Drilling Rig Safety Manual

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Running casing into the hole. 77. Installing casing accessories. 78. Circulating and cementing. 79. Introduction to well control. 81. Blowout Prevention Program. 84. Monitoring and Maintaining Mud System. 85. Installing BOPs, Accumulator, and Choke Manifold. 86. Testing BOPs Accumulators, and Choke Manifold. 88. Maintaining Surface Control System. 88. Maintenance activities. 89. Rig floor. 89. Drilling line maintenance. 91. Wire rope maintenance. 92. Mud circulation system. 93. Generators, electrical motors and electrical systems. 94. Engines. 95. An introduction to drilling operationsAppendices. 97. Appendix 1 Physical properties of H2S. 97. An introduction to drilling operationsADP Aluminium drill pipe MST Magnetic steering toll. AFE Authority for expenditure MW Mud weight. API American Petroleum Institute MWD Measurement while drilling. BHA Bottom hole assembly NMDC Nonmagnetic drill collar. BHO Sub Bottom hole orientation sub NPT Non productive time. BHP Bottom hole pressure OBM Oil based mud. BOD Basis of Design OD Outside diameter. BOP Blow out preventer OIM Operations installation manager. CBL Cement bond log OWE Offshore well engineer. CLP Choke line pressure PBR Polished ball receptacle. CMC Carboxymethylcelluose PCWD Pressure control while drilling rotating diverter. DC Drill collar PDC Polycrystalline diamond compact. DDR Daily drilling report PDHG. DIMS Drilling information management system PDM Positive displacement mud motor. DMS Drilling management system PFD Process flow diagram. DP Drill pipe POB Personnel on board. DS Drill string standard POBM Pseudo

oil based mud. DST Drill string test POOH Pull out of hole. DSV Down hole safety valve PPG Pounds per gallon. DSV Drilling supervisor PSI Pounds per square inch. ECD Equivalent circulating density PTW permit to work. ECP External casing packer PVT Pit volume totaliser. ECPICV External casing packer internal controlRDM Regional drilling manager. EMW Equivalent mud weight RIH Run in hole.http://watersns.com/userData/board/cr-2500-manual.xml

ESD Emergency shut down ROV Remotely operated vehicle robotic submarine. FG Formation pressure equivalent density RPM Revolutions per minute. FIT Formation integrity test RTTS Retrievable packer. FMS Flush mounted slips SCR Slow circulation rate. FMS Formal method statement SCSSV Sub surface safety valve. FRAC Fracture SF Safety factor. GOR Gas oil ratio SICP Shut in casing pressure. HAZOP Hazard and operability analysis SIDPP Shut in drill pipe pressure. HCR High closing ratio SPM Strokes per minute. HP High pressure SSP Stand pipe pressure. HPE Hydrostatic pressure equivalent of 1bblTCL Tubing conveyed logging. HPHT High pressure high temperature TFA Total force area. HWDP Heavy weight drill pipe TIW Texas iron works. IBOP Internal blow out preventer TOC Top of cement. ID Internal diameter TRSSSV Tubing retrievable sub surface safety valve. IFG Influx density TVD Total vertical depth. ISP TVDRKB Total vertical depth rotary Kelly bushing. IWCF International well control forum UBD Under balanced drilling. JSA Job Safety Analysis UBHOsub Universal bottom hole orientation sub. KOP Kick off point ULSEL Ultralong spaced electronic log. KPI Key performance indicator VBR Variable bore rams. KT Kick tolerance WOH Weight on hook. LMRP Lower marine riser package WBM Water based mud. LOT Leak off test WEG. LP Low pressure WOB Weight on bit. LTI Lost time incident WWD World wide drilling. LWD Logging while drilling. MAASP Maximum annular allowable surfaceMD Measured depth. An introduction to drilling operationsMPI Magnetic particle inspectionNote The drilling industry is characterized by abbreviations and namesAn introduction to drilling operationsThe following pages list general safety and health concerns. Each topicSpecific general health and safety topics covered herein areSafety and health program. General safety and health resources.

