Doc# /ms-mf-1.1/ Rev.Date 01-05-2012

RIG 118

Engine Inspection

NAME BROKEN ARROW

Work Order No. _____

JOB TITLE MECHANIC

DATE MAINTENANCE STARTED: 9/25/2014

COMPLETED 9/25/2014

EQUIPMENT DESCRIPTION: GENSETS

SERIAL NUMBER: _____

Travel Time to Rig _____ FROM: ☑ HOME ☐ SHOP

Time from Rig _____ FROM: ☑ HOME ☐ SHOP

Time at Rig: _____

ACTON ITEMS

ASSET # :

#1 Engine 22-1230

#1 Gen. 24-907

#2 Engine 22-1335

#2 Gen. 24-922

#3 Engine 22-1326

#3 Gen. 24-924

Other _____ engine
Asset # Position

_____ gen
Asset # Position

Other _____ engine
Asset # Position

_____ gen
Asset # Position

Other _____ engine
Asset # Position

_____ gen
Asset # Position

Other _____ engine
Asset # Position

_____ gen
Asset # Position

Scheduled Engine Inspections

Rig: 118

Antifreeze: ☐ Red ☑ Green

Freeze point:

Date: 9/25/2014

Engine Position:	3
Make:	CAT
Model:	3512C
Serial Number:	LLA1035
Asset Number:	22-1326
Hours:	31414

For 3512's: Radiator 400 -38

Aftercooler 3200-32

☐ Tighten pan bolts on D-379, 398, 399.

☑ Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.

☑ Clean water passages on water cooled turbos (one time only).

☑ Run overhead valvetrain.

☑ Grease fan hub bearings and idler bearings.

☑ Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)

☑ Test shutdown system and install new belts.

☑ Check and clean auxiliary oil filter.

☑ Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg.,idler brg., shaft size, and pulley sizes.

Generator position:	3	Torque converter	
Make:	KATO	Oiler chain	
Model:	AA27673008	Clutch size	
Asset Number:	24-924	Hrs since last P.M.	
KW:	1204	RPM:	
	2-BRG		

Review service procedures for engines with rig personell.

☑ Grease and inspect for wear.

☑ Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!, (3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

EVERYTHING LOOKED GOOD

Scheduled Engine Inspections

Rig: 118

Antifreeze: ☐ Red ☑ Green

Freeze point:

Date: 9/25/2014

Engine Position:	2
Make:	CAT
Model:	3512C
Serial Number:	LLA1181
Asset Number:	22-1335
Hours:	31164

For 3512's: Radiator 3200-34

Aftercooler 3200-32

- ☐ Tighten pan bolts on D-379, 398, 399.
- ☑ Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- ☑ Clean water passages on water cooled turbos (one time only).
- ☑ Run overhead valvetrain.
- ☑ Grease fan hub bearings and idler bearings.
- ☑ Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- ☑ Test shutdown system and install new belts.
- ☑ Check and clean auxiliary oil filter.
- ☑ Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg ,idler brg., shaft size, and pulley sizes.

Generator position:	2	Torque converter	
Make:	KATO	Oiler chain	
Model:	AA27673008	Clutch size	
Asset Number:	24-922	Hrs since last P.M.	
KW:	1204	RPM:	
	2-BRG		

Review service procedures for engines with rig personell.

- ☑ Grease and inspect for wear.
- ☑ Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!, (3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

replaced jacket water pump due to badly leaking coolant,EVERYTHING LOOKED GOOD

Scheduled Engine Inspections

Rig: 118

Antifreeze: ☐ Red ☑ Green

Date: 9/25/2014

Freeze point:

Engine Position:	1
Make:	CAT
Model:	3512C
Serial Number:	LLA1146
Asset Number:	22-1230
Hours:	31379

For 3512's: Radiator 3200-28

Aftercooler 3200-32

- ☐ Tighten pan bolts on D-379, 398, 399.
- ☑ Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- ☑ Clean water passages on water cooled turbos (one time only).
- ☑ Run overhead valvetrain.
- ☑ Grease fan hub bearings and idler bearings.
- ☑ Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- ☑ Test shutdown system and install new belts.
- ☑ Check and clean auxiliary oil filter.
- ☑ Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg.,idler brg., shaft size, and pulley sizes.

