

**750 HP x 400,000 lbs. HOOK LOAD
CARRIER MOUNTED
DRILLING/WORKOVER RIG
BRAND NEW**



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SECTION 1

CARRIER AND DRAWWORKS (NEW)

<u>ITEM QTY.</u>	<u>DESCRIPTION</u>
1.1. One (1)	SELF PROPELLED BACK-IN CARRIER Material: One(1) S&S carrier frame. The carrier is a S&S self-propelled back-in type, manufactured with wide flange main beams and an all welded frame. Heavy-duty front and rear bumpers equipped with heavy-duty tows are welded to the carrier frame. Includes integral stairs built into carrier frame, one (1) each side. The carrier also includes 18 in wide driller's side and off-driller's side folding walkways, handrails with toe guards and driller's side and off-driller's side removable steel stairs to ground complete with handrails. Front mast lay down support (headache rack) with heavy-duty spreader arms mounted on carrier is designed to prevent carrier beams twisting due to mast weight by transferring the weight to the suspension. As well, tire flaps are also installed behind tires. The highway lighting package comes with turn signal lights, clearance lights, headlights, stop/brake lights, back-up alarm, and reflectors. The lights are fully wired to the controls and switches located in the driver's cab. All wires are routed through cable hangers located in the carrier frame and shielded to protect them from damage.
1.1.1	DRIVER'S CAB Material: One (1) single man insulated cab. The cab is equipped with a steering column and steering wheel, acceleration and brake pedals, turning signal switch, adjustable bucket seat with safety belt, dome light, windows (complete with a roll-up window in the door and a sliding side window on the off driller's side), cab heater, and a front 12V electric wiper. Cab is also equipped with one (1) fire extinguisher, one (1) First Aid Kit, and flares. The installed control panel consists of the following:

ITEM QTY.	DESCRIPTION
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Gauges: Speedometer, Tachometer, Transmission Oil Pressure, Transmission Oil Temperature, Fuel, Air Pressure (System and Brake), Engine Oil Pressure, Engine Water Temperature, and Volt.

Controls: Head Light, Dome Light, Dimmer Control, Fan, Wipers, Washer, Air Horn, Electric Horn, Engine (Start/Stop), Shutdown Override, Diagnostic Request, Emergency Shutdown, Differential Lockup, Park Brake, and Lever Gear Selector (Transmission).

Indicator Lights: High Beam, Check Transmission, ABS, Check Engine, Shutdown Engine, Low Coolant, and Low Air (c/w audible alarm).

Driver's Cab Option:

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cab Heater	Included

1.2 RUNNING GEAR (14 X 4 DRIVE)

Material:

Three (3) front non-drive steering axles with rear wheel drive tandem axles, and two (2) non-drive pusher/tag axles.

Running gear suspension is a combination of Reyco Spring Suspension and Hendrickson walking beam suspension. Pusher/tag axles complete with Hendrickson air ride suspension. All driveline shafts use Spicer 1810.

Front steer axles are Meritor Easy Steer with "Q Plus" braking, rated at 22,800 lbs. per axle. The front axles are equipped with six (6), 445/65R22 tires.

Total front axle capacity is 68,400 lbs.

Rear drive axles are Meritor single-reduction tandem drive axles with "heavy duty Q plus" braking, rated at 50,000 lbs. per tandem axle, and two (2) pusher/tag axles complete with Hendrickson (or

ITEM QTY.

DESCRIPTION

equivalent) air ride suspension, 25,000 lbs capacity each with pneumatic control valve. Rear axles are equipped with sixteen (16) 12R22.5 tires. Mud flaps behind rear wheels.

Total rear axle capacity is 100,000 lbs.

All axles to be equipped with anti-locking braking system (ABS) the ABS optimizes the braking performance under demanding conditions or emergency braking and providing maximum control on hazardous slippery surfaces.

The rear axle has driver-controlled differential lock (DCDL).

Note: The seven (7) axle carrier is furnished with two (2) rear drive axles, but can be furnished with additional front and rear drive axles in lieu of non-drive axles if required at additional charge.

1.1.3

LEVELING JACKS

Material:

Four (4) mechanical locking hydraulic jacks. The S&S mechanical locking hydraulic jacks are mounted to carrier frame for leveling and support during rig operations. The jacks are located at the rear bumper and behind the rear steering axle.

Two (2) drop down mechanical belly jacks. The S&S drop down mechanical belly jacks are mounted to the carrier frame to provide additional leveling and support. These jacks are located between the front and rear axles.

