

# EXPLOSIVES

## Schlumberger Field Safety Procedures

### Conventional Electrical Initiators (Detonators and Igniters)

1. During pre-job planning consult a local weather forecast for potential for lightning storm.
2. On arrival hold consultation with client, if possible.
3. Check well area for hazards and correct when necessary.
4. Hold spot safety meeting.
5. No smoking except in designated areas. Store smoking materials when leaving these areas.
6. Rig up cable. Remove rig wiring that might contact cable. Top drive systems should be electrically isolated in accordance with the manufacturer's procedures.
7. Outside preparations before attaching an explosive device:
  - a. Turn off electrical cathodic protection systems.
  - b. Discontinue all electric welding operations.
  - c. On water operations, install the positive grounding cable from truck to barge or wireline unit to generator skid.
  - d. Check voltage between the rig, casing and cable armor using a multimeter. Attempt to eliminate it at its source, if present.
  - e. Test and install Casing-to-Rig Voltage Monitor.
  - f. **DO NOT PROCEED WITH OPERATIONS IF RESIDUAL VOLTAGE IS IN EXCESS OF 0.25V BETWEEN RIG, CASING, AND CABLE ARMOR.**
  - g. Install safety grounding straps between the unit, rig and casing.
  - h. Put out sign reading "Danger Explosives - Turn Off Radio Transmitters" or equivalent.
  - i. Turn off all radio frequency (RF) transmitters (radio, cellular, radar, RF wireless networks, driving monitors, etc.) and auto-transmitting receivers within 30 ft (9 m) of an explosive device being armed or an armed explosive device.
  - j. All transmitters (such as radio or TV stations) greater than 200 watts and within 1 mile (1.6 km) of the well must be disabled such that they cannot transmit.
8. **APPLYING POWER AT SURFACE ONCE THE EXPLOSIVE OPERATION HAS STARTED IS PERMITTED ONLY ON THE CONDITION THAT THE CABLE HEAD AND ENTIRE TOOLSTRING ARE IN CLEAR VIEW OF THE ENGINEER WHILE APPLYING TOOL POWER.** Power must not be applied through a gun or explosive tool assembly at any time while on the surface. **ARMED OR UNARMED.** Explosive operations have started when explosives are no longer secured as required for shipment and/or storage.
9. Instrument cable preparations for explosive operations:
  - a. Ensure continuity of logging cable to the safety switch (C/S). Do not disconnect collector plug.
  - b. Turn off all AC powered instrumentation, main circuit breakers, inverters, UPSs, AC power generators, and rig power connections. For units that use an isolated power distribution utility (e.g., follow the official power down procedures posted on the power distribution panel).
  - c. Turn off safety switch (C/S) and remove key. The key **MUST** remain outside the wireline unit until the explosive device is introduced into the well to a minimum depth of 200 ft (70 m) below ground level or the sea floor.
10. Procedure for attaching any explosive device (such as CPST, CST, perforating guns, etc.) to the cable:
  - a. If lightning can be seen, thunder can be heard, or weather is deteriorating rapidly (wind gusts, temperature variations, sudden precipitation, fast building clouds, etc.), attaching the head to the gun string, arming, disarming, and/or handling of any explosive device must not be initiated.
  - b. Attaching the head to the gun string, performing arming procedures and/or handling of any explosive device must not be commenced until both no thunder can be heard for 30 continuous minutes and the weather has stabilized for 30 continuous minutes.
  - c. Arming, disarming, and/or handling any explosive device must not be commenced if a helicopter or a boat is expected to arrive before the arming operation can be completed and the gun introduced into the well to a minimum depth of 200 ft (70 m) below ground level or the sea floor.
  - d. Verify that the Casing-to-Rig Voltage Monitor reads less than 0.25V.
  - e. Clear the line of fire of all personnel.
  - f. Attach the explosive device to the head. The individual performing this operation **MUST** have the safety switch key in their possession at all time. The key **MUST** remain outside the wireline unit until the explosive device is introduced into the well to a minimum depth of 200 ft (70 m) below ground level or the sea floor. For CST operations, point the bullet side of the CST gun into the cable skid before attaching the head to the gun string.
11. Arming perforating guns (Only the engineer or technician in charge of job may arm a gun.):
  - a. The cable must be attached to the gun string before the gun string is armed. However, guns that will not be electrically connected to the cable when the head is attached may be armed immediately prior to their use and then attached to the cable.
  - b. Confirm that the line of fire is still clear.
  - c. Check the gun wires for sparking.
  - d. Trim the gun wires.
12. Proceed into the well.
13. Safety procedures while in the hole:
  - a. At a minimum depth of 200 ft (70 m) below ground level or the sea floor, turn on the safety switch, restore AC power, etc. Essential RF transmitters may be turned on. Continue into the hole.
  - b. Tie in, position the gun and shoot.
  - c. Coming out of hole, at a minimum depth of 200 ft (70 m) below ground level or the sea floor, reestablish RF silence and prepare the instrument cable for explosive operations (i.e., through c.). Verify that the Casing-to-Rig voltage is less than 0.25V. **CAUTION** - if a lightning storm, helicopter or boat will arrive before the disarming operation can be completed, the gun must be kept in the well at a minimum depth of 200 ft (70 m) below ground level or the sea floor. Refer to 10 a) to c) for lightning storm observations.
14. If follow carrier gun(s) did not fire, perform the test to determine if an ongoing thermal event (a hang fire) is occurring. If there is, follow the recovery procedures. Otherwise, immediately relieve any trapped pressure and then disarm the gun(s) (ballistically before electrically using the procedure provided in the Field Operations Manual). Once disarmed, the gun may be disconnected from the cable. If the gun contains HMX explosives that were heated to more than 330°F, disarm it but do not download the explosives from the gun for 48 hr.
15. All guns must be safely relieved of any trapped pressure immediately upon removal from well according to the instructions in the Field Operations Manual.
16. Check the area for detonating cord remnants, charges, etc., and pack them in the explosive remnants box. Pack misfired detonators in the detonator carrying case after shorting their leads. All remnants must be returned to the magazine for storage and then properly disposed of.

