



SUBPART D - OIL AND GAS DRILLING OPERATIONS

(Last Updated-July 2019)

Permits

D-500 DOES THE LESSEE HAVE WRITTEN APPROVAL BEFORE DRILLING, SIDETRACKING, BYPASSING, OR DEEPENING OPERATIONS BEGIN ON A WELL?

Authority: 30 CFR 250.410

Enforcement Actions: S

D-504 DOES THE LESSEE HAVE WRITTEN OR ORAL APPROVAL TO REVISE A DRILLING PLAN, MAKE CHANGES IN MAJOR DRILLING EQUIPMENT, OR PLUG BACK A WELL?

Authority: 30 CFR 250.465(a)(1)

Enforcement Actions: S

Diverter Requirements

D-508 BEFORE DRILLING A CONDUCTOR OR SURFACE HOLE, IS THE DRILLING UNIT EQUIPPED WITH A DIVERTER SYSTEM CONSISTING OF A DIVERTER SEALING ELEMENT, DIVERTER LINES, AND CONTROL SYSTEMS?

Authority: 30 CFR 250.430

Enforcement Actions: S

D-512 IS THE SPOOL OUTLET AND DIVERTER LINE NOMINAL DIAMETER AT LEAST 10 INCHES FOR SURFACE WELLHEAD CONFIGURATIONS AND AT LEAST 12 INCHES FOR FLOATING DRILLING OPERATIONS?

Authority: 30 CFR 250.431(a)

Enforcement Actions: S

D-516 ARE BOTH OUTLETS PIPED TO PROVIDE DOWNWIND DIVERSION CAPABILITY, IF DUAL SPOOL OUTLETS ARE UTILIZED?

Authority: 30 CFR 250.431(b)

Enforcement Actions: S

D-520 IS THE DIVERter SYSTEM EQUIPPED WITH FULL OPENING REMOTE CONTROLLED VALVES IN THE FLOW AND VENT LINES THAT CAN BE OPERATED FROM AT LEAST ONE REMOTE CONTROL STATION AWAY FROM THE DRILL FLOOR IN ADDITION TO THE ONE ON THE DRILL FLOOR?

Authority: 30 CFR 250.431(c)
30 CFR 250.431(d)

Enforcement Actions: S

D-524 ARE ALL RIGHT ANGLE AND SHARP TURNS IN THE DIVERter LINES TARGETED?

Authority: 30 CFR 250.431(e)

Enforcement Actions: S

D-528 IS THE ENTIRE DIVERter SYSTEM ANCHORED AND SUPPORTED TO PREVENT WHIPPING AND VIBRATION AND IS ALL DIVERter CONTROL INSTRUMENTS AND LINES PROTECTED FROM PHYSICAL DAMAGE FROM THROWN OR FALLING OBJECTS?

Authority: 30 CFR 250.431(f)
30 CFR 250.431(g)

Enforcement Actions: S

D-532 IF FLEXIBLE HOSE IS USED FOR DIVERter LINES, DOES IT HAVE INTEGRAL END COUPLINGS?

Authority: 30 CFR 250.432(a)

Enforcement Actions: S

D-536 ARE BRANCH LINES INSTALLED TO PROVIDE DOWNWIND DIVERSION CAPABILITY, IF THE DIVERter SYSTEM UTILIZES ONLY ONE SPOOL OUTLET?

Authority: 30 CFR 250.432(b)(1)
30 CFR 250.432(b)(2)

Enforcement Actions: S

D-540 IF A SINGLE DIVERter LINE IS IN USE ON A DYNAMICALLY POSITIONED FLOATING DRILLING RIG, IS THE VESSEL'S HEADING MAINTAINED TO ALLOW FOR DOWNWIND DIVERSION?

Authority: 30 CFR 250.432(d)

Enforcement Actions: S

D-544 ARE THE DIVERTER SEALING ELEMENT, DIVERTER VALVES, AND DIVERTER CONTROL SYSTEMS, INCLUDING THE REMOTE CONTROL SYSTEM, ACTUATION TESTED AND THE VENT LINES FLOW TESTED WHEN INSTALLED?

