

ภาคผนวก จ-2

การตรวจสอบเครื่องจักรอุปกรณ์

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# ระยะเจาะหลุมผลิตปิโตรเลียม

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# TRAVELLING BLOCK & HOOK 游车大钩

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_

Serial No: \_\_\_\_\_ Total Running time(h): \_\_\_\_\_

Logogram: 简写: OK好 0; Repair Needed要修理 R; Repair Made已做修理 M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.1 12.2 12.3 12.4 12.5 12.6 12.7

Daily running time

1.Rod for lifting car in good condition,related shear pin in place 吊环销轴两端开口销是否牢靠	0	0	0	0	0	0	0
2. Bolts for vice-hook is tightening or not 副钩上螺钉是否拧紧	0	0	0	0	0	0	0
3.Locking device for hook rotating flexible or not 转动锁紧装置,安全销体是否灵活可靠	0	0	0	0	0	0	0
4.Main hook rotating freely or not 钩身是否转动灵活	0	0	0	0	0	0	0
5.Lubricating oil enough and in good quarty 钩体内机油位置,油质情况	0	0	0	0	0	0	0
6.Lubricating condition of the locating rim ,shaft and locking rod ,lockinf car 定位盘,销轴,顶杆等润滑情况	0	0	0	0	0	0	0
7.Any leaking at sealed area while hook at horizontal or vertical pos 大钩在水平及垂直位置时,各密封处有无油渗漏	0	0	0	0	0	0	0
8.Any rust outside of the body 锈蚀情况	0	0	0	0	0	0	0
9.Check every sheave,it rotate freely or not 游车滑轮是否活动自如	0	0	0	0	0	0	0
10.Check safety guards tightening bolts 检查护罩螺栓	0	0	0	0	0	0	0
11.Safety guards distorted or not,any friction between it and sheaves 检查护罩有无破损	0	0	0	0	0	0	0
12.Lubricate all bearings once a well with lithium-base grease. 轴承每口井注入锂基润滑脂	0	0	0	0	0	0	0

Date Completed \_\_\_\_\_ Signature:Mech/Elec \_\_\_\_\_ Signature:Toolpusher \_\_\_\_\_

# TRAVELLING BLOCK & HOOK 游车大钩

## Preventive Maintenance Service

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Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_

Serial No: \_\_\_\_\_ Total Running time(h): \_\_\_\_\_

Logogram: 简写: OK好 0; Repair Needed要修理 R; Repair Made已做修理 M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1.Rod for lifting car in good condition,related shear pin in place 吊环销轴两端开口销是否牢靠	0	0	0	0	0	0	0
2. Bolts for vice-hook is tightening or not 副钩上螺钉是否拧紧	0	0	0	0	0	0	0
3.Locking device for hook rotating flexible or not 转动锁紧装置,安全销体是否灵活可靠	0	0	0	0	0	0	0
4.Main hook rotating freely or not 钩身是否转动灵活	0	0	0	0	0	0	0
5.Lubricating oil enough and in good quarty 钩体内机油位置,油质情况	0	0	0	0	0	0	0
6.Lubricating condition of the locating rim ,shaft and locking rod ,lockinf car 定位盘,销轴,顶杆等润滑情况	0	0	0	0	0	0	0
7.Any leaking at sealed area while hook at horizontal or vertical pos 大钩在水平及垂直位置时,各密封处有无油渗漏	0	0	0	0	0	0	0
8.Any rust outside of the body 锈蚀情况	0	0	0	0	0	0	0
9.Check every sheave,it rotate freely or not 游车滑轮是否活动自如	0	0	0	0	0	0	0
10.Check safety guards tightening bolts 检查护罩螺栓	0	0	0	0	0	0	0
11.Safety guards distorted or not,any friction between it and sheaves 检查护罩有无破损	0	0	0	0	0	0	0
12.Lubricate all bearings once a well with lithium-base grease. 轴承每口井注入锂基润滑脂	0	0	0	0	0	0	0

Date Completed \_\_\_\_\_ Signature:Mech/Elec \_\_\_\_\_ Signature:Toolpusher \_\_\_\_\_

# TRAVELLING BLOCK & HOOK 游车大钩

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_

Serial No: \_\_\_\_\_ Total Running time(h): \_\_\_\_\_

Logogram: 简写: OK好 0; Repair Needed要修理 R; Repair Made已做修理 M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.15 12.16 12.17 12.18 12.19 12.20 12.21

Daily running time

1.Rod for lifting car in good condition,related shear pin in place 吊环销轴两端开口销是否牢靠	0	0	0	0	0	0	0
2. Bolts for vice-hook is tightening or not 副钩上螺钉是否拧紧	0	0	0	0	0	0	0
3.Locking device for hook rotating flexible or not 转动锁紧装置,安全销体是否灵活可靠	0	0	0	0	0	0	0
4.Main hook rotating freely or not 钩身是否转动灵活	0	0	0	0	0	0	0
5.Lubricating oil enough and in good quarty 钩体内机油位置,油质情况	0	0	0	0	0	0	0
6.Lubricating condition of the locating rim ,shaft and locking rod ,lockinf car 定位盘,销轴,顶杆等润滑情况	0	0	0	0	0	0	0
7.Any leaking at sealed area while hook at horizontal or vertical pos 大钩在水平及垂直位置时,各密封处有无油渗漏	0	0	0	0	0	0	0
8.Any rust outside of the body 锈蚀情况	0	0	0	0	0	0	0
9.Check every sheave,it rotate freely or not 游车滑轮是否活动自如	0	0	0	0	0	0	0
10.Check safety guards tightening bolts 检查护罩螺栓	0	0	0	0	0	0	0
11.Safety guards distorted or not,any friction between it and sheaves 检查护罩有无破损	0	0	0	0	0	0	0
12.Lubricate all bearings once a well with lithium-base grease. 轴承每口井注入锂基润滑脂	0	0	0	0	0	0	0

Date Completed \_\_\_\_\_ Signature:Mech/Elec \_\_\_\_\_ Signature:Toolpusher \_\_\_\_\_

# TRAVELLING BLOCK & HOOK 游车大钩

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_

Serial No: \_\_\_\_\_ Total Running time(h): \_\_\_\_\_

Logogram: 简写: OK好 0; Repair Needed要修理 R; Repair Made已做修理 M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.22 12.23 12.24 12.25 12.26 12.27 12.28

Daily running time

1.Rod for lifting car in good condition,related shear pin in place 吊环销轴两端开口销是否牢靠	0	0	0	0	0	0	0
2. Bolts for vice-hook is tightening or not 副钩上螺钉是否拧紧	0	0	0	0	0	0	0
3.Locking device for hook rotating flexible or not 转动锁紧装置,安全销体是否灵活可靠	0	0	0	0	0	0	0
4.Main hook rotating freely or not 钩身是否转动灵活	0	0	0	0	0	0	0
5.Lubricating oil enough and in good quarty 钩体内机油位置,油质情况	0	0	0	0	0	0	0
6.Lubricating condition of the locating rim ,shaft and locking rod ,lockinf car 定位盘,销轴,顶杆等润滑情况	0	0	0	0	0	0	0
7.Any leaking at sealed area while hook at horizontal or vertical pos 大钩在水平及垂直位置时,各密封处有无油渗漏	0	0	0	0	0	0	0
8.Any rust outside of the body 锈蚀情况	0	0	0	0	0	0	0
9.Check every sheave,it rotate freely or not 游车滑轮是否活动自如	0	0	0	0	0	0	0
10.Check safety guards tightening bolts 检查护罩螺栓	0	0	0	0	0	0	0
11.Safety guards distorted or not,any friction between it and sheaves 检查护罩有无破损	0	0	0	0	0	0	0
12.Lubricate all bearings once a well with lithium-base grease. 轴承每口井注入锂基润滑脂	0	0	0	0	0	0	0

Date Completed \_\_\_\_\_ Signature:Mech/Elec \_\_\_\_\_ Signature:Toolpusher \_\_\_\_\_





## HYDRAULIC POWER TONG 液压大钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-8	12-9	12-10	12-11	12-12	12-13	12-14
Daily running time	0	0	0	0	0	0	0
1. Power unit run well? pressure oil enough and in good quality working pressure动力部分是否运转正常? 液压油是否足量优质? 工作压力是否正常?	0	0	0	0	0	0	0
2. Oil line in good condition, any leaking 油管线有无渗漏?	0	0	0	0	0	0	0
3. Control valve flexible 控制阀是否灵活好用	0	0	0	0	0	0	0
4. Any holding bolts for tong die missing or not 所有的支撑螺栓齐全	0	0	0	0	0	0	0
5. Tong body in level position 大钳本体处于水平状态	0	0	0	0	0	0	0
6. Slope plate and sliding plate in good condition 坡板和滑块工况	0	0	0	0	0	0	0
7. Expansion cylinder expand and retract freely 伸缩气缸运转自如	0	0	0	0	0	0	0
8. Any rust outside of body 锈蚀情况	0	0	0	0	0	0	0

