

# Rotary Screw Air Compressor Maintenance Chart

<b>Submission ID</b>	4253862525717876917
<b>Submission Date</b>	02-07-2019 16:04:13
<b>Name</b>	Caleb Carpenter
<b>Rig #</b>	106
<b>Start Date</b>	02/07/2019
<b>Completed Date</b>	02/07/2019
<b>Oil Type</b>	Summit sh46

	OLD	NEW
<b>#1 Compressor Style</b>	✓	-
<b>#2 Compressor Style</b>	✓	-

	#1 Compressor	#2 Compressor
<b>MODEL #:</b>	50dg	50dg
<b>SERIAL #:</b>	040069	040070
<b>ASSET #:</b>	2-249	2-250
<b>HOURS #:</b>	18763	30110

	#1 Compressor	#2 Compressor
<b>Changed Oil</b>	✓	✓
<b>Changed Oil Filter</b>	✓	✓
<b>Changed Air Filter</b>	✓	✓
<b>Changed Seperator</b>	✓	✓
<b>Pull and wash cooler core</b>	-	-
<b>Added new oil sample valve</b>	-	-
<b>Check and inspect drive couplings</b>	✓	✓
<b>Drain water from tank</b>	✓	✓
<b>Open panel door and check to be secure</b>	✓	✓
<b>Check all signal lines (black plastic)</b>	✓	✓
<b>Ensure it is clean and wash with solvent</b>	✓	✓

	Asset #	Hours #
<b>Reading</b>	2-1482	4

**Cold Start Model** Kubota

**Containment**

Small


**Change Engine Oil**

Yes

No

-

**Change Engine Oil Filter**

-

**Change Air Filter**

-

**Change Fuel Filter**

-

**Took Oil Sample**

-




Date

Hours #

MARK DATE AND HOURS ON FILTER

4

**Action Items**

#2 compressor hour meter bad needs replace

#1 comp, brass nut on top of separator needs replaced

**Email the Following:**

Mike Almond

David Baker

Caleb Carpenter

Frank Smith

**Inspection Comments**

Cold start new with only 4 hours

Cooler cores clean on compressors

Replaced drive coupling #1 compressor

Compressors really clean

**Ticket Status**

Open



# Engine Inspection Form

**Rig #**

106

**Date Maintenance Started**

Tuesday, February 26, 2019

**Date Maintenance Completed**

Tuesday, February 26, 2019

**Name**

Randy Reid

**Total Hours:**

10

**Job Title**

Engine mechanic

**Additional Technicians**

Yes

**Check all that apply**

Larry Bennet

**Fuel Tank Sample**

Yes

**Action Items**

#1 fanshaft +bearing  
#2 right side air shutoff won't trip

**#1 Engine Antifreeze**

Red

**#1 Engine Freeze Point**

-30

**Aftercooler?**

Yes

**Aftercooler Antifreeze**

Red

**#1 AC- Freeze Point**

-30

**#2 Engine Antifreeze**

Red

**#2 Engine Freeze Point**

-30

**Aftercooler?**

Yes

**Aftercooler Antifreeze**

Red

**#2 AC- Freeze Point**

-30

**#3 Engine Antifreeze**

Red

**#3 Engine Freeze Point**

-35

**Aftercooler?**

Yes

**Aftercooler Antifreeze**

Red

**#3 AC- Freeze Point**

-40

Generator

**Email the following:**

Mike Almond

Frank Smith

Nathan Arnett

Caleb Carpenter

David Baker

**Work Order Status**

Opened

## Exciter Air Gap

	Top	Bottom	Left Side.	Right Side
Gen. #1	.050	.070	.070	.040
Gen. #2	.040	.050	.040	.045
Gen. #3	.040	.045	.045	.050
Gen. #4				

	#1	#2	#3	#4
Grease and inspect for wear	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Clean generator and blow out if necessary	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Check and record exciter air gap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

### Generator Asset Information

	Model Number	Gen. Asset	KW.	1 or 2 Brg.	RPM
#1 Generator	Aa27673008	24-425	1204	2	1200
#2 Generator	A2667100000	24-136	1204	2	1200
#3 Generator	Aa27098017	24-362	1204	2	1200
#4 Generator					
Top Drive					

