IADC
ISP PROGRAM
2013

Summary of Occupational Incidents
(Canada Land Totals)

Issued 20 May 2014
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IADC 2013 Canada Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Manhours</td>
<td>2,619,882</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>16</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>2</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>8</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>26</td>
</tr>
</tbody>
</table>

MTO Incidence Rate = 1.22
RWC Incidence Rate = 0.15
LTI Incidence Rate = 0.61
LTI Frequency Rate = 3.05
DART Incidence Rate = 0.76
DART Frequency Rate = 3.82
Recordable Incidence Rate = 1.98
Recordable Frequency Rate = 9.92

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 2013 Canada Land Charts
Canada Land Total Lost Time Incidents by Month (Chart 1)
Based on 8 Incidents

- January: 12.50%
- February: 12.50%
- March: 12.50%
- May: 12.50%
- June: 12.50%
- July: 12.50%
- September: 37.50%
- November: 12.50%

Based on 8 Incidents
Canada Land Total Recordable Incidents by Month (Chart 2)
Based on 26 Incidents

- January: 11.54%
- February: 15.38%
- March: 7.69%
- April: 11.54%
- May: 7.69%
- June: 3.85%
- July: 7.69%
- August: 3.85%
- September: 15.38%
- October: 7.69%
- November: 7.69%
- December: 7.69%
Canada Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 8 Incidents

- Floorman: 75.00%
- Motorman: 12.50%
- Driller (Asst. Dr.): 12.50%
Canada Land Total Recordable Incidents by Occupation (Chart 4)
Based on 26 Incidents

- Floorman: 50.00%
- Motorman: 26.92%
- Roustabout (Lease Hand): 3.85%
- Driller (Asst. Dr.): 7.69%
- Derrickman: 7.69%
- Superintendent/other Supervisors: 3.85%
Canada Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 8 Incidents

- Finger(s) 50.00%
- Hand(s) / Wrist(s) 12.50%
- Arm(s) 12.50%
- Leg(s) 12.50%
- Knee(s) 12.50%
Canada Land Total Recordable Incidents by Body Part (Chart 6)
Based on 26 Incidents

- Finger(s): 42.31%
- Hand(s) / Wrist(s): 19.23%
- Head: 11.54%
- Arm(s): 11.54%
- Leg(s): 7.69%
- Feet/Ankles: 3.85%
- Knee(s): 3.85%
Canada Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 8 Incidents

- Struck Against: 12.50%
- Struck By: 25.00%
- Caught Between/In: 37.50%
- Slip/Fall: Different Level: 12.50%
- Sprain: 12.50%
Canada Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 26 Incidents

- Struck Against: 11.54%
- Struck By: 26.92%
- Caught Between/In: 30.77%
- Caught On: 3.85%
- Cut: 3.85%
- Debris: 3.85%
- Strain/Overexertion: 3.85%
- Slip/Fall: Same Level: 7.69%
- Slip/Fall: Different Level: 3.85%
- Sprain: 3.85%
- Debris: 3.85%
- Cut: 3.85%
- Sprain: 3.85%
- Struck By: 26.92%
- Caught Between/In: 30.77%
- Cut: 3.85%
- Debris: 3.85%
- Strain/Overexertion: 3.85%
- Slip/Fall: Same Level: 7.69%
- Slip/Fall: Different Level: 3.85%
- Sprain: 3.85%
- Struck Against: 11.54%
Canada Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 8 Incidents

- Tongs: 25.00%
- Cathead/Drawworks: 12.50%
- Engines/Pumps/Machinery: 12.50%
- Top Drive (blocks, swivel, kelly): 12.50%
- Other: 37.50%
Canada Land Total Recordable Incidents by Equipment (Chart 10)
Based on 26 Incidents