1.1.4

FUEL SYSTEM

Material:

One (1) 100-gallon fuel tank mounted on rig carrier, complete with piping to rig engines.

Fuel Tank Options:

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	One (1) additional 100 gal. Fuel tank, with lines and check valve	Included

ITEM QTY.	DESCRIPTION
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1.1.5	TOOL BOXES
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|---------|---|
| One (1) | Material:
steel tool box, 36 in. L x 48 in. H x 10-1/2 in. W, mounted on the carrier deck. |
| One (1) | steel tool box, 36-1/8 in. L x 18 in. H x 18-3/8 in. W., mounted on the underside of the carrier frame. |

1.1.6	WINCHES
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- | | |
|------------------|--|
| Material: | |
| Two (2) | 12,000 lbs. hydraulic winches (Model PD-12C-1) Includes 325 ft of 1/2 in winch line. |
| One (1) | 5,000 lbs. hydraulic winch (boom pole) |

1.1.7	DEADLINE ANCHOR
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- | | |
|------------------|--|
| Material: | |
| One (1) | Type "D" deadline anchor, 50,000#, for 1-1/8 in. wireline, deck mounted. For compression-type hydraulic weight indicator load cell (customer to furnish weight indicator and load cell). |

1.2.	ENGINES Material:
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- | | |
|---------|---|
| Two (2) | Detroit Diesel Series 60 diesel engines, 14.0L, with intermittent rating of 550 BHP @ 2,100 RPM each. |
|---------|---|

The Detroit Diesel Series 60 is a six-cylinder, turbocharged, and air-to-air aftercooled engine. This fully integrated heavy-duty diesel engine with electronic controls has excellent fuel consumption, durability, and low emissions. The engine comes complete with:

- | | |
|--|-------------------------|
| • Alternator (12V | • Muffler |
| • Rigsaver | • Spark Arrestor |
| • EPA Nonroad Emmission Certified | • Direct Drive, fan |
| • Air Filter | • Water filter |
| • Heavy Duty low profile Radiator | • Power Steering Pump |
| • Transmission oil cooler | • 12 V electric Starter |
| • Fly wheel adapter for Allison 5000 Series Transmission | • Air Compressor |
| | • Tachometer |

ITEM QTY.**DESCRIPTION****Specifications:**

Rated Power Output

550 BHP at 2,100 RPM Each

Engine Options:

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two (2) Detroit Diesel Series 60, 14.0 L, 550 BHP ea	Included
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) Caterpillar Engines – Model C15 ACERT, 475 BHP EA	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) Caterpillar Engines – Model C15 ACERT, 540 BHP EA	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) air fan clutch assemblies in lieu of direct drive fan (Use with Caterpillar Engines only)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) electric fan clutch assemblies in lieu of direct drive fan (use with Detroit Diesel Engines only)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) Webasto engine pre-heaters	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) circulating block heaters	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Two (2) oil pan heaters	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Steel engine hood over both engines (covering radiator, engine and transmission)	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Four (4) steel side covers	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	High ambient radiators, c/w stacked charge-air-cooler	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	24 V electric starters and alternators	

1.2.1**TRANSMISSION****Material:**

Two (2) Allison Model M5610A series straight through transmissions, complete with disconnects and controls.

The Allison Transmission Model M5610A is designed for diesel engines up to 550 net HP

ITEM QTY.	DESCRIPTION
1.2.2	PTO
	Material:
Two (2)	Chelsea power take off, transmission mounted, and pneumatically controlled.
1.2.3	COMPOUND
	Material:
One (1)	Compound Assembly designed to combine power from the (2) Diesel engines/transmissions to Power Take Off Case and Right Angle Gear Box.
1.2.4	POWER TAKE OFF CASE (DRIVE LINE)
	Material:
One (1)	Power Take Off Box to drive wheels. This unit used to split power from drawworks to rear drive axles. Drawworks straight through drive will allow full HP.
1.2.5	RIGHT ANGLE DRIVE GEARBOX
	Material:
	Right angle drive gearbox supplies power to drawworks. <i>Right Angle Gear Box Option:</i> One (1) S&S (or equivalent) heavy duty reversing box designed to be coupled to the right angle gear box complete with Fawick 16VC600 disconnect clutch, and gear drive to power the customer's rotary table. Includes shaft drive to rear of carrier (less vertical chain case and torque indicator).
1.3	DEADLINE ANCHOR
One (1)	S&S deadline anchor, 50,000#, for 1-1/8 in. wireline, deck mounted. For compression-type hydraulic weight indicator load cell (customer to furnish load cell).

