Effective February 2004

MINERALS MANAGEMENT SERVICE
DRILLING INSPECTION PINC LIST
ANNOUNCED AND UNANNOUNCED/SURFACE AND SUBSEA

RIG ID. NO._____ INSP DATE____/____/____ DISTRICT_____ TYPE INSP: PRIMARY___SECONDARY___

RIG NAME_____TOOL PUSHER_____CO REP._____

AREA/BLOCK_____LEASE OCS-G_____WELL_____TYPE WELL_____

OPERATOR_____OP ID_____PRESENT OPERATION _____

CODE INSPECTOR(S) MILES TO SHORE_____ APD APPROVAL ____/____/____

INSP TIME _____ _____ WATER DEPTH _____ SPUD DATE ____/____/____

WAIT TIME _____ _____ KB-ML _____ PERMIT TD MD_____FT

TVD_____FT

TRVL TIME _____ _____ RIG PHONE _____ DRLG TD _____FT

TOTAL _____ P&A DATE PREVIOUS WELLBORE _____ SIDETRACK DATE _____

APPROVED FROM APD

TYPE CASING	HOLE SIZE	CASING SIZE	GRADE	WT/FT	INT YLD	MD SET AT	TVD SET AT	SX/CT CMT	CASING TEST	BOP TEST	MIN MUD
DRIVE											
COND											
SURF											
INTR											
PROD											
LINR											

FROM FIELD INFORMATION
CASING

TYPE CASING	HOLE SIZE	CASING SIZE	GRADE	WT/FT	INT YLD	MD SET AT	TVD SET AT	SX/CT CMT	CSG TEST PRESS	TEST TIME	WOC TIME
DRIVE											
COND											
SURF											
INTR											
PROD											
LINR											

BOP TEST

WP RAM BOP(S) _____ LAST TEST DATE____/____/____ TEST PRESS HIGH_____ LOW _____

WP ANNULAR BOP(S)_____ LAST TEST DATE____/____/____ TEST PRESS HIGH_____ LOW

PRESSURE INTEGRITY TEST (CSG. SHOE TEST)

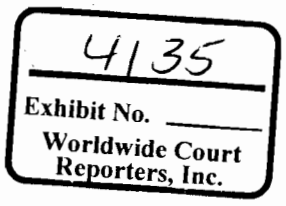
APPROVAL FROM APD	SURFACE INTER _____	EQM: LQM: LQM	FROM FIELD INFORMATION	SURFACE INTER _____	EQM: LQM: LQM

MUD PROPERTIES

MUD WT	WATER BASE		OIL BASE		REMARKS

LEGEND: W = warning C = Component / Well Shut In S = Structure / Facility Shut In *TYPE WELL: EX = Exploratory DV = Development*

IES001-008251



IES001-008251

ENFORCEMENT ACTION(S)

				SHUT DOWN		RESUMED			
LINE NMBR	INC NMBR	ITEM	ENF ACT	DATE MM/DD/YY	TIME HR:MN	DATE MM/DD/YY	TIME HR:MN	HRS DOWN	COMMENTS

REMARKS

SAFE AWARD CRITERIA FOR EVALUATION

	POINTS ASSIGNED	MULTIPLIER	TOTAL
MAINTENANCE OF FACILITY		1	
GENERAL HOUSEKEEPING		2	
ACCURACY AND COMPLETENESS OF RECORDS		1	
AVAILABILITY OF REGULATIONS AND APPROVED PLANS		1	
TRAINING AND SAFETY AWARENESS OF PERSONNEL		2	
COOPERATION OF PERSONNEL		2	
UTILIZATION OF NEW TECHNOLOGY		1	
OVERALL INSPECTION		2	

EVALUATION REMARKS (INCLUDE POSITIVE OR UNDESIRABLE EVENTS)

ASSIGNING OF POINTS

0 = UNSATISFACTORY

1 = SATISFACTORY

RESULTING

2 = OUTSTANDING

RATING SCALE:

0 = FAILURE

1 - 6 = BELOW AVERAGE

7 - 17 = AVERAGE

18 - 23 = ABOVE AVERAGE

24 = EXCELLENT

TOTAL POINTS RECEIVED _____

ADDED OR SUBTRACTED POINTS

FROM ABOVE EVENTS (1-2) _____

TOTAL POINTS _____

OVERALL RATING

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INC #	IDENTIFICATION	CODE
G-100	Is the facility identified as required? (w/operator, area, block, and rig name 12" lettering - one sign side or corner permanently affixed and visible rig ID is acceptable) **CFR 250.154**	W
	OPERATIONS	
G-110	Does the lessee perform all operations in a safe and workmanlike manner and provide for the preservation and conservation of property and the environment? **CFR 250.107(a)**	W/C/S
G-111	Does the lessee maintain all equipment in a safe condition to provide for the protection of the lease and associated facilities? **CFR 250.107**	W/C/S
G-112	Does the lessee provide for the safety of all personnel and take all necessary precautions to correct and remove any hazardous oil and gas accumulation or other health, safety, or fire hazards? **CFR 250.107**	W/C/S
	ENGINES	
G-155	Are diesel engines equipped with an air intake shutdown device? **CFR 250.510, 610, 803(b)(5)(ii)**	C
	ELECTRICAL	
E-108	Are electrical installations made in accordance with API RP 500 and API RP 14F or API RP 505 and API RP 14FZ? **CFR 250.114(a), & (c)**	W/C/S
	MARKING OF EQUIPMENT	
G-250	Are all loose materials, small tools, and other small objects kept in a storage area or a marked container when not in use? **CFR 250.300(e)(1)**	W
G-251	Are skid-mounted equipment, portable containers, spools or reels, and drums clearly marked with the owner's name durable enough to resist the affects of the environmental conditions? **CFR 250.300(e)(3), 300(e)(4)**	W
G-253	Are all materials, equipments, tools, containers, and other items that are lost overboard recorded on the facility's daily operations report? **CFR 250.300(d)**	W
	WELDING AND BURING	
G-300	Is a copy of the welding, burning, and hot tapping plan and approval letter available on the facility? **CFR 250.109(b)(1)**	W
G-301	Is a drawing showing the locations of safe welding and burning areas maintained on the facility? **CFR 250.109(b)(2)**	W
	POLLUTION PREVENTION	
E-100	Is the lessee preventing pollution of offshore waters? **CFR 250.300(a)**	W/C/S
E-101	Is the lessee disposing of drill cuttings, sand, and other well solids as approved? **CFR 250.300(b)(2)**	C/S
E-102	Is the facility equipped with the curbs, gutters, and drip pans necessary to collect all contaminants not authorized for discharge? **CFR 250.300(b)(4)**	W/C/S
E-103	Is each drain piped to a sump system that automatically maintains the oil at a level to prevent discharge of oil into offshore waters? (Platform Rigs Only) **CFR 250.300(b)(4)**	W/C/S
E-107	Is the lessee adhering to the prohibition on the addition of petroleum-based substances to the mud system without prior approval? **CFR 250.300(b)(1)**	S
E-108	Is the lessee preventing the disposal of equipment, cables, chains, containers, and other material into offshore waters? **CFR 250.300(b)(6)**	W/S
E-120	Are records of the daily pollution inspections maintained at the facility? **CFR 250.301(a)**	W
	GENERAL	
D-100	Is an operable crown block safety device installed to prevent the traveling block from striking the crown block? **CFR 250.404**	S
D-101	Is the crown block safety device checked for proper operation at least once each week, after each drill-line slipping operation, and are the results entered into the drillers report? **CFR 250.404**	
	DIRECTIONAL SURVEYS	
D-110	Are inclinational surveys obtained on all vertical wells at intervals not exceeding 1,000 feet during the normal course of drilling? **CFR 250.461(a)(1)**	S
D-111	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? **CFR 250.461(b)**	S
D-112	Are directional surveys giving both inclination and azimuth obtained on all directional wells at intervals not exceeding 100 feet in all portions of the hole when angle changes are planned? **CFR 250.461(b)**	S
D-113	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? **CFR 250.461(a)(2)**	S

