



NEW 1000 HP Carrier Mounted Drilling Rig – USA Made

Rig Inventory: Drills to 10,000 feet with 3-1/2" drill pipe  
self-propelled Series 6- Axle Back In Carrier 8x12 drive

1. Two (2) CAT C15 540 H.P. Diesel Engines, Equipped with High Ambient Temperature Radiators, Alternator, Starter, Air Cleaner, Air Compressor, Power Steering Pump, Air Intake Emergency Shut Down System, All Gauges and Filters, 12 Volt Electrical
2. Two (2) 5860 ALLISON Transmissions, Auto Transmission, Hydraulic Torque Converter, Planetary Gear Train, Hydraulic Control System, Filters, Gauges, EXTRA COOLING CAPACITY
3. Chassis: High Tensile Alloy 24" Wide Flanged Beam, Fabricated With Welded Cross Members, Complete With Bumpers, Tow Hooks,
4. Three 30,000# Front Steering Axles, Spring Suspension, Hub Piloted Wheels, 1 driven axle
5. 46,000# Rear Axles, Tires, Inter Axle Locks, All Rear Axle Include Parking and Emergency Brake System, Push Axle 25,000#
6. Single Man Cab with Adjustable Bucket Seat, Safety Belt, Air Horn, Roll-Up Windows, Standard Instrument and Control Panel Packages. Includes Tachometer, Engine Oil Pressure, Engine Water Temperature, Volt Meter, Air System Gauge, Warning Lights, Flashers
7. Rig Equipped with Checker Plate Decking, four Hydraulic Leveling Jacks, , Located Two Belly Two Rear, (2) 100 Gallon Fuel Tank (for roading ), Engine Covers, Drive Shaft Covers.
8. Drawworks
  - a. Main Drum 42X12 water cooled  
Drum Size: 18" x 43"  
Line Size: W/ Lebus Grooving 1 1/8"  
Drum Clutch: 324 clutch (outboard)

Brakes Size: 42" x 12" Brake Rim  
Input Drive Chain: 140 Triple Strand  
Auxiliary Brake: Disc Assist water circulating  
Drill Line: 1 1/8" x 3000'  
a. Sand Drum 42X8  
Drum Size: 16' x 43"  
Line Size: 9/16"  
Drum Clutch: 224 clutch (outboard)  
Brakes Size: 42" x 8" Brake Rim  
Input Drive Chain: 140 Triple Strand  
i. Main Drum Brake Lever @ sub level

9. Movable Drillers Station, Control Panel Includes, Pressure Gauges, Valve Controlling Power Tongs, 2 Aux Winches, Drum Clutches, Brake, Throttle, and Emergency Shut Down, Raising & Scoping Rams, Mud Pump Clutch and Throttle Valves.

10. Battery Box (Comes with Batteries) Rubber Lined and lockable for security

11. Four Load Line Anchors

12. Walk Way 24" Wide With Safety Rails and Stairs.

13. Derrick Support Rest

14. Hydraulic System Unit With Capacity To Operate Leveling Jacks, Utility Winches, Power Tongs, Raising and Scoping Rams, Hydraulic Tank With Filters

15. Air System Supplied By Engine 24 CFM Air Compressor, Air Dryer System, Filters, Air Tank

16. Crown Saver

17. Weight Indicator Mount with Weight Indicator

18. Two Rotzler 10,000# Winch, Safety Shield, Mounted On Rig Floor

19. Hydraulic Catheads x2

Model 117-350 Derrick

a. 117' 350,000# Derrick

(2)- Hydraulic Raising Rams,(2) Hydraulic Scoping Rams, Ladder To Crown, Racking Board Raises and Lowers Automatically, Mounts 55' Feet Above Ground Level, 4" x 5000 P.S.I., Stand Pipe With Gooseneck Mounted Off Driller Side, (1)-4" and (1)-2" 5000

(5) 1 1/8" x 30" Drilling Sheaves

(1) 1 1/8" x 36" Fast Line Sheave

(1) 9/16 x 24" Sand Line Sheave

b. (2) 1/2" x 6" Cat Line Sheaves

Crown with Safety Handrails

c. Block Cradle, Steel Plate To Secure Block During Mobilization

d. Guy Wires (4) Crown To Ground (2) Tubing Board

e. Paint, Sand Blast, Primer

New Substructure

1. Maximum Height of 18' (5.5m), Sufficient To Accommodate B.O.P, Requirements, With Set Back of 350,000# Capacity.

1. Rotary drive, Elevated torque tube

2. Rat Hole opening

3. Mouse Hole Opening

4. Mud Line (2) 4" (1) 2" Gate Valves

5. B.O.P Handling System Capacity

6.Derrick Mans Safety Climbing Device

7. Derrick mans Emergency Escape

#### A1 TRAVELING BLOCK

190 TON( 5) SHEAVE

SPECIFICATION:

