

**HUNT ENERGY & MINERAL CO-AUSTRALIA PTY LTD
ONSHORE DRILLING EMERGENCY RESPONSE PLAN****SECTION 2.0
EMERGENCY RESPONSE****2.0 EMERGENCY RESPONSE****2.1 GENERAL**

- Overall Authority on site during the emergency will be the Operator Drilling Supervisor.
- The Operator Drilling Supervisor will be the primary contact during an emergency.
- All communications off the site regarding the emergency incident are to be directed through the Operator General Manager or designate.
- The Operator Drilling Supervisor is to be informed of any hazards that may affect the safety of the crew, equipment, environment or well.
- Priority will be given to the safety of personnel at all times.
- Operator General Manager & drilling contractor Managing Director to be kept informed of the status of the emergency.
- Drilling contractor Operations Superintendent to be kept informed of the status of the emergency.
- General Manager, (Operator) will have overall authority & responsibility in the event of an emergency.
- The Rig Manager is to co-ordinate on-site efforts to control the emergency in conjunction with the Operator Drilling Supervisor & inform the Hunt Energy Managing Director.
- ERG will co-ordinate activities and provide assistance as necessary to overcome the emergency.

2.2 DESIGNATED MUSTER STATION

In any emergency where the drill site is considered dangerous to personnel, the site will be evacuated as directed by the Drilling Supervisor. All personnel will assemble at the designated MUSTER STATION, and if at **muster point #1**, remove their tag from the Evacuation Board. This designated MUSTER STATION will be nominated prior to commencement of drilling operations and all personnel informed of its location.

The Primary Muster Station shall be located at the corner of the Rig Manager's office adjacent to the Emergency Shutdown system.

An Alternate Muster Station should also be nominated to provide a safe location if the Primary Muster Station is considered unsafe for personnel due to the direction of the prevailing winds or if access is impeded.

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EMERGENCY RESPONSE****2.3 WELL CONTROL**

A Well Control situation may progress through three phases that are described as follows:

Phase 1 (Alert)

- Well has kicked and is being killed using normal well control procedures as detailed in the Operations Manual.

Phase 2 (Alert)

- Well Control may not be achieved due to equipment failure or operational problems.
- When a Phase 2 alert is declared, all non-essential personnel are to evacuate the well site and assemble at the Designated Muster Station.
- All attempts are to be made to control the well, provided personnel safety is not jeopardised.

Phase 3 (Emergency)

- Uncontrolled blowout and control of the well can no longer be regained.

The crew, equipment, well and environment are in imminent danger.

- Alarm to be sounded.
- All personnel to evacuate the site and assemble at the Designated Muster Station.
- All personnel to be accounted for.
- The ERG will begin co-ordination of well capping operations.

Note: Phases will be declared by the Drilling Supervisor in consultation with the Rig Manager.
Operator General Manager or designate & Hunt Managing Director are to be notified of all phases.

2.4 FIRE OR EXPLOSION

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- Alarm is to be sounded.
- Immediately confirm the location and extent of the fire.
- Ensure all personnel are accounted for.
- Activate emergency response teams to fight the fire or contain the damage caused by the explosion.
- Administer medical treatment to any injured personnel.
- Arrange for medical evacuation of any injured personnel.
- Activate local resources (e.g. SES) to assist in extinguishing or containing the fire.
- Evacuate non-essential personnel to Designated Muster Station as necessary.
- If site becomes dangerous and poses a risk to personnel safety, all personnel to be evacuated and assemble at the safest Designated Muster Station, or alternate site.
- Operator General Manager or designate & Hunt Energy Managing Director are to be notified of the emergency and kept updated on the situation.

2.5 ESCAPE OF GASES

In most cases, gases escaping from a well will be toxic, flammable and corrosive, therefore extreme care should be exercised when entering any area where gas is present.

- Hydrocarbon gases are extremely flammable and are easily ignited. Hydrocarbon gases can also cause death by asphyxiation.
- Hydrogen Sulphide Gas (H₂S) is extremely toxic and corrosive. H₂S can quickly cause death if inhaled at relatively low concentrations. It also leads to the loss of smell at toxic concentrations making it ever more dangerous.
- Carbon Dioxide (CO₂) is toxic and corrosive. CO₂ can cause death due to asphyxiation.

Both CO₂ and H₂S are denser than air and will naturally flow to lower areas (e.g. the cellar, valleys, etc.), therefore, appropriate precautions to test the atmosphere must be taken before entering any suspect area when quantities of these gases are thought to be present.