Generator position:	1	Torque converter	
Make:	KATO	Oiler chain	
Model:	AA27673008	Clutch size	
Asset Number:	24-907	Hrs since last P.M.	
KW:	1204	RPM:	
	2-BRG		

Review service procedures for engines with rig personeli.

- ☑ Grease and inspect for wear.
- ☑ Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!, (3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments

EVERYTHING LOOKED GOOD

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

Rig #	118	Oil Type	pao-46

MODEL#	50dgh-te	SERIAL#	08h020	ASSET#	2-1174
HRS	27390	W/O#		DATE	5/25/2014
COMPANY	bafs	TECHNICIAN	josh womble		

Description of work and parts used

yes	FLUSHED OIL SYSTEM
yes	CHANGED OIL
yes	CHANGED OIL FILTER
yes	CHANGED AIR FILTER
yes	CHANGED SEPERATOR
yes	CLEANED RADIATOR
n/a	ADDED NEW OIL SAMPLE VALVE

everything looked good, sample valve already in place

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

Rig #	118	Oil Type	pao-46

MODEL#	50dgh-te	SERIAL#	08h021	ASSET#	2-1173
HRS	26238	W/O#		DATE	11/10/2013
COMPANY	bafs	TECHNICIAN	josh womble		

Description of work and parts used

yes	FLUSHED OIL SYSTEM
yes	CHANGED OIL
yes	CHANGED OIL FILTER
yes	CHANGED AIR FILTER
yes	CHANGED SEPERATOR
yes	CLEANED RADIATOR
n/a	ADDED NEW OIL SAMPLE VALVE

everything looked good, sample valve already in place

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RIG **118**

Pump Inspection

NAME RANDALL RAINS

JOB TITLE: **MECHANIC** **Work Order No.**

DATE MAINTENANCE STARTED: 9/7/2014 **COMPLETED:** 9/8/2014

EQUIPMENT DESCRIPTION:

SERIAL NUMBER:

#1 Asset 38-337
Make HH
Model HHF-1600

#2 Asset 38-341
Make HH
Model HHF-1600

#3 Asset
Make
Model

Travel Time to Rig 4HRS From: ☐ HOME ☐ SHOP

Time at Rig: 24HRS

Travel Time from Rig 4HRS To: ☐ HOME ☐ SHOP

ACTON ITEMS

Individual Pump Inspections

Company/Division:			Asset #	38-337	
Rig:			118		
Pump#:1					
Field Inspection Report -	Make:	HH	Model:	HHF-1600	
Recommended Running Clearances	Inches				
	Min.	Max.	Actual	General	
Crosshead to slide - Left	.020	.045	0.040	Check all oil lines	☑
Crosshead to slide - Center	.020	.040	0.042	Check all tied Bolts	☑
Crosshead to slide - Right	.020	.045	0.040	Drain & check Cleanouts	☑
Main Bearing - Left	.005	.020	0.012	Check and clean, gear end	☑
Main Bearing - Right	.005	.020	0.012	with diesel if needed	
Pinion Shaft Bearing - Left	.002	.015	0.006	Pony Rod Alignment	☐
Pinion Shaft Bearing - Right	.002	.015	0.007	Check pony rods for cracks	☑
Crosshead Pin Bearing - Left	.002	.005	0.003	and wear (replace if necessary)	
Crosshead Pin Bearing - Center	.002	.005	0.002	Check piston rods for cracks	☑
Crosshead Pin Bearing - Right	.002	.005	0.003	and wear (replace if necessary)	
Connecting Rod to Eccentric Bearing - LH	.002	.020	0.010	Check clamps for wear	☑
Connecting Rod to Eccentric Bearing - CTN	.002	.020	0.012	(replace if necessary)	
Connecting Rod to Eccentric Bearing - RH	.002	.020	0.009	Check all bearings w/ mirror	☑
Oil Pump Pinion to Main Gear - Backlash	.010	.025		for pitting and flaking	
Pinion Shaft to Main Gear - Backlash	.010	.050	0.040	Check all oil pump screens	☑
Bull Gear Wear			GOOD	Check pillow block bearings	☐
Pinion Gear Wear			GOOD	on independent pump	
Extension Rods			GOOD	On inspection replace pony	☑
				rod seals (Regardless if the	
Comments:				rig says they have already	
TOOK MAIN BEARING COVERS OFF AN TOOK PICS OF MAIN BEARING PINION ALSO				been changed seals still	
TOOK PICS OF THE #1 & #3 POD CROSSHEAD PINS BEARINGS AN RACE SENT THEM TO				need to be checked)	
FRANK SMITH,CHUCK SANDERS,ROBERT SANDS,J.D. WHITE,RYAN JENKINS,AN MIKE				replace gaskets if need do not	
FLOWER CHANGED OUT THE #3 POD PONY ROD BECAUSE IT WAS BROKEN THERE				use silicone unless need to fill	
WAS NO PITTTING OF THE BEARINGS EVERYTHING LOOKED GOOD				a void. (do not use to excess	
				because it gets into gear end)	

