## Overview of Industry | Guidance/Best Practices Supporting Hydraulic Fracturing (HF) 🔨

Drilling and Well Servicing Structures Drilling and Well Servicing Structure (Inspection and Maintenance) **API Spec 6A** Wellhead and Christmas Tree Equipment **API Spec 7K Drilling Equipment** API RP 8B Hoisting equipment (Inspection and Maintenance) API Spec 8C **Hoisting Equipment API Spec 16A** Drill-through Equipment API Spec 16C Choke and Kill Systems API Spec 16D Control Systems for Drilling Well Control Equipment API RP 16ST Coiled Tubing Well Control Equipment Systems API Std 53 **Blowout Prevention Equipment Systems** API RP 92U Underbalanced Drilling Operations API Std 689 Reliability/Maintenance Data API Spec Q2 QMS Requirements for Service Organizations for the Petroleum and Natural Gas Industry **API Spec 12B** Production Liquid Storage Tanks (Bolted) **API Spec 12D** Production Liquid Storage Tanks (Field welded) **API Spec 12F** Production Liquid Storage Tanks (Shop welded) API Spec 12J Oil and Gas Separators **API Spec 12K** Indirect Type Oilfield Heaters API Spec 12L Vertical and Horizontal Emulsion Treaters Flame Arresters Operations, Testing and Maintenance

**API Spec 12P** Fiberglass Reinforced Plastic Tanks **API RP 12R1** Production Service Tanks (Inspection and Maintenance) **API RP 2350** Storage Tanks Overfill Protection **API Pub 4663** Remediation of Salt-Affected Soils **API Bull D16** Spill Prevention Control and Countermeasure Plan API RP 49 Drilling and Servicing Involving Hydrogen Sulfide API RP 54 Drilling and Servicing Operations Occupational Safety API RP 55 Gas Processing Involving Hydrogen Sulfide API RP 59 Well Control Operations API RP 64 Diverter Systems Equipment and Operations API RP 67 Oilfield Explosives Safety API RP 68 Oil and Well Servicing and Workover Operations Involving Hydrogen Sulfide API RP 74 **Production Operations Occupational Safety API RP 75L** Safety and Environmental Management Systems API RP 76 Contractor Safety Management **API Std 65-2** Isolating Potential Flow Zones **API RP 90-2** Annular Casing Pressure for Onshore Wells

**API Bull E5** Waste Management **API Bull HF4** Community Engagement API Spec 5L **API Spec 6D** Pipeline Valves **API RP 6DR** Repair and Remanufacture of Pipeline Valves API 6FA Fire Testing for Valves **API Std 1104** Pipeline Welding **API RP 1110** Steel Pipeline Pressure Testing **API RP 1133** Guidelines for Onshore Hydrocarbon Pipelines Affecting High Consequence Floodplains **API RP 1160** Managing System Integrity **API RP 1162 Public Awareness Programs API RP 1169** Pipeline Inspection - New Construction Pipeline SMS **API RP 1173** Sucker Rods **API Spec 11B** API Spec 11E Pumping Units **Guarding Pumping Units** API RP 11ER

NORM Management

**API Bull E2** 

**API Bull E3** 

**Environmental Protection Land Drilling Practices** 

Well Abandonment and Inactive Wells





**API RP 100-1** 

**API RP 100-2** 

API RP 50

API RP 51R



**Environmental Aspects Related to Onshore Operations** 

Environmental Protection Natural Gas Processing Plant Practices

Well Integrity and Fracture Containment

**Environmental Protection for Operations** 

API RP 5A5 **API Spec 5B** API RP 5B1 API RP 5C1 API TR 5C3 API RP 5C5 API RP 5C6 API Spec 5CT API Spec 5DP API Spec 7-1 API Spec 7-2 API RP 7G API RP 7G-2 **API Spec 10A** 

**API RP 10B-2** 

**API RP 10B-4** 

**API RP 10B-5** 

**API RP 10B-6** 

API Spec 10D

API RP 10D-2

API RP 10F

**API TR 10TR1** 

**API RP 5A3** 

Casing, Tubing, Drill Pipe Field Inspection Threading, Gauges and Thread Inspection Thread Gauging and Inspection Practices Casing and Tubing Care and Use Tubular Performance property calculations Casing and Tubing Connections Testing Welding Connections to Pipe API Spec 5CRA | Corrosion Resistant Alloy Pipe Casing and Tubing Rotary Shouldered Connection Threading and Gauges Drill Stem Elements (Inspection and Classification) Well Cement Testing Foamed Cement Testing Well Cement Shrinkage and Expansion Determination Cement Static Gel Strength Determination Bow Spring Casing Centralizers Centralizer Placement and Stop-Collar Testing Cement Float Equipment

**API TR 10TR4** API TR 10TR5 API Spec 13A **API RP 13B-1** API RP 13C API RP 13D **API RP 13I API RP 13J API RP 13M API RP 13M-4** API RP 19B API RP 19C API RP 19D API Std 11D2 API Std 11D3 **API Spec 14A** API RP 14B API Spec 14L Side-Pocket Mandrel Related Equipment **API RP 19G4** API Spec 19V Barrier Valves

API TR 10TR3 | Cement Thickening Time Tests Selection of Centralizers Solid and Rigid Centralizer Testing Drilling Fluids Water-based Drilling Fluids Testing **API RP 13B-2** Oil-Based Drilling Fluids Testing Drilling Fluids Processing System Evaluation Drilling Fluids Rheology Drilling Fluids Lab Testing Heavy Brines Testing Completion Fluids Viscous Properties Gravel-pack Fluid Leak-off Well Perforator Evaluation Proppants Properties Long-term Conductivity of Proppants API Spec 11D1 | Packers and Bridge Plugs Progressing Cavity Pump Systems Progressing Cavity Pump Surface Drive Systems Subsurface Safety Valves Subsurface Safety Valves (Inspection and Maintenance) Lock Mandrels and Landing Nipples API Spec 19G1 | Side-Pocket Mandrels API Spec 19G2 | Side-Pocket Mandrel Flow Control Devices API Spec 19G3 | Side-Pocket Mandrel Latches and Seals



Since 1924, API has developed standards for oil and natural gas operations.

API's formal consensus process is accredited by the American National Standards Institute (ANSI), the same institute that accredits U.S. national laboratories for their science and technology processes.

API standards are developed in an open process that requires regular review of its more than 600 standards covering all segments of the industry.

Nearly 200 API standards are cited over 3300 times in state regulations, and more than 100 standards are cited 270 times in federal regulations.



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Cement Sheath Evaluation API TR 10TR2 Cement Shrinkage and Expansion

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