IADC

IADC
ISP PROGRAM

2014

Summary of Occupational Incidents
(Canada Land Totals)

Issued 15 June 2015
Table of Contents

(Table of Contents is Hyperlinked, Just click on Topic & go)

IADC 2014 CANADA LAND TOTALS (TABLE 1) ................................................................. 1
Canada Land Total Incidence Rates vs Man-hours (Figure 1) ........................................ 1
IADC 2014 CANADA LAND CHARTS .............................................................................. 2
  Canada Land Total Lost Time Incidents by Month (Chart 1) ..................................... 2
  Canada Land Total Recordable Incidents by Month (Chart 2) ................................. 3
  Canada Land Total Lost Time Incidents by Occupation (Chart 3) ......................... 4
  Canada Land Total Recordable Incidents by Occupation (Chart 4) ....................... 5
  Canada Land Total Lost Time Incidents by Body Part (Chart 5) ............................ 6
  Canada Land Total Recordable Incidents by Body Part (Chart 6) ......................... 7
  Canada Land Total Lost Time Incidents by Incident Type (Chart 7) .................... 8
  Canada Land Total Recordable Incidents by Incident Type (Chart 8) ................. 9
  Canada Land Total Lost Time Incidents by Equipment (Chart 9) ....................... 10
  Canada Land Total Recordable Incidents by Equipment (Chart 10) .................... 11
  Canada Land Total Lost Time Incidents by Operation (Chart 12) ....................... 13
  Canada Land Total Recordable Incidents by Operation (Chart 13) .................... 14
  Canada Land Total Lost Time Incidents by Location (Chart 14) ......................... 15
  Canada Land Total Recordable Incidents by Location (Chart 15) .................... 16
  Canada Land Total Lost Time Incidents by Time in Service (Chart 16) .............. 17
  Canada Land Total Recordable Incidents by Time in Service (Chart 17) .......... 18
  Canada Land Total Lost Time Incidents by Time of Day (Chart 18) ................. 19
  Canada Land Total Recordable Incidents by Time of Day (Chart 19) ............. 20
  Canada Land Total Lost Time Incidents by Age (Chart 20) .............................. 21
  Canada Land Total Recordable Incidents by Age (Chart 21) ............................. 22
IADC 2014 CANADA LAND PARTICIPANT DETAIL BY CATEGORY (TABLE 2) .......... 22
IADC 2014 Canada Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Manhours</td>
</tr>
<tr>
<td></td>
<td>Total Medical Treatment Incidents</td>
</tr>
<tr>
<td></td>
<td>Total Restricted Work Incidents</td>
</tr>
<tr>
<td></td>
<td>Total Lost Time Incidents</td>
</tr>
<tr>
<td></td>
<td>Total Fatalities</td>
</tr>
<tr>
<td></td>
<td>Total Recordables</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>1.60</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.44</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.29</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.46</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.73</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>3.64</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>2.33</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>11.66</td>
</tr>
</tbody>
</table>

Companies Reporting: Land – 4

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
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Incidence Rate = LTIs + RWC X 200,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Incidence Rate = RCRD X 200,000
Recordable Frequency Rate = RCRD X 1,000,000

Canada Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2014 Canada Land Charts
Canada Land Total Lost Time Incidents by Month (Chart 1)
Based on 3 Incidents

February 66.67%
September 33.33%
Canada Land Total Recordable Incidents by Month (Chart 2)
Based on 32 Incidents

- December: 3.13%
- November: 12.50%
- October: 21.88%
- September: 9.38%
- July: 9.38%
- June: 3.13%
- April: 3.13%
- March: 6.25%
- February: 21.88%
- January: 9.38%
Canada Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 3 Incidents

Floorman
100.00%
Canada Land Total Recordable Incidents by Occupation (Chart 4)
Based on 26 Incidents

- Floorman 62.50%
- Driller (Asst. Dr.) 9.38%
- Motorman 9.38%
- Derrickman 6.25%
- Toolpusher (Asst.TP, Tourpusher) 6.25%
- Roustabout (Lease Hand) 3.13%
- Other 3.13%
Canada Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 3 Incidents