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INC #	MOVING DRILLING RIGS	CODE
D-120	Are all wells in the same well-bay which are capable of producing hydrocarbons shut-in below the surface with a pump-through-type tubing plug and at the surface with a closed master valve prior to moving drilling rigs and related equipment (or as otherwise approved by the District Supervisor)? **CFR 250.406(b)**	W/C
D-121	Is the movement of all drilling units on and off location reported to the District Supervisor 24 hours prior to the movement, including the rig name, lease number, well number, and the expected time of arrival or departure? **CFR 250.403(a), 403(b)**	W
D-130	Is an operable ESD station located near the driller's console on platforms where there are producing wells or other hydrocarbon flow? **CFR 250.406(a)**	C
	CASING PROGRAM	
D-150	Is casing set as approved? **CFR 250.420**	W
D-152	Has a pressure-integrity test been run below the surface casing, the intermediate casing(s), and liner(s) used as intermediate casing(s)? **CFR 250.427**	W/S
D-153	Are drilling operations suspended when the safe margin, as approved by the District Supervisor, between the mud weight in use and the equivalent mud weight at the casing shoe is not maintained? **CFR 250.427(b)**	W/S
D-154	Are the results of all tests and of hole-behavior observations made during the course of drilling related to formation integrity and pore pressure recorded in the driller's report? **CFR 250.427(a)**	W
D-155	If the hole for the drive or structural casing was drilled, was a quantity of cement sufficient to fill the annular space back to the mud line used? **CFR 250.421(a)**	W
D-156	Is cement fill in the annular spaces of the conductor casing verified by the observing cement returns, or is an additional quantity of cement used to assure the space is filled back to the mud line? **CFR 250.421(b)**	W/S
D-157	Is surface casing cemented with a quantity of cement that fills the calculated annular space to at least 200 feet inside the conductor casing (or as otherwise approved by the District Supervisor)? **CFR 250.421(c)**	W/S
D-158	Have the surface, intermediate, and production casing been pressure tested to 70 percent of the minimum internal-yield pressure of the casing, and has the conductor casing been tested to a minimum of 200 PSI for 30 minutes, with no more than 10 % pressure drop during the test, (or as otherwise approved by the District Supervisor)? **CFR 250.423**	W/S
D-159	Are all casing and liner pressure tests recorded on a chart certified (signed and dated) by the onsite representative with the time, date, and results? **CFR 250.426**	W
D-160	Is each production liner (and liner lap) tested to a minimum of 500 psi above formation fracture pressure at the shoe of the casing into which the liner is lapped (or as otherwise approved by the District Supervisor)? **CFR 250.425(b)**	W/S
D-161	Is the drilling liner (and liner lap) test to a pressure at least equal to the anticipated pressure to which it will be subject during the formation pressure integrity test below that liner shoe or subsequent liner shoe if set? **CFR 250.425(a), 425(c)**	W/S
D-163	Has the casing been pressure-tested, callipered, or otherwise evaluated every 30 days during prolonged operations? **CFR 250.424(a), 424(b)**	W/S
D-164	After cementing surface, intermediate, or production casing (or liners), was the cement held under pressure for the required length of time? **CFR 250.422(a)**	W
D-165	Were cementing jobs conducted as designed so that cement composition, placement techniques, and wait times ensure that the cement placed behind the bottom 500 feet of casing attains a minimum compressive strength of 500 psi before drilling out of casing or before commencing completion operation? **CFR 250.420(c)**	W
D-166	Is the intermediate casing cemented with at least a minimum amount of cement to fill the annular space 500 feet above the casing shoe and 500 feet above each zone to be isolated? **CFR 250.421(d)**	W
D-167	If a liner is used as conductor or surface casing, is the top of the liner set at least 200 feet above the previous casing/liner shoe? **CFR 250.421(f)**	W
D-168	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 above the previous casing string shoe? **CFR 250.421(f)**	W
D-169	Is enough cement used to cover or isolate all hydrocarbon bearing zones, at least 500 feet of annular space above the casing shoe and 500 feet above the uppermost hydrocarbon bearing zone? **CFR 250.421(e)**	W
D-171	If the casing setting depths are more than 100 feet TVD from the depth approved in the APD, has the change been approved by the District Supervisor? **CFR 250.428(b)**	W/S
D-172	Were remedial actions, approved by the District Supervisor, taken if there were indications of an inadequate cementing job? **CFR250.428(c), 428(d)**	W
D-173	Was remedial action taken if the primary cement job did not isolate abnormal pressure intervals? **CFR 250.428(e)**	W
D-174	Are at least two cemented casing strings in the well prior to producing the well? **CFR 250.428(f)**	W

