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IADC 2018 Africa Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>32,146,957</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>26</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>151</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>88</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>3</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>268</td>
</tr>
</tbody>
</table>

- MTO Incidence Rate = 0.16
- RWC Incidence Rate = 0.94
- LTI Incidence Rate = 0.57
- LTI Frequency Rate = 2.83
- DART Incidence Rate = 1.51
- DART Frequency Rate = 7.53
- Recordable Incidence Rate = 1.67
- Recordable Frequency Rate = 8.34

Companies Reporting: Land – 13

- Medical Treatment Incidence Rate = MTOs X 200,000
- Restricted Work Incidence Rate = RWCs X 200,000
- Lost Time Incidence Rate = LTIs + FTLs X 200,000
- DART Incidence Rate = LTIs + RWC X 200,000
- Recordable Incidence Rate = RCRD X 200,000
- Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
- DART Frequency Rate = LTIs + RWC X 1,000,000
- Recordable Frequency Rate = RCRD X 1,000,000

Africa Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2018 Africa Land Charts
Africa Land Total Lost Time Incidents by Month (Chart 1)
Based on 88 Incidents

- January: 4.55%
- February: 7.95%
- March: 3.41%
- April: 11.36%
- May: 4.55%
- June: 9.09%
- July: 10.23%
- August: 7.95%
- September: 9.09%
- October: 9.09%
- November: 9.09%
- December: 13.64%
Africa Land Total Recordable Incidents by Month (Chart 2)
Based on 264 Incidents

- December: 7.58%
- November: 8.33%
- October: 8.71%
- September: 8.71%
- August: 8.33%
- July: 10.23%
- June: 10.23%
- May: 6.06%
- April: 9.85%
- March: 5.68%
- February: 8.33%
- January: 6.44%

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Africa Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 88 Incidents

- Roustabout (Lease Hand): 30.68%
- Floorman: 32.95%
- Derrickman: 10.23%
- Driller (Asst. Dr.): 5.68%
- Toolpusher / Tourpusher: 4.55%
- Electrician: 1.14%
- Superintendent / other Supervisors: 1.14%
- Crane / Forklift Operator: 1.14%
- Mechanic: 7.95%
- Electrician: 1.14%
- Rig Helper: 1.14%
- Maintenance Sup.: 1.14%
- Welder: 2.27%
- Mechanic: 7.95%
- Crane / Forklift Operator: 1.14%
- Mechanic: 7.95%
- Electrician: 1.14%
- Superintendent / other Supervisors: 1.14%
- Rig Helper: 1.14%
- Maintenance Sup.: 1.14%
- Welder: 2.27%
Africa Land Total Recordable Incidents by Occupation (Chart 4)
Based on 264 Incidents

- Floorman: 33.33%
- Derrickman: 11.74%
- Driller (Asst. Dr.): 7.95%
- Derrickman: 11.74%
- Floorman: 33.33%
- Roustabout (Lease Hand): 27.27%
- Electrician: 3.41%
- Toolpusher / Tourpusher: 4.55%
- Mechanic: 7.58%
- Superintendent / other Supervisors: 0.76%
- Rig Helper: 0.76%
- Catering / Camp Personnel: 0.38%
- Welder: 1.52%
- Maintenance Sup.: 0.38%
- Crane / Forklift Operator: 0.38%
Africa Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 88 Incidents

- Eyes (eyelid) 1.14%
- Head 6.82%
- Back 10.23%
- Trunk/Torso (chest, abdomen, groin) 4.55%
- Arm(s) 4.55%
- Leg(s) 6.82%
- Feet/Ankles 14.77%
- Shoulder(s) 4.55%
- Knee(s) 4.55%
- Hand(s) / Wrist(s) 9.09%
- Finger(s) 32.95%
Africa Land Total Recordable Incidents by Body Part (Chart 6)
Based on 264 Incidents

- Elbow(s) 1.52%
- Knee(s) 3.79%
- Digestive/Internal 0.38%
- Shoulder(s) 4.17%
- Neck 0.38%
- Feet/Ankles 14.77%
- Leg(s) 4.92%
- Back 8.71%
- Trunk/Torso (chest, abdomen, groin) 4.92%
- Arm(s) 5.30%
- Hand(s) / Wrist(s) 9.47%
- Finger(s) 28.79%
- Head 9.47%
- Eyes (eyelid) 3.41%

