

Appendix C

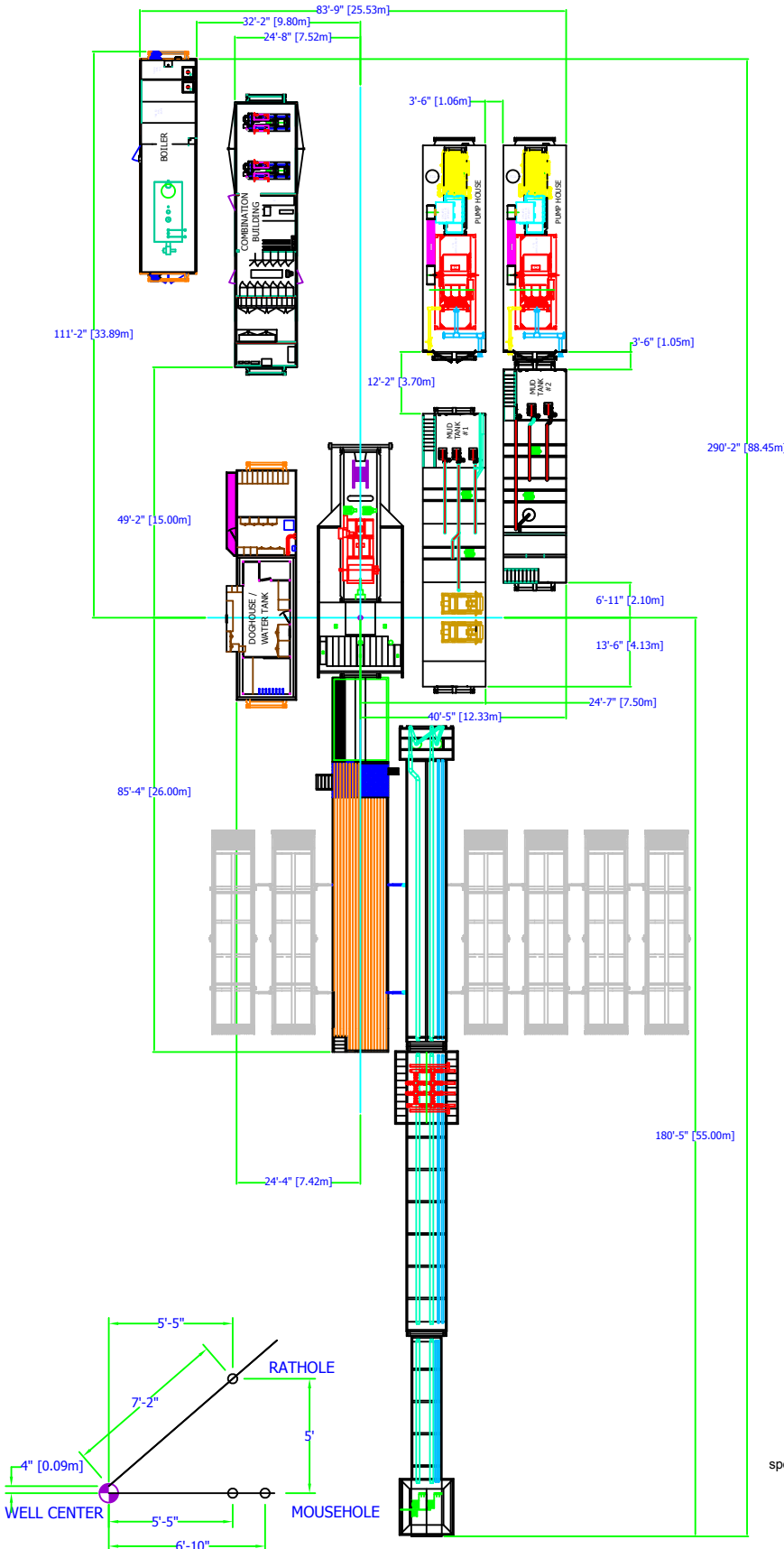
Drill Rig Specifications



STONEHAM
DRILLING INC.