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INC #	BOP SYSTEMS AND COMPONENTS	CODE
D-200	Does the working-pressure rating of all BOP components exceed the maximum anticipated surface pressure to which they may be subjected? **CFR 250.440**	S
D-201	Does the accumulator system provide sufficient capacity to supply 1.5 times the volume of fluid necessary to close and hold closed all BOP system components with a minimum pressure of 200 psi above the pre-charge pressure without assistance from a charging system? **CFR 250.441(c)**	S
D-202	Have accumulator regulators, supplied by rig air and without a secondary source of pneumatic supply, been equipped with manual overrides or other devices provided to ensure capability of hydraulic operations if rig air is lost? **CFR 250.441(e)**	S
D-203	Is an automatic backup accumulator-charging system, supplied by a power source independent from the power source to the primary accumulator-charging system, and possessing sufficient capability to close all BOP components and hold them closed, provided? **CFR 250.443(a)**	S
D-204	Is at least one operable remote BOP control station, in addition to the one on the drilling floor, provided in a readily accessible location away from the drilling floor? **CFR 250.443(b)**	S
D-205	Is a drilling spool with side outlets provided if side outlets are not provided in the body of the BOP stack to provide for separate kill and choke lines? **CFR 250.443(c)**	S
D-207	Is each kill and choke line equipped with two full opening valves, with at least one remote control valve for surface and all remote control valves for subsea? **CFR 250.443(d)**	S
D-208	Is a fill-up line installed above the uppermost preventer? **CFR 250.443(e)**	S
D-209	Do the choke manifold components have a rated working pressure at least as great as the rated working pressure of the ram type BOP'S? **CFR 250.444(b)**	S
D-211	If buffer tanks are installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together, are isolation valves installed on each line? **CFR 250.444(b)**	S
D-212	Do valves, pipes, flexible steel hoses, and other fittings upstream of the choke manifold have pressure ratings at least as great as the rated working pressure of the ram-type BOP's? **CFR 250.444(e)**	S
D-213	Is wellhead assembly with a rated working pressure that exceeds the MASP installed? **CFR 250.443(g)**	S
D-214	Is a full-opening kelly valve installed below the swivel (upper Kelly valve)? **CFR 250.445(a)**	S
D-215	Is a full opening, strippable, Kelly valve installed at the bottom of the Kelly (lower Kelly valve)? **CFR 250.445(b), 445(h)**	S
D-216	With a mud motor in service and while using drill pipe in lieu of a kelly, is one kelly valve located above and one strippable Kelly valve located below the joint of drill pipe employed in lieu of the Kelly? **CFR 250.445(c)**	S
D-217	On a top-drive system equipped with a remote controlled valve, is a strippable Kelly valve installed below the remote controlled valve? **CFR 250.445(d)**	S
D-218	Is a wrench to fit each manually operable valve readily accessible to the drilling crew? **CFR 250.445(i)**	S
D-219	Are the inside BOP and full-opening drill-string safety valves, fitting all sizes of pipe in the drill-string, in the open position on the rig-floor at all times while drilling operations are being conducted? **CFR 250.445(e), 445(f)**	S
D-220	Is a safety valve in the open position available on the rig floor to fit the casing being run in the hole? **CFR 250.445(g)**	W/S
D-221	Are locking devices installed on the ram-type preventers? **CFR 250.443(f)**	S
D-222	If a tapered drill-string is in use, are two sets of rams capable of sealing around the larger size drill-string and one set of rams capable of sealing around the smaller size drill-string installed? **CFR 250.451(e)**	S
D-223	Is the choke line installed on the BOP stack above the bottom ram? **CFR 250.443(d)(1)**	S
D-224	Is the kill line installed on the BOP stack? **CFR 250.443(d)**	S
D-225	If a BOP control station or pod does not perform properly, are drilling operations suspended until that station or pod is operable? **CFR 250.451(d)**	W/S
	SURFACE BOP SYSTEMS	
D-231	If a remote controlled valve is not installed in the kill line, are both readily accessible manual valves and is the check valve installed between the manual valves and the pump? **CFR 250.443(d)(3)**	S
D-232	Prior to drilling below surface casing, is a BOP system installed consisting of at least four remote-controlled, hydraulically-operated BOP's including at least two equipped with pipe rams, one with blind or blind shear rams and one annular type? **CFR 250.441(a)**	S
	SUBSEA BOP SYSTEMS	
D-240	Prior to drilling below surface casing with a subsea stack, are there at least four remote-controlled, hydraulically operated BOP's including at least two equipped with pipe rams, one with blind-shear rams and one annular type? **CFR 250.442(a), 442(b)**	S
D-241	Is the accumulator closing system to provide fast closure of the BOP components and to operate all critical functions in case of a loss of the power fluid connection to the surface installed in accordance with API RP 53? **CFR 250.442(c)**	S
D-242	Does the BOP system include operable dual-pod control systems to ensure proper and independent operations? **CFR 250.442(d)**	S