National		Gardner Denver		Continental Emsco	
Check troughs	☐	Oil pressure and Gauge	☐	Oil pressure and Gauge	☑
Check crosshead's for cracks	☐	Oil Filter	☐	Check pony rod wiper if equipped	☑
at pony rod clamp		Oil spray bar for crossheads	☐	if not equipped with wipers get parts	
Check pony rod clamp	☐	Check to see if correct pony	☐	to correct	
on bolts on crosshead's		rods are installed by gauging		Check to see if baffle plates	☑
Loosen pony rod clamp bolts and	☐	distance between it and oil		are doweled in pump	
tighten pony rod then retorque bolts		stop plate.			
		Oil pump Screen	☐		
		If new floaters are not there get	☐		
		parts to install floating seals			

Action Items:

Individual Pump Inspections

Company/Division:			Asset #	38-341	
Rig:			118		
Pump#:2					
Field Inspection Report -	Make:	HH	Model:	HHF-1600	
Recommended Running Clearances	Inches				
	Min.	Max.	Actual	General	
Crosshead to slide - Left	.020	.045	0.040	Check all oil lines	☑
Crosshead to slide - Center	.020	.040	0.042	Check all tied Bolts	☑
Crosshead to slide - Right	.020	.045	0.038	Drain & check Cleanouts	☑
Main Bearing - Left	.005	.020	0.015	Check and clean, gear end	☐
Main Bearing - Right	.005	.020	0.010	with diesel if needed	
Pinion Shaft Bearing - Left	.002	.015	0.007	Pony Rod Alignment	☐
Pinion Shaft Bearing - Right	.002	.015	0.007	Check pony rods for cracks	☑
Crosshead Pin Bearing - Left	.002	.005	0.002	and wear (replace if necessary)	
Crosshead Pin Bearing - Center	.002	.005	0.003	Check piston rods for cracks	☑
Crosshead Pin Bearing - Right	.002	.005	0.002	and wear (replace if necessary)	
Connecting Rod to Eccentric Bearing - LH	.002	.020	0.012	Check clamps for wear	☑
Connecting Rod to Eccentric Bearing - CTN	.002	.020	0.008	(replace if necessary)	
Connecting Rod to Eccentric Bearing - RH	.002	.020	0.009	Check all bearings w/ mirror	☑
Oil Pump Pinion to Main Gear - Backlash	.010	.025		for pitting and flaking	
Pinion Shaft to Main Gear - Backlash	.010	.050	0.027	Check all oil pump screens	☑
Bull Gear Wear			GOOD	Check pillow block bearings	☐
Pinion Gear Wear			GOOD	on independent pump	
Extension Rods			GOOD	On inspection replace pony	
				rod seals (Regardless if the	
Comments:				rig says they have already	
EVERYTHING ON THIS PUMP LOOKED GOOD				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)	

National		Gardner Denver		Continental Emsco	
Check troughs	☐	Oil pressure and Gauge	☐	Oil pressure and Gauge	☑
Check crosshead's for cracks	☐	Oil Filter	☐	Check pony rod wiper if equipped	☑
at pony rod clamp		Oil spray bar for crossheads	☐	if not equipped with wipers get parts	
Check pony rod clamp	☐	Check to see if correct pony		to correct	
on bolts on crosshead's		rods are installed by gauging	☐	Check to see if baffle plates	☑
Loosen pony rod clamp bolts and	☐	distance between it and oil		are doweled in pump	
tighten pony rod then retorque bolts		stop plate.			
		Oil pump Screen	☐		
		If new floaters are not there get	☐		
		parts to install floating seals			

Action Items:

Individual Pump Inspections

Company/Division:	Asset #

Rig:	118
Pump#:3	

Field Inspection Report -	Make:		Model:		
Recommended Running Clearances	Inches				
	Min.	Max.	Actual	General	
Crosshead to slide - Left	.020	.045		Check all oil lines	☐
Crosshead to slide - Center	.020	.040		Check all tied Bolts	☐
Crosshead to slide - Right	.020	.045		Drain & check Cleanouts	☐
Main Bearing - Left	.005	.020		Check and clean, gear end	☐
Main Bearing - Right	.005	.020		with diesel if needed	
Pinion Shaft Bearing - Left	.002	.015		Pony Rod Alignment	☐
Pinion Shaft Bearing - Right	.002	.015		Check pony rods for cracks	☐
Crosshead Pin Bearing - Left	.002	.005		and wear (replace if necessary)	
Crosshead Pin Bearing - Center	.002	.005		Check piston rods for cracks	☐
Crosshead Pin Bearing - Right	.002	.005		and wear (replace if necessary)	
Connecting Rod to Eccentric Bearing - LH	.002	.020		Check clamps for wear	☐
Connecting Rod to Eccentric Bearing - CTN	.002	.020		(replace if necessary)	
Connecting Rod to Eccentric Bearing - RH	.002	.020		Check all bearings w/ mirror	☐
Oil Pump Pinion to Main Gear - Backlash	.010	.025		for pitting and flaking	
Pinion Shaft to Main Gear - Backlash	.010	.050		Check all oil pump screens	☐
Bull Gear Wear				Check pillow block bearings	☐
Pinion Gear Wear				on independent pump	
Extension Rods				On inspection replace pony	
				rod seals (Regardless if the	
Comments:				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)	

National		Gardner Denver		Continental Emsco	
Check troughs	☐	Oil pressure and Gauge	☐	Oil pressure and Gauge	☐
Check crosshead's for cracks	☐	Oil Filter	☐	Check pony rod wiper if equipped	☐
at pony rod clamp		Oil spray bar for crossheads	☐	if not equipped with wipers get parts	
Check pony rod clamp	☐	Check to see if correct pony		to correct	
on bolts on crosshead's		rods are installed by gauging	☐	Check to see if baffle plates	☐
Loosen pony rod clamp bolts and	☐	distance between it and oil		are doweled in pump	
tighten pony rod then retorque bolts		stop plate.			
		Oil pump Screen	☐		
		If new floaters are not there get	☐		
		parts to install floating seals			

Action Items:

Doc# /ms-mf-1.1/ **Rev.Date 11-11-2011**

RIG 118

Rig Inspection

NAME RANDALL RAINS

JOB TITLE MECHANIC **Work Order No.** 55292

DATE MAINTENANCE STARTED: 9/10/2014 **COMPLETED** 9/12/2014

EQUIPMENT DESCRIPTION:

SERIAL NUMBER: ASSET # :

Travel Time to Rig 9HRS **FROM:** ☐ HOME ☐ SHOP

Hours at Rig: 36HRS

Time from Rig 9HRS **FROM:** ☐ HOME ☐ SHOP

ACTON ITEMS

CHANGED OUT THE 120 X 4 INPUT LOW DRIVE CHAINALSO CHANGED OUT THE 160 X 3 INPUT HIGH DRUM CLUTCH ALSO CHANGED OUT THE 160 X 2 ROTARY CHAIN ALL THE CHAINS WERE STRETCHED OUT AN ALSO THEY WERE MISSING A LOT OF KEEPERS TOO ALSO FIXXED THE LOW DRUM GREASE LINE THAT WAS BROKEN ACIDTIZED HEAT EXCHANGER FOR 8HRS FIXXED METAL FEED LINE ON #1 HPU PUMP COULDN'T FIND ASSET # ON DRY COOLER TANK

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

Rig: 118

Date: 9/12/2014

Scheduled Rig Inspection Check List

Air Hoist:

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

#1 ASSET 27- 512

#2 ASSET 27- 554

#3 ASSET 27- N/A

Comments:

EVERYTHING LOOKED REALLY GOOD

Blocks:

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

ASSET # 5- 166

ASSET # 67- N/A COMBO

Comments:

EVERYTHING LOOKED GOOD

Brakes:

- [ ] Jack bearings.
- [ ] Inspect couplings.
- [ ] Grease all zerks.