Authority: 30 CFR 250.433

Enforcement Actions: W

D-548 ARE DIVERTER SEALING ELEMENTS AND DIVERTER VALVES PRESSURE TESTED TO A MINIMUM OF 200 PSI WHEN NIPPLED UP ON CONDUCTOR CASING, WITH NO MORE THAN 7 DAYS ELAPSED TIME BETWEEN SUBSEQUENT TESTS?

Authority: 30 CFR 250.433(a)

Enforcement Actions: W/S

D-552 ARE ACTUATION TESTS OF THE DIVERTER SEALING ELEMENT, DIVERTER VALVES, AND DIVERTER CONTROL SYSTEMS, INCLUDING THE REMOTE CONTROL SYSTEM, CONDUCTED AT LEAST ONCE EVERY 24 HOURS FOR A SURFACE STACK OR ONCE EVERY 7 DAYS FOR A SUBSEA STACK; AND ARE THESE TEST BEING ALTERNATED BETWEEN CONTROL STATIONS?

Authority: 30 CFR 250.433(a)
30 CFR 250.433(b)
30 CFR 250.433(c)

Enforcement Actions: W

D-556 ARE THE TIMES, DATES, AND RESULTS OF ALL DIVERTER PRESSURE TESTS, FLOW TESTS, AND ACTUATIONS RECORDED IN THE DRILLER'S REPORT AND IS EACH DIVERTER PRESSURE TEST RECORDED ON A PRESSURE CHART?

Authority: 30 CFR 250.433
30 CFR 250.434

Enforcement Actions: W/S

D-560 HAS THE ONSITE REPRESENTATIVE CERTIFIED (SIGNED AND DATED) THE DIVERTER PRESSURE CHART AS CORRECT?

Authority: 30 CFR 250.434(b)

Enforcement Actions: W

D-564 IS THE CONTROL STATION USED DURING THE DIVERTER PRESSURE TEST OR ACTUATION IDENTIFIED?

Authority: 30 CFR 250.434(c)

Enforcement Actions: W

D-568 ARE PROBLEMS OR IRREGULARITIES OBSERVED DURING DIVERTER TESTING OR ACTUATION, AND THE REMEDIES TO CORRECT PROBLEMS, RECORDED IN THE DRILLER'S REPORT?

Authority: 30 CFR 250.434(d)

Enforcement Actions: W

D-572 ARE PRESSURE CHARTS AND REPORTS PERTAINING TO THE DIVERTER TESTS AND ACTUATIONS RETAINED AT THE RIG FOR THE DURATION OF DRILLING THE WELL?

Authority: 30 CFR 250.434(e)

Enforcement Actions: W

D-576 IF THE DIVERTER OR BOP IS NIPPLED DOWN DURING THE 8 OR 12 HOUR WAITING PERIOD FOR CEMENTING, HAS IT BEEN DETERMINED SAFE TO DO SO BEFORE NIPPLING DOWN?

Authority: 30 CFR 250.422(b)

Enforcement Actions: W

Casing Requirements

D-580 IS CASING SET AS APPROVED?

Authority: 30 CFR 250.420

Enforcement Actions: W

D-584 DID THE OPERATOR ENSURE PROPER INSTALLATION OF THE CASING OR LINER IN THE SUBSEA WELLHEAD?

Authority: 30 CFR 250.423(a)
30 CFR 250.423(b)

Enforcement Actions: W/S

D-588 DID THE OPERATOR PERFORM A PRESSURE TEST ON THE CASING SEAL ASSEMBLY TO ASSURE PROPER INSTALLATION OF THE INTERMEDIATE AND PRODUCTION CASING STRINGS OR LINER IN THE SUBSEA WELLHEAD OR LINER HANGER?

Authority: 30 CFR 250.423(c)

Enforcement Actions: W/S

D-592

FOR EACH CASING STRING, IS THE MAXIMUM PRESSURE TO BE CONTAINED UNDER THE BOP STACK CALCULATED AND POSTED NEAR THE DRILLER'S STATION?

Authority: 30 CFR 250.456(f)

Enforcement Actions: W

D-596

IF THE CASING SETTING DEPTHS ARE MORE THAN 100 FEET TVD FROM THE DEPTH APPROVED IN THE PERMIT, HAVE THE CHANGES BEEN CERTIFIED BY A PROFESSIONAL ENGINEER AND HAVE THE CHANGES BEEN APPROVED BY THE DISTRICT MANAGER?

