|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location:** | | | | | | | | |
| **Date:** | | **Prepared By:** | | | | | | |
| **DESCRIBE WORK TO BE DONE:** | | | | | | | | |
| **FIRE AND EXPLOSION HAZARDS (Are there components for a fire or explosion?)** | | | | | | | | |
| **Fuel / Hydrocarbon Sources:** | | | | | | | | |
| Gases | Liquids / Vapors | | | | Chemicals & Lubricants | | Solids | |
| Natural Gas | Crude Oil / Condensate | | | | Solvents and cleaning agents | | Wax  Lubricants | |
| Hydrogen Sulphide | NGL liquids | | | | Hydraulic fluids & lubricants | | Sealants | |
| LPG Gases (Including propane and butane) | Hydrocarbon based drilling or frac fluids | | | | Chemicals used for well servicing and stimulations | | Packings, “O’ rings, diaphrams and valve seats | |
| Other gases such as hydrogen or acetylene | Gasoline, Diesel & other fuels | | | |  | | Paints and Coatings | |
|  | Methanol | | | |  | |  | |
| **Energy / Ignition Sources:** | | | | | | | | |
| Hot Work | Vehicles (exhaust piping, diesel engines) | | Open Flames  (i.e. flare stacks, burners, torches) | | | Electric Arcs and Sparks  (i.e. non explosion proof equipment) | | |
| Static Electricity | Hot Surfaces | | Friction and Mechanical Sparks | | | Chemical Reactions and Sparks (i.e. fuel – oxidizer reactions) | | |
| Spontaneous Combustion | Sudden Decompression | | Pressure / Compression Ignition (Dieseling) | | | Pyrophors (such as iron sulphide from corrosion) | | |
| Smoking | Cell phones, pagers, radios | | Hypergolic reactions (e.g. frac chemicals) | | | Other: | | |
| **Air / Oxygen Sources:** | | | | | | | | |
| Planned Introduction of Air | | | | | | | | |
| Air-based operations | Air Purging | | | |  | |  | |
| Unplanned Introduction of Air | | | | |  | | | |
| Underbalanced operations  Overbalanced | Swabbing & other operations that create a vacuum | | | | Pockets of air created during the installation and servicing of equipment | | Oxidized (Weathered) Hydrocarbons | |
| Oxidizers | Chemical Reactions | | | | On-Site Generated Nitrogen | | Tank Drawdown | |
| **REQUIRED CONTROLS (What are you doing to prevent components from combining?)** | | | | | | | | |
| **EMERGENCY CONTROLS (How will you respond if the conditions change?)** | | | | | | | | |
| **WORKERS TRAINED AND INFORMED** | | | | | | | | Complete |
| Workers have been made aware of and can recognize potential fire and explosion hazards and controls related to the planned activities. | | | | | | | |  |
| Affected workers have been made aware of this fire and explosion prevention plan. | | | | | | | |  |
| Wellsite Supervisor | | | | Signature | | | | |