#11

4,500 M
127mm DRILL PIPE
TELESCOPIC TRIPLE
(CRITICAL SOUR)



DRAWWORKS

TSM 1200
Caterpillar 3412 (860hp)
Allison S6610 (6 SPEED) Transmission

SUBSTRUCTURE

Mastco: One Piece Unitized
Maximum Setback Capacity: 177,920daN
Clear Height: 5m w/ Pony Sub (30" Height)
K.B. to Ground: 5.31m
Rotary Table: 20 1/2" Max 210 rpm
C/W 6 Hydraulic Leveling Rams

MAST

Mastco Telescopic Triple
Maximum Hook Load: 222,400daN (500,000#) -10 lines
Manufactured to Accommodate Top Drive

OVERHEAD EQUIPMENT

Crown: (x5) 42" Cluster, (1) Fastline, 1 1/2" Drill Line
Traveling Block/Hook: Pyramid w/ BJ 6350 Hook
Rated Capacity: 311,360daN
Swivel: N-69 Rated 266,880 daN(300ton)

(x2) MUD PUMPS

(x2) Gardner Denver PZ-11 (1600Hp) (Triplex)
Each powered by: 3512 Caterpillar (1500Hp @ 1800RPM)

MUD TANK #1 (W/ Hydraulic Actuated Roof)

Gross Volume 84m³ (Active 73.3m³)
(x2) Shakers: Derrick FLC 2000 (Flo Line Cleaner)
(x2) Agitators 7.5Hp
(x3) Mission Mag Centrifugal Pumps 5" x 6"
Chemical "Shearer" Mixer

MUD TANK #2 (W/ Hydraulic Actuated Roof)

Gross Volume: 74m³ (Active 68m³)
Mission Mag Centrifugal Pump 5" x 6"
Conventional Mixer
(x2) Agitators 7.5Hp

BLOWOUT PREVENTION EQUIPMENT (NACE)

Separate 20m³ Degrasser Tank
(x2) Poorboy Degassers 36"
(x2) 4" Inlets (Full 3" I.D.) (x2) 8" Outlets

B.O.P.'s (NACE)

13 1/2" x 35,000kPa Shafer Preventor
(x3) 279mm x 35,000kPa T-3 Umodel 601 i Single Gate Ram

MANIFOLD (NACE)

76mm Double Gut 35,000kPa (5000#)
(x2) API A2 Willis Chokes

FLARE TANK

Integrated 8m³ c/w Dual Stacks & Remote Igniter

ACCUMULATOR

Koomey Style: 6-Function 2-Station 21,000kPa

GEN SETS

(x2) Caterpillar 3456 w/ Marathon (440kW ea.)

MISC.

(x3 pairs) Drill Pipe Bunks
Invert Vacuum System
Kelly Spinner
Pipe Spinner
Invert Vacuum System

Hydraulic Operated Catwalk

TUBULARS

Drill Pipe: 127mm x 4 1/2" IF X-95 Range III (305 jts)
Drill Collar: 165mm x 4-1/2" XH Range III (20 jts)
Drill Collar: 203mm x 6-5/8" Reg Range III (2 jts)
HWDP: 127mm x 4-1/2" IF Range III (8 jts)



Standard inventory represents the typical rig configuration and inventory available, but specifications are subject to slight modifications from time to time due to customer requirements.

For further information on our equipment, please contact:
Sales and Marketing
Stoneham Drilling Inc.
Telephone: 403-264-7777
E-mail: sales@stonehamdrilling.ca



STONEHAM
DRILLING INC.

RIG 11 – 4500m TELESCOPIC TRIPLE

Rated Capacity: 4,500 meters with 127mm (5") Drill Pipe (CRITICAL SOUR)

CONSTRUCTION COMPLETED: November 2006

DRAWWORKS

TSM 1200 (1200Hp) c/w 2 x 36" Eaton Brake and Crown Alert Crown Saver
Powered By: Caterpillar 3412 (860Hp)
Allison S6610H (6 speed) Transmission
Rotary Table: 20 ½" Max RPM 210
Hydraulic Catline and Boom Line Winches
Hydraulic Ram Make up and Break Out

SUBSTRUCTURE

Mastco: One Piece, Unitized
Maximum Setback Capacity: 177,920daN (400,000#)
Clear Height: 4.21m without pony sub (app 5m with pony sub)
c/w 6 Hydraulic Leveling Rams

PONY SUB

Two piece 30" sub c/w Bearing Pad with BOP Trolley Integrated into the Bearing Pad and Pony Sub.