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Procedures detailed under Well Control (Section 2.3) should be followed in the event that the escape of gases is from the well.

If the presence of a toxic or corrosive gas release is anticipated or observed, the following procedure should be followed.

- Alarm to be sounded.
- All personnel to be notified.
- Well to be shut in and secured or take other necessary action to cut-off the gas flow.
- All hot work (e.g. welding, friction cutting) to be suspended.
- Shut down all engines if possible.
- If breathing apparatus & tanks are available, ensure compressor inlets are checked before any air cylinders are filled.
- Evacuate all hazardous areas e.g. rig floor, cellar, mud pits, areas immediately down wind, etc.
- Evacuate all non-essential and/or all personnel to up wind Designated Muster Station as deemed necessary.
- All personnel are to be accounted for.
- All personnel entering the affected areas shall wear breathing apparatus.

Note:

Any person using a breathing apparatus must be trained and certified in its use.

- A minimum of '2' persons is to enter a gas-affected area, i.e. Buddy System.
- Administer medical treatment to injured persons.

Note:

Resuscitation should be given immediately to any persons affected by the toxic gas.

Arrange for medical evacuation of injured persons.

- Initiate any local resources to assist.
- Operator General Manager & Hunt Energy Managing Director to be notified of the emergency and kept up to date on the situation.

Note:

If it is anticipated that toxic or corrosive gases will be encountered, then procedures detailed in the Drilling Operations Manual should be followed.

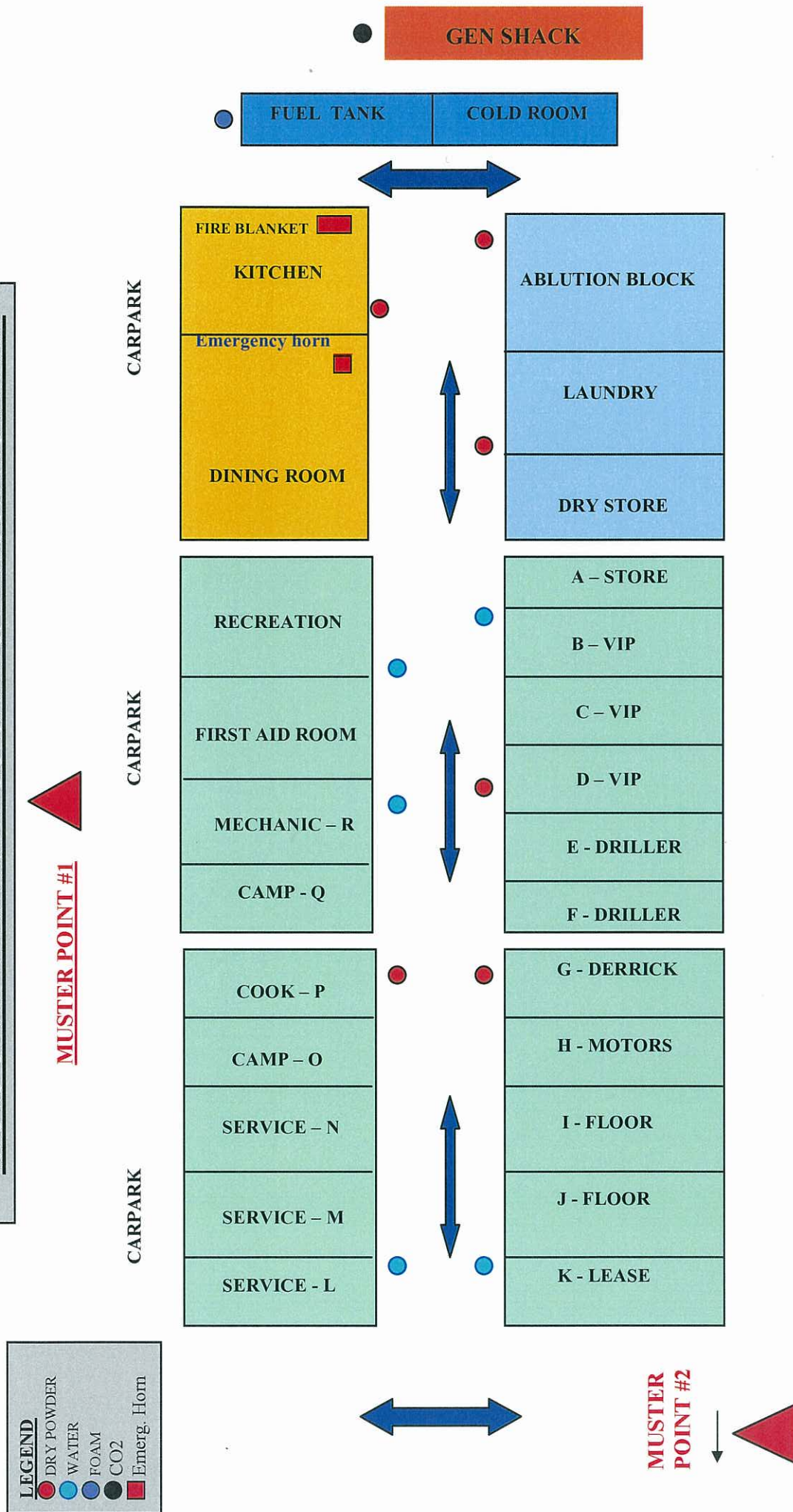
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EMERGENCY RESPONSE****2.6 FIRE EMERGENCY – RIG CAMP**