General safety and health resource subject matters to cover areH2S ControlsAn introduction to drilling operationsPersonal Protective Equipment PPESlips trips and falls. There are many ways to protect from slips, trips, and falls. Even so,Repair themAn introduction to drilling operationsGeneral solutions for strains and sprains includeSlips have threeWeather conditions. Weather conditions can create hazardous working conditions thereforeLightning isWhen lightning is present,An introduction to drilling operationsHot work fire and explosiveWorkers pFigure 1 Hot work welding. Figure 2 Welding with fire control.The basic precautions for fire prevention areSpecial PrecautionsWork and equipment should beFire watchers are requiredPotential HazardSulfide, around the wellhead area. An introduction to drilling operationsIf a flammable orAdditional ReferencesOil and Gas Well Drilling and Servicing Operations, Wireline. Service.On Equipment Containing Flammables, 1995. Welding cutting and brazing. All hot work is potentiallyPotential Hazard. Figure 3 Welding Hot work.An introduction to drilling operationsSpecial HazardPossible SolutionsBoth a hot work and confined entry permitAn introduction to drilling operationsWell Servicing. Association of Energy Services CompaniesCylinder storage Figure 4 Properly stored cylinders. Potential HazardPossible SolutionsAn introduction to drilling operationsPossible SolutionsPotential HazardPossible SolutionsGrinding. Figure 5 Hand Grinding. Potential HazardAn introduction to drilling operationsUse cotton or denimIgnition sources. There are a number of potential sources of ignition for flammableIt is necessary to provide for aPotential HazardPossible SolutionsAn introduction to drilling operationsOil and Gas Well Drilling and Servicing Operations, Wireline. Service.Installations at Petroleum. Facilities Classified as Class 1, Division 1 and Division 2.Electrical Installations at Petroleum.

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Facilities Classified as Class 1, Zone 0, Zone 1 and Zone 2.International AssociationHydrogen Sulfide

or sour gas H S is aMany areas where the gas is foundFlaring operations associated with H S production will generate Sulfur. Dioxide S0 , another toxic gas.Also see NIOSH Classification of H S Hazard Areas.2. Figure 6 Hydrogen sulfide warning sign. Warning Hazardous Area is in yellowHazard, Fatal or Harmful if Inhaled. An introduction to drilling operationsRelease of H2S. All personnel working in an area where concentrations of Hydrogen. Sulfide may exceed the 10 Parts Per Million PPM should be providedPotential HazardPossible Solutions. Implement an H S contingency plan see API including, but notProtection Standard forFigure 7 SCBAComprehensive training should be provided for workers in H2SSulfide.Hydrogen Sulfide exposure.Demonstrated proficiency inSulfide handling system.Additional InformationOperations Involving Hydrogen Sulfide. American PetroleumFigure 8 Gas detectorMetal Fatigue. Metal fatigue, including hydrogenPotential HazardSulfide.Possible SolutionsCorrosion Cracking Resistance in Sour Oilfield. Environments. National Association of Corrosion EngineersFigure 9 H2S metal failureIt is possible for hydrogen sulfide gas to accumulate in any low orPotential HazardPossible SolutionsAn introduction to drilling operationsSite preparation for an oilSafety and Health. Regulations for ConstructionOnce the location for theLeveling site. Potential Hazards Figure 11 Levelling uneven groundPossible SolutionsAn introduction to drilling operationsTeach the employees about availableExcavation and trenching Figure 12 Mud pit. The scale and duration ofA reserve and settling pits mayPotential HazardsFigure 13 Excavation on a land rig sitePossible SolutionsAn introduction to drilling operationsFigure 14 Conductor holePrior to commencing the rigupSpecial companies may beConductor hole and conductor pipe.

This is a largest diameter hole, lined with pipe, also called a starterFigure 15; installing conductor hole. Some sites e.g. where geologyPotential HazardPossible SolutionsEquipment hard hats,An introduction to drilling operationsA rathole is a hole emanating from the rig floor, then 30 to 35 feetThis is either done by the portable rig that drills the conductor hole orPotential HazardPossible SolutionMousehole Figure 16 General conductor mouse and ratholeA mousehole is a shallow boreThis is either done by thePotential HazardPossible SolutionAn introduction to drilling operationsDepending on the location of theA site, and its access road, mustFigure 17 Transporting equipmentTransporting equipment by truck. Equipment is loaded on trucks at the previous drill site or storage yard,Potential Hazards. Figure 18 Transporting the derrickPossible SolutionsGeneral rules for protection againstAn introduction to drilling operationsEquipment is unloaded and placed approximately where it will beFigure 19 Unload doghouse at drill site location. Potential HazardPossible SolutionAn introduction to drilling operationsWorker safety awareness isRigging Up. Rigging up is placing and assemblingThere are many rig designs,This document thereforeDuring assembly of the rig,It should be noted that overheadThere may be two or more crewsFigure 21 Hoisting the drilling mast. Figure 22 Setting up the substructure. An introduction to drilling operationsSetting up the substructurePossible SolutionsEquipment is unloaded and pThis can be done duringSetting up the rig floor and mast or derrickOnce the substructure is set inThen, the draworks is set in placOn mechanical rigs, the enginesThe crown section is then raisedThe engines areFigure 23 Raising the doghouse and drill floor. Figure 25 Setting the mast on the rig floor. Figure 24 Setting the crown on the derrick standPossible Solutions. Figure 27 Raising the mast.

