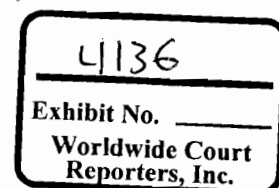


U.S. Department of the Interior, Mineral Management Service
FOR MMS USE ONLY- Test C-Key
Drilling

<u>General Information</u>		<u>Location Information</u>	
Test Date:		Area:	
Time:		Block:	
MMS Inspector Number:		Lease:	OCSG-
MMS Inspector Name:		Well Number:	
MMS Region:		Complex ID Number:	
MMS District:		Facility Name:	
		Rig Name:	
		Rig Number:	
<u>Company Information</u>		<u>Test Information</u>	
Operator Number:		Years With Present Employer:	
Operator Name:		Years in Present Position:	
Contractor Number:		Total Years Offshore Experience:	
Contractor Name:		Was Test Announced or Unannounced?	
		Is Employee a Supervisor?	
		Test Score:	
		Is this a Re-Test?	
		Test: Pass or Fail?	
		Test Location (offshore/onshore/school/other)?	
		Test Type Company Issued: (Written Well Control/ Written Production)	
		Test Type MMS Issued: (Hands on Well control Scenario/ Hands on Production Scenario/ Written Well Control/ Written Production/ Oral Well Control/ Oral Production)	
		Test Taker Job Title:	
<u>Activities Conducted</u>			
Operation Being Conducted at Time of Test:			
Was Inspection: Announced or Unannounced?			
Type of Inspection Being Conducted at Time of Test: Drilling/ Well Completion/ Well Workover/ Well Servicing/ Production/ Other?			
<u>INC Information</u>			
INC Number:			
INC Enforcement Action: S / C / W ?			
Was INC Issued?			

IIG013-037711

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Level 1

Answers	Questions
missed 3 times C	1. What is the primary means of well control? A. The blow out preventer (BOP) B. Choke manifold C. Mud weight D. None of the above E. All of the above
missed 2 times C	2. An annular-type BOP shall be successfully tested at _____ percent of its rated working pressure or as otherwise approved by the District Manager. A. 50 percent B. 60 percent C. 70 percent D. None of the above
missed 1 time A	3. Where shall the wrench for the full opening safety valve (TIW) be stored? A. Drillers console B. Dog house C. Choke manifold D. Storage rack
missed 1 time False	4. Drill collars shall be tested on the low side from 200 to 300 psi. True_____ False_____
missed 3 times B	5. With the well shut in, what happens to bottom hole pressure as a gas bubble rises to the surface? A. Decreases B. Increases C. Remains constant D. None of the above

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IIIG013-037712

Level 2

Answers	Questions
D	<p>6. In accordance with MMS regulations where shall the well control procedures be posted?</p> <p>A. Driller console B. Dog house C. Mud logging unit D. Rig floor E. Both B, and C</p>
B	<p>7. With a solid float in the drill pipe, a kick is shut in. Assuming there is no trapped pump pressure, what should the drill pipe (DP) read?</p> <p>A. Same as SICP B. Zero C. Difference between formation and hydrostatic pressure D. None of the above</p>
missed 2 times C	<p>8. What is considered to be the normal safe margin between the mud in the hole and the most current formation integrity test (FIT), or pressure integrity test (PIT)?</p> <p>A. 200 psi B. 1 ppg C. 0.5 ppg D. 50 psi</p>
missed 2 times C	<p>9. Using the equation $(P_1)V_1 = (P_2)V_2$, one cubic foot of gas coming from a 10,000 foot hole, filled with mud that weighs 10 ppg, will be approximately what volume when it reaches atmospheric pressure (14.7 psi) at the surface?</p> <p>A. 1000 cubic feet B. 54 cubic feet C. 354 cubic feet D. 252 cubic feet</p>

missed 1 time A	<p>10. In accordance with MMS regulations, you may resume drilling operations after cementing the conductor casing only after the cement has been held under pressure for _____ hours.</p> <p>A. 8 hours and one acceptable method of holding cement under pressure is to use the float valves</p> <p>B. 10 hours and one acceptable method of holding cement under pressure is to use the float valves</p> <p>C. 12 hours and one acceptable method of holding cement under pressure is to use the float valves</p>
missed 2 times D	<p>11. In accordance with MMS regulations, what quantities of drilling fluids and drilling fluid materials shall be maintained on board the rig at all times during drilling operations?</p> <p>A. 800 sacks</p> <p>B. 200 sacks</p> <p>C. Enough to weigh up the entire mud system equal to 2 ppg</p> <p>D. Enough to ensure well control</p>

Level 3

Answers	Questions
D	<p>12. What method of well control would you use if you experienced a kick with the drill pipe (DP) out of the hole?</p> <p>A. Drillers method</p> <p>B. Wait and Weight method</p> <p>C. Concurrent method</p> <p>D. Volumetric method</p> <p>E. None of the above</p>
missed 2 times 14.1	<p>13. Given the following, the equivalent mud weight at 5500 feet while conducting a leak off test would be _____ ppg.</p> <p>SICP -750psi Mud Weight -11.5 ppg</p>
missed 1 time False	<p>14. In accordance with MMS regulations, it is required to install a float in the drill string while drilling operations are being conducted.</p> <p>True_____ False_____</p>

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IIIG013-037714

Answers	Questions
C	<p>15. If 200 psi is added at the surface with the choke, how much equivalent mud weight does this represent at 2500 feet?</p> <p>A. 0.5 ppg B. 2.23 ppg C. 1.54 ppg D. 3.6 ppg</p>
missed 1 time B	<p>16. How many circulations of fluid are required to complete circulating out a kick using the Driller's Method?</p> <p>A. One B. Two C. It depends on what type of kick you are circulating out (oil, gas, water) D. It depends on the mud weight in use at the time the kick was observed</p>
missed 3 times 930	<p>17. You are determining your kill rate pressure and are bringing your pump rate up to a predetermined 40 spm by holding the shut in casing pressure (SICP) constant. You have a kick in the well and 280 psi shut in drill pipe (SIDP) pressure. At 40 spm your drill pipe circulating pressure is 1210 psi. What is your slow circulating rate pressure loss?</p>
missed 2 times 14.1	<p>18. What is the equivalent mud weight of a formation with a pore pressure of 7216 psi existing at a true vertical depth (TVD) of 9817?</p>
missed 2 times 826	<p>19. You have drilled 30 feet out of the casing shoe which is set at 4415 feet TVD. Your present mud weight is 11.2 ppg. If you want to test the shoe to an equivalent mud weight of 14.8 ppg, how much pressure at the surface will it take to achieve this?</p>
10,487 psi	<p>20. A well is 13,425 feet measured depth (MD) and 12,846 feet true vertical depth (TVD) and is filled with 15.7 ppg mud. What is the hydrostatic pressure at the bottom of the well?</p>