

BACKYARD EQUIPMENT PACKAGE

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SPECIFICATIONS

SECTION 1 - SUBSTRUCTURE & ACCESSORIES

1.1 TELESCOPING SUBSTRUCTURE API 4F 4th EDITION

- *Rotary capacity* *425,000 lbs*
- *Setback capacity* *300,000 lbs*
- *Height* *16'*
- *Certified plaque engraved with A.P.I monogram 4F 4th Edition, PSL 1, E2/U2*
- *Four hydraulic rams to raise and lower sub structure*
- *Two hydraulic rams to raise and lower side floor wings*
- *Hydraulic controls six valve bank with flow divider*
- *Install two snub posts in between main hole and mouse hole*
- *Install BOP handling system for 11" x 5000 PSI stack*

1.2 ROTARY TABLE

- *Supply and install one 17 1/2" Hecker or American Block rotary table*
- *Rotary Table c/w split Master bushing and insert bowl.*
- *Supply and install rotary torque system*

1.3 CHAIN CASE FOR ROTARY

- *Supply and install drop down chain case from rotary*

1.4 ELECTRICAL

- *Supply and install (three) four foot explosion proof fluorescent lights in cellar area*

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1.5 T SILL

- *Fabricate and supply 40' t sill with all lugs to support the free standing mast*

1.6 RAMP

- *Fabricate and supply ramp with 4" welded pump line running down the side*

1.7 PAINT

- *Substructure has been painted gray*

SECTION 2 – CATWALK / V-DOOR

2.1 CATWALK /V-DOOR

- *Supply 45 ft. catwalk with fold up v-door with pipe cut out*

SECTION 3 – OVERHEAD EQUIPMENT

3.1 BLOCK / HOOK

- **Supply 160 TON TSM BLOCK / HOOK COMBINATION**
- **Four each 30" sheaves for 1" drill line**

3.2 SWIVEL

- **Supply 150 TON TSM Rotary Swivel**
- **Swivel c/w Kelly spinner stand**
- **Quill sub 4 ½" Reg. left hand thread – 6 5/8" Reg. Left**

SECTION 4 - MUD PUMP

4.1 DIESEL ENGINE

- **Supply (1) one Caterpillar C-15 series engines rated at 540 HP**

4.2 PUMP DRIVE

- **Supply and install one Allison OFS 4700 Transmission**

4.3 PUMP #1

- **Supply one new Gardner Denver PZ-7 mud pump**

4.4 MUD PUMPS SKID & ACCESSORIES

- **Total building dimensions to be 37' long 12' wide**
- **Supply one oilfield skid 40' X 12' using 4 beam 12"@50 lb**
- **Install ¾"X 7" strapping on bottom of skid runners**
- **Cross members 10" @ 33 LB flooring to be 3/16" checker plate**
- **Supply and install pump with 4" valve, 2" pop valve, 2" bleeder valve and type D mud gauge**
- **Supply one precharge pumps 60 hp 6 X 5 X 11 with suction screens**
- **Fabricate all precharge and suction lines from mud tank**
- **Fabricate all high pressure lines on skids. Pressure test chart and x-ray done on all high pressure lines**
- **Supply 5000 PSI shock hose in between pump and ramp with integral ends**
- **Supply one liner wash pump and liner wash tank with plumbing**
- **Supply one K20 dampener and cross**
- **Supply and install one diesel day tank with hosing for circulating system**

4.5 ELECTRICAL

- **Supply and install (4) four foot fluorescents in each building**

- *Supply and install one distribution panel*

4.6 PAINT

- *Mud Pump skid has been painted avocado green*

SECTION 5 - MUD TANK

5.1 MUD TANK SPECIFICATIONS

- *Total tank dimensions to be 50' long 12' wide*
- *One oilfield skids 53' X 7'10" using three beam 12" @ 50 lb.*
- *Cross members 10" @ 33 lb with 1/4" formed plate flooring*
- *Walls on tank corrugated 1/4" plate tank perimeter tbg frame*
- *Fabricate 11 gauge building over top of mixing hopper and pumps*
- *Fabricate and install hopper door access on side of mix building*
- *Supply and install exhaust fan*
- *Fabricate and install two doors on front of mud mix building*
- *All unions for piping on tanks will be hammer style*
- *All suction lines will have bridge gate valves and be sumped*
- *Supply and install 30" poor boy degasser*
- *Suction lines inside tank 10" for pump and 6" for mixing*
- *One 4" mud roll line with 2" mud guns*
- *One 6" hopper lines with butterfly fly valves*
- *One discharge manifold for both pumps*

5.2 TANK CAPACITIES

- *Pill tank 30 bbls.*
- *Suction tank 120 bbls.*
- *Settling tank 105 bbls.*
- *Settling tank 110 bbls*
- *Shaker tank 100 bbls.*
- *Sand trap 10 bbls*
- *Trip tank 25 bbls.*

5.3 EQUIPMENT

- *One DFTS mud conditioner*
- *Mud cleaner consist of 16 cone Desilter and 2 cone Desander*
- *Three MA – 10 hp 380 volt RG mud agitators*
- *Supply and install five jet guns*
- *Supply and install single hopper mixing system*
- *One 8" X 6" X 14" 60 HP 460 volt overhead motor driven by belts for Mixing pump*