DERRICK

Mastco Telescopic Triple
Maximum Hook Load: 222,400daN (500,000#) -10 lines
Racking Capacity: 4,500m 5" Drill Pipe
Manufactured to accommodate Top Drive

OVERHEAD EQUIPMENT

Crown: (X5) 42" cluster, (x1) 50" fastline (x1) 1/4" Drill Line
Traveling Block/Hook: Pyramid w/BJ 6350 Hook Rated 311,360daN
Swivel: N-69 Rated 266,880daN (300ton)

MUD PUMPS

(x2) Gardner Denver PZ-11 (c/w 127, 140, 152, 165mm liners)
Maximum Rating 1600Hp (110spm max)
Powered By: 3512 Caterpillar (1500Hp @ 1800RPM)

MUD TANK #1

Gross Volume 84m3 (Active 73.3m3)
(x2) Shakers: Derrick FLC 2000
(x2) Agitators 7.5Hp
(x2) Mission Mag Centrifugal Pumps 5" x 6"
Mission Mag Centrifugal Pump 6" x 8" Precharge Pump
Mixer "Chemical Shearer"
Hydraulic Actuated Roof



MUD TANK #2 (c/w Invert Vacuum System)

Gross Volume: 74m³ (Active 68m³)
Mission Mag Centrifugal Pump 5" x 6"
Conventional Mixer
(x2) Agitators 7.5Hp
Hydraulic Actuated Roof

BLOWOUT PREVENTION EQUIPMENT (NACE)

Separate 20m³ Degasser Tank Mounted on Pipe Tube #1 (Hydraulically Actuated)
(x2) Poorboy Degassers 36" - 3/8" Wall
(x2) 4" inlets (full 3" I.D.) and two (2) 8" outlets

ACCUMULATOR

Koomey Style: 6-Function 2-Station 680 Liter (180 Gallon) BOP Control System Operating Press 21,000kPa
(X2) BX-10 Triplex Pumps c/w 25Hp
(x2) 340 Liter (90 US Gallon) Manifolds each with (x6) 56.6 Liter (15 US Gallon) Precharge Bottles
(x3) Nitrogen Backup: 58 Liter 15 MPA Nitrogen Cylinders (plus one spare)
Reservoir Tank: 1040 Liter (275 US Gallon)
(x5) 1" 3000# BOP Control Valves with Hydraulic Actuators and Manual Override
(x1) 1" 6000# BOP Control Valve with Hydraulic Actuator, Manual Override, Manifold Isolation and High Pressure Nitrogen Tie-in. For operation for Shear Ram (Designated Nitro-Shear)

B.O.P.s (NACE)

279mm x 35,000kPa T-3 Model 7082 (11" 5000#) Annular Preventor
(x3) 279mm x 35,000kPa T-3 Umodel 6012 Single Gate Ram Preventors

MANIFOLD (NACE)

76mm Double Gut 35,000kPa (5000#)
All valves 81mm (3 1/8") Tartan Gate Valves
(x2) 81mm (3 1/8") API A2 Choke (Willis Style)

FLARE TANK

Integrated 8m³ c/w 2 x 4" Inlet Lines, Dual Stacks and Remote Ignitor

GEN SETS

(x2) Caterpillar 3456 with Marathon 440kW (480 volt)

MISCELLANEOUS

(x7) Hydraulic Pipe Tubs
(40jts) 5" Range III Drill Pipe ea.
Kelly Spinner
Pipe Spinner
Hydraulically Operated Catwalk (c/w Remote Control)

TUBULARS

(2jts) 203mm x 6 5/8" Reg **Range III** Drill Collars
(20jts) 165mm x 4 1/2" XH **Range III** Drill Collars
(8jts) 127mm x 4 1/2" IF **Range III** HWDP
(290jts) 127mm x 4 1/2" IF TSS 95 **Range III** Drill Pipe
(1jt) 5 1/4 Square Kelly c/w HD Drive Bushings

