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Titolo	Blowout and well control handbook // by Robert D. Grace ; with contributions by Bob Cudd, Richard S. Carden, and Jerald L. Shursen
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Descrizione fisica	1 online resource (x, 469 pages) : illustrations
Altri autori (Persone)	GraceRobert D
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Soggetti	Oil wells - Blowouts - Prevention Oil fields - Safety measures
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Equipment in well control -- Classic pressure control procedures while drilling -- Pressure control procedures while tripping -- Special conditions, problems, and procedures in well control -- Fluid dynamics in well control -- Special services in well control -- Relief well design and operations -- The underground blowout -- The al-Awda project : the oil fires of Kuwait. front cover; copyright; table of contents; front matter; Preface; body; 1. EQUIPMENT IN WELL CONTROL OPERATIONS; PRESSURE, EROSION, CORROSION, AND VIBRATION; PRESSURE; VIBRATION; EROSION; CORROSION; THREADED CONNECTIONS; THE STACK; THE CHOKE LINE; THE CHOKE MANIFOLD; THE VALVES; THE DRILLING CHOKE; THE PANIC

LINE; THE HEADER; THE SEPARATOR; THE KILL LINE; THE STABBING VALVE; 2. CLASSIC PRESSURE CONTROL PROCEDURES WHILE DRILLING; CAUSES OF WELL KICKS AND BLOWOUTS; MUD WEIGHT LESS THAN FORMATION PORE PRESSURE; FAILURE TO KEEP THE HOLE FULL AND SWABBING WHILE TRIPPING; LOST CIRCULATION; MUD CUT INDICATIONS OF A WELL KICKS; SUDDEN INCREASE IN DRILLING RATE; INCREASE IN PIT LEVEL OR FLOW RATE; CHANGE IN PUMP PRESSURE; REDUCTION IN DRILLPIPE WEIGHT; GAS, OIL, OR WATER-CUT MUD; SHUT-IN PROCEDURE; CIRCULATING OUT THE INFLUX; THEORETICAL CONSIDERATIONS; THE WAIT AND WEIGHT METHOD; SUMMARY 2; 3. PRESSURE CONTROL PROCEDURES WHILE TRIPPING; CAUSES OF KICKS WHILE TRIPPING; TRIP SHEETS AND FILLING PROCEDURES; PERIODIC FILLING PROCEDURE; CONTINUOUS FILLING PROCEDURE; TRIPPING INTO THE HOLE; SHUT-IN PROCEDURE; WELL KICKS WHILE TRIPPING; STRIPPING IN THE HOLE

4. SPECIAL CONDITIONS, PROBLEMS, AND PROCEDURES IN WELL CONTROL; SIGNIFICANCE OF SURFACE PRESSURES; A KICK IS TAKEN WHILE DRILLING; INFLUX MIGRATION; SAFETY FACTORS IN CLASSICAL PRESSURE CONTROL PROCEDURES; CIRCULATING A KICK OFF BOTTOM; DETERMINATION OF SHUT-IN DRILLPIPE PRESSURES; DETERMINATION OF THE TYPE OF FLUID THAT ENTERED THE WELLBORE; FRICTIONAL PRESSURE LOSSES; ANNULUS PRESSURE PROFILES WITH CLASSICAL PROCEDURES; CONSTANT CASING PRESSURE, CONSTANT DRILLPIPE PRESSURE, AND MODIFICATION OF THE WAIT AND WEIGHT METHOD; THE LOW CHOKE PRESSURE METHOD

REVERSE THE BUBBLE OUT THROUGH THE DRILLPIPE; THE OVERKILL WAIT AND WEIGHT METHOD; STRIPPING WITH INFLUX MIGRATION; OIL-BASE MUD IN PRESSURE AND WELL CONTROL OPERATIONS; FIRE; SOLUBILITY OF NATURAL GAS IN OIL-BASE MUD; FLOATING DRILLING AND SUBSEA OPERATION CONSIDERATIONS; SUBSEA STACK; SPACING OUT; SHUT-IN PROCEDURES; FLOATING DRILLING WELL CONTROL PROBLEMS; DEEP-WATER FLOATING DRILLING; SHALLOW GAS KICKS; 5. FLUID DYNAMICS IN WELL CONTROL; KILL-FLUID BULLHEADING; DYNAMIC KILL OPERATIONS; THE MOMENTUM KILL; 6. SPECIAL SERVICES IN WELL CONTROL; SNUBBING; EQUIPMENT AND PROCEDURES

EQUIPMENT SPECIFICATIONS; BUCKLING CONSIDERATIONS; SPECIAL BUCKLING CONSIDERATIONS: VARIABLE DIAMETERS; FIRE FIGHTING AND CAPPING; FIRE FIGHTING; EXTINGUISHING THE FIRE; CAPPING THE WELL; FREEZING; HOT TAPPING; JET CUTTING; 7. RELIEF WELL DESIGN AND OPERATIONS; HISTORY; ULSEL AND MAGNETIC INTERPRETATION INTRODUCED; MAGRANGE DEVELOPED; WELLSPOT DEVELOPED; MAGRANGE AND WELLSPOT COMPARED; RELIABILITY OF PROXIMITY LOGGING; RELIABILITY OF COMMERCIAL WELLBORE SURVEY INSTRUMENTS; SUBSURFACE DISTANCE BETWEEN RELIEF WELL AND BLOWOUT; SURFACE DISTANCE BETWEEN RELIEF WELL AND BLOWOUT; SUMMARY 7

RELIEF WELL PLAN OVERVIEW

Sommario/riassunto

As with his 1994 book, *Advanced Blowout and Well Control*, Grace offers a book that presents tested practices and procedures for well control, all based on solid engineering principles and his own more than 25 years of hands-on field experience. Specific situations are reviewed along with detailed procedures to analyze alternatives and tackle problems. The use of fluid dynamics in well control, which the author pioneered, is given careful treatment, along with many other topics such as relief well operations, underground blowouts, slim hole drilling problems, and special services such as