## MANUAL TONG 吊钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-8	12-9	12-10	12-11	12-12	12-13	12-14
Daily running time	0	0	0	0	0	0	0
1. Tong body in level position 大钳本体是否水平	0	0	0	0	0	0	0
2. Any cracks in tong head 钳头有无裂纹	0	0	0	0	0	0	0
3. Tong dies in good condition 大钳工况怎样	0	0	0	0	0	0	0
4. Any holding pin (for die, connecting rod) missing 钳牙, 连杆的固定销有无丢失	0	0	0	0	0	0	0
5. Easy up/down 是否易于起放	0	0	0	0	0	0	0
6. Any rust outside of body 本体是否有锈	0	0	0	0	0	0	0

Comments: \_\_\_\_\_

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## HYDRAULIC POWER TONG 液压大钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-15	12-16	12-17	12-18	12-19	12-20	12-21
Daily running time	0	0	0	0	0	0	0
Power unit run well? pressure oil enough and in good quality working pressure动力部分是否运转正常? 液压油是否足量优质? 工作压力是否正常?	0	0	0	0	0	0	0
Oil line in good condition, any leaking 油管线有无渗漏?	0	0	0	0	0	0	0
Control valve flexible 控制阀是否灵活好用	0	0	0	0	0	0	0
Any holding bolts for tong die missing or not 所有的支撑螺栓齐全	0	0	0	0	0	0	0
Tong body in level position 大钳本体处于水平状态	0	0	0	0	0	0	0
Slope plate and sliding plate in good condition 坡板和滑块工况	0	0	0	0	0	0	0
Expansion cylinder expand and retract freely 伸缩气缸运转自如	0	0	0	0	0	0	0
Any rust outside of body 锈蚀情况	0	0	0	0	0	0	0

## MANUAL TONG 吊钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-15	12-16	12-17	12-18	12-19	12-20	12-21
Daily running time	0	0	0	0	0	0	0
Tong body in level position 大钳本体是否水平	0	0	0	0	0	0	0
Any cracks in tong head 钳头有无裂纹	0	0	0	0	0	0	0
Tong dies in good condition 大钳工况怎样	0	0	0	0	0	0	0
Any holding pin (for die, connecting rod) missing 钳牙, 连杆的固定销有无丢失	0	0	0	0	0	0	0
Easy up/down 是否易于起放	0	0	0	0	0	0	0
Any rust outside of body 本体是否有锈	0	0	0	0	0	0	0

Comments: \_\_\_\_\_

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## HYDRAULIC POWER TONG 液压大钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-22	12-23	12-24	12-25	12-26	12-27	12-28
Daily running time	0	0	0	0	0	0	0
1. Power unit run well? pressure oil enough and in good quality working pressure动力部分是否运转正常? 液压油是否足量优质? 工作压力是否正常?	0	0	0	0	0	0	0
2. Oil line in good condition, any leaking 油管线有无渗漏?	0	0	0	0	0	0	0
3. Control valve flexible 控制阀是否灵活好用	0	0	0	0	0	0	0
4. Any holding bolts for tong die missing or not 所有的支撑螺栓齐全	0	0	0	0	0	0	0
5. Tong body in level position 大钳本体处于水平状态	0	0	0	0	0	0	0
6. Slope plate and sliding plate in good condition 坡板和滑块工况	0	0	0	0	0	0	0
7. Expansion cylinder expand and retract freely 伸缩气缸运转自如	0	0	0	0	0	0	0
8. Any rust outside of body 锈蚀情况	0	0	0	0	0	0	0

## MANUAL TONG 吊钳

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-22	12-23	12-24	12-25	12-26	12-27	12-28
Daily running time	0	0	0	0	0	0	0
1. Tong body in level position 大钳本体是否水平	0	0	0	0	0	0	0
2. Any cracks in tong head 钳头有无裂纹	0	0	0	0	0	0	0
3. Tong dies in good condition 大钳工况怎样	0	0	0	0	0	0	0
4. Any holding pin (for die, connecting rod) missing 钳牙, 连杆的固定销有无丢失	0	0	0	0	0	0	0
5. Easy up/down 是否易于起放	0	0	0	0	0	0	0
6. Any rust outside of body 本体是否有锈	0	0	0	0	0	0	0

Comments: \_\_\_\_\_

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## 2# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK好\_O; Repair Needed要修理\_R; Repair Made已修理\_M; Mechanic/Electrician Measurement机械师/电器师测量\_EW

Date	12-1	12-2	12-3	12-4	12-5	12-6	12-7
Daily running time	0	0	0	0	0	0	0
Check crankcase oil level of oil level indicator Change the oil OR conduct oil sampling every 3000 hours running. 检查曲柄箱油面, 累计运转3000小时换油(或取油样)	0	0	0	0	0	0	Repair
Check if the motor belt loosen 检查马达皮带是否松动	0	0	0	0	0	0	Repair
Check Liner and Piston are operating properly 检查衬套和活塞是否工作正常	0	0	0	0	0	0	Repair
Check cooling water face 检查冷却水液面	0	0	0	0	0	0	Repair
Check cooling water pump 检查冷却水泵工况	0	0	0	0	0	0	Repair
and an alternative can be used from valve. If there have one, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺声, 更换	0	0	0	0	0	0	Repair
Check bolts for tightness. 检查螺栓紧固情况	0	0	0	0	0	0	Repair
Check air chamber pressure. 检查空气包压力	0	0	0	0	0	0	Repair
Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块	0	0	0	0	0	0	Repair
Check clearance between guide plate and crosshead every 5 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)	0	0	0	0	0	0	Repair
Check once a year all the bearings of the crankshaft, connecting rods, piston shaft, crossheads and its guide for looseness. 每年检查一次曲柄, 连杆, 活塞, 传动轴, 十字头导板等轴承是否松动	0	0	0	0	0	0	Repair

## F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time上次检查	Running Time运行时间	Total Accu. Time总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

Comments: \_\_\_\_\_

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_



# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK 好 D: Repair Needed 要修理 R: Repair Made 已修

Daily running time

Date	12-15	12-16	12-17	12-18	12-19	12-20
1. Check crankcase oil face of oil level indicator (Change the oil (OR conduct oil sampling) every 3000 Hours running. 检查曲柄箱油面, 累计运转3000小时换油(或取油样))	0	0	0	Repair	0	Repair
2. Check if the motor belt loosen 检查泵马达皮带是否松动	0	0	0	Repair	0	Repair
3. Check Liner and Piston are operating properly 检查钢套和活塞是否工作正常	0	0	0	Repair	0	Repair
4. Check cooling water face 检查冷却水液面	0	0	0	Repair	0	Repair
5. Check cooling water pump 检查冷却水泵工况	0	0	0	Repair	0	Repair
6. Listen an attentive ear to sound from valve. If there have any, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺耳声, 更换	0	0	0	Repair	0	Repair
7. Check bolts/nuts for tightness. 检查螺栓/螺母松紧情况	0	0	0	Repair	0	Repair
8. Check air chamber pressure. 检查空气包压力	0	0	0	Repair	0	Repair
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块。	0	0	0	Repair	0	Repair
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)	0	0	0	Repair	0	Repair
11. Check once a year all the bearings of the crankshaft, connecting rods, pinion shaft, crossheads and its guide for looseness. 每一年检查一次曲柄, 连杆, 传动轴, 十字头导板等轴承是否松动。	0	0	0	Repair	0	Repair

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

## Comments:

12-11, 12-13 mud pump No.1 repair made

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# 2# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK 好 D: Repair Needed 要修理 R: Repair Made 已修

Daily running time

Date	12-22	12-23	12-24	12-25	12-26	12-27
1. Check crankcase oil face of oil level indicator (Change the oil (OR conduct oil sampling) every 3000 Hours running. 检查曲柄箱油面, 累计运转3000小时换油(或取油样))	0	0	0	0	0	0
2. Check if the motor belt loosen 检查泵马达皮带是否松动	0	0	0	0	0	0
3. Check Liner and Piston are operating properly 检查钢套和活塞是否工作正常	0	0	0	0	0	0
4. Check cooling water face 检查冷却水液面	0	0	0	0	0	0
5. Check cooling water pump 检查冷却水泵工况	0	0	0	0	0	0
6. Listen an attentive ear to sound from valve. If there have any, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺耳声, 更换	0	0	0	0	0	0
7. Check bolts/nuts for tightness. 检查螺栓/螺母松紧情况	0	0	0	0	0	0
8. Check air chamber pressure. 检查空气包压力	0	0	0	0	0	0
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块。	0	0	0	0	0	0
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)	0	0	0	0	0	0
11. Check once a year all the bearings of the crankshaft, connecting rods, pinion shaft, crossheads and its guide for looseness. 每一年检查一次曲柄, 连杆, 传动轴, 十字头导板等轴承是否松动。	0	0	0	0	0	0