Elbow(s) 1.52%
Knee(s) 3.79%
Digestive/Internal 0.38%
Shoulder(s) 4.17%
Neck 0.38%
Feet/Ankles 14.77%
Leg(s) 4.92%
Back 8.71%
Trunk/Torso (chest, abdomen, groin) 4.92%
Arm(s) 5.30%
Hand(s) / Wrist(s) 9.47%
Head 9.47%
Eyes (eyelid) 3.41%
Africa Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 88 Incidents

- Caught Between/In: 22.73%
- Struck By: 36.36%
- Sprain: 1.14%
- Contact With Chemicals/Fluids: 1.14%
- Strain/Overexertion: 9.09%
- Slip/Fall: Different Level: 13.64%
- Slip/Fall: Same Level: 9.09%
- Struck Against: 6.82%
Africa Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 263 Incidents

- Struck By: 35.74%
- Caught Between/In: 22.43%
- Struck Against: 7.22%
- Slip/Fall: Same Level: 12.17%
- Slip/Fall: Different Level: 8.37%
- Strain/Overexertion: 6.08%
- Contact With Chemicals/Fluids: 1.52%
- Debris: 1.90%
- Flame/heat/steam (contact/exposed): 1.14%
- Cut: 1.14%
- Exposure to Weather: 0.38%
- Vehicle: 0.38%
- Chemical Inhalation: 0.76%
- Sprain: 0.38%
- Jump: 0.38%
- Struck By: 35.74%
- Vehicle: 0.38%
- Chemical Inhalation: 0.76%
- Sprain: 0.38%
- Jump: 0.38%
- Struck Against: 7.22%
- Slip/Fall: Same Level: 12.17%
- Slip/Fall: Different Level: 8.37%
- Strain/Overexertion: 6.08%
- Contact With Chemicals/Fluids: 1.52%
- Debris: 1.90%
- Flame/heat/steam (contact/exposed): 1.14%
Africa Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 83 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 3.61%
- Tongs: 14.46%
- Elevators: 2.41%
- Slips (drill collar clamp): 2.41%
- Pipes/Collars/Tubulars/Csg.: 22.89%
- Slings (rope, cable, chain, web): 6.02%
- Engines/Pumps/Machinery: 8.43%
- Hand Tools: Manual: 8.43%
- Hand Tools: Manual: 8.43%
- Pressure Hoses/Lines: 3.61%
- Decks (grating, walkway): 3.61%
- Well Control (BOP) Stack (well head, tree): 2.41%
- Stairs: 2.41%
- Chemicals (sack, drum, pail, bulk hopper): 2.41%
- Crane: 2.41%
- Material: 14.46%
Africa Land Total Recordable Incidents by Equipment (Chart 10)
Based on 251 Incidents

- Boat Cargo (skids, tubulars, containers, etc.): 0.80%
- Rig Floor Winch/Deck Winch (air/hydraulic): 1.59%
- Anchor Chains/Cables/Winches: 0.40%
- Decks (grating, walkway): 1.59%
- Welding, Cutting, Grinding Equipment: 0.80%
- Boats Cargo (skids, tubulars, containers, etc.): 0.80%
- Top Drive (blocks, swivel, kelly): 0.80%
- Anchor Chains/Cables/Winches: 0.40%
- Pressure Hoses/Lines: 2.39%
- Material: 9.56%
- Well Control (BOP) Stack (well head, tree): 2.79%
- Stairs: 2.79%
- Welding, Cutting, Grinding Equipment: 0.80%
- Material: 9.56%
- Forklift: 1.20%
- Crane: 2.79%
- Winch Truck: 0.40%
- Pressure Hoses/Lines: 2.39%
- Engines/Pumps/Machinery: 5.58%
- Hand Tools: Power: 0.40%
- Hand Tools: Manual: 10.76%
- Slings (rope, cable, chain, web): 8.76%
- Slips: 0.40%
- Helicopter: 0.40%
- Tongs: 15.94%
- Elevators: 3.59%
- Slips (drill collar clamp): 3.59%
- Pipes/Collars/Tubulars/Csg.: 20.32%
- Piping/Collars/Tubulars/Csg.: 20.32%
Africa Land Total Lost Time Incidents by Operation (Chart 11)
Based on 85 Incidents