- Head: 33.33%
- Arm(s): 33.33%
- Elbow(s): 33.33%
Canada Land Total Recordable Incidents by Body Part (Chart 6)
Based on 32 Incidents

- Head: 18.75%
- Back: 6.25%
- Arm(s): 6.25%
- Leg(s): 6.25%
- Feet/Ankles: 6.25%
- Elbow(s): 3.13%
- Other: 12.50%
- Hand(s) / Wrist(s): 9.38%
- Finger(s): 31.25%
Canada Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 32 Incidents

- Struck Against: 6.25%
- Slip/Fall: Same Level: 6.25%
- Slip/Fall: Different Level: 6.25%
- Strain/Overexertion: 3.13%
- Cut: 6.25%
- Sprain: 6.25%
- Caught Between/In: 18.75%
- Struck By: 46.88%
Canada Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 3 Incidents

- Stairs: 33.33%
- Other: 66.67%
Canada Land Total Recordable Incidents by Equipment (Chart 10)
Based on 32 Incidents

- Other: 40.63%
- Forklift: 3.13%
- Winch Truck: 3.13%
- Material: 6.25%
- Well Control (BOP) Stack (well head, tree): 9.38%
- Top Drive (blocks, swivel, kelly): 3.13%
- Hand Tools: Manual: 9.38%
- Tongs: 15.63%
- Elevators: 3.13%
- Stairs: 6.25%
Canada Land Total Lost Time Incidents by Operation (Chart 11)
Based on 3 Incidents

- Rigging Up/Down (rig move preparation, rig move): 66.67%
- Other: 33.33%
Canada Land Total Recordable Incidents by Operation (Chart 12)
Based on 32 Incidents

- Material Handling: Manual: 12.50%
- Laying Down/Picking up Pipe/Tubulars: 3.13%
- Rigging Up/Down (rig move preparation, rig move): 18.75%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 6.25%
- Routine Drilling Operations: 9.38%
- Running Casing/Tubing (rig up/down csg. tools): 3.13%
- Rig/Equipment Repairs or Maintenance: 15.63%
- Making Connection: 6.25%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 15.63%
- Other: 6.25%
- Material Handling: Forklift: 3.13%

Issued 15 June 2009
Copyright © International Association of Drilling Contractors
Canada Land Total Lost Time Incidents by Location (Chart 13)
Based on 3 Incidents

- Rig Floor (rotary, pipe set back area): 33.33%
- Cellar/Substructure/Moonpool: 66.67%
Canada Land Total Recordable Incidents by Location (Chart 14)
Based on 32 Incidents

- Rig Floor (rotary, pipe set back area) 37.50%
- Catwalk/V-door 9.38%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 3.13%
- Well Control (BOP) Stack (well head/tree) Area 3.13%
- Pipe Rack/Pipe Deck 3.13%
- Engine Room/Generator Room 3.13%
- Rig Pad/Rig Decks (rig/well site/location, yard) 6.25%
- Cellar/Sub/Moonpool 6.25%
- Truck, Car, Bus 3.13%
- Forklift 3.13%
- Mud Pump Room 6.25%
- Other 15.63%
Canada Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 3 Incidents

- 0 mo. < 3 mos.: 66.67%
- >6 mos. < 1 yr.: 33.33%
Canada Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 32 Incidents

- >5 yrs. < 10 yrs.: 6.25%
- >1 yr. < 5 yrs.: 46.88%
- >6 mos. < 1 yr.: 21.88%
- >3 mos. < 6 mos.: 6.25%
- 0 mo. < 3 mos.: 18.75%
Canada Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 3 Incidents

08:00 hrs 66.67%
02:00 hrs 33.33%
Canada Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 32 Incidents
Canada Land Total Lost Time Incidents by Age (Chart 19)
Based on 3 Incidents

- 26 - 35: 66.67%
- 18 - 25: 33.33%
Canada Land Total Recordable Incidents by Age (Chart 20)
Based on 31 Incidents

- 26 - 35: 51.61%
- 36 - 45: 19.35%
- 18 - 25: 25.81%
- 46 - 55: 3.23%