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# 2# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK 好 D: Repair Needed 要修理 R: Repair Made 已修

Daily running time

Date	12-15	12-16	12-17	12-18	12-19	12-20
1. Check crankcase oil face of oil level indicator (Change the oil (OR conduct oil sampling) every 3000 Hours running. 检查曲柄箱油面, 累计运转3000小时换油(或取油样))	0	0	0	0	0	0
2. Check if the motor belt loosen 检查泵马达皮带是否松动	0	0	0	0	0	0
3. Check Liner and Piston are operating properly 检查钢套和活塞是否工作正常	0	0	0	0	0	0
4. Check cooling water face 检查冷却水液面	0	0	0	0	0	0
5. Check cooling water pump 检查冷却水泵工况	0	0	0	0	0	0
6. Listen an attentive ear to sound from valve. If there have any, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺耳声, 更换	0	0	0	0	0	0
7. Check bolts/nuts for tightness. 检查螺栓/螺母松紧情况	0	0	0	0	0	0
8. Check air chamber pressure. 检查空气包压力	0	0	0	0	0	0
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块。	0	0	0	0	0	0
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)	0	0	0	0	0	0
11. Check once a year all the bearings of the crankshaft, connecting rods, pinion shaft, crossheads and its guide for looseness. 每一年检查一次曲柄, 连杆, 传动轴, 十字头导板等轴承是否松动。	0	0	0	0	0	0

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# 1# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9001 Well No. \_\_\_\_\_

Logogram: 简写: OK 好 D: Repair Needed 要修理 R: Repair Made 已修

Daily running time

Date	12-1	12-2	12-3	12-4	12-5	12-6
1. Check crankcase oil face of oil level indicator (Change the oil (OR conduct oil sampling) every 3000 Hours running. 检查曲柄箱油面, 累计运转3000小时换油(或取油样))	0	0	0	0	0	0
2. Check if the motor belt loosen 检查泵马达皮带是否松动	0	0	0	0	0	0
3. Check Liner and Piston are operating properly 检查钢套和活塞是否工作正常	0	0	0	0	0	0
4. Check cooling water face 检查冷却水液面	0	0	0	0	0	0
5. Check cooling water pump 检查冷却水泵工况	0	0	0	0	0	0
6. Listen an attentive ear to sound from valve. If there have any, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺耳声, 更换	0	0	0	0	0	0
7. Check bolts/nuts for tightness. 检查螺栓/螺母松紧情况	0	0	0	0	0	0
8. Check air chamber pressure. 检查空气包压力	0	0	0	0	0	0
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块。	0	0	0	0	0	0
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)	0	0	0	0	0	0
11. Check once a year all the bearings of the crankshaft, connecting rods, pinion shaft, crossheads and its guide for looseness. 每一年检查一次曲柄, 连杆, 传动轴, 十字头导板等轴承是否松动。	0	0	0	0	0	0

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_

Well No. \_\_\_\_\_

Logogram: 简写: OK好, D: Repair Needed要修理, R: Repair Made已修  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

1. Check crankcase oil level of oil level indicator. Change the oil (OR conduct oil sampling every 3000 hours running). 检查曲柄箱油面, 累计运转3000小时换油(或取油样)
2. Check if the motor belt loosen 检查泵马达皮带是否松动
3. Check Liner and Piston are operating properly 检查衬套和活塞是否工作正常
4. Check cooling water face 检查冷却水液面
5. Check cooling water pump 检查冷却水泵工况
6. Load an alternative car to sound from valve. If there have rump, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺声, 更换
7. Check bolts/nuts for tightness. 检查螺栓螺母松动情况
8. Check air chamber pressure. 检查空气包压力
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)
11. Check once a year all the bearings of the crankshaft, connecting rods, piston shaft, crossheads and its guide for looseness. 每年检查一次曲柄, 连杆, 活塞轴, 十字头导板等轴承是否松动

修理 電 機 械 / Electrician Measurement 機械的 / 電気的 修理												
12.8	12.9	12.10	12.11	12.12	12.13	12.14	12.15	12.16	12.17	12.18	12.19	12.20
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0</												

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_

Well No. \_\_\_\_\_

Logogram: 简写: OK好, D: Repair Needed要修理, R: Repair Made已修  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

1. Check crankcase oil level of oil level indicator. Change the oil (OR conduct oil sampling every 3000 hours running). 检查曲柄箱油面, 累计运转3000小时换油(或取油样)
2. Check if the motor belt loosen 检查泵马达皮带是否松动
3. Check Liner and Piston are operating properly 检查衬套和活塞是否工作正常
4. Check cooling water face 检查冷却水液面
5. Check cooling water pump 检查冷却水泵工况
6. Load an alternative car to sound from valve. If there have rump, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺声, 更换
7. Check bolts/nuts for tightness. 检查螺栓螺母松动情况
8. Check air chamber pressure. 检查空气包压力
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)
11. Check once a year all the bearings of the crankshaft, connecting rods, piston shaft, crossheads and its guide for looseness. 每年检查一次曲柄, 连杆, 活塞轴, 十字头导板等轴承是否松动

Date	12.15	12.16	12.17	12.18	12.19	12.20	12.21	12.22	12.23	12.24	12.25	12.26	12.27	12.28	12.29	12.30	12.31
Daily running time																	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# F-1000 MUD PUMP 泥浆泵

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_

Well No. \_\_\_\_\_

Logogram: 简写: OK好, D: Repair Needed要修理, R: Repair Made已修  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

1. Check crankcase oil level of oil level indicator. Change the oil (OR conduct oil sampling every 3000 hours running). 检查曲柄箱油面, 累计运转3000小时换油(或取油样)
2. Check if the motor belt loosen 检查泵马达皮带是否松动
3. Check Liner and Piston are operating properly 检查衬套和活塞是否工作正常
4. Check cooling water face 检查冷却水液面
5. Check cooling water pump 检查冷却水泵工况
6. Load an alternative car to sound from valve. If there have rump, may be need change valve or valve seat. 倾听凡尔体与凡尔座的声音, 如有刺声, 更换
7. Check bolts/nuts for tightness. 检查螺栓螺母松动情况
8. Check air chamber pressure. 检查空气包压力
9. Clean the magnets of bearing's oil troughs at the power end once a month. 每月清洗一次动力端轴承处的磁块
10. Check clearance between guide plate and crosshead every 6 months. (0.25-0.5mm) 每6个月检查一次十字头与导板间隙(0.25-0.5mm)
11. Check once a year all the bearings of the crankshaft, connecting rods, piston shaft, crossheads and its guide for looseness. 每年检查一次曲柄, 连杆, 活塞轴, 十字头导板等轴承是否松动

Date	12.22	12.23	12.24	12.25	12.26	12.27	12.28	12.29	12.30	12.31
Daily running time										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										

F-1000 MUD PUMP RUNNING CHART

Item	Last Accu. Time 上次检查 累计运转时间	Running Time 运行时间	Total Accu. Time 总累计运行时间
Crankcase Oil			
Clearance			
Loosen			

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# MUD AGITATOR 搅拌机

## Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_

Well No. \_\_\_\_\_

Logogram: 简写: OK好, D: Repair Needed要修理, R: Repair Made已修  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

1. Control button in the panel is flexible or not 控制面板按钮是否灵活好用
2. Motor run well or not/any abnormal noise/temperature 马达运转情况? 有无杂音/温度怎样?
3. Gear box run well 齿轮箱运转怎样
4. Impeller driving rod condition 叶轮传动杆工况
5. Lubricating oil enough or not/oil quality 机油油质与油量
6. Any rust outside of body 锈蚀情况

	12.1	12.2	12.3	12.4	12.5	12.6	12.7
①	0	0	0	0	0	0	0
②	0	0	0	0	0	0	0
③	0	0	0	0	0	0	0
④	0	0	0	0	0	0	0
⑤	0	0	0	0	0	0	0
⑥	0	0	0	0	0	0	0
⑦	0	0	0	0	0	0	0

## DEGASSER 除气器

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_

Well No. \_\_\_\_\_

Logogram: 简写: OK好, D: Repair Needed要修理, R: Repair Made已修  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