Mud Mixing/Pumping
3.53%

Special Operations (wireline, perforating, etc.)
1.18%

Walking
2.35%

Tripping in/out (makeup/brakeout BHA, test tools, etc.)
12.94%

Rig/Equipment Repairs or Maintenance
11.76%

Well Control (BOP) Stack (well head/tree) Install/Maintenance
3.53%

Rigging Up/Down (rig move preparation, rig move)
14.12%

Material Handling: Rig Floor Winch
5.88%

Material Handling: Crane/Cherry Picker
3.53%

Material Handling: Manual
11.76%

Routine Drilling Operations
10.59%

Running Casing/Tubing (rig up/down csg. tools)
8.24%

Laying Down/Picking up Pipe/Tubulars
5.88%

Making Connection
4.71%

Routine Drilling Operations
10.59%
Africa Land Total Recordable Incidents by Operation (Chart 12)
Based on 257 Incidents

- Rig Move/Towing/Anchor Handling: 1.17%
- Travel/Transportation: 0.39%
- Rig/Equipment Repairs or Maintenance: 10.12%
- Mud Mixing/Pumping: 2.72%
- Special Operations (wireline, perforating, etc.): 0.78%
- Walking: 5.06%
- Painting (painting related tasks): 0.78%
- Material Handling Rig Floor: 3.89%
- Laying Down/Picking up Pipe/Tubulars: 7.00%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.33%
- Rigging Up/Down (rig move preparation, rig move): 8.56%
- Routine Drilling Ops: 15.18%
- Making Connection: 7.39%
- Tripping in/out: 15.18%
- Routine Drilling Ops: 15.18%
Africa Land Total Lost Time Incidents by Location (Chart 13)
Based on 85 Incidents

- Cellar/Substructure/Moonpool: 3.53%
- Living/Camp Areas/Accommodations: 1.18%
- Work Rooms (change house, storage house/room): 1.18%
- Mud Mixing Tank/Area: 1.18%
- Pipe Rack/Pipe Deck: 3.53%
- Cherry Picker/Crane: 1.18%
- Forklift: 1.18%
- Rig Floor (rotary, pipe set back area): 43.53%
- Rig Pad/Rig Decks (rig/well site/location, yard): 18.82%
- Engine Room/Generator Room: 2.35%
- Mud Pits/Tanks: 5.88%
- Mud Pump Room: 3.53%
- Catwalk/V-door: 3.53%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 4.71%
- Catwalk/V-door: 3.53%
Africa Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 87 Incidents

- >10 yrs. 19.54%
- >5 yrs. < 10 yrs. 26.44%
- >1 yr. < 5 yrs. 42.53%
- >6 mos. < 1 yr. 6.90%
- >3 mos. < 6 mos. 4.60%
- >6 mos. < 1 yr. 6.90%
- >1 yr. < 5 yrs. 42.53%
Africa Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 263 Incidents

- 10+ yrs.: 20.91%
- >5 yrs. < 10 yrs.: 19.77%
- >1 yr. < 5 yrs.: 47.53%
- >6 mos. < 1 yr.: 7.60%
- >3 mos. < 6 mos.: 2.66%
- 0 mo. < 3 mos.: 1.52%
- 0 mo. < 3 mos.: 1.52%
- >6 mos. < 1 yr.: 7.60%
Africa Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 87 Incidents

12:00 4.60%
13:00 1.15%
14:00 8.05%
21:00 2.30%
20:00 2.30%
19:00 4.60%
22:00 2.30%
23:00 2.30%
24:00:00 1.15%
0:00 1.15%
1:00 4.60%
2:00 1.15%
3:00 5.75%
4:00 8.05%
5:00 8.05%
6:00 1.15%
7:00 8.05%
8:00 2.30%
9:00 8.05%
10:00 11.49%
11:00 6.90%
12:00 4.60%
13:00 1.15%
14:00 8.05%
15:00 5.75%
16:00 4.60%
17:00 8.05%
18:00 1.15%
19:00 4.60%
20:00 2.30%
21:00 2.30%
22:00 2.30%
23:00 2.30%
24:00:00 1.15%
Africa Land Total Lost Time Incidents by Age (Chart 19)
Based on 88 Incidents

- 26 - 35: 54.55%
- 36 - 45: 28.41%
- 46 - 55: 10.23%
- 18 - 25: 6.82%
Africa Land Total Recordable Incidents by Age (Chart 20)
Based on 263 Incidents

- 26 - 35: 59.32%
- 36 - 45: 25.86%
- 46 - 55: 7.98%
- 18 - 25: 6.84%