ITEM QTY.**DESCRIPTION****1.4****ENGINES**

Two (2)

Detroit Diesel Series 60 diesel engines, 14.0 L, with intermittent rating of 475 BHP @ 2,100 RPM each.

Features:

The Detroit Diesel Series 60 is a six-cylinder, turbocharged, and air-to-air aftercooled engine. This fully integrated heavy-duty diesel engine with electronic controls has excellent fuel consumption, durability, and low emissions. The engine comes complete with:

- Air start motor
- Rig Saver
- EPA Nonroad Emmissions Certified
- Air Filter
- Heavy Duty Low Profile Radiator
- Transmission Oil Cooler
- Flywheel adapter for Allison 5000 series transmission
- Muffler
- Spark Arrestor
- Direct Drive, Suction Fan
- Water Filter
- Air Compressor
- Tachometer
- Control Panel

Specifications:

Rated Power Output

- 550 BHP at 2,100 RPM Each

Engine Options:

Yes	No	
	X	Two (2) Caterpillar engines – Model C 15 ACERT, 540 BHP EA.
	X	Two (2) air fan clutch assemblies in lieu of direct drive fan (Use with Caterpillar Engines only)
	X	Two (2) Webasto engine preheaters
	X	Two (2) circulating block heaters
	X	Two (2) oil pan heaters
	X	Steel engine hood over both engines (covering radiator, engine and transmission)
	X	Four (4) steel side covers
	X	High ambient radiators

ITEM QTY.	DESCRIPTION
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1.4.1	TRANSMISSION
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Two (2)	Allison Model M5610H series straight through transmissions.
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Features:

Instrumentation: One (1) pressure gauge, One (1) temperature gauge per transmission, mounted on engine gauge panel, operator's side.

1.4.2	PTO
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Two (2)	Chelsea power take off, transmission mounted, and pneumatically controlled.
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1.4.3	COMPOUND
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One (1)	S&S two-engine, chain driven compound with mechanical disconnects.
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1.4.4	RIGHT ANGLE GEARBOX
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One (1)	S&S right angle gearbox supplies power to drawworks and comes complete with reversing box to drive rotary table with Fawick 16VC600 clutch (or equivalent)
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1.5.	DRAWWORKS
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Material:

One (1)	S&S Model CE750SD new style single drum drawworks, with the following standard equipment.
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The Model CE750SD drawworks consists of a single drum, single shaft drawworks mounted on a heavy-duty framework with sheet metal covers. Auxiliary braking is achieved with an Eaton (or equivalent) WCBD-424 Assist Brake.

ITEM QTY.**DESCRIPTION**

Specifications:***Main Drum:***

Model: S&S CE750SD Drum
Size: 19-7/8 in. x 35-1/2 in.
Lebus Grooving: 1-1/8 in.
Drum Clutch: Fawick Model 37VC650 (or equivalent)
Brake Size: 44 x 11, c/w brake bands & brake linkage
Drawworks speeds: Five forward, one reverse (through engine transmission)
Drive Chain: 1-3/4 in. pitch, triple strand
Cooling: Water circulating
Auxiliary Brake: Eaton (or equivalent) Model WCBD-424 Assist Brake

1.5.1 EATON (OR EQUIVALENT) ASSIST BRAKE**Material:**

One (1) Eaton (or equivalent) Model WCBD-424 Assist Brake, water cooled, with piping to edge of driller's side of the carrier for external water source (water source & charge pump, customer supplied).

1.5.2 BRAKE WATER COOLING MANIFOLD FOR MAIN DRUM AND AUXILIARY BRAKE COOLING

One (1) Water-cooling system manifold for cooling main drum band brakes and auxiliary water brake, complete with all necessary piping to edge of unit and controls. Includes connection for outside water supply (Water source and charge pump not supplied with unit)

1.5.3 CONTROL PANEL**Material:**

One (1) S&S control panel for 17 ft. substructure floor height.