- *Two 6" x 5" x 11" 50 HP 380 volt overhead motor driven by belts (Desilter & Desander pumps)*
- *One explosion proof 10 HP trip tank pump*

5.4 ELECTRICAL

- *Supply and install four fluorescent lighting on telescoping posts*
- *Supply and install all electrical hard wiring and jumper cords*
- *Supply and install distribution panel at mixing end of tank*
- *Supply remote switch for trip tank pump to driller's panel*

5.5 PAINT

- *Mud Tank skid has been painted avocado green*

SECTION 6 - GENERATORS / COMBINATION BUILDING

6.1 DIESEL ENGINE

- *Supply Two Caterpillar C-15 engine rated at 540 HP*

6.2 GENERATORS

- *Supply Caterpillar generator prime power is (50Hz) 355 kW*

6.3 ELECTRICAL

- *Supply one transfer switch 600 amps*
- *Supply one 380 Volt panels with pin and sleeve plugs*
- *Supply one 380/222 panel with pin and sleeve plugs with 100 amp outlet for lease accommodation shacks First Choice for Rigs & Equipment*
- *Supply and install plug box on building for cord ends*
- *Supply spare starters and plug in for 60 HP and 30 HP*
- *Supply and install four foot fluorescents inside building*
- *Supply and install two sodium vapour lights on roof*
- *Supply all extension cords from gen building to outside support buildings*

6.4 BUILDING

- *Fabricate triple beam skid 48' long x 16'-6" wide from 12" beam*
- *Install 6" roll ends and cover entire skid with 3/16" checker plate*
- *Shear, form and stand building 45' long x 12'-6" wide x 8'6" high*
- *Install tubing roof perimeter and sloped roof panels*
- *Install (3) divider walls inside building for (3) separate rooms*
- *Supply and install steel doors/frames into each room*
- *Fabricate 2 ft. wide cable tray on top of combination building*
- *Install 6x4 bumper posts on both ends of skid*

6.5 LIGHTPLANT ROOM

- *Lightplant room is 12' wide x 20' long*
- *Supply and install (2) two Caterpillar C-15 – 355 kW, 380V, 3 phase diesel generators*
- *Fabricate and install 140 gallon fuel tank in corner of room*
- *Supply and install Sullivan Palatek 30 hp rotary screw air compressor with 120 gallon tank*
- *Install hinged door on side of building for electrical cabling access.*

6.6 ACCUMULATOR ROOM

- *Accumulator room is 12' 6" long x 12' wide and 8' 6"*
- *Supply and install 4 station 120 gallon Control Technology Accumulator*
- *10 each 11 gallon accumulator bottles*
- *One T-25 Weatherford triplex charge pump*
- *Two 8 ½", 40:1 air pumps*

6.7 PAINT

- *Combination building has been painted gray*

SECTION 7 - WELL CONTROL

7.1 CHOKE MANIFOLD

- *Oilfield skid dimensions to be 10' long 6' wide.*
- *Supply one single gut 2" X 3" choke manifold c/w manual choke*

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7.2 BLOWOUT PREVENTORS

- *Supply one 11" 5000 PSI new Cameron Townsend T-84 double ram preventer with one set 3 ½" rams and one set of blind rams*

7.3 ANNULAR

- *Supply one 11" 3000 PSI new Cameron (Townsend) T-90 Annular*

7.4 BOP ACCESSORIES

- *Supply one 3 1/8" SS flanged 30' 5000 PSI choke hose*
- *Supply one adapter spool 11" x 5,000 psi – 11" x 3,000 psi*
- *Supply one 11" 5000 PSI drilling spool with 3 1/8" outlets*
- *Supply one 3 1/8" 5000 PSI HCR gate valve (hydraulic)*
- *Supply and install 3 1/8" 5000 PSI manual gate valve*
- *Supply two 2 1/16" 5000 PSI manual gate valve*
- *Supply one 2 1/16" 5000 PSI check valve*

- *Supply one DSA 2 1/16" X 3 1/8"*
- *Supply all studs and ring gaskets*

SECTION 8 – CASING STABBING BOARD

8.1 CASING STABBING BOARD

- *Air operated casing stabbing board.*

SECTION 9 - WATER / FUEL /CHANGE HOUSE SKID

9.1 WATER TANK

- *Supply 100 barrel skid mounted water tank*
- *Supply and install two 4 x 3 Centrifugal transfer pumps*
- *Supply and install discharge and suction manifolds*
- *Tank will be built from ¼" plate*
- *Tank access hatch and drain plug*

9.2 FUEL TANK

- *Supply skid mounted fuel tank 100 barrels*
- *Supply and install two 3/4 hp 110v fuel pumps 1 ¼" X 1"*
- *Supply and install discharge and suction manifolds*
- *Supply one fuel water and solids separator*
- *Tank will be built from 1/4" plate*
- *Tank access hatch, drain plug and sight glass*

9.3 CHANGE HOUSE

- *Change room is 12' wide x 12' 6" long*
- *Fabricate and install fold down lunch table*
- *Supply and install padded bench*
- *Supply and install 12 change lockers*

SECTION 10 – KELLY BAR & BUSHINGS

10.1 KELLY BAR & KELLY DRIVE BUSHINGS

- *4 ¼" Hex Kelly 37' overall c/w shipping scabbard.*
- *Square Drive Bushing for 4 ¼" Hex Kelly & 17 ½" rotary table.*