1. Check vacuum pump and motor are operating properly 检查真空泵及马达
2. Check if the motor belt loosen 皮带是否松动
3. Check vacuum pump's oil face. 真空泵油面
4. Change oil every 500 hours running. 每500小时换油一次
5. Check working pressure 检查工作压力
6. Clean vacuum tank. 洗净真空罐
7. Infuse lubricating grease into lubrication hole every 1000 hours running. 每1000小时注黄油一次

7-1	12-2	12-3	12-4	12-5	12-6	12-7
0	0		0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0

Degasser Running Chart

Item	Last Accu. Time	Running Time	Total Accu. Time
Oil			
Lubricating grease			

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher



## MUD AGITATOR 搅拌机

### Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Serial No: \_\_\_\_\_

Rig No: 901 Well No. \_\_\_\_\_

Total Running time(s) \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Control button in the panel is flexible or not  
控制面板按钮是否灵活好用

2. Motor run well or not/any abnormal noise/ temperature  
马达运转情况? 有无杂音/温度怎样?

3. Gear box run well 齿轮箱运转怎样

4. Impeller driving rod condition 叶轮传动杆工况

5. Lubricating oil enough or not, oil quality  
机油油质与油量

6. Any rust outside of body 锈蚀情况

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0

## DEGASSER 除气器

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_ Well No. \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Check vacuum pump and motor are operating properly  
检查真空泵及马达

2. Check if the motor belt loosen 皮带松否

3. Check vacuum pump's oil face, 真空泵油面

4. Change oil every 500 hours running.  
每500小时换油一次

5. Check working pressure 检查工作压力

6. Clean vacuum tank. 洗净真空罐

7. Infuse lubricating grease into lubrication hole every  
1000 hours running. 每1000小时注黄油一次

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0

Degasser Running Chart

Item	Last Accu. Time	Running Time	Total Accu. Time
Oil			
Lubricating grease			

Comments:

## Shale Shaker 振动筛

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 901 Well No. \_\_\_\_\_

### 1. SCOMI 震动筛

SCM4

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Check mud inlet of the shaker 检查进浆槽进浆是否正常

2. Check screen, screen frame and its fixation.  
检查筛布、筛架及固定。

3. Check motor for proper running. 检查震落器是否正常。

4. Check the rise up/down device for normal condition 检查升降装置工作正常

5. Check damping spring. 检查减震弹簧是否完好

6. Check the insulation and maintenance of the motor (F填 in special  
grease every month). 检查电机绝缘保养情况 (每月注专用黄油保养一次)

7. Check the cutting outlet from the shaker 检查出砂是否正常

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0

### 2. SCOMI 震动筛

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Check mud inlet of the shaker 检查进浆槽进浆是否正常

2. Check screen, screen frame and its fixation.  
检查筛布、筛架及固定。

3. Check motor for proper running. 检查震落器是否正常。

4. Check leak of the rise up/down hydraulic oil cylinder.  
检查升降油缸是否漏油。

5. Check damping rubber 检查减震胶皮是否完好

6. Check the insulation of the motor. 检查电机绝缘情况

7. Check the cutting outlet from the shaker 检查出砂是否正常

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0

COMMENT:

Date Completed

Signature: Mech/Elec

Signature

## MUD AGITATOR 搅拌机

### Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Serial No: \_\_\_\_\_

Rig No: 901 Well No. \_\_\_\_\_

Total Running time(s) \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.15 12.16 12.17 12.18 12.19 12.20 12.21

Daily running time

1. Control button in the panel is flexible or not  
控制面板按钮是否灵活好用

2. Motor run well or not/any abnormal noise/ temperature  
马达运转情况? 有无杂音/温度怎样?

3. Gear box run well 齿轮箱运转怎样

4. Impeller driving rod condition 叶轮传动杆工况

5. Lubricating oil enough or not, oil quality  
机油油质与油量

6. Any rust outside of body 锈蚀情况

Date	12.15	12.16	12.17	12.18	12.19	12.20	12.21
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0

## DEGASSER 除气器

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_ Well No. \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.15 12.16 12.17 12.18 12.19 12.20 12.21

Daily running time

1. Check vacuum pump and motor are operating properly  
检查真空泵及马达

2. Check if the motor belt loosen 皮带松否

3. Check vacuum pump's oil face, 真空泵油面

4. Change oil every 500 hours running.  
每500小时换油一次

5. Check working pressure 检查工作压力

6. Clean vacuum tank. 洗净真空罐

7. Infuse lubricating grease into lubrication hole every  
1000 hours running. 每1000小时注黄油一次

Date	12.15	12.16	12.17	12.18	12.19	12.20	12.21
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0

Degasser Running Chart

Item	Last Accu. Time	Running Time	Total Accu. Time
Oil			
Lubricating grease			

Comments:

## MUD AGITATOR 搅拌机

### Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Serial No: \_\_\_\_\_

Rig No: 901 Well No. \_\_\_\_\_

Total Running time(s) \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Control button in the panel is flexible or not  
控制面板按钮是否灵活好用

2. Motor run well or not/any abnormal noise/ temperature  
马达运转情况? 有无杂音/温度怎样?

3. Gear box run well 齿轮箱运转怎样

4. Impeller driving rod condition 叶轮传动杆工况

5. Lubricating oil enough or not, oil quality  
机油油质与油量

6. Any rust outside of body 锈蚀情况

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0

## DEGASSER 除气器

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_ Well No. \_\_\_\_\_

Logogram: 简写: OK好\_0; Repair Needed要修理\_R; Repair Made已做

修理\_M; Mechanic/Electrician Measurement机械师/电器师测量 EM

Date: 12.8 12.9 12.10 12.11 12.12 12.13 12.14

Daily running time

1. Check vacuum pump and motor are operating properly  
检查真空泵及马达

2. Check if the motor belt loosen 皮带松否

3. Check vacuum pump's oil face, 真空泵油面

4. Change oil every 500 hours running.  
每500小时换油一次

5. Check working pressure 检查工作压力

6. Clean vacuum tank. 洗净真空罐

7. Infuse lubricating grease into lubrication hole every  
1000 hours running. 每1000小时注黄油一次

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0

Degasser Running Chart

Item	Last Accu. Time	Running Time	Total Accu. Time
Oil			
Lubricating grease			

Comments:



# Choke Manifold & Remote control unit & BOP WING VALVES

节流管汇 液控箱 及防喷器翼阀

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 01001 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date	12.1	12.2	12.3	12.4	12.5	12.6	12.7
Daily running time							
1 Check remote control unit working pressures 检查液控箱工作压力	0	0	0	0	0	0	0
2 Check steel bottle N2 pressure 检查氮气瓶压力	0	0	0	0	0	0	0
3 Check oil level and quality 检查油面及油质	0	0	0	0	0	0	0
4 Check all air/oil pipe connections 检查所有管线连接	0	0	0	0	0	0	0
5 Check all valves are working properly 是否所有的阀都灵活好用	0	0	0	0	0	0	0
6 Check all valves are in correct position 阀位是否正确	0	0	0	0	0	0	0
7 Check all gauges are working properly 所有压力表的工况	0	0	0	0	0	0	0
8 Any rust outside of body 防腐蚀	0	0	0	0	0	0	0

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# Choke Manifold & Remote control unit & BOP WING VALVES

节流管汇 液控箱 及防喷器翼阀

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 900 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
Daily running time							
1 Check remote control unit working pressures 检查液控箱工作压力	0	0	0	0	0	0	0
2 Check steel bottle N2 pressure 检查氮气瓶压力	0	0	0	0	0	0	0
3 Check oil level and quality 检查油面及油质	0	0	0	0	0	0	0
4 Check all air/oil pipe connections 检查所有管线连接	0	0	0	0	0	0	0
5 Check all valves are working properly 是否所有的阀都灵活好用	0	0	0	0	0	0	0
6 Check all valves are in correct position 阀位是否正确	0	0	0	0	0	0	0
7 Check all gauges are working properly 所有压力表的工况	0	0	0	0	0	0	0
8 Any rust outside of body 防腐蚀	0	0	0	0	0	0	0

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# Choke Manifold & Remote control unit & BOP WING VALVES

节流管汇 液控箱 及防喷器翼阀

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 1001 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date	12.15	12.16	12.17	12.18	12.19	12.20	12.21
Daily running time							
1 Check remote control unit working pressures 检查液控箱工作压力	0	0	0	0	0	0	0
2 Check steel bottle N2 pressure 检查氮气瓶压力	0	0	0	0	0	0	0
3 Check oil level and quality 检查油面及油质	0	0	0	0	0	0	0
4 Check all air/oil pipe connections 检查所有管线连接	0	0	0	0	0	0	0
5 Check all valves are working properly 是否所有的阀都灵活好用	0	0	0	0	0	0	0
6 Check all valves are in correct position 阀位是否正确	0	0	0	0	0	0	0
7 Check all gauges are working properly 所有压力表的工况	0	0	0	0	0	0	0
8 Any rust outside of body 防腐蚀	0	0	0	0	0	0	0