ITEM QTY.**DESCRIPTION****Controls**

- Hydraulic pump (on/off) (air)
- Push Button Gear selector, transmission (Elec)
- Emergency stop (air)
- Engine stop (air)
- Fast idle (air)
- Horn (air)
- Two (2) 12,000 lb. Winches (up/down) (air/dry)
- One (1) 5,000 lb. winch (boom pole (up/down) (air/dry)
- Slips (in/out) (air)
- Slips air regulator (air)
- Hoist (up/down) (air)
- Assist brake (air)
- Rotary table (air)

Gauges

- Main air pressure
- Hydraulic pressure
- Make up tong Cylinder pressure pressure
- Slips air pressure
- Assist Brake pressure

1.6.**CROWN SAVER**

- One (1) Automatic Crown Saver safety shutoff device to limit block travel, installed on drawworks, automatically disengages clutch and sets main drum brake when block comes too close to crown block (or required travel is reached).

1.7**AIR SYSTEMS**

- One (1) Rig air system. Air supply for normal rig operation, equipment consists of:
- Engine mounted air compressor, One (1) mounted on each engine
 - Air receiver system
 - Air dryer
 - Pneumatic plumbing, (valves, drains, lubricators, filters and gauges).

ITEM QTY.	DESCRIPTION
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1.8	HYDRAULIC SYSTEM
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One (1)	<p>Material:</p> <p>rig hydraulic system. Hydraulic system supplies power for carrier operations:</p> <ul style="list-style-type: none"> • Hydraulic winches • Power tongs circuit • Mast raising cylinders • Mast Telescoping cylinders • Carrier Leveling cylinders • Make and Brake cylinders
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Equipment consists of:

- One (1), 340 gal. hydraulic tank
- Two (2) hydraulic pumps, each mounted on the twin engines, rated at a capacity of 50 gpm each
- Hydraulic return filter, filler/breather, all related valves, pressure gauge, and hydraulic control valves
- ong Pressure Control

**Hydraulic system installed on both engines for failsafe operations.*

1.8.	DRILL LINE SPOOL RACK
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Material:

One (1)	drill line spool rack for 3,000 ft of 1-1/8 in. drill line (mechanical) mounted on rig carrier with steel storage spool (less wireline).
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1.9	One (1)	Block/Hook
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One (1)	200 T Traveling Block, 5 sheaves for 10 line string-up
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One (1)	200 T Hook
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SECTION 2

TELESCOPING MAST (NEW)

ITEM QTY	DESCRIPTION
2.1	MAST
One (1)	<p>S&S 118 ft. x 400,000 lbs. guyed telescoping mast with fixed base; hollow structural steel framing, designed and built in accordance with API 4F, using three dimensional non-linear dynamic finite element software. Maximum mast hook load capacity is 400,000 lbs. on ten (10) lines. Mast is manufactured with all HSS construction for minimum weight and maximum stability.</p>
	Features:
	<p>The mast is equipped with a ladder mounted on the off-driller's side. The safety platform, handrails, and a fall arrest post are included with the crown frame assembly. The mast is equipped with block cradle and two (2) belly lines & two (2) load lines.</p>
	<p>Two (2) 3-stage hydraulic cylinders (chrome plated) are used for raising the mast and are equipped with safety chokes to prevent freefall in the event of a complete loss of hydraulic pressure. The mast incorporates Two (2) single acting, chromed, telescoping cylinders for raising the top section.</p>
	<p>The crown platform provides safety when servicing crown sheaves. The crown block assembly comes with:</p>
	<ul style="list-style-type: none">• Four (4) 30 in. Fleet sheaves – grooved for 1 1/8 in. drill line• One (1) 42 in. Fastline sheave – grooved for 1 1/8 in. drill line• One (1) 30 in. Deadline sheave – grooved for 1 1/8 in. drill line
	<p>The crown block assembly uses all steel sheaves.</p>
	<p>The sheaves are mounted on tapered roller bearing inserts, thus bearing failure will not damage the sheave. The fittings are provided for individual greasing of bearings.</p>

ITEM QTY.	DESCRIPTION
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Specifications:

Capacity: 400,000 lbs. w/ ten (10) lines
 Height: 118 ft.
 Line String Up: Ten (10)
 Wind Load: Per API 4F

Mast Options:

Yes	No		
X		Sandline sheave in mast to accommodate double drum drawworks	Included
	X	Two (2) flag poles	
	X	Mounting bracket and piping for tong raising ram	
	X	Customer nameplate on crown basket	
	X	Hard pipe hydraulic lines for power Kelly spinner to the off-operator's side of mast (Note: Customer to specify size of supply and return lines)	
X		Line sheave under racking board for use with customer's manual tong counterweights.	Included
	X	Lightning conductor rod and cable	
X		Off-driller's side boom pole	Included
X		Standpipe 4 in. 5,000 PSI c/w gooseneck at the top and unions at top and bottom of standpipe (no valves or gauges included)	Included
X		Guylines for internal guying	Included
	X	Top Drive torque tube hanging lug	
	X	DBI Sala (or equivalent) fall arrest	
	X	DBI Sala (or equivalent) climber assist	
	X	Drilling Line, 3,000 ft. of 1-1/8 in, 6 x 19 class (Domestic)	
	X	Sand line 17,000 ft of 9/16 in x 7 FC (Domestic)	

2.1.1 RACKING BOARD

One (1) Automatic erecting racking board

Welded fingers with 5 in. spacing for 4-1/2 in drill pipe.

ITEM QTY.	DESCRIPTION
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Specifications:

Capacity for:

- 11,500 ft of 4-1/2" (or 3 1/2") drill pipe with 6-1/4 in. tool joint
- Positioned for use with Range II tubulars in doubles
- Complete with rear escape access door

2.1.2

MAKE-UP AND BREAK OUT ASSEMBLY

Features:

- Unit comes with Two (2) 4 in. x 96 in. hydraulic cylinders, sheaves, rollers, and cables
- Make and break cylinders mounted on back of mast
- Hydraulic controls for make up and breakout functions, mounted over driller's console with automatic centering at end of cylinder stroke

SECTION 3
SUBSTRUCTURE

ITEM QTY	DESCRIPTION
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3.1 One (1)

18'-6" High Parallelogram Substructures.

Maximum rotary (casing) load is 400,000 lbs. simultaneous with a setback load of 250,000 lbs. for a total of 650,000 lbs. substructure capacity.

The Substructure is raised to operating position using the traveling block/hook after the mast is raised. It parallelograms from front to back.

The substructure is composed of:

- Main Base Assembly at ground level with top and bottom stiffened plate for ground loading distribution at bottom and equipment set down area on top.
- Transverse Members extending 30'-0" Driller's to Off-Driller's sides for lateral stability.
- Drill Floor Structures including folding wing decks for walkway on D.S. and O.D.S. sides. Setback area is covered with wood for drill pipe end protection. This area is fully plated underneath the wood and supported with structural beams to support full setback load.
- Handrails all around Drill Floor with chain link in way of V-Door Ramp.
- Two (2) Stairs with Handrails for Drill Floor access/egress.
- V-Door Ramp
- All Pins, Safety Pins and Handrails for assembly.
- Four (4) part Sling Lines for raising Drill Floor
- Four (4) part Sling Lines for raising Drill Floor.

SECTION 4
MUD SYSTEM

ITEM	QTY	DESCRIPTION
4.1	Two (2)	<p>800HP triplex mud pumps, unitized with 800 HP Engines. (Refurbished)</p> <p>Fluid end complete with pistons and liners, flanged suction manifold, discharge manifold with flanged connections and discharge strainer cross.</p> <p>Includes discharge pulsation dampeners, flanged gate valves spring loaded relief valves with adjustable pressure setting up to 5000ps.</p> <p>Includes pump pressure gauge, hydraulic seat puller assembly with pump, hose and heads to fit valve seats in above pumps.</p>
4.2	One (1)	Mud Tank System composed of two (2) individual tanks with a total capacity of 900 BBLs.
4.3	Two (2)	Shale Shaker, motors, starters and wiring to be explosion proof.
4.4	Seven (7)	Mud agitators, driven by 10 HP explosion proof A.C. motors each with suitable gear box, coupling and guard. The exact number of units will depend on the final number of compartments requiring agitation (Refurbished).
4.5	One (1)	Vertical Atmospheric Degasser (NEW).
4.6	One (1)	Desander with two (2) each 12" diameter polyurethane cyclones rated at 800-1000 gpm. (NEW)
4.7	One (1)	Desilter with twelve (12) polyurethane cyclones rated at 800-1000 gpm. (NEW)
4.8	One (1) Lot	High Pressure and Low Pressure Mud Line Piping System

SECTION 5
INSTRUMENTATION (NEW)

ITEM	QTY	DESCRIPTION
5.1	One (1)	SPM Meter with Totalize Counter
5.2	One (1)	Rotary Torque Indicator
5.3	One (1)	Tong Torque Indicator
5.4	One (1)	Weight Indicator
5.5	One (1)	Pump Pressure Indicator
5.6	Seven (7)	Recorder to measure: Bit Weight Rate of Penetration Rotary Table RPM Rotary Table Torque Pump SPM Pump Pressure Pump Return Flow