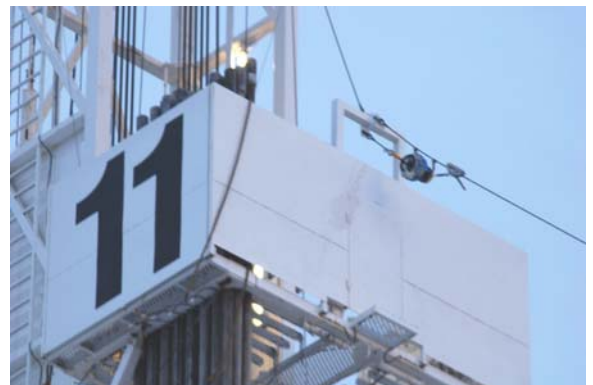


**STONEHAM DRILLING INC.
RIG 11 – TUBULAR INVENTORY**

- 1) 4000m (290jts) Range III 5" TSS 95 Drill Pipe 4 ½" FH Connection
c/w TK-34 internal coating and hardbanding
- 2) (x20) Lengths of Range III Drill Collars 6 ½" O.D. 2 ¼" I.D.
w/ slip Recess 4 ½" XH Connection Bore Back
Stress Relieved, 10" pin hardfacing and 4" box hardfacing
- 3) (x2) Lengths of Range III Drill Collars 8" O.D. 3" I.D.
Slick w slip Recess 6 5/8" Reg Connection Bore Back
Stress Relieved, 10" pin hardfacing and 4" box hardfacing
- 4) (x1) 54ft Square Kelly 51ft drive area, 6 5/8" Reg L.H. 4 ½" FH pin
- 5) (x10) Pick up Subs 4 ½" XH cut for 5" and 4 ½" 18 deg Elevators
- 6) (x2) Pick up Subs 6 5/8" Reg Cut for 5" and 4 ½" 18 deg Elevators
- 7) (x1) Bit Sub OAL 36" 8" O.D. 6 5/8" Reg Box 6R Float Cut
- 8) (x2) Bit Subs OAL 36" 6 ½" O.D. 4 ½" Reg Box X 4 ½" XH Box 4R Float Cut
- 9) (x1) X/O Bel Sub 36" OAL, 6 5/8" Reg Pin X 4 ½" XH Box
- 10) (x3) Lower Kelly Cocks (one designated stabbing valve) 4 ½" XH
- 11) (x1) Upper Kelly Cock 6 5/8" Reg L.H.
- 12) (x2) Saver Subs 4 ½" XH pin X 4 ½" XH Box
- 13) (x1) X/O Sub 4 ½" XH pin X 4 ½" FH Box

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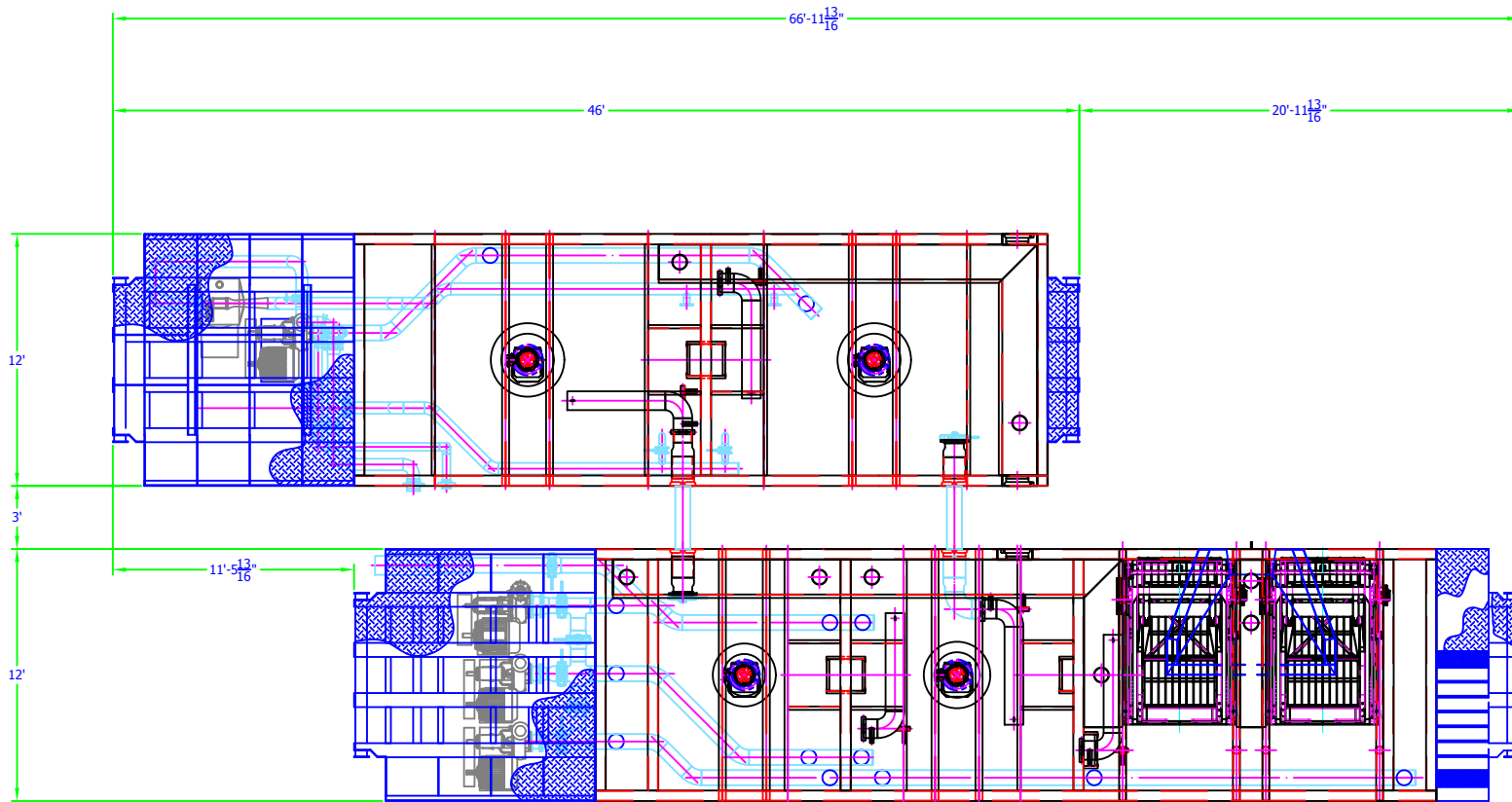


