Desoto Canyon 491 #1 ST01
OCS-G-23516 #1 ST01
25 May 2013
API RP 65 PART 2 COMPLIANCE

			CASING SIZE	
			11-7/8"	9-7/8"
	GENERAL QUESTIONS			
1	Have you considered the following in your well planning and drilling plan determinations: evaluation for flow potential, site selection, shallow hazards, deeper hazard contingency planning, well control planning for fluid influxes, planning for lost circulation control, regulatory issues and communications plans, planning the well, pore pressure, fracture gradient, mud weight, casing plan, cementing plan, drilling plan, wellbore hydraulics, wellbore cleaning, barrier design, and contingency planning? [API 65-2 1.5]	Yes/No	Yes	Yes
2	Have you considered the general well practices while drilling, monitoring and maintaining wellbore stability, curing and preventing lost circulation, and planning and operational considerations? [API 65-2 1.6]	Yes/No	Yes	Yes
	FLOW POTENTIAL			
3	Will a pre-spud hazard assessment be conducted for the proposed well site?	Yes/No	Yes	Yes
4	List all potential flow zones within the well section to be cemented.	Describe or NA	NA	Cotton Valley Lime
5	Has the information concerning the type, location, and likelihood of potential flow zones been communicated to key parties (cementing service provider, rig contractor, or 3rd parties)?	Yes/No	Yes	Yes
	CRITICAL DRILLING FLUID PARAMETERS			
6	Are fluid densities sufficient to maintain well control without inducing lost circulation?	Yes/No	Yes	Yes
	CRITICAL WELL DESIGN PARAMETERS			
7	Will you use a cementing simulation model in the design of this well?	Yes/No	Yes	Yes
7a	If yes, how is the output of this simulation model used in your decision-making process?	Describe or NA	The simulation is utilized to verify planned fluid densities, fluid properties & pump rates are sufficient to maintain well control throughout the job and meet the job objectives. The simulation will be updated once hole section total depth has been reached. However, rates may be adjusted during the job in an attempt to maintain full returns.	The simulation is utilized to verify planned fluid densities, fluid properties & pump rates are sufficient to maintain well control throughout the job and meet the job objectives. The simulation will be updated once hole section total depth has been reached. However, rates may be adjusted during the job in an attempt to maintain full returns.
7b	If no, include discussion of why a model is not being used.	Describe or NA	NA	NA
7c	Either way, include the number and placement of centralizers being used.	Describe or NA	Minimum of 7 centralizers at one per joint from the bottom of the casing up to aid in shoe isolation. In addition, if hydrocarbon sands are encountered, one every other joint from 100' above to 100' below each hydrocarbon sand.	Minimum of 7 centralizers at one per joint from the bottom of the casing up to aid in shoe isolation. In addition, if hydrocarbon sands are encountered, one every other joint from 100' above to 100' below each hydrocarbon sand.
8	Will you ensure the planned top of cement will be 500 feet above the shallowest potential flow zone?	Yes/No	Yes	If the Cotton Valley Limestone is within 500' of the 11-7/8" liner shoe, best efforts will be made to lift the cement to the top of the 9-7/8" liner.
9	Have you confirmed that the hole diameter is sufficient to provide adequate centralization?	Yes/No	Yes	Yes
10	If there are any isolated annuli, how have you mitigated thermal casing pressure build-up.	Describe or NA	NA	NA
11	Will you ensure the well will be stable (no volume gain or losses, drilling fluid density equal in vs. out) before commencing cementing operations?	Yes/No	Yes	Yes
12	List all annular mechanical barriers in your design.	Describe or NA	FMC Casing Hanger Seal Assembly	Liner Top Packer.
13	Has the rathole length been minimized or filled with drilling fluid with a density greater than the cement density?	Yes/No	Yes	Yes
14a	If you have any liner top packers exposed to the production or intermediate annulus, what is the rating for differential pressure across this packer? .	Describe or NA	Packer element differential rating is 10,000 psi. Versaflex hanger body collapse rating is 7,635 psi.	Packer element differential rating is 10,000 psi. Baker hanger body collapse rating is 7,667 psi.
14b	If you have any liner top packers exposed to the production or intermediate annulus, have you confirmed that your negative test will not exceed this rating?	Yes/No/ NA	Yes	Yes
15	What type of casing hanger lock-down mechanisms will be used?	Describe or NA	Versaflex TOL packer elements provide hold down	Baker TOL packer elements provide hold down
16	For all intermediate and production casing hangers set in subsea, HP wellhead housing, will you immediately set/energize the lock-down ring prior to performing any negative test?	Yes/No	NA	NA

