5
6 Mud Mixing Hopper	Venturi mud mix hoppers.	1

HVAC SYSTEMS

	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
	Steam Heaters	Ruffneck Steam Heaters (Integral to Rig throughout)	
8		BLOW OUT PREVENTER EQUIPMENT (BOPE)	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
8	BOPE Accumulator	CTI 5 Station 3M BOPE accumulator with local manual controls and drill floor HMI controls. 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 Above	1
9		INTERMEDIATE BOP SYSTEM	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
9	Choke Manifold	3" 5M working pressure with super choke. Part of substructure above	1
9	Choke Hose	3" 5M system working pressure with HCR and manual valves.	1
9	Kill Hose	2" 5M system working pressure with 2 each manual valve.	1
9	BOP Test Pump	Triplex test pump electrically driven, rated at 4.6 GPM at 6,000 PSI. Test pump assembly comes equipped with pressure gauges, hoses and valving required to test the BOPs to AOGCC regulation. Part of Choke manifold and substructure	1
9	Inside Blow Out Preventer (IBOP)	This item is integral to top drive system and is included with top drive assembly.	2

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

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

	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
12		MISCELLANEOUS EQUIPMENT	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
12	Portable HPU module	Cummins BT4 engine/generator, electric driven HPU pumps with manual and remote controls. This HPU unit is used to raise and lower the mast and swing up rig floor.	1
12	Test Joint	27' long w/4 1/2" XT39 connections	1
12	Pre-Mix pit system	400 bbl pre-mix system w/mix hoper/pump module, 2 tank modules, and 2 top tank cover buildings.	1 lot
12	2M BTU Air Heater	Substructure air heater w/ducting	1
12	Available Rig Mats	Rig Mats that are not covered up or used by other rig equipment	1 lot

	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
12		SPARE PARTS	
	<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
12	Raising Cylinder	Spare Raising Hydraulic Cylinder	1 lot
12	Hydraulic Motors	Spare hydraulic motors for Top Drive and Draw Works	1 lot
12	Hydraulic Pumps	Spare Hydraulic pumps for HPU	1
12	Gear Box	Spare HPU gear box for pump drive	1
12	Misc. spare hose	No Inventory; Spare Choke and Kill hose, rotary hose, and other hoses that are part of the rig spares	1 lot
12	Misc rig snares	No inventory; but whatever rig equipment spares are there	1 lot