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

# Choke Manifold & Remote control unit & BOP WING VALVES

节流管汇 液控箱 及防喷器翼阀

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 1001 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date	12.22	12.23	12.24	12.25	12.26	12.27	12.28
Daily running time							
1 Check remote control unit working pressures 检查液控箱工作压力	0						
2 Check steel bottle N2 pressure 检查氮气瓶压力	0						
3 Check oil level and quality 检查油面及油质	0						
4 Check all air/oil pipe connections 检查所有管线连接	0						
5 Check all valves are working properly 是否所有的阀都灵活好用	0						
6 Check all valves are in correct position 阀位是否正确	0						
7 Check all gauges are working properly 所有压力表的工况	0						
8 Any rust outside of body 防腐蚀	0						

## Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## DRAWWORKS 绞车

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9031 Well No. \_\_\_\_\_  
Serial No: \_\_\_\_\_ Total Running time(h):

Logogram: 简写: OK好 0: Repair Needed要修理 R: Repair Made已做

修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 12-1 12-2 12-3 12-4 12-5 12-6 12-7

Daily running time

Check all the bolts and nuts for proper tightness once a well

所有螺栓螺母的上紧情况 (每口井一次)

Does cooling water pressure correct(0.35MPa)?

冷却水压力 0.35MPa

Check oil quality(conduct oil sampling every 6 months) and

quantity, oil pressure is between 30 and 60 PSI

机油足够, 油质(或送检油样) 合格, 油压30-60PSI

Do high and low speed hydrosphere cock leak?

导气龙头漏气否

Check all bearings lubricating and temperature

轴承润滑情况及温度

Check brake band once a well (&lt;16mm)

每口井检查刹车带磨损 (大于16mm更换)

Check rim wear once a well (&lt;6mm)

每口井检查轮毅磨损 (大于6mm更换)

Check chains safety pin and wear

检查链条及磨损

Check crown o-matic 检查防碰天车

Date Completed \_\_\_\_\_ Signature: Mech/Elec \_\_\_\_\_ Signature: Toolpusher \_\_\_\_\_

## DRAWWORKS 绞车

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 09031 Well No. \_\_\_\_\_  
Serial No: \_\_\_\_\_ Total Running time(h):

Logogram: 简写: OK好 0: Repair Needed要修理 R: Repair Made已做

修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 12-1 12-2 12-3 12-4 12-5 12-6 12-7

Daily running time

1. Check all the bolts and nuts for proper tightness once a well

所有螺栓螺母的上紧情况 (每口井一次)

2. Does cooling water pressure correct(0.35MPa)?

冷却水压力 0.35MPa

3. Check oil quality(conduct oil sampling every 6 months) and

quantity, oil pressure is between 30 and 60 PSI

机油足够, 油质(或送检油样) 合格, 油压30-60PSI

4. Do high and low speed hydrosphere cock leak?

导气龙头漏气否

5. Check all bearings lubricating and temperature

轴承润滑情况及温度

6. Check brake band once a well (&lt;16mm)

每口井检查刹车带磨损 (大于16mm更换)

7. Check rim wear once a well (&lt;6mm)

每口井检查轮毅磨损 (大于6mm更换)

8. Check chains safety pin and wear

检查链条及磨损

9. Check crown o-matic 检查防碰天车

Date Completed \_\_\_\_\_ Signature: Mech/Elec \_\_\_\_\_ Signature: Toolpusher \_\_\_\_\_

## DRAWWORKS 绞车

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9031 Well No. \_\_\_\_\_  
Serial No: \_\_\_\_\_ Total Running time(h):

Logogram: 简写: OK好 0: Repair Needed要修理 R: Repair Made已做

修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 12-1 12-2 12-3 12-4 12-5 12-6 12-7

Daily running time

1. Check all the bolts and nuts for proper tightness once a well

所有螺栓螺母的上紧情况 (每口井一次)

2. Does cooling water pressure correct(0.35MPa)?

冷却水压力 0.35MPa

3. Check oil quality(conduct oil sampling every 6 months) and

quantity, oil pressure is between 30 and 60 PSI

机油足够, 油质(或送检油样) 合格, 油压30-60PSI

4. Do high and low speed hydrosphere cock leak?

导气龙头漏气否

5. Check all bearings lubricating and temperature

轴承润滑情况及温度

6. Check brake band once a well (&lt;16mm)

每口井检查刹车带磨损 (大于16mm更换)

7. Check rim wear once a well (&lt;6mm)

每口井检查轮毅磨损 (大于6mm更换)

8. Check chains safety pin and wear

检查链条及磨损

9. Check crown o-matic 检查防碰天车

Date Completed \_\_\_\_\_ Signature: Mech/Elec \_\_\_\_\_ Signature: Toolpusher \_\_\_\_\_

## DRAWWORKS 绞车

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 9031 Well No. \_\_\_\_\_  
Serial No: \_\_\_\_\_ Total Running time(h):

Logogram: 简写: OK好 0: Repair Needed要修理 R: Repair Made已做

修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 12-1 12-2 12-3 12-4 12-5 12-6 12-7

Daily running time

1. Check all the bolts and nuts for proper tightness once a well

所有螺栓螺母的上紧情况 (每口井一次)

2. Does cooling water pressure correct(0.35MPa)?

冷却水压力 0.35MPa

3. Check oil quality(conduct oil sampling every 6 months) and

quantity, oil pressure is between 30 and 60 PSI

机油足够, 油质(或送检油样) 合格, 油压30-60PSI

4. Do high and low speed hydrosphere cock leak?

导气龙头漏气否

5. Check all bearings lubricating and temperature

轴承润滑情况及温度

6. Check brake band once a well (&lt;16mm)

每口井检查刹车带磨损 (大于16mm更换)

7. Check rim wear once a well (&lt;6mm)

每口井检查轮毅磨损 (大于6mm更换)

8. Check chains safety pin and wear

检查链条及磨损

9. Check crown o-matic 检查防碰天车

Date Completed \_\_\_\_\_ Signature: Mech/Elec \_\_\_\_\_ Signature: Toolpusher \_\_\_\_\_



## BOP (封井器)

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9201 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Daily running time

- 1 Check all pipe connections, no leaking  
检查各连接管线, 有无泄露
- 2 Check oil pressure correct, pipe ram 1500psi, hydro 1000psi 检查工作压力, 闸板1500 PSI, 环形1000
- 3 Check gemel and side door is sealed or not  
检查侧门铰链及侧门密封
- 4 Check all gate valves working properly  
检查各平板阀工作及密封
- 5 Check all flange connections  
检查所有法兰连接螺栓是否松动, 渗漏

Date	12.1	12.2	12.3	12.4	12.5	12.6	12.7
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## Koomy Unit 远控台

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9201 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Daily running time

- 1 Check electric and air pump working condition  
检查电泵气泵的工作
- 2 Check all pressures are correct  
检查所有压力值是否正确
- 3 Have electricity /air /oil leaking  
是否有漏电、油气刺漏
- 4 Check all alarm limit settings, make sure correct  
检查所有的报警极限设置, 确保正确
- 5 Check N<sub>2</sub> bottle pre-charge pressure  
检查氮气的预充压力
- 6 Discharge /suction valves open  
泻压 / 吸入阀打开
- 7 4-way control valves in power position  
三位四通换向阀在动力位置
- 8 Pump switches in auto position  
泵在自动位置
- 9 Shear rams /blind rams cover in place  
剪切闸板 / 全封盖子是否盖好
- 10 Accumulator isolation valve open  
储能器隔离阀打开
- 11 Air supply valves to pumps open  
气泵气源打开

Date	12.1	12.2	12.3	12.4	12.5	12.6	12.7
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## BOP (封井器)

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: \_\_\_\_\_ Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Daily running time

- 1 Check all pipe connections, no leaking  
检查各连接管线, 有无泄露
- 2 Check oil pressure correct, pipe ram 1500psi, hydro 1000psi 检查工作压力, 闸板1500 PSI, 环形1000
- 3 Check gemel and side door is sealed or not  
检查侧门铰链及侧门密封
- 4 Check all gate valves working properly  
检查各平板阀工作及密封
- 5 Check all flange connections  
检查所有法兰连接螺栓是否松动, 渗漏

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## Koomy Unit 远控台

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No: 9201 Well No. \_\_\_\_\_

Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM

Daily running time

- 1 Check electric and air pump working condition  
检查电泵气泵的工作
- 2 Check all pressures are correct  
检查所有压力值是否正确
- 3 Have electricity /air /oil leaking  
是否有漏电、油气刺漏
- 4 Check all alarm limit settings, make sure correct  
检查所有的报警极限设置, 确保正确
- 5 Check N<sub>2</sub> bottle pre-charge pressure  
检查氮气的预充压力
- 6 Discharge /suction valves open  
泻压 / 吸入阀打开
- 7 4-way control valves in power position  
三位四通换向阀在动力位置
- 8 Pump switches in auto position  
泵在自动位置
- 9 Shear rams /blind rams cover in place  
剪切闸板 / 全封盖子是否盖好
- 10 Accumulator isolation valve open  
储能器隔离阀打开
- 11 Air supply valves to pumps open  
气泵气源打开

Date	12.8	12.9	12.10	12.11	12.12	12.13	12.14
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher



## BOP (封井器)

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 901 Well No. \_\_\_\_\_Logogram: 简写: OK好 O: Repair Needed要修理 R: Repair Made已做  
修理 M: Mechanic/Electrician Measurement机械师/电器师测量 EMDate: 12.15 12.16 12.17 12.18 12.19 12.20  
Daily running time

- 1 Check all pipe connections, no leaking  
检查各连接管线, 有无泄漏
- 2 Check oil pressure correct, pipe ram 1500psi/hydro  
1000psi 检查工作压力, 闸板1500 PSI, 环形1000
- 3 Check gemel and side door is sealed or not  
检查侧门铰链及侧门密封
- 4 Check all gate valves working properly  
检查各平板阀工作及密封
- 5 Check all flange connections  
检查所有法兰连接螺栓是否松动, 泄漏

Date	12.15	12.16	12.17	12.18	12.19	12.20
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0

## Comments:

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## Koomy Unit 远控台

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 901 Well No. \_\_\_\_\_Logogram: 简写: OK好 O: Repair Needed要修理 R: Repair Made已做  
修理 M: Mechanic/Electrician Measurement机械师/电器师测量 EMDate: 12.16 12.16 12.17 12.18 12.19 12.20  
Daily running time

- 1 Check electric and air pump working condition  
检查电泵气泵的工作
- 2 Check all pressures are correct  
检查所有压力值是否正确
- 3 Have electricity /air /oil leaking  
是否有漏电、漏气、漏油
- 4 Check all alarm limit settings, make sure correct  
检查所有的报警极限设置, 确保正确
- 5 Check N<sub>2</sub> bottle pre-charge pressure  
检查氮气瓶的预充压力
- 6 Discharge /suction valves open  
污压 / 吸入阀打开
- 7 4-way control valves in power position  
三位四通换向阀在动力位置
- 8 Pump switches in auto position  
泵在自动位置
- 9 Shear rams /blind rams cover in place  
剪切闸板 / 全封闸板是否盖好
- 10 Accumulator isolation valve open  
储能器隔离阀打开
- 11 Air supply valves to pumps open  
气泵气源打开

Date	12.16	12.16	12.17	12.18	12.19	12.20
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0

## Comments:

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## BOP (封井器)

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 901 Well No. \_\_\_\_\_Logogram: 简写: OK好 O: Repair Needed要修理 R: Repair Made已做  
修理 M: Mechanic/Electrician Measurement机械师/电器师测量 EMDate: 12.22 12.23 12.24 12.25 12.26 12.27  
Daily running time

- 1 Check all pipe connections, no leaking  
检查各连接管线, 有无泄漏
- 2 Check oil pressure correct, pipe ram 1500psi/hydro  
1000psi 检查工作压力, 闸板1500 PSI, 环形1000
- 3 Check gemel and side door is sealed or not  
检查侧门铰链及侧门密封
- 4 Check all gate valves working properly  
检查各平板阀工作及密封
- 5 Check all flange connections  
检查所有法兰连接螺栓是否松动, 泄漏

Date	12.22	12.23	12.24	12.25	12.26	12.27
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0

## Comments:

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## CROWN BLOCK天车

## Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 901 Well No. \_\_\_\_\_

Serial No: \_\_\_\_\_

Total Running time(h): \_\_\_\_\_

Logogram: 简写: OK好 O: Repair Needed要修理 R: Repair Made已做  
修理 M: Mechanic/Electrician Measurement机械师/电器师测量 EMDate: 12.1 12.1 12.2 12.3 12.4 12.5 12.6 12.7  
Daily running time

1. Check every sheave, it rotate freely or not  
检查每一滑轮运转是否自如
2. Check tightening bolts 固定螺栓松紧  
3. Handrails in place and in good condition  
栏杆完好
4. Safety guards distorted or not  
防护装置有无损坏
5. Check grease in every bearing  
每一个轴承的润滑情况
6. Check bearings temperature less than 50 celsius degree  
检查轴承温度是否大于50摄氏度
7. Any rust outside of the body 表面锈蚀
8. Lubricate crow block with #2 lithium-base grease  
once a well. 天车滑轮每口井注润滑脂

Date	12.1	12.1	12.2	12.3	12.4	12.5	12.6	12.7
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0

## Comments:

Date Completed \_\_\_\_\_

Signature: Mech/Elec \_\_\_\_\_

Signature: Toolpusher \_\_\_\_\_

## CROWN BLOCK 天车

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.8 12.9 12.10 12.11 12.12 12.13  
 Daily running time: \_\_\_\_\_

1. Check every sheave, it rotate freely or not 检查每一滑轮运转是否自如	0	0	0	0	0	0	0
2. Check tightening bolts 固定螺栓松紧	0	0	0	0	0	0	0
3. Handrails in place, and in good condition 栏杆完好	0	0	0	0	0	0	0
4. Safety guards distorted or not 防护装置有无损坏	0	0	0	0	0	0	0
5. Check grease in every bearing 每一个轴承的润滑情况	0	0	0	0	0	0	0
6. Check bearings temperature, less than 50 celsius degree 检查轴承温度是否大于50摄氏度	0	0	0	0	0	0	0
7. Any rust outside of the body 表面锈蚀	0	0	0	0	0	0	0
8. Lubricate crow block with #2 lithium-base grease once a well. 天车滑轮每口井注润滑油	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## CROWN BLOCK 天车

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.8 12.9 12.10 12.11 12.12 12.13  
 Daily running time: \_\_\_\_\_

1. Check every sheave, it rotate freely or not 检查每一滑轮运转是否自如	0	0	0	0	0	0	0
2. Check tightening bolts 固定螺栓松紧	0	0	0	0	0	0	0
3. Handrails in place, and in good condition 栏杆完好	0	0	0	0	0	0	0
4. Safety guards distorted or not 防护装置有无损坏	0	0	0	0	0	0	0
5. Check grease in every bearing 每一个轴承的润滑情况	0	0	0	0	0	0	0
6. Check bearings temperature, less than 50 celsius degree 检查轴承温度是否大于50摄氏度	0	0	0	0	0	0	0
7. Any rust outside of the body 表面锈蚀	0	0	0	0	0	0	0
8. Lubricate crow block with #2 lithium-base grease once a well. 天车滑轮每口井注润滑油	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## MCC Controls

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.1 12.2 12.3 12.4 12.5 12.6 12.7  
 Daily running time: \_\_\_\_\_

1. Inspect interior of MCC Control Center for dust, dirt, etc, clean MCC Control Center with a vacuum if necessary	0	0	0	0	0	0	0
2. Inspect all components of switchgear for operating well	0	0	0	0	0	0	0
3. Inspect tags on the panel is correct	0	0	0	0	0	0	0
4. Inspect switchgear for locking or unlocking flexibly	0	0	0	0	0	0	0

## Cable and Wire

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.1 12.2 12.3 12.4 12.5 12.6 12.7  
 Daily running time: \_\_\_\_\_

1. Inspect all cable and wiring for mechanical damage	0	0	0	0	0	0	0
2. Inspect all terminations to lugs, connector, or compression devices	0	0	0	0	0	0	0
3. Remove any grease, oil, or chemicals from the wiring insulation	0	0	0	0	0	0	0
4. Protect any cables that are not covered in traffic area	0	0	0	0	0	0	0
5. Replace any tie wraps or supports that become defective	0	0	0	0	0	0	0
6. Inspect junction boxes that are frequently used	0	0	0	0	0	0	0
7. Inspect for signs of arcing at points of connection or where cuts or fraying are detected	0	0	0	0	0	0	0

Comments:

12.6

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

## MCC Controls

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.8 12.9 12.10 12.11 12.12 12.13  
 Daily running time: \_\_\_\_\_