- Tongs: 15.38%
- Pipes / Collars / Tubulars / Csg.: 3.85%
- Cathead/Drawworks: 3.85%
- Hand Tools: Power: 3.85%
- Engines/Pumps/Machinery: 3.85%
- Well Control (BOP) Stack (well head, tree): 3.85%
- Material: 3.85%
- Ladders: 3.85%
- Top Drive (blocks, swivel, kelly): 3.85%
- Other: 53.85%

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Canada Land Total Lost Time Incidents by Operation (Chart 11)
Based on 8 Incidents

- Routine Drilling Operations: 25.00%
- Laying Down/Picking up Pipe/Tubulars: 25.00%
- Rigging Up/Down (rig move preparation, rig move): 25.00%
- Mud Mixing/Pumping: 12.50%
- Making Connection: 12.50%
Canada Land Total Recordable Incidents by Operation (Chart 12)
Based on 26 Incidents

- Rigging Up/Down (rig move preparation, rig move) - 23.08%
- Laying Down/Picking up Pipe/Tubulars - 11.54%
- Routine Drilling Operations - 15.38%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance - 11.54%
- Rig/Equipment Repairs or Maintenance - 3.85%
- Material Handling: Manual - 7.69%
- Mud Mixing/Pumping - 7.69%
- Making Connection - 7.69%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.) - 7.69%
- Other - 3.85%
- Routine Drilling Operations - 15.38%
- Laying Down/Picking up Pipe/Tubulars - 11.54%
- Rigging Up/Down (rig move preparation, rig move) - 23.08%
Canada Land Total Lost Time Incidents by Location (Chart 13)
Based on 8 Incidents

- Rig Floor (rotary, pipe set back area): 50.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 12.50%
- Catwalk/V-door: 12.50%
- Other: 25.00%
Canada Land Total Recordable Incidents by Location (Chart 14)
Based on 26 Incidents

- Rig Floor (rotary, pipe set back area) 30.77%
- Rig Pad/Rig Decks (rig/well site/location, yard) 11.54%
- Engine Room/Generator Room 3.85%
- Mud Pits/Tanks 3.85%
- Well Control (BOP) Stack (well head/tree) Area 7.69%
- Drick/Mast (crown, monkey/stabbing board, a-frame) 3.85%
- Catwalk/V-door 3.85%
- Cellar/Sub/Moonpool 3.85%
- Crew/Work Boats 3.85%
- Work Rooms (change house, storage house/room) 3.85%
- Pontoon 7.69%
- Other 15.38%
Canada Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 8 Incidents

- >5 yrs. < 10 yrs. 12.50%
- >1 yr. < 5 yrs. 37.50%
- >6 mos. < 1 yr. 12.50%
- 0 mo. < 3 mos. 37.50%
Canada Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 26 Incidents

- 10+ yrs. 3.85%
- >5 yrs. < 10 yrs. 11.54%
- >1 yr. < 5 yrs. 38.46%
- >6 mos. < 1 yr. 15.38%
- >3 mos. < 6 mos. 15.38%
- 0 mo. < 3 mos. 15.38%
Canada Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 8 Incidents

- 22:00 hrs 25.00%
- 21:00 hrs 12.50%
- 14:00 hrs 12.50%
- 19:00 hrs 12.50%
- 15:00 hrs 12.50%
- 05:00 hrs 12.50%
- 03:00 hrs 12.50%
- 21:00 hrs 12.50%
Canada Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 26 Incidents

- 7:00: 7.69%
- 8:00: 7.69%
- 10:00: 3.85%
- 11:00: 3.85%
- 12:00: 7.69%
- 14:00: 3.85%
- 15:00: 11.54%
- 16:00: 3.85%
- 17:00: 3.85%
- 18:00: 3.85%
- 19:00: 3.85%
- 20:00: 3.85%
- 21:00: 7.69%
- 22:00: 7.69%
- 23:00: 3.85%
- 1:00: 7.69%
- 2:00: 3.85%
- 3:00: 7.69%
- 4:00: 3.85%
- 5:00: 3.85%
- 6:00: 3.85%
- 7:00: 3.85%
- 11:00: 7.69%
- 12:00: 7.69%