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INC #	BOP TESTS, ACTUATIONS, INSPECTIONS, AND MAINTENANCE	CODE
D-250	Have all BOP system components been successfully tested to a low pressure of 200 psi to 300 psi prior to conducting high pressure tests? **CFR 250.448(a)**	W/S
D-251	Are ram type BOP's, choke manifold, and other BOP equipment pressure tested to a pressure equal to the rated working pressure of the equipment or to a pressure approved in the APD? **CFR 250.448(b)**	W/S
D-252	Are safety valves actuated prior to running casing and recorded in the drillers report? **CFR 250.449(i), 450**	W
D-253	Are surface and subsea BOP systems pressure tested before drilling out each string of casing or liner or as otherwise approved by the District Supervisor? **CFR 250.447(e)**	W/S
D-254	When the BOP tests are postponed due to well control problems, is the BOP test performed on the first trip out of the hole and are the specific reasons for postponing the testing recorded in the drillers report? **CFR 250.451(e)**	W
D-256	Are annulars and ram BOP's function tested every 7 days between pressure tests? **CFR 250.449(h)**	W/S
D-257	Are variable-bore pipe rams pressure tested against the largest and smallest sizes of pipe in use, excluding drill collars and bottom hole tools? **CFR 250.449(f)**	W/S
D-258	Are affected BOP components pressure tested following disconnection or repair of any well-pressure containment seal in the wellhead or BOP stack assembly? **CFR 250.449(g)**	W/S
D-259	Are the BOP systems visually inspected each day for the surface stacks or at lest once every three days for subsea stacks? **CFR 250.446(b), 450**	W
D-260	Are the time, date, and results of all pressure tests, actuations, and inspections of BOP system, system components, and marine risers recorded in the driller's report? **CFR 250.450**	W
D-261	Are BOP test pressures recorded on a pressure chart or digital recorder? **CFR 250.448(d), 450(a)**	W
D-262	Is the test interval for each BOP component tested for a minimum of 5 minutes, 3 minutes on the outermost half of a chart, or on a digital recorder to demonstrate that the component is holding pressure? **CFR 250.448(d)**	W/S
D-263	Are BOP test pressure charts certified (signed and dated) as correct by the operator's representative at the facility? **CFR 250.450(b)**	W
D-264	Does the documentation indicate the sequential order of BOP and auxiliary equipment testing and the pressure and duration of each test? **CFR 250.450(e)**	W
D-265	Is the control station or pod used during the BOP system testing identified in the driller's report or referenced documents? **CFR 250.450(c), 450(d)**	W
D-266	Are any problems or irregularities observed during BOP system testing identified and actions taken to remedy such problems or irregularities recorded? **CFR 250.450(c), 450(e)**	W
D-267	Are all records including pressure charts, driller's report, and referenced documents of BOP tests, actuations, and inspections available at the facility for the duration of the drilling activity? **CFR 250.450(c), 450(f)**	W
D-268	Are all records related to casing and liner pressure tests, diverter tests, and BOP tests retained for a period of two years after completion of the drilling operations? **CFR 250.467 (b)**	W
D-269	Are blind or blind-shear rams tested during a stump test and at all casing points without exceeding 30 days between tests? **CFR 250.449(d), 449(e)**	W/S
	SURFACE BOP TESTS	
D-270	Are BOP systems pressure tested when installed? **CFR 250.447(a)**	W/S
D-271	Is the surface BOP system pressure tested with water? **CFR 250.449(a)**	W/S
D-272	Is the annular-type BOP pressure tested with water to 70 percent of its rated working pressure? **CFR 250.448(c), 449(a)**	W/S
D-273	Are surface BOP systems pressure tests begun before 14 days have elapsed since the last BOP pressure test was completed, alternating between control stations? **CFR 250.447(b), 449(c)**	W/S
D-274	Are the bonnet seals tested before running the casing when casing rams are installed in the BOP stack? **CFR 250.451(f)**	W
	SUBSEA BOP TESTS	
D-281	Are subsea BOP system components stump pressure tested at the surface with water to their rated working pressure? **CFR 250.449(b)**	W/S
D-282	Are subsea annular-type BOP's stump pressure tested at the surface with water to 70 percent of their rated working pressure or to the pressure in the approved APD? **CFR 250.448(c), 449(b)**	W/S
D-283	Was the subsea BOP stack pressure tested after installation? **CFR 250.447(a)**	W/S
D-285	Are BOP systems pressure testing begun before 14 days have elapsed since the last BOP test, alternating between control stations and pods? **CFR 250.447(b), 449(c)**	W/S