1. Inspect interior of MCC Control Center for dust, dirt, etc, clean MCC Control Center with a vacuum if necessary	0	0	0	0	0	0	0
2. Inspect all components of switchgear for operating well	0	0	0	0	0	0	0
3. Inspect tags on the panel is correct	0	0	0	0	0	0	0
4. Inspect switchgear for locking or unlocking flexibly	0	0	0	0	0	0	0

## Cable and Wire

### Preventive Maintenance Service

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_ Rig No: 901 Well No. \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Total Running time(h): \_\_\_\_\_  
 Logogram: 简写: OK好 O Repair Needed要修理 R Repair Made已做  
 修理 M: Mechanic/Electrician Measurement 机械师/电器师测量 EM  
 Date: 12.8 12.9 12.10 12.11 12.12 12.13  
 Daily running time: \_\_\_\_\_

1. Inspect all cable and wiring for mechanical damage	0	0	0	0	0	0	0
2. Inspect all terminations to lugs, connector, or compression devices	0	0	0	0	0	0	0
3. Remove any grease, oil, or chemicals from the wiring insulation	0	0	0	0	0	0	0
4. Protect any cables that are not covered in traffic area	0	0	0	0	0	0	0
5. Replace any tie wraps or supports that become defective	0	0	0	0	0	0	0
6. Inspect junction boxes that are frequently used	0	0	0	0	0	0	0
7. Inspect for signs of arcing at points of connection or where cuts or fraying are detected	0	0	0	0	0	0	0

Comments:

12.14

Date Completed

Signature: Mech/Elec

Signature: Toolpusher

**Preventive Maintenance Service, Ensure adequate safety precautions while work is being performed.**

**Logogram:** 保养; 维护; Repair needed要修理 R; Konnar Made已就 修理 M

**Mechanic/Electrician Measurements机械师、电器师测量**

**Well number:**





## VFD Control

### Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 1207

Well No. \_\_\_\_\_

Legend: 良好 OK; Repair Needed 要修理 R; Repair Made 已修

修理 M; Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 日期	12.15	12.16	12.17	12.18	12.19	12.20	12.21
1. Inspect exterior surfaces of panels for dirt, grease, oil or physical damage.	0	0	0	0	0	0	0
2. Inspect interior for dust, dirt, oil, grease, metal, water or corrosion.	0	0	0	0	0	0	0
3. Inspect all air filters for cleanliness; clean or replace as necessary.	0	0	0	0	0	0	0
4. With power off, check for loose hardware in the equipment, preferably during rig moves or down time.	0	0	0	0	0	0	0
5. During rig operation, inspect all meters, instruments and lamps for faulty operation or damage.	0	0	0	0	0	0	0
6. Check all contactor tips for pitting or wear.	0	0	0	0	0	0	0
7. Inspect plugs and connectors for damage or looseness.	0	0	0	0	0	0	0

Comments: 1. 12.15 12.16 12.17 12.18 12.19 12.20 12.21

Date Completed 12.17

Signature: Moch/Elec

Signature: Toolpusher

## VFD Control

### Preventive Maintenance Inspection

Ensure adequate safety precautions while work is being performed (disconnected power)

Equipment No. \_\_\_\_\_

Rig No. 1207

Well No. \_\_\_\_\_

Legend: 良好 OK; Repair Needed 要修理 R; Repair Made 已修

修理 M; Mechanic/Electrician Measurement 机械师/电器师测量 EM

Date 日期	12.22	12.23	12.24	12.25	12.26	12.27	12.28
1. Inspect exterior surfaces of panels for dirt, grease, oil or physical damage.	0	0	0	0	0	0	0
2. Inspect interior for dust, dirt, oil, grease, metal, water or corrosion.	0	0	0	0	0	0	0
3. Inspect all air filters for cleanliness; clean or replace as necessary.	0	0	0	0	0	0	0
4. With power off, check for loose hardware in the equipment, preferably during rig moves or down time.	0	0	0	0	0	0	0
5. During rig operation, inspect all meters, instruments and lamps for faulty operation or damage.	0	0	0	0	0	0	0
6. Check all contactor tips for pitting or wear.	0	0	0	0	0	0	0
7. Inspect plugs and connectors for damage or looseness.	0	0	0	0	0	0	0

Comments:

Date Completed

Signature: Moch/Elec

Signature: Toolpusher



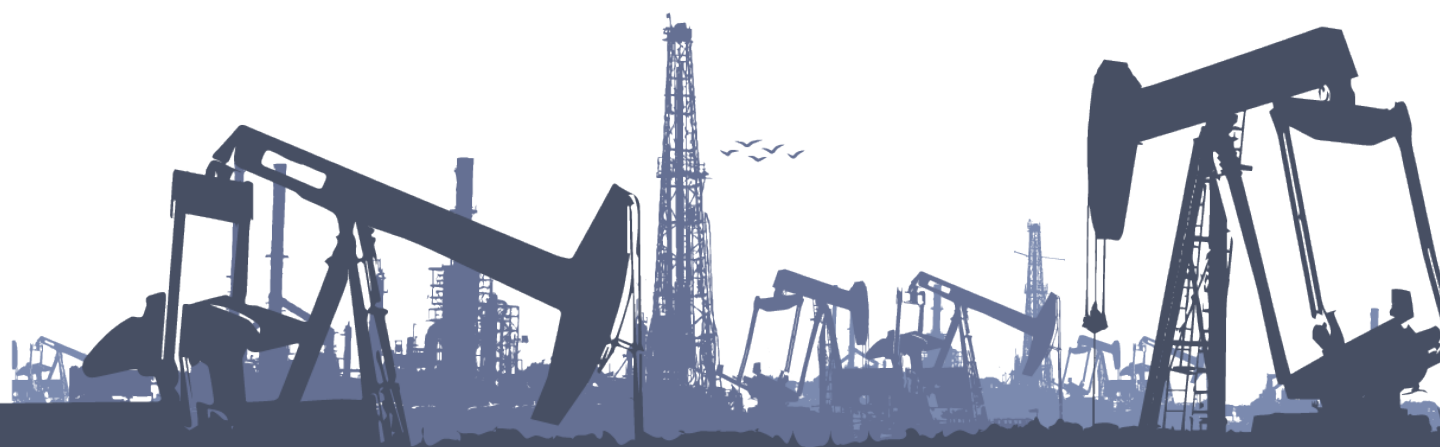
## ระยะดำเนินการผลิต


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# แบบฟอร์มการตรวจสอบเครื่องจักรอุปกรณ์