## Generator

	Kato	MTU	Cat	GE	Marathon	Spectrum	Magnamax	Baylor
#1 Generator	<input checked="" type="checkbox"/>							
#2 Generator	<input checked="" type="checkbox"/>							
#3 Generator	<input checked="" type="checkbox"/>							
#4 Generator								
Top Drive								



## Genset Engines

	#1 Genset	#2 Genset	#3 Genset	#4 Genset
Tighten pan bolts on D-379, D-398, D-399				
Ensure D-3508 & D-3512 individual gauge panels has been silicone to prevent water entry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Clean water passages on water cooled turbo's (one time only)				
Run overhead valve train	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Grease fan hub bearings and idler bearings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Inspect and clean radiators. NOTE: Wash in opposite direction of air flow; (You should be able to see clearly through the radiators fins)				
Test shutdown system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Installed new belts				
Check & clean auxiliary oil filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Make sure crank case filters and being serviced (On 3508, 3512)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

## Belt Information

	Belt Number	Radiator Fan Bearing	Idler Bearing	Pulley Size	Shaft Size: Idler Shaft	Shaft Size: Fan Shaft
Record Information	5vx1120	2 7/16 narrow	2 3/16 blower		2 3/16×19	2 7/16×67

## #3 AC- Extended Life

Pass	Test
Fail	

### #3 Extended Life

Pass	Test
Fail	

### Belt Information

	Belt Number	Radiator Fan Bearing	Idler Bearing	Pulley Size	Shaft Size: Idler Shaft	Shaft Size: Fan Shaft
Record Information	5vx1120	2 7/16 narrow	2 3/16 blower		2 3/16×19	2 7/16×67

### #2 AC- Extended Life

Pass	Test
Fail	

### #2 Extended Life

Pass	Test
Fail	

## Belt Information

	Belt Number	Radiator Fan Bearing	Idler Bearing	Pulley Size	Shaft Size: Idler Shaft	Shaft Size: Fan Shaft
Record Information	5vx1120	2 7/16-narrow	2 3/16 blower		2 3/16×19	2 7/16×67

## #1 AC- Extended Life

Pass	Test
Fail	

## #1 Extended Life

Pass	Test
Fail	

## Genset Asset Information

	Asset #	Serial #	Hours	Manufacture	Model
#1 Engine	22-299	4aw	3058	Cat	3512b
#2 Engine	22-297	4aw	3073	Cat	3512b
#3 Engine	22-271	4aw	3024	Cat	3512b
#4 Engine					

Monday, April 1, 2019

# Pump Inspection Form

**Rig #**

106

**Date Maintenance Started**

Friday, March 29, 2019

**Date Maintenance Completed**

Friday, March 29, 2019

**Name**

Chris Calvillo

**Job Title**

Mechanic

**My E-mail**

chris.calvillo@unitcorp.com

**Check all that apply:**

Cory Calvillo

Grant Bural

Robert Lovett

**Travel Time to Rig:**

1.5

**From:**

Shop

**To:**

Home

**Total Hrs:**

13

**Action Items**

Pump #1 needs plate on bullwheel to be able to roll pump by hand

#2 7500lb dampner showing zero pressure on guage

**Time at Rig:**

10

**Travel Time from Rig:**

1.5

1

## Pump Asset Info.

	Pump #1	Pump #2	Pump #3
Asset #	38-468	38-469	
Make	Import	Import	
Model	1600	1600	

## # 1 Pump GENERAL INSPECTION CHECKLIST

	Inspect
Check all Oil Lines	<input checked="" type="checkbox"/>
Check all tied Bolts	<input checked="" type="checkbox"/>
Drain & Check Cleanouts	<input checked="" type="checkbox"/>
Check & Clean, gear end with diesel if needed	
Pony Rod Alignment	<input checked="" type="checkbox"/>
Check Pony Rods for Cracks & Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check Piston Rods for Cracks & Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check Clamps for Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check all bearings with mirror for Pitting & Flaking	<input checked="" type="checkbox"/>
Check all oil pump screen	<input checked="" type="checkbox"/>
Check pillow block bearings on independent pump	
On inspection replace pony rod seals (Regardless if the rig says they have already been changed seals still need to be checked) replace gaskets if need do not use silicone unless need to fill a void. (do not use to excess because it gets into gear end)	<input checked="" type="checkbox"/>