SECTION 6

INDEPENDENT ENGINE/GENERATOR SET AND COMPRESSOR (NEW)

ITEM	QTY	DESCRIPTION
6.1	Two (2)	Caterpillar D3412 diesel engines, 475 HP (Refurbished)
6.2	Two (2)	Air compressor rated at 125 psig powered by 40 HP, 3 phase, 60 HZ electric motor unitized and mounted on steel skid base. (NEW)
6.3	One (1)	Air Dryer (NEW)
6.4	One (1)	Cold Start Engine (NEW)
6.5	One (1)	200 Gal. Air Receivers, 125 psi complete with relief valve pressure gage and automatic water ejector tap (NEW)
6.6	One (1)	Utility building to house above equipment (NEW)

SECTION 7

BOP EQUIPMENT

ITEM	QTY	DESCRIPTION
7.1	One (1)	11" x 5000 psi Shaffer (or Equal) Annular BOP (Refurbished)
7.2	One (1)	11" x 5000 psi Shaffer (or Equal) Double BOP (Refurbished)
7.3	One (1)	11" x 5000 psi Drilling Spool (NEW)
7.4	One (1)	Control System, (4) Stations, (8) Bottles with Electric Triplex Pump powered by (1) 20 HP Electric Explosion Proof Motor and (1) Air Pump Rated at 9 gallons per minute. (NEW)
7.5	One (1)	5000 psi Choke and Kill Manifold with (5) 2 -1/16" x 5000# and two (2) 3 1/16" Manual Valves, (2) Adjustable Chokes, (1) Buffer Tank, all mounted on (1) Skid with Atmospheric Separator. (NEW)

SECTION 8
DRILL STRINGS TUBULARS

ITEM	QTY	DESCRIPTION
8.1	8,000 FT.	3 ½" Drill Pipe, Class 1, Grade E Nominal Weight 13.3 (NEW)
8.2	600 FT.	6" D.C, 2 13/16 O.D., 144 KG/M 6 3/8" T.J. 4 ½" IF Thread Type (NEW)

SECTION 9
PIPE HANDLING TOOLS

ITEM QTY	DESCRIPTION
9.1	3 ½" D.P. Elevator Web Wilson center latch elevator rated capacity 150 tons with safety latch.
9.2	Links 2 ¼" 108" Web Wilson links rated capacity 250 tons.
9.3	D.P. Slips Slips for 3 ½" O.D. Drill pipe type Varco
9.4	Casing Elevators Web Wilson side door elevators, rated capacity 200 tons with safety latch for sizes 13 3/8, 9 5/8, 7" O.D.
9.5	Tubing Elevators Web Wilson center latch, rated capacity 100 tons, bored for 2 7/8" O.D. tubing.
9.6	Casing Slips Varco type multi-segment casing slips for 13 3/8", 8 5/8", 7" casing
9.7	Drill Collar Slips Varco type multi-segment D.C. slips
9.8	Safety Clamps
9.9	D.C. Elevators Web Wilson Type side door elevator complete with safety latch
9.10	Rotary Tongs Web Wilson type, extra heavy duty rotary and casing tongs with standard lever and hanger assembly less lug jaws. 3 ½"-4 ½" 4"-5 ¼" 5"-7 ¼" 6 7/8"-8 5/8" 9"-10 ¾" 13 3/8" -14 3/8"

SECTION 10

MISCELLANEOUS

ITEM	QTY	DESCRIPTION
10.1	One (1)	200 T Block/Hook Combination Grooved for 1 $\frac{1}{8}$ " Wireline (REFURBISHED)
10.2	One (1)	200 T Swivel (REFURBISHED)
10.3	One (1)	5 $\frac{1}{4}$ " Hex Kelly with Drive Bushings (NEW)
10.4	One (1)	Hydraulic Kelly Spinner (NEW)
10.5	One (1)	9000 Gallons Fuel Tank (NEW)
10.6	One (1)	200 BBL Water Tank (NEW)
10.7	One (1)	45 Ft. Catwalk (NEW)
10.8	One (1)	4 Ft. Wide V-Door Ramp (NEW)
10.9	One (1)	Deadline Anchor (See Section 1.3.1)
10.10	One (1)	Oilwell 27 $\frac{1}{2}$ " Rotary Table (Refurbished)

NOTE: BHL will make revisions to this specification if required by Client and adjust pricing accordingly.