Authority: 30 CFR 250.428(b)

Enforcement Actions: W/S

D-600

IF A LINER IS USED AS AN INTERMEDIATE STRING BELOW A SURFACE STRING, OR PRODUCTION STRING BELOW AN INTERMEDIATE STRING, IS THE TOP OF THE LINER SET AT LEAST 100 FEET MEASURED DEPTH (MD) ABOVE THE PREVIOUS CASING SHOE?

Authority: 30 CFR 250.421(f)

Enforcement Actions: W/S

D-604

FOR THE FINAL CASING STRING OR LINER, DID THE OPERATOR INSTALL ONE MECHANICAL BARRIER, IN ADDITION TO CEMENT, TO PREVENT FLOW IN THE EVENT OF FAILURE IN THE CEMENT; AND HAS THE INSTALLATION BEEN DOCUMENTED IN THE END OF OPERATIONS REPORT (EOR)?

Authority: 30 CFR 250.420(b)(3)
30 CFR 250.141

Enforcement Actions: W/S

Cementing Requirements

D-608

WERE CEMENTING JOBS DESIGNED AND CONDUCTED SO THAT CEMENT COMPOSITION, PLACEMENT TECHNIQUES, AND WAIT TIMES ENSURE THAT THE CEMENT PLACED BEHIND THE BOTTOM 500 FEET MEASURED DEPTH (MD) OF CASING ATTAINS A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI BEFORE DRILLING OUT OF THE CASING OR BEFORE COMMENCING COMPLETION OPERATIONS?

Authority: 30 CFR 250.420(c)(1)

Enforcement Actions: W/S

D-612 IF THE HOLE FOR THE DRIVE OR STRUCTURAL CASING WAS DRILLED, WAS THE QUANTITY OF CEMENT USED SUFFICIENT TO FILL THE ANNULAR SPACE BACK TO THE MUD LINE?

Authority: 30 CFR 250.421(a)

Enforcement Actions: W

D-616 IS CEMENT FILL IN THE ANNULAR SPACE OF THE CONDUCTOR CASING VERIFIED BY OBSERVING CEMENT RETURNS, OR IS AN ADDITIONAL QUANTITY OF CEMENT USED TO ENSURE THE SPACE IS FILLED BACK TO THE MUD LINE?

Authority: 30 CFR 250.421(b)

Enforcement Actions: W/S

D-620 IS THE SURFACE CASING CEMENTED WITH A QUANTITY OF CEMENT THAT FILLS THE CALCULATED ANNULAR SPACE TO AT LEAST 200 FEET MEASURED DEPTH (MD) INSIDE THE CONDUCTOR CASING (OR AS OTHERWISE APPROVED BY THE DISTRICT MANAGER)?

Authority: 30 CFR 250.421(c)

Enforcement Actions: W/S

D-624 IS THE INTERMEDIATE CASING CEMENTED WITH AT LEAST A MINIMUM AMOUNT OF CEMENT TO FILL THE ANNULAR SPACE 500 FEET MEASURED DEPTH (MD) ABOVE THE CASING SHOE AND 500 FEET MD ABOVE EACH ZONE TO BE ISOLATED?

Authority: 30 CFR 250.421(d)

Enforcement Actions: W/S

D-628 IS ENOUGH CEMENT USED TO COVER AND ISOLATE ALL HYDROCARBON BEARING ZONES ABOVE THE PRODUCTION CASING SHOE, AT LEAST 500 FEET MEASURED DEPTH (MD) OF ANNULAR SPACE ABOVE THE CASING SHOE AND 500 FEET MD ABOVE THE UPPERMOST HYDROCARBON BEARING ZONE?

Authority: 30 CFR 250.421(e)

Enforcement Actions: W/S

D-632 AFTER CEMENTING CASING (OR LINER), WAS THE CEMENT HELD UNDER PRESSURE FOR THE REQUIRED LENGTH OF TIME?