- If the fire is small & easily contained, use the appropriate fire extinguisher to put the fire out, & then report immediately to the Camp Manager & Rig Manager.
- If in any doubt or the fire is established, **raise the alarm** & initiate evacuation.
- Check rooms & assist other personnel to evacuate if they are having difficulty. Ensure that the First Aid box is collected by the designated camp attendant or other nominated person.
- Shut down camp generators (if safe to do so) where leaving them running creates a more significant hazard. If generators are shut down, turn off supply from diesel tanks if possible.
- Proceed to Muster Point #1 if safe to do so, or Muster Point #2 if the former is in a hazardous position in relation to the fire.
- The Camp Manager or designated replacement will conduct a head count to determine if all personnel are safe. He will also send someone to raise the alarm with the Rig Manager.
- Provide first aid or medical treatment to anyone injured as a result of the fire or evacuation.
- If personnel are missing, a search & rescue attempt will be initiated as appropriate, as well as a fire fighting team if practical, to try & extinguish or contain the fire.
- If the fire is contained to one building, & it is safe to do so, use the front end loader if available to try to drag the burning building away from the others.
- All personnel not directly involved with emergency teams must remain at the muster point until help arrives, or assist as directed by the Camp Manager, Rig Manager or other person in charge.
- Make arrangements to evacuate any seriously injured personnel using services as covered under Section 2.7 & Section 4.
- Complete reporting & investigation as covered under Section 3. of this manual & Section 10.15 of the Onshore Drilling Operations & Safety Manual.

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RIG #3 CAMP FIRE EXTINGUISHER & EVACUATION PLAN



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EMERGENCY RESPONSE****2.7 MEDICAL EMERGENCY (MEDIVAC)**

- Make immediate area safe if necessary.
- Check victim for vital signs.
- Administer medical treatments as necessary.
- Move victim to safer or more comfortable position as necessary.
- Arrange for external medical assistance as necessary.
- Arrange for medical evacuations as necessary e.g. site vehicle, ambulance, flying doctor, etc.
- Medivac Patient Information Sheet (as on Page 10 & 11 with blank copies in the enclosure) should be completed and copies sent to ambulance depot, receiving hospital, doctor, & Hunt Energy Operations Superintendent or Operator Drilling Manager or designate as applicable. The original should be kept on site for record.
- Notify police in the case of serious injury or death.
- Notify Operator General Manager of emergency and keep updated on the situation.

Note:

1. If injured person is in a location where further injury is likely then the patient should be moved to a safer location. If an injured person is to be moved, adequate care must be taken to ensure that further injury is not inflicted.
2. In case of serious injury or death the injured/dead person should not be moved until the ambulance/police arrive. The location where the injury occurred should not be disturbed other than to make it safe.
3. If possible, photos of the injured person and general area should be taken for future reference.
4. All actions relating to treatment of the injured are to be accurately documented.
5. All communications, including instructions are to be accurately logged.

SECTION 2.0

EMERGENCY RESPONSE

Name of Patient:

(surname)

(given names)

Company:

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Colour

State of consciousness.

Pulse

Blood pressure

Any other symptoms considered important

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If medical problem, any previous history of same or similar nature

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Blood group:

Type of medical aid required:

If X-rays required: Yes / No

Ambulance stretcher case: Yes / No

Medical escort required on flight:..... Yes / No

Accommodation or transport required:..... Yes / No

Any other

information:.....
.....
.....

Signature (Medic):

Date:.....