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Rigs 7, 8, 10, 11

Load List

Load #	Load Description	Weight KG (lb)	Dimensions LxWxH(M)	Dimensions Feet
1	Drawworks	35480 (78056)	14.01 x 3.81 x 2.64	46'0" x 12'6" x 8'8"
2	Mast	47830 (105226)	28.35 x 4.04 x 2.36	93'0" x 13'3" x 7'9"
3	Substructure	39780 (87516)	17.88 x 4.37 x 4.72	58'8" x 14'4" x 15'6"
4	Combination Building	40230 (88506)	16.7 x 3.73 x 3.38	55'1" x 12'3" x 11'1"
5	Mud Tank #1	40060 (88132)	17.07 x 3.76 x 3.79	56'0" x 12'4" x 12'5"
6	Mud Tank #2	23050 (50710)	13.69 x 3.76 x 3.79	44'11" x 12'4" x 12'5"
7	Mud Pump #1	55793 (124,000)	13.3 x 3.76 x 3.69	43'8" x 12'4" x 12'1"
8	Mud Pump #2	55793 (124,000)	13.3 x 3.76 x 3.69	43'8" x 12'4" x 12'1"
9	Doghouse / Water Tank	38980 (85,756)	14.1 x 3.71 x 3.92	46'3" x 12'2" x 12'10"
10	Catwalk	19110 (42042)	18.01 x 2.44 x 2.42	60'2" x 8'0" x 7'11"
11	Manifold/Flareline Skid/Flare Tank	24900 (54780)	17.03 x 3.79 x 3.05	55'10" x 12'5" x 10'0"
12	Boiler	24320 (53504)	13.74 x 3.39 x 3.09	45'1" x 11'2" x 10'2"
13	Well Site Trailer	20330 (44726)	14.63 X 3.66 X 3.23	
14	Pipe Racks (with some collars)			
15	Pipe Racks (with more collars)			
16	Degasser Tank /Pipe tub w/26D.P.	29,339 (64,681)	17.27 x 3.25 x 3.35	56'8" x 10'8" x 11'0"
17	Pipe Tub W/39 jts Rge 3 5" D.P.	23,710 (52,162)	17.27 x 2.77 x 1.07	56'8" x 9'1" x 3'6"
18	Pipe Tub W/39 jts Rge 3 5" D.P.	23,710 (52,162)	17.27 x 2.77 x 1.07	56'8" x 9'1" x 3'6"
19	Pipe Tub W/39 jts Rge 3 5" D.P.	23,710 (52,162)	17.27 x 2.77 x 1.07	56'8" x 9'1" x 3'6"
20	Pipe Tub W/39 jts Rge 3 5" D.P.	23,710 (52,162)	17.27 x 2.77 x 1.07	56'8" x 9'1" x 3'6"
21	Pipe Tub W/DP & Swing Racks	25,070 (55,154)	17.27 x 2.99 x 1.07	56'8" x 9'10" x 3'6"
22	Pipe Tub W/DP & Swing Racks	25,070 (55,154)	17.27 x 2.99 x 1.07	56'8" x 9'10" x 3'6"
23	Matting			
24	Matting			
25	Matting			
26	Matting			
27	Drill Collars and Pipe Racks			
28	Pony Sub (some matting)			
29	Bearing Pad W/B.O.P. Stack	29690 (65318)	6.98 x 2.46 x .76	22'1" x 8'1" x 2'6"
30	Storage Basket / Loader			



REVISIONS				
REV.	DATE	DESCRIPTION	DRAWN BY	
-	-	-	-	
-	-	-	-	
-	-	-	-	

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J HARRIGAN
 23/04/2009

MUD TANK SYSTEM LAYOUT			
DUAL MUD TANK SYSTEM			
SIZE	RIG #:	DWG NO.	REV
A	-	16-501-01	1
SCALE:	NONE	REF: -	SHEET 1 OF 1



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