**# 1 Pump "Continental Emsco" Checklist**

Inspect	
Oil pressure and guage	<input checked="" type="checkbox"/>
Check pony rod wiper if equipped, if not equipped with wiper, get parts to correct.	<input checked="" type="checkbox"/>
Check to see if baffle plates are doweled in pump.	<input checked="" type="checkbox"/>

**# 1 Pump Action Items**

Needs plate to be able to roll pump by hand



## # 1 Pump Recommended Running Clearances

	Reading
Crosshead to slide - Left - Min .030 Max .045	.030
Crosshead to slide - Center - Min .030 Max .045	.027
Crosshead to slide - Right - Min .030 Max .045	.032
Main Bearing - Left - Min .005 Max .020	.012
Main Bearing - Right - Min .005 Max .020	.007
Pinion Shaft Bearing - Left - Min .002 Max .015	.010
Pinion Shaft Bearing - Right - Min .002 Max .015	.009
Crosshead Pin Bearing - Left - Min .002 Max .005	Good
Crosshead Pin Bearing - Center - Min .002 Max .005	Good
Crosshead Pin Bearing - Right - Min .002 Max .005	Good
Connecting Rod to Eccentric Bearing - Left - Min .002 Max .020	.007
Connecting Rod to Eccentric Bearing - Center - Min .002 Max .020	.008
Connecting Rod to Eccentric Bearing - Right - Min .002 Max .020	.013
Oil Pump Pinion Shaft to Main Gear, Backlash - Left - Min .010 Max .025	N/a
Pinion Shaft to Main Gear, Backlash - Right - Min .010 Max .050	.032
Bull Gear Wear - Findings	Good
Pinion Gear Wear - Findings	Good
Pinion Gear Wear - Findings	Good
Discharge Dampner Charge Pressure - PSI Reading	2000psi



## #2 Pump GENERAL INSPECTION CHECKLIST

	Inspect
Check all Oil Lines	<input checked="" type="checkbox"/>
Check all tied Bolts	<input checked="" type="checkbox"/>
Drain & Check Cleanouts	<input checked="" type="checkbox"/>
Check & Clean, gear end with diesel if needed	
Pony Rod Alignment	<input checked="" type="checkbox"/>
Check Pony Rods for Cracks & Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check Piston Rods for Cracks & Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check Clamps for Wear (Replace if necessary)	<input checked="" type="checkbox"/>
Check all bearings with mirror for Pitting & Flaking	<input checked="" type="checkbox"/>
Check all oil pump screen	<input checked="" type="checkbox"/>
Check pillow block bearings on independent pump	
On inspection replace pony rod seals (Regardless if the rig says they have already been changed seals still need to be checked) replace gaskets if need do not use silicone unless need to fill a void. (do not use to excess because it gets into gear end)	<input checked="" type="checkbox"/>



## # 2 Pump Action Items

Dampner showing zero pressure

## # 2 Pump Recommended Running Clearances

	Reading
Crosshead to slide - Left - Min .030 Max .045	.038
Crosshead to slide - Center - Min .030 Max .045	.032
Crosshead to slide - Right - Min .030 Max .045	.030
Main Bearing - Left - Min .005 Max .020	.014
Main Bearing - Right - Min .005 Max .020	.013
Pinion Shaft Bearing - Left - Min .002 Max .015	.003
Pinion Shaft Bearing - Right - Min .002 Max .015	.005
Crosshead Pin Bearing - Left - Min .002 Max .005	Good
Crosshead Pin Bearing - Center - Min .002 Max .005	Good
Crosshead Pin Bearing - Right - Min .002 Max .005	Good
Connecting Rod to Eccentric Bearing - Left - Min .002 Max .020	.005
Connecting Rod to Eccentric Bearing - Center - Min .002 Max .020	.004
Connecting Rod to Eccentric Bearing - Right - Min .002 Max .020	.009
Oil Pump Pinion Shaft to Main Gear, Backlash - Left - Min .010 Max .025	.020
Pinion Shaft to Main Gear, Backlash - Right - Min .010 Max .050	.034
Bull Gear Wear - Findings	Good
Pinion Gear Wear - Findings	Good