ASSET # 66-

DS _____ ODS _____

Comments:

Electric Brakes:

Electric Brake Only:

66-

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

Reading: _____

DS _____ ODS _____

Comments:

Eaton Brake Only:

66- 277

- [x] Grease all zerks.
- [x] Inspect bearing clearance — DS 0.004 — ODS N/A
- [x] Check gap between reaction plates — Reading: X gap 0.583 — Y gap 2.62 — Z gap 2.59
- [x] Record Quantity of discs — Number of discs 3
- [x] Check Eaton Brake Temp Gauges — Drillers Console N/A — At the Brake N/A
- [x] Function brakes Auto Safety System — Follow Eaton & Hydraulic Weekly Check Sheet

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:

EVERYTHING LOOKED GOOD

Dry Cooler:

78-

- [x] Flush Dry Cooler
- [x] Clean Strainer
- [x] Check water Pressures — Inlet 19PSI — Outlet 0PSI

Drawworks:

Drum Shaft:

ASSET # 15- 149

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

Jack bearing readings

- [x] DS 0.009
- [x] ODS 0.01
- [x] Other LOW DRUM CLUTCH .012
- [ ] Other HIGH DRUM CLITCH .015
- [ ] Other

Comments:

EVERYTHING LOOKED GOOD

Brake Linkage:

15- 149

- [ ] Grease all zerks and insure linkage is tight.
- [ ] 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 3/4" ODS 3/4"
- [ ] MPI Inspection on brake Linkage (brake bands, slack adjusters, equalizer without removal).

Comments:

HYDRLIC BRAKE PADS ARE 3/4" THICK AN THERE IS NO BRAKE LINKAGE

Input Shaft:

☑ Inspect for leaking seals. 15- 149

Jack bearing readings

☑	DS	0.008
☑	ODS	0.006
☑	Other	LOW MIDDLE CLUTCH ODS .013
☑	Other	HIGH MIDDLE CLUTCH DS .012

Comments:

EVERYTHING LOOKS GOOD

Output Shaft:

☑ Grease all zerks and inspect oil system.

Jack bearing readings

☑	DS	0.006
☑	ODS	0.008
☐	Other	
☐	Other	

Comments:

EVERYTHING LOOKED GOOD

Rotary Counter Shaft:

☑ Grease all zerks and inspect oil system.

Jack Bearings (Findings)

☑	DS	INPUT .004
☐	ODS	OUT PUT .005
☐	Other	
☐	Other	
☐	Other	
☐	Other	

Comments:

EVERYTHING LOOKED GOOD

Cat Shaft:

☐ Grease all zerks and inspect oil system.

☐ Grease cathead with 4 shots of grease.

Jack bearing readings

☐	DS	N/A HAS HYDRLIC CAT HEADS	ASSET # MU	68-
☐	ODS		ASSET # BO	68-
☐	Other			
☐	Other			

Compound:

15- 149

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 NO COMPOUND

Hook:

ASSET # 28-

ASSET # 67- N/A 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 NO HOOK HAS A TOP DRIVE

Kelly Spinner:

ASSET # 69-

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

Comments:

N/A NO KELLY HAS TOP DRIVE

Mud Pumps:

ASSET # #1 38- 337

ASSET # #2 38- 341

ASSET # #3 38-

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

Comments:

EVERYTHING LOOKED GOOD

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

NA/

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:

N/A HAS AN EATON BRAKE

Pipe Spinners:

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

ASSET # 41- 24

Comments:

EVERYTHING LOOKED GOOD

Rotary Table:

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

ASSET # 44- 271

Reading UP-DOWN .010

Reading SIDE -SIDE .006

Reading IN-OUT .016

Comments:

EVERYTHING LOOKED GOOD

Swivel:

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

ASSET # 50- 197

Reading 0.013

Comments:

EVERYTHING LOOKED GOOD

Crown:

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

ASSET # 10- 118

Comments:

EVERYTHING WAS GOOD

Fail Safe System:

- [ ] Test System

N/A

ST-80

Comments

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

N/A

HPU

Comments

- [x] Run HPU & check leaks
- [x] Change all filters

CHANGED OUT THE METAL TUBE ON #1 HPU PUMP

Insure Rig Manager knows to change HPU oil once a year

UNIT DRILLING RIG 118
GENERAL LAYOUT

Last Revision: 1/13/2016