Working load capacity 190tons

Number of sheaves 5

Sheave groove 1-1/8"

Sheave diameter 36"

Length 134"

Width 38"

Weight 10,500 lbs

#### A2 190 TON SWIVEL

Max static hook load: 190 tons

Rated work load: 140 tons

Max working pressure: 5000psi

I.D. of stem: 3"

Coupling to stem: 4.5" reg LH

Coupling thread to kelly: 6.625" reg LH

Dimensions: (LxWxD): 92"x31"x26"

weight (approx): 4,520 lbs

#### A4 ROTARY TABLE 27 1/2"

One (1) rotary table, with 54" center to center distance.

27 1/2" full opening

54" distance from center of the table to center of the sprocket

#### A5 MASTER BUSHING

1) pin drive type bushing for 27.5" rotary table

#### A6 MANUAL TONGS

manual tongs Complete with:

~ Lug Jaw 3-5" X 5"

~ Lug Jaw 5" X 6-3/4"

~ Lug Jaw 6-5/8" X 9"

Rated at 55,000 lbs/ft

#### A7 ELEVATOR LINKS

120" long elevator links, 2 1/4" OD, capacity 250 ton

#### A8 HEX KELLY & KELLY BUSHING

One 3 1/2 hex", 37 ' working length. 3 1/2" I.F. LH Box Top X 3-1/2" I.F. Pin bottom, 10,000 PSI working pressure.

#### A9 TWO UPPER KELLY VALVES

10,000 PSI WP upper Kelly valve. 3 1/2" I.F., LH thread

#### A10 TWO LOWER KELLY VALVES

10,000 PSI WP lower Kelly valve. 3 1/2" I.F. x-hole, RH thread

#### A11 STANDPIPE

One 3 inch standpipe 5000 PSI WP, mounted on off-operator side with Manifold ( one 3" gate 2" gate) with quick disconnects. (all 1602 unions) all welded connections are 100% full weld inspection on the standpipe.

#### A12 TWO KELLY SAVER SUBS

3 1/2" I.F. with rubber 24" length Includes thread protector

#### A13 CABLE TRAYS

One set of 3' W x 3" H x 20' L cable trays to lay air, fuel, water, BOP and electrical lines

#### A14 PIPE SPINNER & KELLY SPINNER

Hydraulic pipe spinner (1)

Pneumatic Kelly spinner-3' or less

Hydraulic power tongs (1) " Foster Make" 54-93 Closed Mouth

#### A15 ELEVATORS CENTER LATCH

Type MGG (or equivalent) , 250ton, 3 1/2"

#### A16 DRILL COLLARS SLIPS : TYPE DCSL 5-1/2" TO 8 ' DC

One (1) of 5-1/2" - 7" and One (1) of 6-3/4" - 8-1/4" and One (1) 3 1/8" - 4 1/2"

One set of Cavins Air Slips Type Model CHD with (2 3/8", 2 7/8", 3 1/2")

#### A17 TYPE "C" SINGLE SCREW SAFETY CLAMPS

(1) 5-1/2"- 6-5/8" (1) 3-1/8" - 4-3/4"

(1) 7-1/2" -8-5/8"

## B1 INSTRUMENTATION

All gauges scale to read in U S system. All gauges to be certified according to U S standards.

Instrumentation to monitor and control the following parameters:

- 1) Load on hook (0-400,000#)
- 2) Mud pump manifold pressure (0-6000 PSI)
- 3) Rotary torque (0-500)
- 4) Rotary RPM (0-200)

## B2 DRILLERS CONSOLE

Qty and Description - One (1) Driller's Console

### DRILLERS CONSOLE-

Includes following instrumentation:

- ~ Weight indicator.
- ~ Mud Pump pressure indicator
- ~ Mud Pump SPM meter receives signal from sensor for indicating mud pump SPM
- ~ Rotary Torque indicator
- ~ Rotary RPM meter, magnetic (0-200 rpm)
- ~Emergency Air Kills for all engines

## B3 WEIGHT INDICATOR

Qty and Description - One Clipper Type (1):WEIGHT INDICATOR

## B4 ROTARY TORQUE HYDRAULIC SYSTEM

Qty and Description - One (1): - ROTARY TORQUE hydraulic system

### FEATURES:

For indicating rotary torque. Rotary torque hydraulic system includes tension roller assembly, mounted under rotary drive chain. Chain load develops pressure on the cylinder, which transmits the signal for rotary torque indicating.