Distribution:

- Copy to be sent with patient copies to Drilling Supervisor and Rig Manager
- Faxed copies: Operations Superintendent, receiving Hospital
- Original to be retained for records

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RESPONSIBILITIES & FUNCTIONS****3.0 RESPONSIBILITIES AND FUNCTIONS****3.1 GENERAL**

- All personnel on site will have knowledge of the Emergency Response Plan, the Onshore Drilling Operations and Safety Manual, and the Tasmanian Mineral Resources Development Act 1995.
- All personnel on site have the responsibility to immediately report to the Operator's Drilling Supervisor or Drilling Contractors Rig Manager on any actual or potential emergency situations, and to implement actions to prevent or contain the situation if possible. A single extended horn blast will alert of all emergencies, & then specific information will be communicated between the Rig Manager, Driller and the crews. Monitor wind direction daily. The default Muster Point is #1 unless too dangerous.

NOTE: Unless absolutely unavoidable, only the Operator Drilling Supervisor or Designate should initiate the reporting procedure.

3.2 ON SITE PERSONNEL**Operator Drilling Supervisor**

The Operating Drilling Supervisor is responsible for the direct control of an emergency. Senior Company and Contractor personnel on site at the time of the emergency may act as advisers.

The Operator Drilling Supervisor will be completely familiar with the operations of the well site and the Emergency Response and Drilling Operations Procedures. In the event of an emergency the Operator Drilling Supervisor will:

- Immediately assume control of the situation.
- Implement and co-ordinate the Emergency Response Procedure.

Assess the extent, nature and cause of the emergency in respect of:

- Possibility of escalation.
- Actual or potential major escape of hydrocarbon.
- Actual or potential major escape of toxic or corrosive gases.
- Actual or potential fire and/or explosion.
- Actual or potential cause of damage or harm to personnel, equipment, well and environment.

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The Operator Drilling Supervisor should also decide on immediate actions to contain and overcome the emergency. The actions to be considered include:

- Shut down of all or part of the operations including securing the well and activating rescue, fire fighting equipment or other appropriate action including administering first-aid.
- Notify Operator General Manager & drilling contractor Managing Director and keep up-dated on status of emergency.
- Notifying, alerting or calling for assistance from the emergency services as necessary e.g. Fire Brigade, Police, Medical Services or pollution monitoring authorities. (EPA)
- Evacuate all non-essential personnel, or if necessary, all personnel to designated Muster Station, depending on the risk to personnel safety.
- Ensure all personnel are accounted for and co-ordinate rescue and treatment of any injured persons.
- Ensure that the safety of rescue or fire fighting teams is not jeopardised.
- Ensure access gates are opened as necessary.
- Rig Manager and drilling crew to implement and co-ordinate well control procedures and document all events.
- Take photos of damage to equipment or location, etc, if possible provide appropriate reports after the event.
- Ensure Site Communications Officer logs all incoming and outgoing calls & faxes.
- Co-ordinate service company personnel as necessary for well control operation or other emergency operations.
- Ensure that all emergency procedures implemented are in accordance with Government Regulations, Operators Procedures and good oil field practice.

Well Site Geologist

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- Act as the Drilling Supervisors designate.
- Assist as directed by the Drilling Supervisor.
- Ensure all events and actions are logged.
- Ensure all company and service personnel are accounted for.

Rig Manager

The Rig Manager is responsible for the safety of all Hunt Energy personnel and equipment, and his duties include:

- Ascertain type & extent of the emergency and notify Drilling Supervisor. Keep Drilling Supervisor updated of the situation.
- Co-ordinate all rescues and fire fighting crews.
- Ensure the alarm and appropriate warnings are given for each emergency situation.
- Liase with and assist the Drilling Supervisor as necessary.
- Ensure all Hunt Energy personnel are accounted for.
- Ensure Hunt Energy personnel follow correct emergency procedures.
- Inform and liase with Hunt Energy management as necessary.
- Ensure correct well control procedures are implemented.
- Ensure correct on-site medical treatments and Medivac procedures are followed.
- In conjunction with the Drilling Supervisor, decide on evacuation procedures.
- Ensure that a Site Communication Officer (SCO) is in place and that Emergency Communications Procedures are followed.

Drillers

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- Implement initial well shut-in procedures.
- Implement any other immediate emergency response procedures necessary.
- Notify Rig Manager of emergency.
- Take the tour book to the muster point for roll call as a backup in case the magna board is not accessible.
- Act as directed by the Rig Manager.
- Co-ordinate and control drilling crews in rescue and fire fighting response roles.