Authority: 30 CFR 250.422(a)

Enforcement Actions: W/S

D-636 HAS A PRESSURE-INTEGRITY TEST BEEN RUN BELOW THE SURFACE CASING OR LINER, THE INTERMEDIATE CASING(S) OR LINER(S), OR AFTER DRILLING AT LEAST 10 FEET, BUT NO MORE THAN 50 FEET, OF NEW HOLE BELOW THE CASING SHOE?

Authority: 30 CFR 250.427

Enforcement Actions: W/S

D-640 WERE REMEDIAL ACTIONS, APPROVED BY THE DISTRICT MANAGER, TAKEN IF THERE WERE INDICATIONS OF AN INADEQUATE CEMENTING JOB?

Authority: 30 CFR 250.428(c)
30 CFR 250.428(d)

Enforcement Actions: W/S

D-644 WAS REMEDIAL ACTION TAKEN IF THE PRIMARY CEMENT JOB DID NOT ISOLATE ABNORMAL PRESSURE INTERVALS?

Authority: 30 CFR 250.428(e)

Enforcement Actions: W/S

D-648 IS CEMENT THAT IS DESIGNED TO SET BEFORE IT FREEZES, AND HAS A LOW HEAT OF HYDRATION, USED TO CEMENT ACROSS A PERMAFROST ZONE?

Authority: 30 CFR 250.428(i)

Enforcement Actions: W/S

D-652 ARE ALL PORTIONS OF THE ANNULUS, WHICH ARE UNCEMENTED AND OPPOSITE A PERMAFROST ZONE, PROTECTED BY A LIQUID THAT HAS A FREEZING POINT BELOW THE MINIMUM PERMAFROST TEMPERATURE AND IS IT TREATED TO MINIMIZE CORROSION?

Authority: 30 CFR 250.428(j)

Enforcement Actions: W/S

D-656 ARE THE RESULTS OF ALL TESTS AND HOLE-BEHAVIOR OBSERVATIONS MADE DURING THE COURSE OF DRILLING, RELATED TO FORMATION INTEGRITY AND PORE PRESSURE, RECORDED IN THE DAILY REPORT?

Authority: 30 CFR 250.427(a)

Enforcement Actions: W

Fluid Requirements

D-660 HAS DRILLING FLUID BEEN PROPERLY CONDITIONED, BY CIRCULATION, BEFORE STARTING OUT OF THE HOLE WITH DRILL PIPE OR IS THERE PROPER DOCUMENTATION IN THE DRILLER'S REPORT THAT SHOWS CIRCULATION WAS NOT NECESSARY?

Authority: 30 CFR 250.456(a)

Enforcement Actions: W

D-664 WHEN COMING OUT OF THE HOLE WITH DRILL PIPE, IS THE ANNULUS FILLED WITH DRILLING FLUID BEFORE THE CHANGE IN DRILLING FLUID DECREASES THE HYDROSTATIC PRESSURE BY 75 PSI, OR EVERY FIVE STANDS OF DRILL PIPE, WHICHEVER GIVES A LOWER DECREASE IN HYDROSTATIC PRESSURE; AND HAS THE NUMBER OF STANDS OF DRILL PIPE AND DRILL COLLARS THAT MAY BE PULLED PRIOR TO FILLING THE HOLE AND THE EQUIVALENT DRILLING FLUID VOLUME NEEDED TO FILL THE HOLE BEEN CALCULATED AND POSTED NEAR THE DRILLER'S STATION?

Authority: 30 CFR 250.456(c)

Enforcement Actions: W

D-667 IN AREAS WHERE PERMAFROST AND/OR HYDRATE ZONES MAY BE PRESENT, OR ARE KNOWN TO BE PRESENT, ARE DRILLING FLUID TEMPERATURES CONTROLLED?

Authority: 30 CFR 250.456(j)

Enforcement Actions: W

D-670 IS THE TEST FLUID IN THE HOLE CIRCULATED, REVERSE-CIRCULATED, OR HAS AN APPROPRIATE KILL WEIGHT FLUID BEEN BULLHEADED OUT OF THE DRILL STEM TEST TOOLS PRIOR TO PULLING THEM FROM THE HOLE; AND HAS IT BEEN RECORDED IN THE DRILLER'S REPORT?