Pinion Gear Wear - Findings	Good
Discharge Dampner Charge Pressure - PSI Reading	0psi
Suction Dampner Charge Pressure - PSI Reading	32psi

### # 2 Pump "Continental Emsco" Checklist

Inspect	
Oil pressure and guage	<input checked="" type="checkbox"/>
Check pony rod wiper if equipped, if not equipped with wiper, get parts to correct.	<input checked="" type="checkbox"/>
Check to see if baffle plates are doweled in pump.	<input checked="" type="checkbox"/>

6







### Email the Following

Mike Almond

Frank Smith

Nathan Arnett

### Ticket Status

Open





RIG \_\_\_\_\_ 106 \_\_\_\_\_

**Rig Inspection**

NAME \_\_\_\_\_ Robert Lovett & Steve \_\_\_\_\_

JOB TITLE \_\_\_\_\_

Work Order No. \_\_\_\_\_

DATE MAINTENANCE STARTED: \_\_\_\_\_ 3/15/2019 \_\_\_\_\_ COMPLETED \_\_\_\_\_ 3/21/2019 \_\_\_\_\_

EQUIPMENT DESCRIPTION: \_\_\_\_\_ N-95 \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_ ASSET # : \_\_\_\_\_ 15-80 \_\_\_\_\_

Travel Time to Rig \_\_\_\_\_ FROM: 

<input type="checkbox"/> HOME	<input type="checkbox"/> SHOP
-------------------------------	-------------------------------

Time at Rig: \_\_\_\_\_

Time from Rig \_\_\_\_\_ FROM: 

<input type="checkbox"/> HOME	<input type="checkbox"/> SHOP
-------------------------------	-------------------------------

**ACTON ITEMS**

New slack adjusters and double clevis and pin ( **COMPLETED** ) \_\_\_\_\_

Repaired main bearing grease line D.S. ( **COMPLETED** ) \_\_\_\_\_

Repositioned arm for crown-o-matic cylinder to allow for full lockdown ( **COMPLETED** ) \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

YOU NEED TO HAVE SIGNATURE'S AND TIME FILLED OUT ON FIRST PAG

Rig: 106

Date: 3/21/2019

**Scheduled Rig Inspection Check List**

**Air Hoist:**

- Check oil in air motor.
- Check grease in gear case.
- Grease throttle valve.
- Check brake system for wear.
- Check cable for fraying.

#1 ASSET 27- N/A  
 #2 ASSET 27- N/A  
 #3 ASSET 27-

Comments:

**Blocks:**

- Check grooves for wear.
- Check smoothness of roll.
- Check for play in bearings.
- Ensure bolts are in place.
- Grease all zerks.

ASSET # 5-  
 ASSET # 67-  
COMBO

Comments:

Sent in 4 year

**Brakes:**

**Hydromatic Brakes:**

- Jack bearings.
- Inspect couplings. DS
- Grease all zerks.

ASSET # 66- 107  
 ODS 0.005  
 DS 0.004

Comments:

**Electric Brakes:**

**Electric Brake Only:**

- Inspect plumbing ( must meet Unit Drillings Specifications) Note: contact the maintenance department for instructions.
- Take air gap reading. Reading: \_\_\_\_\_
- Ensure brass shifting collars suspend off of sleeve OD.
- Ensure vents are in place and clean.
- Grease all zerks.
- Inspect bearing clearance DS \_\_\_\_\_ ODS \_\_\_\_\_

66-

Comments:

N/A

**Eaton Brake Only:**

66-

- Grease all zerks.
- Inspect bearing clearance DS \_\_\_\_\_ ODS \_\_\_\_\_
- Check gap between reaction plates Reading: X gap \_\_\_\_\_ Y gap \_\_\_\_\_ Z gap \_\_\_\_\_
- Record Quantity of discs Number of discs \_\_\_\_\_
- Check Eaton Brake Temp Gauges Drillers Console \_\_\_\_\_ At the Brake \_\_\_\_\_
- Function brakes Auto Safety System \_\_\_\_\_ Follow Eaton & Hydraulic Weekly Check Sheet
- Inspect all hose and hard plumbing (leaks, cracks, kinks, crushed)
- Inspect high temperature warning system for correct operation
- Inspect flow meter for correct operation. Record GPM: \_\_\_\_\_

**Tolerances:**

Test with 25 psi of air pressure

Disc Size	Qty of WC Discs	X new	X max (Adjustment)	Y new	Y min	Z new	Z min
36	1	0.12	0.54	2.75	2.31	—	—
	2	0.24	0.66	2.75	2.31	—	—
	3	0.36	0.78	2.75	2.31	2.75	2.31
	4	0.48	0.90	2.75	2.31	2.75	2.31

Comments:

N/A

**Dry Cooler:**

78-

- Inspect all hose and hard plumbing (leaks, cracks, kinks, crushed)
- Inspect coolant tank low coolant alarm for correct operation. NOTE: Does system still need to be installed?  YES  NO
- Inspect and record coolant level in tank. Coolant Level: \_\_\_\_\_
- Clean Strainer
- Check fresh water pressures Inlet \_\_\_\_\_ Outlet \_\_\_\_\_
- Flush Heat Exchange

**Drawworks:**

**Drum Shaft:**

- Grease all zerks. Change all filters and clean screens. ASSET # 15- 80
- Inspect oil lines. Check oil level & oil quality. Clean pickup screens.
- Inspect clutches for wear and air pressure.
- Inspect tight member teeth for wear and grease.

**Jack bearing readings**

- DS 0.005
- ODS 0.007
- Other L .012
- Other H .013
- Other

Comments:

**Brake Linkage:**

- Grease all zerks and insure linkage is tight. 15- 80
- Inspect break bands for cracks and wear.
- Check brake block bolts and ensure bolts are tight.
- Check brake block thickness, record **thinnest** block measurement. DS NEW ODS NEW

MPI Inspection on brake Linkage (brake bands, slack adjusters, equalizer without removal).



**Input Shaft:**

Inspect for leaking seals.

15- 80

Jack bearing readings

<input checked="" type="checkbox"/>	DS	0.005	
<input checked="" type="checkbox"/>	ODS	0.006	
<input checked="" type="checkbox"/>	Other	L .015	
<input checked="" type="checkbox"/>	Other	Barrel .010	

Comments:

**Output Shaft:**

Grease all zerks and inspect oil system.

Jack bearing readings

<input checked="" type="checkbox"/>	DS	0.005	
<input checked="" type="checkbox"/>	ODS	0.007	
<input checked="" type="checkbox"/>	Other	L .020	
<input checked="" type="checkbox"/>	Other	Barrel .015	

Comments:

**Rotary Counter Shaft:**

Grease all zerks and inspect oil system.

Jack Bearings (Findings)

<input checked="" type="checkbox"/>	DS	0.003	
<input checked="" type="checkbox"/>	ODS	0.006	
<input checked="" type="checkbox"/>	Other	L .015	
<input checked="" type="checkbox"/>	Other	L .010	
<input checked="" type="checkbox"/>	Other	0.004	
<input checked="" type="checkbox"/>	Other	Barrel .010	

Comments:

**Cat Shaft:**

Grease all zerks and inspect oil system.

Grease cathead with 4 shots of grease.