Site Communication Officer (SCO)

The designated SCO is responsible for manning the designated communication centre & ensuring communications are maintained within and outside the well site in accordance with the Emergency Procedure. At the Drilling Supervisor's direction, notify, alert and call for assistance, & advise Operator General Manager or designate, drilling contractor Managing Director and relevant emergency services. A log of time, people's names, action, requests and events will be maintained. The SCO will ensure that telephone communication lines are kept clear during the emergency.

The SCO must be completely familiar with the communication systems and the requirements of communication in the procedures. In the event of an emergency, the SCO will:

- Immediately man the designated communication centre.
- Implement, at the direction of the Drilling Supervisor, the procedures applicable to the emergency.
- Immediately initiate an emergency log, noting down the time of sequential events and communication. All events, communications, instructions etc, are to be logged.
- Keep copies of all communications and instructions received and sent.
- All medical treatments and instructions to be logged, including names of receiver and caller and time of the call.

Note: To maintain communications, outgoing calls should be made on the facsimile/data line, leaving the designated voice line clear for incoming calls.

Mud Engineer

- Proceed as directed by the Drilling Supervisor to assist or evacuate the location.
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- Ensure mud is in such a condition to enable the required density increase to be achieved.
- As directed by the Drilling Supervisor, increase mud weight in active system to ensure correct mud properties are achieved.
- Provide back-up well kill calculation if requested.
- Monitor and test mud for corrosive, toxic or hydrocarbon substances as directed.

Cementer

- Proceed as directed by the Drilling Supervisor to assist or evacuate the location.
- Be prepared to circulate/kill the well as directed by the Drilling Supervisor.
- As directed by the Drilling Supervisor, pump kill mud and accurately record all pressures, rates and volumes of fluids pumped.

Mud Logger

- Proceed as directed by the Drilling Supervisor, to assist or evacuate the location.
- Record all pressures, volumes, displacements, etc, relating to the well and circulating system.
- Provide back-up well kill calculations if requested.
- Monitor and test mud for corrosive, toxic or hydrocarbon gases.

SOTA

- Proceed to the Muster Point & provide the names of contract personnel on site.
- Support the Rig Manager as requested to manage personnel, to help with search & rescue, First Aid, or any other duties where assistance is required.

3.3 OTHER COMPANY AND CONTRACTOR PERSONNEL

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If other company personnel are on site at the time of the emergency situation, they will function under the direction of the Operator Drilling Supervisor who is responsible for direct control of the emergency and has absolute authority in situations involving the safety of all personnel and/or equipment and well control. The Operator Drilling Supervisor may use the services of any personnel on site, or he may decide they should be evacuated from the well site.

NOTE: If senior company personnel on site wish to assume control and responsibilities, then a request to do so must be made in writing to the General Manager, who will then approve in writing that the person or persons shall assume total control and responsibility.

Other Service Company Personnel

Proceed as directed by the Operator Drilling Supervisor to assist or evacuate the location.

3.4 OPERATOR'S OFFICE BASED PERSONNEL RESPONSIBILITIES**Drilling Superintendent**

- Notify General Manager of emergency and keep him up-dated on the situation.
- Provide Drilling Supervisor with technical and emergency back-up.
- In consultation with Hunt Energy Management, evaluate options and recommend action to the Drilling Supervisor.
- Obtain a list of any casualties and details of injuries and pass to Operators' Manager.
- Obtain details of damage to equipment or the environment and pass to the Manager, MRT.
- Authorise responses as appropriate.
- Co-ordinate Medivac operations as required.
- Document all communications, instructions and reports.

General Manager

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- Activate ERG as deemed necessary.
- Notify, instruct and delegate responsibilities to members of ERG as necessary.
- Notify, advise and instruct Drilling and Service Contractors as necessary.
- Activate the Emergency Incident Media Response Plan as deemed necessary.
- Arrange for Operator's representative(s) to proceed to the well site as necessary.
- Ensure arrangements have been made for reception of Medivac patients or other evacuated personnel.
- Notify and liaise with Government Authorities as necessary.
- Request outside assistance from other Operators and government agencies as required.
- Liaise per Emergency Incident Media Response Plan and keep up-dated of situation (provide details of all injuries and damage, cause (if known), actions taken to control situation, etc).
- After consultation with appropriate technical staff, initiate well capping and/or 'relief well' operations as necessary.
- Ensure that all events and communications are accurately logged.

Emergency Response Group Members

To assist as instructed by the Operator General Manager.

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SECTION 3.0

RESPONSIBILITIES & FUNCTIONS

SC0 _____ Sheet # _____ Date _____

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Signed

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