### Schlumberger approved High Voltage RF Safe Initiation Equipment

For operations utilizing Schlumberger approved High Voltage RF Safe Initiation Equipment in place of conventional electrical detonators, the following exceptions apply to the procedures above:

- Radio transmitters can be left powered and used without restrictions.
- Casing-to-Rig voltages can exceed 0.25V, but **MUST NOT** exceed 40.0V.
- Electrical cathodic protection systems can be left powered.
- Helicopter and boat operations can be continued.
- Electrical welding operations can be continued except in areas where explosives are stored or are being used.

All OTHER procedures including weather precautions must be followed.

An approved exemption with a detailed HARC is required per SLB-QHSE-S010 (MOC and Exemption) - WL Appendix if any of these procedures cannot be followed.

# Schlumberger Safety Manual

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Velavancorresponding**



## **Schlumberger Safety Manual:**

Title List of Documents Made Publicly Available ,      *Underbalanced Drilling: Limits and Extremes* Bill Rehm, Arash Haghshenas, Amir Saman Paknejad, Abdullah Al-Yami, Jim Hughes, 2013-11-25 The present crude oil and natural gas reservoirs around the world have depleted conventional production levels To continue enhancing productivity for the remaining mature reservoirs drilling decision makers could no longer rely on traditional balanced or overbalanced methods of drilling Derived from conventional air drilling underbalanced drilling is increasingly necessary to meet today s energy and drilling needs While more costly and extreme underbalanced drilling can minimize pressure within the formation increase drilling rate of penetration reduce formation damage and lost circulation making mature reservoirs once again viable and more productive To further explain this essential drilling procedure Bill Rehm an experienced legend in drilling along with his co editors has compiled a handbook perfect for the drilling supervisor *Underbalanced Drilling Limits and Extremes* written under the auspices of the IADC Technical Publications Committee contain many great features and contributions including Real case studies shared by major service companies to give the reader guidelines on what might happen in actual operations Questions and answers at the end of the chapters for upcoming engineers to test their knowledge Common procedures typical and special equipment involved and most importantly the limits and challenges that still surround this technology