Jack bearing readings

<input checked="" type="checkbox"/>	DS	0.006	ASSET # M	68- N/A
<input checked="" type="checkbox"/>	ODS	0.007	ASSET # E	68- N/A
<input type="checkbox"/>	Other			
<input type="checkbox"/>	Other			

**Compound:**

15- 80

## Engine shafts:

#1 DS \_\_\_\_\_ #1 ODS \_\_\_\_\_

#2 DS \_\_\_\_\_ #2 ODS \_\_\_\_\_

#3 DS \_\_\_\_\_ #3 ODS \_\_\_\_\_

## Pump drive shaft:

#1 DS \_\_\_\_\_ #1 ODS \_\_\_\_\_

#2 DS \_\_\_\_\_ #2 ODS \_\_\_\_\_

## Pump sheave shaft:

#1 DS \_\_\_\_\_ #1 ODS \_\_\_\_\_

#2 DS \_\_\_\_\_ #2 ODS \_\_\_\_\_

- Grease all zerks and inspect oil system.
- Inspect all chains for wear.
- Ensure all oil pumps are working properly.
- Change all filters and clean screens.

## Comments:

N/A

**Hook:**

ASSET # 28-

ASSET # 67-

COMBO

- Check oil in snubber.
- Grease all zerks.
- Visually check for cracks or wear.
- Rotate hook and feel for smoothness of roll.
- Ensure lock is working properly.

## Comments:

N/A

**Kelly Spinner:**

- Run spinner and check bearings.
- Ensure air pressure is 90 PSI.
- Grease all zerks.

ASSET # 69-

## Comments:

N/A

**Mud Pumps:**

- Fill out pump inspection report.
- Check piston rods and replace if worn.
- Check rod clamps and replace if worn.

ASSET # #1 38- 450

ASSET # #2 38- 449

ASSET # #3 38-

## Comments:

**Independent Pump Drive #1:**

- Inspect belts and sheave grooves for wear.
- Inspect chains and chain sprockets for wear.
- Inspect clutch and clutch drum.
- Check air lines and record PSI.
- Record bearing play on engine side of shaft.
- Record bearing play on pump side of shaft.

PSI \_\_\_\_\_  
 Reading \_\_\_\_\_  
 Reading \_\_\_\_\_

Comments

N/A

**Independent Pump Drive #2**

- Inspect belts and sheave grooves for wear.
- Inspect chains and chain sprockets for wear.
- Inspect clutch and clutch drum.
- Check air lines and record PSI.
- Record bearing play on engine side of shaft.
- Record bearing play on pump side of shaft.

PSI \_\_\_\_\_  
 Reading \_\_\_\_\_  
 Reading \_\_\_\_\_

Comments:

N/A

**Over running clutch:**

- Roll clutch and check oil.
- Check seals for leaks. Note: identify leak found in comments section.)
- Service clutch and grease splines.
- Changed Oil

Comments:

**Pipe Spinners:**

- Ensure Spinner is hung level with drill pipe.
- Inspect drive chains and rollers for wear. (clean if necessary)
- Grease all zerks and check hanger spring.

ASSET # 41- \_\_\_\_\_

Comments:

N/A

**Rotary Table:**

- Pull top off and wash mud out of table.
- Inspect through bore.
- Record main bearing play.
- Record pinion bearing play.
- Record backlash play in gears.
- Check quality of oil

ASSET # 44-

Reading \_\_\_\_\_

Reading \_\_\_\_\_

Reading \_\_\_\_\_

Comments:

Sent in

**Swivel:**

- Clean mud accumulation around top seals and install mud guard.
- Roll check swivel for smoothness of roll.
- Record endplay readings. Radial run out.
- Check quality of oil

ASSET # 50-

Reading \_\_\_\_\_

Comments:

N/A

**Crown:**

- Inspect grooves for wear.
- Check for play in bearings.
- Check for smoothness of roll.
- Grease all zerks.

ASSET # 10- 80

Comments:

**Fail Safe System:**

- Test System

**ST-80**

Comments

- Test operation & check leaks
- Perform ST-80 Inspection Form
- Service ST-80 HPU

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**HPU**

Comments

- Run HPU & check leaks
- Change all filters

\_\_\_\_\_

\_\_\_\_\_

Insure Rig Manager knows to change HPU oil once a year

# UNIT DRILLING RIG 106 GENERAL LAYOUT

Last Revision: 4/28/2015

