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

API Spec 4F	Drilling and Well Servicing Structures	API RP 12N	Flame Arresters Operations, Testing and Maintenance	API RP 50
API RP 4G	Drilling and Well Servicing Structure (Inspection and Maintenance)	API Spec 12P	Fiberglass Reinforced Plastic Tanks	API RP 51R
API Spec 6A	Wellhead and Christmas Tree Equipment	API RP 12R1	Production Service Tanks (Inspection and Maintenance)	API RP 52
API Spec 7K	Drilling Equipment	API RP 2350	Storage Tanks Overfill Protection	API Bull E2
API RP 8B	Hoisting equipment (Inspection and Maintenance)	API Pub 4663	Remediation of Salt-Affected Soils	API Bull E3
API Spec 8C	Hoisting Equipment	API Bull D16	Spill Prevention Control and Countermeasure Plan	API Bull E5
API Spec 16A	Drill-through Equipment	API RP 49	Drilling and Servicing Involving Hydrogen Sulfide	API Bull HF4
API Std 16AR	Repair and Remanufacture of Drill-through Equipment	API RP 54	Drilling and Servicing Operations Occupational Safety	API Spec 5L
API Spec 16C	Choke and Kill Systems	API RP 55	Gas Processing Involving Hydrogen Sulfide	API Spec 6D
API Spec 16D	Control Systems for Drilling Well Control Equipment	API RP 59	Well Control Operations	API RP 6DR
API RP 16ST	Coiled Tubing Well Control Equipment Systems	API RP 64	Diverter Systems Equipment and Operations	API 6FA
API Std 53	Blowout Prevention Equipment Systems	API RP 67	Oilfield Explosives Safety	API Std 1104
API RP 92U	Underbalanced Drilling Operations	API RP 68	Oil and Well Servicing and Workover Operations	API RP 1110
API Std 689	Reliability/Maintenance Data		Involving Hydrogen Sulfide	API RP 1133
API Spec Q2	QMS Requirements for Service Organizations for the Petroleum	API RP 74	Production Operations Occupational Safety	
	and Natural Gas Industry	API RP 75L	Safety and Environmental Management Systems	API RP 1160
API Spec 12B	Production Liquid Storage Tanks (Bolted)	API RP 76	Contractor Safety Management	API RP 1162
API Spec 12D	Production Liquid Storage Tanks (Field welded)	API Std 65-2	Isolating Potential Flow Zones	API RP 1169
API Spec 12F	Production Liquid Storage Tanks (Shop welded)	API RP 90-2	Annular Casing Pressure for Onshore Wells	API RP 1173
API Spec 12J	Oil and Gas Separators	API RP 100-1	Well Integrity and Fracture Containment	API Spec 11B
API Spec 12K	Indirect Type Oilfield Heaters	API RP 100-2	Environmental Aspects Related to Onshore Operations	API Spec 11E
API Spec 12L	Vertical and Horizontal Emulsion Treaters	API Bull 100-3	Community Engagement Guidelines	API RP 11FR

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API RP 5A3 Thread Compounds **API RP 5A5** Casing, Tubing, Drill Pipe Field Inspection **API Spec 5B** Threading, Gauges and Thread Inspection API RP 5B1 Thread Gauging and Inspection Practices Casing and Tubing Care and Use API RP 5C1 API TR 5C3 Tubular Performance property calculations API RP 5C5 Casing and Tubing Connections Testing Welding Connections to Pipe API RP 5C6 API Spec 5CRA | Corrosion Resistant Alloy Pipe API Spec 5CT Casing and Tubing API Spec 5DP Drill Pipe API Spec 7-1 **Drill Stem Elements** API Spec 7-2 Rotary Shouldered Connection Threading and Gauges Drill Stem Design API RP 7G API RP 7G-2 Drill Stem Elements (Inspection and Classification) API Spec 10A Well Cements API RP 10B-2 Well Cement Testing **API RP 10B-4** Foamed Cement Testing **API RP 10B-5** Well Cement Shrinkage and Expansion Determination **API RP 10B-6** Cement Static Gel Strength Determination API Spec 10D Bow Spring Casing Centralizers **API RP 10D-2** Centralizer Placement and Stop-Collar Testing API RP 10F Cement Float Equipment API TR 10TR1 Cement Sheath Evaluation **API TR 10TR2** Cement Shrinkage and Expansion

R 10TR3	Cement Thickening Time Tests
R 10TR4	Selection of Centralizers
R 10TR5	Solid and Rigid Centralizer Testing
pec 13A	Drilling Fluids
P 13B-1	Water-based Drilling Fluids Testing
P 13B-2	Oil-Based Drilling Fluids Testing
P 13C	Drilling Fluids Processing System Evaluation
P 13D	Drilling Fluids Rheology
P 13I	Drilling Fluids Lab Testing
P 13J	Heavy Brines Testing
P 13M	Completion Fluids Viscous Properties
P 13M-4	Gravel-pack Fluid Leak-off
P 19B	Well Perforator Evaluation
P 19C	Proppants Properties
P 19D	Long-term Conductivity of Proppants
pec 11D1	Packers and Bridge Plugs
td 11D2	Progressing Cavity Pump Systems
td 11D3	Progressing Cavity Pump Surface Drive Syster
pec 14A	Subsurface Safety Valves
P 14B	Subsurface Safety Valves (Inspection and Mair
pec 14L	Lock Mandrels and Landing Nipples
pec 19G1	Side-Pocket Mandrels
pec 19G2	Side-Pocket Mandrel Flow Control Devices
pec 19G3	Side-Pocket Mandrel Latches and Seals
P 19G4	Side-Pocket Mandrel Related Equipment
pec 19V	Barrier Valves

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API standards are developed in an open process that requires regular review of its more than 700 standards covering all segments of the industry.

Nearly 240 API standards are cited over 4130 times in state regulations, and more than 130 standards are cited 430 times in federal regulations.



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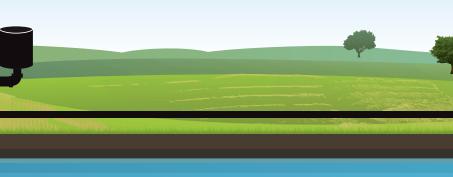
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Environmental Protection Natural Gas Processing Plant Practices Environmental Protection for Operations Environmental Protection Land Drilling Practices NORM Management Well Abandonment and Inactive Wells Waste Management Community Engagement Line Pipe **Pipeline Valves** Repair and Remanufacture of Pipeline Valves Fire Testing for Valves **Pipeline Welding** Steel Pipeline Pressure Testing Guidelines for Onshore Hydrocarbon Pipelines Affecting High Consequence Floodplains Managing System Integrity Public Awareness Programs Pipeline Inspection - New Construction Pipeline SMS Sucker Rods **Pumping Units Guarding Pumping Units** 

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