*Electrical Submersible Pumps Manual* Gabor Takacs, 2017-09-22 *Electrical Submersible Pumps Manual Design Operations and Maintenance Second Edition* continues to deliver the information needed with updated developments technology and operational case studies New content on gas handlers permanent magnet motors and newly designed stage geometries are all included Flowing from basic to intermediate to special applications particularly for harsh environments this reference also includes workshop materials and class style examples for trainers to utilize for the newly hired production engineer Other updates include novel pump stage designs high performance motors and temperature problems and solutions specific for high temperature wells Effective and reliable when used properly electrical submersible pumps ESPs can be expensive to purchase and maintain Selecting the correct pump and operating it properly are essential for consistent flow from production wells Despite this there is not a dedicated go to reference to train personnel and engineers This book keeps engineers and managers involved in ESPs knowledgeable and up to date on this advantageous equipment utilized for the oil and gas industry Includes updates such as new classroom examples for training and more operational information including production control Features a rewritten section on failures and troubleshooting Covers the latest equipment developments and maintenance needed Serves as a useful daily reference for both practicing and newly hired engineers Explores basic electrical hydraulics and motors as well as more advanced equipment specific to special conditions such as production of deviated and high temperature wells      *Behind and Beyond the Chicago Convention* Pablo Mendes De Leon, Niall Buissing, 2019-08-21 *Behind and Beyond the Chicago Convention The Evolution of Aerial Sovereignty* Edited by Pablo Mendes

de Leon effect of new methods of communication such as Global Navigation Satellite Systems GNSS distinction between civil and State aircraft economic regulation as established under air services agreements between States cybersecurity measures compensation for damages liberalisation of air services role of regional aviation organisations in particular that of the European Union position of airlines airports and providers of air navigation services and territorial jurisdiction with respect to areas lacking a universally accepted sovereign status Annexes include the original texts of the Paris Convention 1919 and the Chicago Convention 1944 With its incisive perceptions put forward by distinguished aviation lawyers including an exploration of the absolute character of sovereignty this book is without peer in its analysis of how the Chicago Convention affects the regulation of international civil aviation and the operation of air services Its multifaceted approach towards the current state of affairs from a legal and policy perspective will be welcomed by practitioners and law firms in the field and civil aviation authorities as well as by academics and business persons with a stake in aviation

*Standard Handbook of Petroleum and Natural Gas Engineering* William C. Lyons, Gary J Plisga BS, 2011-03-15 This new edition of the Standard Handbook of Petroleum and Natural Gas Engineering provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this text is a handy and valuable reference Written by over a dozen leading industry experts and academics the Standard Handbook of Petroleum and Natural Gas Engineering provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for the oil and gas industry for over 65 years A comprehensive source for the newest developments advances and procedures in the petrochemical industry covering everything from drilling and production to the economics of the oil patch Everything you need all the facts data equipment performance and principles of petroleum engineering information not found anywhere else A desktop reference for all kinds of calculations tables and equations that engineers need on the rig or in the office A time and money saver on procedural and equipment alternatives application techniques and new approaches to problems

**Standard Handbook of Petroleum and Natural Gas Engineering** William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling

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How Safe is Safe Enough? Greg Alston,2017-03-02

Safety is not easy it is a full time effort and is equally important whether people are on the job or on personal time If an organization is serious about mission success it must take risk seriously as well Leaders need to be involved in the risk game at every turn and understand the key elements discussed throughout this book that help them to win Winning the risk game is what safety is all about As in operational success risk management requires the best human faculties to achieve victory talent of organizational players and commitment from top leadership rule the day The book covers leadership safety programs and risk management for organizations and individuals It helps in professional development grooming current and future leaders to understand their roles in safety and risk management Central to the author s message are Seven truths of

safety that the author discovered as a senior safety officer Four roadblocks to achieving zero mishaps that must be aggressively addressed Nine elements to risk reduction with which leaders must become familiar He establishes the importance of an organizational leader's role in the safety risk management game and provides the answer to How safe is safe enough Often managers at various levels do not have an understanding of what goes into a safety program this book tells them from an expert's view The readership includes executives and middle management all leaders as a professional development book and students It is also a supplemental textbook for safety and risk management courses [Job interview questions and answers for employment on Offshore Drilling Platforms](#) Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 272 questions and answers for job interview and as a BONUS 289 links to video movies and web addresses to 205 recruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Moody's Manual of Investments and Security Rating Service*,1926 [150 technical questions and answers for job interview Offshore Drilling Platforms](#) Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **200 technical questions and answers for job interview Offshore Drilling Platforms** Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry [How to](#)

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