Install, inspect, and secureAn introduction to drilling operationsHandrails, guardrails, stairways, Figure 28 Stairways, guardrails and laddersPotential HazardsFalls from heights.Figure 29 StairwaysPossible SolutionsRepair them before installingKeep w alkways clean and free of debris and tripping hazards.An introduction to drilling operationsInstalling the power system. Installing the power system isAll power cords, belts, and chains need toSimultaneously, the fuel lines and tanks need to be hooked up. Then,Potential HazardsPossible SolutionsFigure 30 Engines and generators. Figure 31 Power houseWhile one crew finishes preparingThe mud tanks and mud pumpsThe mud lines are thenPotential Hazards. Figure 32 Mud pumpsFigure 33 Mud systemPossible SolutionsAn

introduction to drilling operationsInstalling the Auxiliary EquipmentPossible SolutionsAll remaining drilling and auxiliary eqFigure 34 Tubulars on pipe racksInspecting the rigPerform a completePossible SolutionsFigure 36 Inspecting the rig. Figure 37 Inspecting rig equipmentAfter production casing is run and cemented, the rig is taken down andThe rigging down process is basically theThe hazards and solutions are similar to those for rigging up. Figure 29 presents a land rig rigged up and ready to commenceIn addition figure 30 further presents a more modern modular land rigFigure 38 Typical light land rig. An introduction to drilling operationsAn introduction to drilling operationsDrilling ahead. Handling TubularsThe floor crewPossible SolutionsThe pipe is unloaded fBe aware of tubulars orFigure 40 Loading Tubulars. Figure 41 Catwalk, piperack and VdoorPossible SolutionsBefore each tour inspect theFigure 42 Typical drilling Mud fluidPreparing the drilling fluid. Drilling fluid is an importantA fluid is required in the wellboreFigure 43 Mixing pump and hopper.

The mud is monitoredDerrickman may periodicallyAn introduction to drilling operationsFigure 44 Typical chemical mixingPossible SolutionsSafety Data SheetsNote Tank cleaning is a highhazard operation requiring confinedAn introduction to drilling operationsServicing Operations. American Petroleum Institute API, 1999. August 1. Includes procedures for promotion and maintenanceInternational Association of Drilling. Contractors IADC.University of Texas at Austin.Starting Drilling. Figure 45 Lowering the drillTo start drilling, a surface drill bit is attached toOnce the complete drillstring and all theThe driller lowers the drill string and the kellyAn introduction to drilling operationsDrill CollarsTheir primary purpose is to provide both stiffness andDrillpipe itself is not able to withstand anyTherefore it isThis is achieved by use of the stiffer more rigid Drill. Collars that can be placed in compression withAlso by keeping the neutral point of the drill stringFigure 46 Typical dril collar. Stabilizers. Stabilizers as presented in figure 37 are used to keepFigure 47 Drillstring stabilizerCollars and the Drill pipe. This is due to the stiffness of the drillIn higher angle and horizontal wellboreDrill Pipe. Drillpipe constitutes the longest sectionAverage drill pipe sizes are 3”, 4. Drill pipes are also available in differentThe drill pipe used is also dependent on the diameter of the hole and the tensileThese ends are called a tool joint. Potential HazardsAn introduction to drilling operationsPotential HazardsPossible SolutionsPotential HazardsPossible SolutionsPotential HazardsPossible SolutionsBlowout prevention program. An introduction to drilling operationsInternational Association of Drilling Contractors IADC, 2006 andBits. Bits can be of different designs, depending on their purpose. The roller cone bitPDC bits as illustrated in figure 42 i.e. Polycrystalline diamond compact bit areFigure 49 Roller Tricone bit. Figure 50 Pumping through bit at surface.