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17	For all production casing hangers set in subsea, HP wellhead housing, will you set/energize the lock-down ring immediately after running the casing and prior to performing any negative test? .	Yes/No	NA	NA
	CRITICAL OPERATIONAL PARAMETERS			
18	Will you have 2 mechanical barriers in addition to cement in your final casing string (or liner if it is your final string)?	Yes/No	yes	yes
19	Do you plan to nipple down BOP in accordance with the WOC requirements in 30 CFR 250.422(a)?	Yes/No	Yes	Yes
20	Do you plan on running a cement bond log on the production and intermediate casing/liner prior to conducting the negative test on that string?	Yes/No	No Primary basis for evaluation of cementing success and adequate isolation will be post job evidence exhibiting proper execution compared to plan (volumes, fluid density control, pump rates, pump pressures, observed returns, casing positive pressure test, shoe test, etc.). A Negative test will be performed during TA operations. .	No Primary basis for evaluation of cementing success and adequate isolation will be post job evidence exhibiting proper execution compared to plan (volumes, fluid density control, pump rates, pump pressures, observed returns, liner top positive pressure test, etc.). A Negative test will be performed during TA operations. .
	Are contingency plans in place for the following:			
21	Lost circulation?	Yes/No	Yes	Yes
22	Unplanned shut-down?	Yes/No	Yes	Yes
23	Unplanned rate change?	Yes/No	Yes	Yes
24	Float equipment does not hold differential pressures?	Yes/No	Yes	Yes
25	Surface Equipment issues?	Yes/No	Yes	Yes
26	Will you monitor the annulus during cementing and WOC time?	Yes/No	No. The annulus will only be monitored during cementing and WOC time until the time that the FMC Casing Hanger Seal Assembly is set.	No. The annulus will only be monitored during cementing and WOC time until the time that the Liner Top Packer is set.
27	If using foam cement, is a risk assessment being conducted and incorporated into cementing plan? .	Yes/No	NA	NA
28	If using foam cement, will the foamer, stabilizer, and nitrogen injection be controlled by an automated process system?	Yes/No	NA	NA
	CRITICAL MUD REMOVAL PARAMETERS			
28	Have you tested your drilling fluid and cementing fluid programs for compatibility to reduce possible contamination?	Yes/No	Yes	Yes
29	Have you considered actual well conditions when determining appropriate cement volumes? .	Yes/No	Yes	Yes
30	Has the spacer been modeled or designed to achieve the best possible mud removal?	Yes/No	Yes	Yes
	CRITICAL CEMENT SLURRY PARAMETERS			
31	Have all appropriate cement slurry parameters been considered to ensure the highest probability of isolating all potential flow zones?	Yes/No	Yes	Yes
32	Do you plan on circulating bottom up prior to the start of the cement job?	Yes/No	An attempt will be made to circulate bottoms up if returns are seen at a given rate; however if losses occur at various rates then cementing operations will commence.	An attempt will be made to circulate bottoms up if returns are seen at a given rate; however if losses occur at various rates then cementing operations will commence.

For those questiones answered with a "No" additional explanation(s) are shown above.
Descriptions for the questions which are not "Yes/No" are shown above (if not applicable, then shown as NA).