Authority: 30 CFR 250.456(b)
30 CFR 250.456(h)

Enforcement Actions: W

D-674 IS DRILLING FLUID TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED PRACTICES AND ARE DRILLING FLUID TESTS PERFORMED ONCE EACH TOUR, OR MORE FREQUENTLY IF CONDITIONS WARRANT; AND ARE THE RESULTS RECORDED IN THE DRILLER'S REPORT?

Authority: 30 CFR 250.456(i)

Enforcement Actions: W/S

D-678 ARE MINIMUM QUANTITIES OF DRILLING FLUID AND DRILLING FLUID MATERIALS, INCLUDING WEIGHT MATERIALS, MAINTAINED AT THE DRILL SITE AS NECESSARY TO ENSURE WELL CONTROL; AND IF NOT, ARE DRILLING OPERATIONS SUSPENDED?

Authority: 30 CFR 250.418(b)
30 CFR 250.458(a)
30 CFR 250.458(c)

Enforcement Actions: W/S

D-682 ARE RECORDS OF DAILY INVENTORIES OF DRILLING FLUID AND DRILLING FLUID MATERIALS MAINTAINED AT THE WELL SITE?

Authority: 30 CFR 250.458(b)

Enforcement Actions: W

Other Drilling Requirements

D-686 ARE DRILLING OPERATIONS SUSPENDED WHEN THE SAFE DRILLING MARGIN, AS APPROVED IN THE PERMIT, IS NOT MAINTAINED?

Authority: 30 CFR 250.427(b)
30 CFR 250.250.414(c)

Enforcement Actions: W/S

D-690 ARE INCLINATION SURVEYS OBTAINED ON ALL VERTICAL WELLS AT INTERVALS NOT EXCEEDING 1,000 FEET DURING THE NORMAL COURSE OF DRILLING; AND ARE DIRECTIONAL SURVEYS GIVING BOTH INCLINATION AND AZIMUTH OBTAINED AT INTERVALS NOT EXCEEDING 500 FEET PRIOR TO OR UPON SETTING SURFACE OR INTERMEDIATE CASING, LINERS, AND AT TOTAL DEPTH ON ALL WELLS?

Authority: 30 CFR 250.461(a)(1)
30 CFR 250.461(a)(2)

Enforcement Actions: S

D-694 ARE DIRECTIONAL SURVEYS, GIVING BOTH INCLINATION AND AZIMUTH, OBTAINED ON ALL DIRECTIONAL WELLS AT INTERVALS NOT EXCEEDING 500 FEET DURING THE NORMAL COURSE OF DRILLING; AND AT ALL INTERVALS NOT EXCEEDING 180 FEET IN ALL PORTIONS OF THE HOLE WHEN ANGLE CHANGES ARE PLANNED?

Authority: 30 CFR 250.461(b)

Enforcement Actions: S

Safety Devices and Equipment

D-698 IS AN OPERABLE CROWN BLOCK SAFETY DEVICE INSTALLED TO PREVENT THE TRAVELING BLOCK FROM STRIKING THE CROWN BLOCK; AND HAS THE SAFETY DEVICE BEEN CHECKED FOR PROPER OPERATION AT LEAST ONCE A WEEK, AFTER EACH DRILL LINE SLIPPING OPERATION, AND ARE THE RESULTS RECORDED IN THE DRILLER'S REPORT?

Authority: 30 CFR 250.404

Enforcement Actions: S

D-702 IS AN OPERATIONAL DRILLING FLUID-PIT LEVEL INDICATOR, WITH BOTH AUDIBLE AND VISUAL WARNINGS, INSTALLED AND IN USE ON THE RIG FLOOR WHILE DRILLING OPERATIONS ARE BEING CONDUCTED?

Authority: 30 CFR 250.457(a)

Enforcement Actions: S

D-706 IS A MECHANICAL, VOLUMETRIC, OR ELECTRONIC DEVICE UTILIZED TO DETERMINE THE AMOUNT OF DRILLING FLUID REQUIRED TO FILL THE HOLE?

Authority: 30 CFR 250.457(b)

Enforcement Actions: S

D-710 ARE DRILLING FLUID RETURN INDICATOR DEVICES, WHICH INDICATE THE RELATIONSHIP BETWEEN DRILLING FLUID RETURN FLOW RATE AND PUMP DISCHARGE RATE, INSTALLED WITH VISUAL AND AUDIBLE WARNING ALARMS?