Figure 51 PDC bit. An introduction to drilling operationsA conventional rotating system consists ofFigure 52 Top drive system TDSAll these components are now onMachine. A topdrive consists of an electricQuill. Underneath the Quill the. IBOP and the Lower Safety ValveLower Safety valve is like the. IBOP aFigure 53 Master bushings. Nowadays rigs are still fitted with aInside the rotary table a set ofAn introduction to drilling operationsThe saver sub isFigure 54 Full operating safetyTo shut of the drill string we either floatThere are also toolsFigure 55 IBOP stab in valve. For example duringTopdrive is in theFigure 56 Setting the drillstring slips into thePreparing to break out the pipe. The driller stops the drill string fromThe drillerThe floor hands set the slips aroundPotential HazardsPossible SolutionsAn introduction to drilling operationsThe tongs and cathead are used to break out the pipe. Either theFigure 57L Breaking out drillpipe using the rig tongsPotential HazardsPossible SolutionsAn introduction to drilling operationsPotential HazardsPossible SolutionsFigure 59 Making connection in mouse hole. Making up pipe in mousehole. The crew swings the kelly out overPotential HazardsAn introduction to drilling operationsFigure 60L Pipe in mouse hole ready forRaising the kelly and making a new connection. The driller uses the draworks to raise the kelly and attached joint outPotential Hazards. Figure 61 Raising the travellingPossible SolutionsAn introduction to drilling operationsAdding pipe to the string. The new joint is guided over

to the drillThe joints are threaded together usingThe draworks lifts the kelly andPotential HazardsPossible SolutionsFigure 62 Applying dope to a tubularFigure 63 Pulling slipsResuming drilling.

Figure 64 Lowering the kelly bushing into theThe driller starts the pump andPotential HazardsPossible SolutionsAn introduction to drilling operationsMud serves a couple of important functions within the drilling processA mud circulation system asFigure 65 Mud circulation systemValve in Top driveMud pits. Mud Pits can be seen as plain storage tanks. They have a couple ofBarite is the weighting material used for increasing the mud weight. Charge pumps. Charge pumps are connected to the mud pits and provide mud to the mudAn introduction to drilling operationsMud pumps. Mud pumps can beFigure 67 Cross section of a triplexAn introduction to drilling operationsThis is also the place where the gauges arePressure. Standpipe hose. The standpipe hose connects the standpipe to the topdrive or kelly. Swivel, wash pipe. The top drive or rotary table and kellyFigure 68 Washpipe. The wash pipe provided a circulatingAn introduction to drilling operationsOnce fluid flow exits the bit is then enter whatThe annulus is geometrical sectionSeparating mud from cuttings. To reclarify Drilling mud is thereforeThe mud flow path is for Mud to beAs the drill bit grinds rocks into drillIn order toFigure 70 Recirculation system. An introduction to drilling operationsOn top of the BOP low pressure piping is fitted. A funnel shaped pieceThis is alsoFigure 71 Drilling mud exiting the surface flowline. On the Bell nipple side outletsThe flow line is just a largeThe Flow divider is meant toThe first step in separating theThe liquid mud passes through the screens and is recirculated back toThe drill cuttings remain on top of the shale shaker screens; theAn introduction to drilling operationsOften two series of shaleIn general, the separatedFigure 74 Mud tank storage. Additional mechanicalThis mechanical equipment usually belongs to one of three typesThe separated fine solids areAn introduction to drilling operationsIf the solids collected by the shaleThe cuttings dryersFigure 77 Centrifuge.