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INC #	WELL-CONTROL DRILLS	CODE
D-290	Are well-control drills conducted for each drilling crew and recorded in the driller's report? **CFR 250.462, 462(e)**	W
D-291	Is a copy of the complete well-control drill plan posted on the rig floor or bulletin board? **CFR 250.462(a)**	W
D-292	Are drills conducted in accordance with the well-control drill plan? **CFR 250.462, 462(a), 462(b)**	W
	DIVERTER SYSTEMS	
D-300	When 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? **CFR 250.430**	S
D-301	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 in addition to the one on the drilling floor? **CFR 250.431(c), (d)**	S
D-302	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? **CFR 250.433**	W
D-305	Are all right-angle and sharp turns in the diverter lines targeted? **CFR 250.431(c)**	S
D-306	Does flexible hose used for diverter lines have integral end couplings? **CFR 250.432(a)**	S
D-307	Is the entire diverter system anchored and supported to prevent whipping and vibration? **CFR 250.431(f)**	S
D-308	Are all diverter control instruments and lines protected from physical damage from thrown and falling objects? **CFR 250.431(g)**	S
D-309	Are all diverter pressure test, flow test, and actuation results recorded in the drillers report? **CFR 250.433, 434**	W
D-311	Are branch lines installed to provide downwind diversion capability, if the diverter system utilizes only one spool outlet? **CFR 250.432(b)(1), 432(b)(2)**	S
D-312	Is each diverter pressure test recorded on a pressure chart? **CFR 250.434(a)**	W/S
D-313	Has the onsite representative certified (signed and dated) the diverter pressure chart as correct? **CFR 250.434(b)**	W
D-314	Is the control station used during the diverter test or actuation identified? **CFR 250.434(c)**	W
D-315	Are problems or irregularities observed during diverter testing or actuation, and the remedies recorded in the drillers report? **CFR 250.434(d)**	W
D-316	Are pressure charts and reports pertaining to the diverter test and actuations retained at the rig for the duration of drilling the well? **CFR 250.434(e)**	W
	SURFACE DIVERTER SYSTEMS	
D-322	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? **CFR 250.431(a)**	S
D-324	Are both outlets piped to provide down wind diversion capability, if dual spool outlets are utilized? **CFR 250.431(b)**	S
D-326	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? **CFR 250.433(a)**	W/S
D-327	Are subsequent actuation test of the diverter sealing element, diverter valves, and diverter-control systems, including the remote control system, conducted at least once every 24 hour period alternating between control stations for surface diverter systems? **CFR 250.433(a), 433(c)**	W
D-334	Is vessel heading maintained to allow for downwind diversion on dynamically-positions drill ships? **CFR 250.432(d)**	S
	MUD PROGRAM	
D-400	Has drilling fluid been properly condition by circulation before starting out of the hole with drill pipe, or is there proper documentation in the driller's report that circulation was not necessary? **CFR 250.456(a)**	W
D-401	When coming out of the hole with drill pipe, is the annulus filled with drilling fluid before the change in drilling fluid level decreases the hydrostatic pressure by 75 psi, or every five stands of drill pipe, whichever gives a lower decrease in hydrostatic pressure? **CFR 250.456(e)**	W
D-402	Has the number of stands of drill pipe and drill collars that may be pulled prior to filling the hole and has the equivalent drilling fluid volume needed to fill the hole been calculated and have both been posted near the driller's station? **CFR 250.456(e)**	W
D-403	For each casing string, is the maximum pressure to be contained under the BOP stack calculated and posted near the driller's station? **CFR 250.456(f)**	W
D-405	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? **CFR 250.456(g)**	S
D-406	Is the test fluid in the hole circulated or reverse-circulated prior to pulling the drill-stem test tools from the hole and was it recorded in the drillers report? **CFR 250.456(b), 456(h)**	W
D-407	Is drilling fluid testing equipment maintained on the drilling rig at all times? **CFR 250.456(i)**	S
D-408	Are drilling fluid tests performed once each tour, or more frequently if conditions warrant and are the results recorded in the driller's report? **CFR 250.456(i)**	W