## C1 KELLY HOSE

### FEATURES:

3" ID, 40 foot length, working pressure - 5000 psi Assembly with 1602 hammer unions.

## D1 TWO TANK MUD SYSTEM

v- bottom mud tanks, on 3- runner skids with the following new equipment:

- (4) 5X6 CENTRIFIGAL PUMPS
- (5) 7-1/2" MUD AGITATORS
- (1) 3 CONE DESANDER
- (1) 10 CONE DESILTER
- (1) 2 tier DUAL TANDEM SHALE SHAKER
- (1) high pressure mud line for jets

10" piping for equalization.

#### D2 500 BBL WATER TANK (REFURBISHED )

One (1) - refurbished water tank with the following equipment: mounted on 45ft skid, with 5ft porch in front for the two pumps.

Two - 2" x 3" cent. Pumps with 20hp electric motors.

#### D3 JUNK BASKET (REFURBISHED) & CLOSING UNIT SKID

One- Junk basket is a three beam runner skid, 8ft x 45ft long, housing the closing unit on one end, piping down the side to allow the closing unit to connect to the BOP at the well head.

One- dog house(NEW) to be transported on top of the junk basket. The dog house, will set to the side for the sub floor, and have windows on each side for viewing of the full length of the floor. w/bop remote in house.

four- lockers, one- knowledge box and bench

#### D4 100bbl FUEL TANK

one (1) 4200 gal tank- refurb 8'W x 32ft long fuel tank with: tank dims are 8w x 10ft long for 100bbl.

Two (2)- 1HP electric fuel pumps

#### D5 CREW HOUSE & TRIP TANK

New 100bbl. (Trip tank) -Pre mix, w/ one set of steps

Covered in bar grating and safety rails

Oil and grease lube station with roof, auxiliary 7.5 hp air compressor with 200 gal tank. All of these are piped into the suitcase piping for the rig use of main air. On the other end of the 45' x 10' skid is a crew change house and tool room.

#### D6 MUD PUMP

New 1000hp Mud Pump with the below mentioned:  
Strainer Block, Pulsation Dampener, Suction Manifold, and Discharge Manifold  
Detroit, 12V 2000 on this package.

The packages will include the following:

New oilfield type master skid including motor mounts

New Single Belt or Chain Drive Assemblies

New Pinion Driven 5x6x12 Charge Pump

New Pinion Driven 1-1/2" x 2" liner wash pump assembly

New 3" 5,000 psi reset relief valve

New 3" 5,000 psi mud pressure gauge

New vertical Air Volume Tank complete with pressure gauge and safety relief valve

New Diesel Day Tank

New water piping from radiator to engine

All required piping, hosing and labor to complete unitization

#### E1 DIESEL GENERATOR SET WITH REFURBISHED HOUSE

Qty and Description: two 500 KW gen-sets (NEW)

Generator set with Cat engines

FEATURES:

DIESELS ENGINE STANDARD FEATURES

Cat engine w/radiator assembly with electronic controls

140 degree ambient temperature cooling system

Emergency Air kill switch

Air Start generator with alternator to charge batteries for computers.

Dry air cleaner, with cyclonic, and dust collectors

Air shut down system.

Exhaust manifold with flange; exhaust to have spark arrestors

INSTRUMENTATION AND CONTROL PANEL (auto start/off)

includes AC voltmeter and Amp-meter and selector switch.

Frequency meter.

Engine pressure gauges and DC Amp-meter

Automatic shut down at high water temp., low oil pressure, and over speed.

Qty and description:

One: combined instrumentation/generator house.



## FEATURES:

Based on oilfield three runner type skid, house to be 40'long x 10'-6" wide x 8'-6" high. Designed for installing (2) generator sets, generators control panel, engines control center, instrumentation, 30 hp Gardner Denver air compressor, 120 CFM at 125 PSI w/200 gallon volume pot for starting engines and piped into system. Oil drainage extension over skid edge

### E2 MCC HOUSE {refurbished}

one motor control module mcc-6000 Breaker system 60hz Guard to be NEMA type 1 only with front access.

module includes the following starters:

Six motor starts size 3 for:

one for 50 hp desander centrifugal pump

one for 50 hp mud agitator centrifugal pump

one for 50hp degasser centrifugal pump

two spare 50 hp

two mud mix, 50hp

240/480 V distribution panel breakers includes:

A. two 3-pole breakers for 1.5 hp linear motion shaker.

B. two 100 amp 3-pole spare breaker

C. two 60 amp 3-pole spare breaker

D. two 30 amp 3-pole spare breaker

E. nine 15 amp 1-pole lighting spare breaker

F. one 3-pole breaker for two 10hp water pump

G. one 3-pole breaker for 3hp fuel pump.

H. one 3-pole breaker for one 10hp brake water cooling pump

I. one breaker for booster/charger.

J. one connection panel with receptacles, protection guard and plugs for all above starters and breakers, with cables to utility house. Receptacles to have vapor protection plugs.