An introduction to drilling operationsDrilling fluid functions. Drilling fluid is an important component in the drilling process. A fluidDrilling fluids types. There are several types of drilling fluids used depending on the drillingThe base may beThe oil and gas extraction industry hasAn introduction to drilling operationsDrilling muds typically have several additives. Air and foam fluidsThe following is a list of the more significant additivesHematite Fe2O3 An introduction to drilling operationsThe activities that comprise tripping are outline inFigure 79 Setting back a stand ofEvery time a connection has to be made, the topTo make this possible, the drill string is hungThis is done by meansThe Drill pipe is brought to the drill floor by use of a winch or pipeOn manual rigs pipeThe new joint is placed on top of the drillstring and will be made upAn introduction to drilling operationsTripping outUse proper handSlips have three. Setting the sl. The floor crew setsPossible SolutionsFigure 80 Setting the slipsPotential Hazards. Figure 81 Kelly set in its rathole inPossible SolutionsPotential HazardsPossible SolutionsPotential HazardsPossible SolutionsAn introduction to drilling operationsThe crew attaches elevators to the drillstring. Potential HazardsPossible SolutionsFigure 82 Example of elevators and elevator linksPotential HazardsPossible SolutionsFigure 83 Climbing derrick ladder to monkeyboardWorking in the monkey board. The derrickman climbs up theFrom here he unlatches thePotential HazardsPossible SolutionsFor Fall Protection guidance, consult, Fall Protection whenAn introduction to drilling operationsPotential HazardsFigure 85 Handling pipe on the monkeyPossible SolutionsPotential HazardsPossible SolutionsRaise tools with a line toAn introduction to drilling operationsMoving pipe to racking area Figure 86 Moving pipe to set back area. The stand is raised andPotential HazardsPossible SolutionsTripping in.

The sequence for tripping in to a well is as followsAn introduction to drilling operationsPotential HazardsPossible SolutionsFigure 87 Looking up to latch elevators to stand from the monkey board. An introduction to drilling operationsOn many of today’s modern rigs pipeExamples of this are

illustrated in theAn introduction to drilling operationsCasing is pipe usually larger in diameter and longer than drill pipe andCasing operations occur periodicallyThe activities involved in casing operations can vary according to theFigure 88 Installing casing. An introduction to drilling operationsFigure 89 Casing slips and elevators. Specialized casingNote The specialPotential HazardsPossible SolutionsBe aware ofAn introduction to drilling operationsCasing is run into the hole to a predetermined depth. Note The special service supervisor should hold a prejob meetingPotential Hazards. Figure 90 Lifting casing to the drill floorAn introduction to drilling operationsPossible SolutionsFigure 92 Casing float shoe. Installing casing accessories. As casing is being run, accessoriesNote The special service supervisorAn introduction to drilling operationsFigure 93 Casing centralizerPossible SolutionsCirculating and cementing. After the casing is landed, drilling fluid is circulated through the casingAfter circulating and conditioning the mud, the casing is cemented. During this process the casing is reciprocated or rotated to allow theUsually another special servicing company is hired to conductAn introduction to drilling operationsPotential HazardsPossible SolutionsFigure 94 Example high pressure cementing linesProperly trained personnel are essential for well control activities.

Well control consists ofThe first line of defense in well control is to have sufficient drilling fluid pressure in theDuring drilling, underground fluids such as gas, water, or oil under pressure theIf the formation pressure is greater than the mud pressure, there is the possibility of aThe activities involved in well control areAn introduction to drilling operationsFloats etc. During normal drilling operations the hydrostatic pressure created byWhen, for any reason, the well starts to flow the second barrier willThe wellcontrol equipment must enable the driller to shut in the wellIncase the well start to flow the mud will flow to surface in two ways.To shut of the drill string weFigure 97 IBOP. Figure 96 Kelly valve. There are also tools availableFor example during trippingThe BOP is equipped with aFigure 98 Annular preventer. The annular Preventer is a big rubberPreventers come in all kinds of differentAn introduction to drilling operationsPotential Hazard Figure 99 Land rig Blow out preventersPossible SolutionsAdditional InformationOperations. Second Edition, 2006, May. An introduction to drilling operationsMonitoring and Maintaining Mud System. The mud circulatory system consists of the elements shown in Fig.90. Each part of this system must function and be in good repair toIf the mud level increases, it may be a sign that a kick is in progress. On some rigs there is a mud float level gage which sounds anMaintenance Activities. Figure 100 Schematic of the circulating system The drill bit, drill collar, annulus, drill pipe, kelly andDrilling mud flows through the mud return line center upon itsMud passes through the suction line, and the mudFigure 101 Kick illustration Schematic of mudKICK occurring. Mud pit fills. Shutin well. Above thePossible SolutionsInstalling BOPs, Accumulator, and Choke Manifold. Figure 102 BOP preventers. The blowout preventer BOP,BOP during a kick.

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