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 <b>HSE Wellsite Audit</b>				<b>Well Name (ชื่อน้ำมัน) :</b> <b>Date (วันที่):</b>					
<b>รายการที่ต้องตรวจเช็ค Checklist</b>				<b>Good</b> <b>ปกติ</b>	<b>Broken</b> <b>ผิดปกติ</b>	<b>รายละเอียดการ</b> <b>ผิดปกติ Broken</b> <b>Condition Description</b>	<b>การทำการ</b> <b>แก้ไข</b> <b>Corrective</b> <b>actions required</b>	<b>ผู้รับผิดชอบ</b> <b>Respondent</b>	<b>เสร็จวันที่</b> <b>Estimated</b> <b>close out date</b>
<b>แหล่งพลังงาน Power supply</b>									
1	Power cord สายไฟ ตรวจสอบว่ามีรอยฉีกขาด หรือไหม้								
2	Ground wire สายดิน มีการต่อสายดิน และ สายไฟกับแท่งสายดินต้องไม่มีหลุด หรือมีการฉีกขาดของสายไฟ								
3	Power plug extension ปลั๊กไฟ ตรวจสอบ ว่ามีรอยแตก หรือรอยไหม้ ปลั๊กกับเต้าเสียบ ต่อกันแน่นสนิท								
4	Cable tray รางสายไฟ ตรวจสอบรางสายไฟต้อง ไม่มีบิดเบี้ยวหรือแบน สายไฟ ต้องวางอยู่บนรางไม่หลุดออกมาข้างนอก								
<b>หัวหลุม Wellhead</b>									
5	Wellhead valve & stuffing box. วาล์วหัวหลุม ตรวจสอบวาล์วต่างๆ และ สดไฟฟุ้ง บล็อกสที่หัวหลุม ต้องไม่มีการรั่วซึม ปิดได้สนิท ตามจับต่าง ๆ ต้องอยู่ครบ								
6	Wellhead nameplate. มีป้ายบอกชื่อที่หัวหลุม								
7	Sampling point จุดเก็บตัวอย่าง วาล์วปิดสนิทไม่มีการรั่วซึม และมีการระบายน้ำมันและสกปรกอยู่ตรงพื้นบริเวณที่เก็บหรือไม่								
8	Cellar grating ตะแกรงพื้นหัวบ่อ มีการติดตั้งไว้ให้ครบทุกหลุม หรือไม่ รวมทั้งหลุมที่ยังไม่มีได้ชุดเจาะด้วย อันที่มือยกก็ต้องปิดสนิท แข็งแรง ไม่มีรั่วให้ร่วงตกหล่น และควรตรวจดู รอยผ หรือสนิม								
9	Mouse hole grating ตะแกรงพื้นเมาส์โฮล มีการติดตั้งไว้ให้ครบทุกหลุม หรือไม่ รวมทั้งหลุมที่ยังไม่มีได้ชุดเจาะด้วย อันที่มือยกก็ต้องปิดสนิท แข็งแรง ไม่มีรั่วให้ร่วงตกหล่น และควรตรวจดู รอยผ								
10	Cellar หลุมใต้หัวบ่อ มีช่องเหลว น้ำมันสกปรก ซิงอยู่หรือไม่ ระดับ ช่องเหลวหรือ น้ำมันซึ่งสูงมากน้อยเท่าไร								
11	Flow line piping ท่อผลิตมีการรั่วซึมหรือไม่ รอยต่อข้อต่อต่าง ๆ แน่นสนิทหรือไม่								
<b>บริเวณ แทงค์ผลิต Storage tank area</b>									
12	Storage tank แทงค์ผลิต มีการรั่วซึมหรือไม่ บันไดมี ราวจับ และ สายดินต่างๆ มีติดตั้งไว้และอยู่ในสภาพดี หรือไม่								
13	Stack Storage tank ปล่องควันแทงค์ผลิต ใช้งานได้ดี หรือไม่								
14	Storage tank Burner เบอรันเนอร์ ที่แทงค์ผลิต ใช้งานได้ตามปกติ ไม่รั่ว								
15	Storage bundle แผงคอนกรีตรอบบริเวณ แทงค์ผลิต มีครบทุกด้านและ อยู่ในสภาพดีหรือไม่ ต้องไม่มีการแตก กระเทาะของปูน และการเจาะรู เพื่อป้องกันน้ำมันไหลออกนอกบริเวณ								
<b>บริเวณโหลดน้ำมัน Loading Bay</b>									
16	Ground rod แท่งและสายดินถูกติดตั้งไว้ถูกต้อง และไม่มีขาด หรือชำรุด								
17	Loading arm จวงโหลด สามารถหมุนอย่างสมดุลย์และใช้งานได้ตามปกติ หรือไม่ ต้องไม่หย่อนห้อย สามารถ หมุนเก็บได้อย่างถูกต้อง								
18	Concrete pad ลานคอนกรีต ต้องไม่แตก และไม่มีสิ่งกีดขวางเส้นทางการรถ และ ไม่มีคราบน้ำมันหยดเปรี้ยว								
<b>สภาพแวดล้อมหัวบริเวณ Site location environment</b>									
19	Fence รั้วรอบอาณาเขต เสาร์ต้องตั้งตรง และลดทนาม ไม่ถ่าง และ ขาด								
20	Main Gate ประตูทางเข้า มีป้อมยาม, ประตูกัน และยามมาประจำสถานที่ หรือไม่ ป้ายชื่อหลุม และป้ายเตือนต่างๆ ต้องมีครบ และอยู่ในสภาพดี ไม่แตกหัก สดหาย								
21	Waste pit ป่อพักน้ำเสีย ตรวจสอบสภาพบ่อคอนกรีต ต้องไม่แตกร้าวรั่วซึม และไม่มีขยะ								
22	Drainage & Oil trap ร่องระบายน้ำ และ บ่อดักไขมัน อยู่ในสภาพดีหรือไม่ ต้องไม่แตกหัก และไม่มีสิ่งกีดขวางเส้นทางน้ำไหล								
23	Flare bund & shield แนวกันไฟแฟลร์ พื้นและแนวกันต้องเป็นปูน ไม่มีการเจาะรู และ สามารถกันไม่ให้น้ำมันรั่วไหลลงสู่พื้นได้ สังเกตสีกันไฟ ควรอยู่ในสภาพที่ดี ไม่ผพัง หลุดลย และมี สลิ่ง								
24	Oil spill spot คราบน้ำมัน พบเห็นมีคราบน้ำมันหยด ตามพื้นรอบๆ อาณาบริเวณ หรือไม่ โดยเฉพาะบริเวณที่โหลดน้ำมัน และ บริเวณที่วางเครื่องปั้นไฟ								
25	Spill cleaning kits อุปกรณ์ทำความสะอาดคราบน้ำมันต้องมีอยู่ครบ และพร้อมใช้งาน ได้แก่ พลังกระแบ่ง ถังทราย และผ้าดูดซับคราบน้ำมัน								
26	Waste bin มีถังขยะอยู่ภายในอาณาบริเวณ 2 ชนิด คือ ถังขยะทั่วไป และ ถังขยะปนเปื้อน ขยะที่นำมาทิ้ง ต้องคัดแยก และทิ้งลงถังให้ถูกประเภท								
27	Well site good housekeeping บริเวณบ่อผลิตไม่มีขยะและจัดของเป็นระเบียบ								
28	Toilet ห้องน้ำอยู่ในสภาพใช้งานได้ดี สะอาด								
29	Tree Planting มีการปลูกต้นไม้รอบอาณาบริเวณ								
<b>อุปกรณ์ ความปลอดภัย Safety Equipment</b>									
30	Fire Extinguisher ถังดับเพลิง อยู่ในสภาพพร้อมใช้งาน และตรวจดูแรงดันจากเกจว่ามีอยู่ในระดับที่ใช้งานได้								
31	First aid box & Eye washer ตู้ยาและ ที่ล้างตาฉุกเฉิน ต้องมียาและน้ำล้าง และอยู่ในสภาพพร้อมใช้งาน								
32	Wind sock & Safety sign กรวยลม อยู่ในสภาพดีไม่ขาด ป้ายความปลอดภัยอยู่ในสภาพที่ดีไม่ชำรุดเสียหาย								
33	PPE. พนักงานที่ปฏิบัติงานสวมใส่อุปกรณ์ความปลอดภัยครบ								
34	Access road ถนนพื้นที่ในบ่อผลิต ไม่เสียหาย								

# ตัวอย่างการติดตามตรวจสอบ และซ่อมบำรุงของเจ้าหน้าที่

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## FLARE SYSTEM CHECKLIST

DATE: 9-2-22  
LOCATION: BAN-5B

## MECHANICAL ENGINEERING DOCUMENT

DOC No.

PROJECT NO.		AREA		REVISION	0
TAG NO.		SYSTEM		SHEET	

## CHECKING PROCEDURE:

- 1) Prepare permit to work and necessity facilities to work
- 2) Prepare equipment which is used for work preventive maintenance
- 3) Onsite PM practice by recognising & strict to HSE commandment
- 4) Take recording the inspection results in table below
- 5) Check the work area clean and tidy then call to Production Operator sign close permit to work document

JOB TASK	INSPECTED	
	YES	NO
<b>1 PHYSICAL &amp; VISUAL CHECK</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบสภาพของระบบ	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.1 Check flare piping system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบระบบท่อระบายความดันไปสู่หอเผาทั้ง	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.2 Check flare tip and flare pilot	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบปลายปล่องที่เป็นจุดเผาก๊าซและระบบหัวล่อ	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.3 Check flare knock out drum & water seal drum/flare arrestor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบถังแยกของเหลวและ ถังหรืออุปกรณ์ป้องกันไฟย้อน	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.4 Check flare bund wall/pit and drainage system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบผนังกันขบ่หอเผาทั้งและระบบระบายน้ำ	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.5 Check flare shield/enclosure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบผนังกันหอเผาทั้ง	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.6 Check flare shield/enclosure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ตรวจสอบผนังกันหอเผาทั้ง	<input type="checkbox"/>	<input type="checkbox"/>
<b>2 PRESSURE TEST FOR PIPING SYSTEM (IF ANY)</b>		
2.1 Pressure test at ..... Psig (if any)		
ทดสอบโดยใช้ความดัน (ถ้ามี)		

Remark:

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TEST / VERIFIED BY	FOREMAN WITNESS BY	ENGINEER VERIFIED BY	
DATE : 9-2-22	DATE :	DATE : 9/2/22	



ภาคผนวก จ-3

การฝึกอบรมด้านอาชีพอนามัยและความปลอดภัย

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## ระยะเจาะหลุมผลิตปิโตรเลียม

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	<h1>ATTENDANCE RECORD</h1>	Form No. HSE-FM-014
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**Date:** 25 August 2021
**Coordinator:** \_\_\_\_\_

**Subject:** Safety Orientation –  
Construction Contractor *BRN-7*

	Attendee's Name	Company / Department	Signature
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**Instructed by:** Anucha Suphenporn - HSE Officer