K. step down transformer for lighting.

### E3 LIGHTING SYSTEM

(MAST, RACKING BOARD, AND CROWN BLOCK)

mast, racking board and crown block lighting system includes cables, clamps and all necessary wires and fittings for installation of the following:

A. 5 lighting fixtures- MAST

B. 1 lighting fixture- RACKING BOARD

C. 1 lighting fixture with red spherical glass- CROWN BLOCK

#### E4 (RIG FLOOR AND SUBSTRUCTURE LIGHTING)

Explosion proof rig floor and substructure lighting includes explosion receptacles and plugs, cable, clamps and all necessary wires and fittings for installation of the following:

- A. 4 lighting fixtures.
- B. 2 support stands for floor fixtures.
- C. 2 lighting fixtures.

#### E5 (MUD TANK LIGHTING)

Mud tank lighting includes cable, clamps and all necessary wires and fittings for installation of the following:

- A. lighting fixtures as required (4 per tank)

#### E6 (COMBINED HOUSE LIGHTING)

Combined house lighting includes cable, clamps and all necessary wires and fittings for installation the following:

- A. 4 lighting fixtures

#### E7 TRAINING AND COMMISSIONNING

Manufacturer to arrange training at no charge for the customer at plant.  
(Customer to pay for transportation and accommodations.)

Manufacturers rig Technician provided by Sales Staff for up to 7 days at customer's location; customer to pay for air fare and expenses and daily rate of manufacturers Rig Technician.

#### E8 DOCUMENTATION

##### OPERATION AND SERVICE MANUALS

Operation and service manuals - ONE (1) set

##### FEATURES:

- A. Rig service manual
- B. Rig parts book
- C. Engine parts book
- D. Chassis service and parts book
- E. Electric, huyraulic, and air systems service and parts book
- F. Electric, hydraulic, and air systems schematics.
- G. Rig Main equipment service and parts book

### F1 Closing Unit --- 5-station with remote 150F

Equipment includes:

- (10) new 11 gallon accumulators
- (2) new 60:1 pneumatic pumps
- (1) new triplex pump with 1-1/4" plungers
- (1) new 15hp motor
- (1) new starter control
- (1) new barksdale elec/hyd press control switch
- (2) new 1500 psi pressure regulators
- (5) new 1" barksdale selector valves
- (1) new 1" barksdale bypass valve (hi/lo pressure)
- (6) new 3x4 air cylinders (selector valves)
- (3) new 4-1/2" glycerin filled press gauges (1)3000psi, (2)6000psi
- (1) new pneumatic/hyd pressure switch
- (3) new directional check valve (1) 1" and (2) 1/2"
- (2) new 3500psi pressure relief valve
- (1) 16-functional fixed plate
- (3) new 1" 3000 psi ball valves
- (1) new moisture separator and oiler (air inlet)
- (1) remote and 65' umbilical

### F2 Manifold, Choke lines, and Kill lines:

Manifold contains:

- (7) 2"-5M Gate valves
- (2) 4"-5M Gate valves
- (2) 2"-5M Manual adjustable choke
- (1) 5 way cross studded 4" x 2"
- (2) spacer spools flanged
- (72) 7/8" x 6-1/4" B7 studs with nuts
- (5) flanges (weld)
- (2) 2"-5M mud gauge line pipe-OTECO or equal
- (1) threaded flanged 2"-5M
- (18) ring gaskets
- (16) 1-1/4" x 8-1/2" studs with nuts

### F3 INSIDE BOP, 3-1/2" X-HOLE

Safety Valve 2-7/8" and 3-1/3" (1) each EUE.

11-1/16" x 5M Type 82 hydraulic double cavity

11-1/16" x 5M type 90 annular

Rams included (new); Set for the 11-1/16" BOP's  
Blind, 2-3/8", 2-7/8", 3-1/2", 4-1/2", 5", 7", 9--5/8"  
Also included are BOP studs, bolts and flanges.

#### F4 SPOOLER

Hydraulic operated

Hydraulic pump.

Reel rotated on shaft driven by hydraulic motor.

Remote hydraulic control for spooling forward and reverse with variable speed.

Allows you to free wheel the spool of cable.