Authority: 30 CFR 250.457(c)

Enforcement Actions: S

D-714 ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS EQUIPPED WITH HIGH-CAPACITY MECHANICAL VENTILATION SYSTEMS, UNLESS SUCH VENTILATION IS PROVIDED BY NATURAL MEANS?

Authority: 30 CFR 250.459(a)(1)

Enforcement Actions: S

D-721 IF NOT CONTINUOUSLY ACTIVATED, ARE MECHANICAL VENTILATION SYSTEMS ACTIVATED UPON RECEIVING A SIGNAL FROM THE GAS DETECTORS, WHICH SHALL BE OPERATIONAL AT ALL TIMES, WHEN THE PRESENCE OF 1 PERCENT OR MORE OF COMBUSTIBLE GAS BY VOLUME IS INDICATED?

Authority: 30 CFR 250.459(a)(2)

Enforcement Actions: S

D-724 IF DISCHARGES FROM A MECHANICAL VENTILATION SYSTEM MAY BE HAZARDOUS, ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS MAINTAINED AT A NEGATIVE PRESSURE?

Authority: 30 CFR 250.459(a)(3)

Enforcement Actions: S

D-728 ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS, WHICH ARE MAINTAINED AT A NEGATIVE PRESSURE, PROTECTED WITH AT LEAST ONE OF THE FOLLOWING: (I) A PRESSURE- SENSITIVE ALARM, (II) OPEN-DOOR ALARMS ON EACH ACCESS TO THE AREA, (III) AUTOMATIC DOOR-CLOSING DEVICES, (IV) AIR LOCKS, OR (V) OTHER DEVICES APPROVED BY THE DISTRICT MANAGER?

Authority: 30 CFR 250.459(a)(3)

Enforcement Actions: S

D-732 ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS FITTED WITH GAS DETECTORS AND ALARMS, EXCEPT IN OPEN AREAS WHERE ADEQUATE VENTILATION IS PROVIDED BY NATURAL MEANS, AND ARE GAS DETECTORS CALIBRATED AND TESTED AT LEAST EVERY 90 DAYS?

Authority: 30 CFR 250.459(b)

Enforcement Actions: S

D-736 IS OPERABLE GAS DETECTING EQUIPMENT INSTALLED TO MONITOR DRILLING FLUID RETURNS, WITH THE REQUIRED TYPE OF INDICATORS LOCATED ON THE RIG FLOOR OR IN A CONTINUOUSLY MANNED DRILLING FLUID LOGGING UNIT HAVING IMMEDIATE COMMUNICATION WITH THE RIG FLOOR?

Authority: 30 CFR 250.457(d)

Enforcement Actions: S

D-740 ARE ALL CLASSIFIED DRILLING FLUID-HANDLING AREAS EQUIPPED WITH EITHER EXPLOSION-PROOF OR PRESSURIZED ELECTRICAL EQUIPMENT TO PREVENT THE IGNITION OF EXPLOSIVE GASES?

Authority: 30 CFR 250.459(c)

Enforcement Actions: S

D-744 WHERE AIR IS USED FOR PRESSURIZING EQUIPMENT, IS THE AIR INTAKE LOCATED OUTSIDE OF, AND AS FAR AS PRACTICABLE, FROM HAZARDOUS AREAS?

Authority: 30 CFR 250.459(c)

Enforcement Actions: S

D-748

ARE MECHANICAL VENTILATION SYSTEMS FITTED WITH ALARMS, WHICH ARE ACTIVATED UPON A FAILURE OF THE SYSTEM?

Authority: 30 CFR 250.459(d)

Enforcement Actions: S

D-752

IS AN OPERABLE DRILLING FLUID-GAS SEPARATOR AND OPERABLE DEGASSER INSTALLED PRIOR TO COMMENCEMENT OF DRILLING OPERATIONS AND MAINTAINED THROUGHOUT THE DRILLING OF THE WELL?

Authority: 30 CFR 250.456(g)

Enforcement Actions: S

D-756

IS THE DISTRICT MANAGER GIVEN AT LEAST 24 HOURS NOTICE BEFORE STARTING A WELL TEST?

Authority: 30 CFR 250.460(b)

Enforcement Actions: W