D-410	Is a drilling fluid-pit level indicator with visual and audible warnings installed and used? **CFR 250.457(a)**	S
D-411	Is a drilling fluid-volume measuring device used to determine the drilling fluid volumes required to fill the hole on trips? **CFR 250.457(b)**	S
D-412	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? **CFR 250.457(c)**	S
D-413	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? **CFR 250.457(d)**	S
D-414	Are minimum quantities of drilling fluid and drilling fluid materials, including weight material, maintained at the drill site as necessary to ensure well control and, if not, are drilling operations suspended? **CFR 250.418(b), 458(a), 458(c)**	W/S
D-415	Are records of daily inventories of drilling fluid and drilling fluid materials maintained at the well site?**CFR 250.458(b)**	W
D-421	**All classified drilling fluid handling areas where dangerous concentrations of combustible gas may accumulate shall be equipped as described in the following 9 PNC's:** If not continuously activated, are mechanical ventilation systems activated on signal from gas detectors that are operational at all times indicating the presence of 1 percent or more of combustible gas by volume? **CFR 250.459(a)(2)**	S
D-422	Equipped with high-capacity mechanical ventilation systems with alarms unless such ventilation is provided by natural means? **CFR 250.459(a), 459(a)(1)**	S
D-423	Maintained at a negative pressure by mechanical ventilation? **CFR 250.459(a)(3)**	S
D-424	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 Supervisor? **CFR 250.459(a)(3)**	S
D-425	Fitted with gas detectors and alarms except in open areas where adequate ventilation is provided by natural means? **CFR 250.459(b)**	S
D-426	Equipped with either explosion-proof or pressurized electrical equipment to prevent the ignition of explosive gases? **CFR 250.459(c)**	S
D-427	Where air is used for pressuring, is the air intake located outside of, and as far as practicable from, hazardous areas? **CFR 250.459(e)**	S
D-428	Are mechanical ventilation systems fitted with alarms which are activated upon a failure of the system? **CFR 250.459(d)**	S
D-429	Are gas detection systems tested for operation and recalibrated at frequency such that no more than 90 days shall elapse between tests? **CFR 250.459(b)**	W/S
	SECURING OF WELLS	
D-440	Is a downhole safety device such as a cement plug, bridge plug, or packer installed when drilling operations are interrupted by events such as those which force evacuation of the drilling crew, prevent station keeping, or require repairs to major drilling or well-control equipment? **CFR 250.402**	W
	SUPERVISION, SURVEILLANCE, AND TRAINING	
D-450	From the time drilling operations are initiated and until the well is completed or abandoned, is the well continuously under surveillance unless the well is secured with BOP's, bridge plugs, packers, or cement plugs? **CFR 250.401(e)**	W
	APPLICATIONS FOR PERMIT TO DRILL	
D-460	Does the lessee have written or oral approval to drill the well? **CFR 250.410**	S
D-461	Does the lessee have written or oral approval to change plans, make changes in major drilling equipment, deepen or plug back a well, or engage in similar activities? **CFR 250.465(a)(1)**	S

LEGEND: W = warning C = Component / Well Shut In S = Structure / Facility Shut In *LEVEL WELL EX = Exploratory DV = Development*