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PCE RIG-UP PLAN

By Iman Razak

INFORMATION

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- Aim: The PCE Rig-Up Plan Template aims to give a clear plan on the arrangement of PCE Equipment for upcoming projects for both Field Engineer in charge and clients.
- Information needed before using this template:

1. The length between X-Mas Tree Cap to Main Deck.
2. The type of X-Mas Tree Cap connection.
3. The length of the longest tool used for that well.

PCE RIG-UP TEMPLATE

STEP BY STEP

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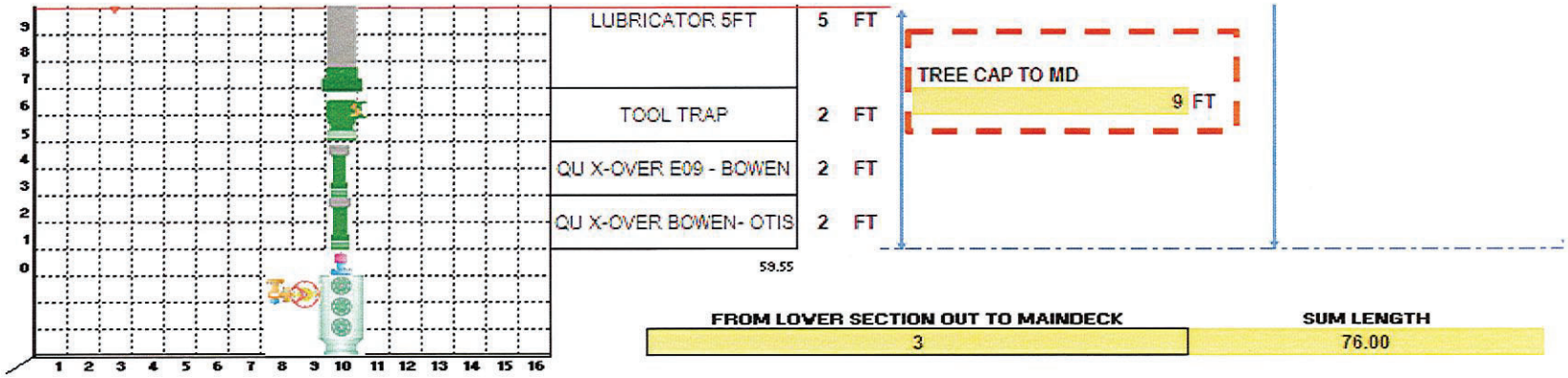
1st Step, fill up the length of the Tree Cap to Main Deck. This information should be obtained from the Site Visit Report done before the particular project. Then, adjust the number of boxes from the X-mas Tree Diagram to the Red Line which indicates the Main Deck. Each small boxes represents 1 feet.



PCE RIG-UP TEMPLATE

STEP BY STEP

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Next, pick from the list the planned PCE Equipment that will be used throughout the duration of the project. This includes the X-Over for X-Mas Tree Cap connection. This list will show you the length, quantity for each equipment, the used quantity that is planned and remaining equipment.

PCE USED				
EQUIPMENT	LENGTH (FT)	QUANTITY	USED	REMAINING
LUBRICATOR 8.6 FT	8.60	2.00	1	1.00
LUBRICATOR 8 FT	5.50	1.00	0	1.00
LUBRICATOR 5FT	3.00	1.00	1	0.00
QUICK TEST SUB	1.80	1.00	1	0.00
BLOWOUT PREVENTER	1.15	1.00	1	0.00
PUMP-IN SUB	2.00	1.00	0	1.00
TOOL TRAP	5.00	1.00	1	0.00
QU X-OVER E09 - BOWEN	7.12	1.00	1	0.00
QU X-OVER BOWEN- OTIS	8.00	5.00	5	0.00
QU X-OVER SOLAR - BOWEN	2.00	1.00	0	1.00
LUBRICATOR 5FT	2.00	1.00	1	0.00
HGT (3+1)	2.00	1.00	1	0.00
LUBRICATOR 8 FT	2.00	1.00	1	0.00
QU X-OVER E09 - BOWEN	2.00	1.00	1	0.00
TOOL TRAP	2.00	1.00	1	0.00
QU X-OVER BOWEN- OTIS	2.00	1.00	1	0.00
BALL CHECK VALVE + TOOL	2.00	1.00	1	0.00

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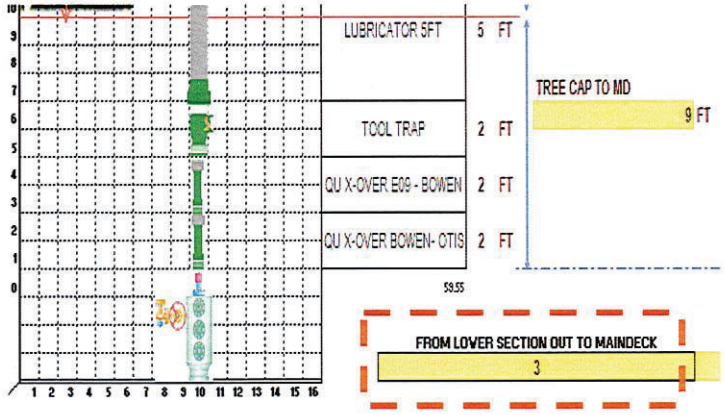
After that, you can start planning out your PCE Rig-Up Plan from the list. It is advised to start your PCE Rig-Up Planning from the Lower Section of the PCE as the height of the Blow-Out Preventer should be accessible from the Main Deck if any well control incident happen and to ease the tool rig-up and rig-down process. This will also tell you the length of the Lower Section of the PCE out to Main Deck



PCE RIG-UP TEMPLATE

STEP BY STEP

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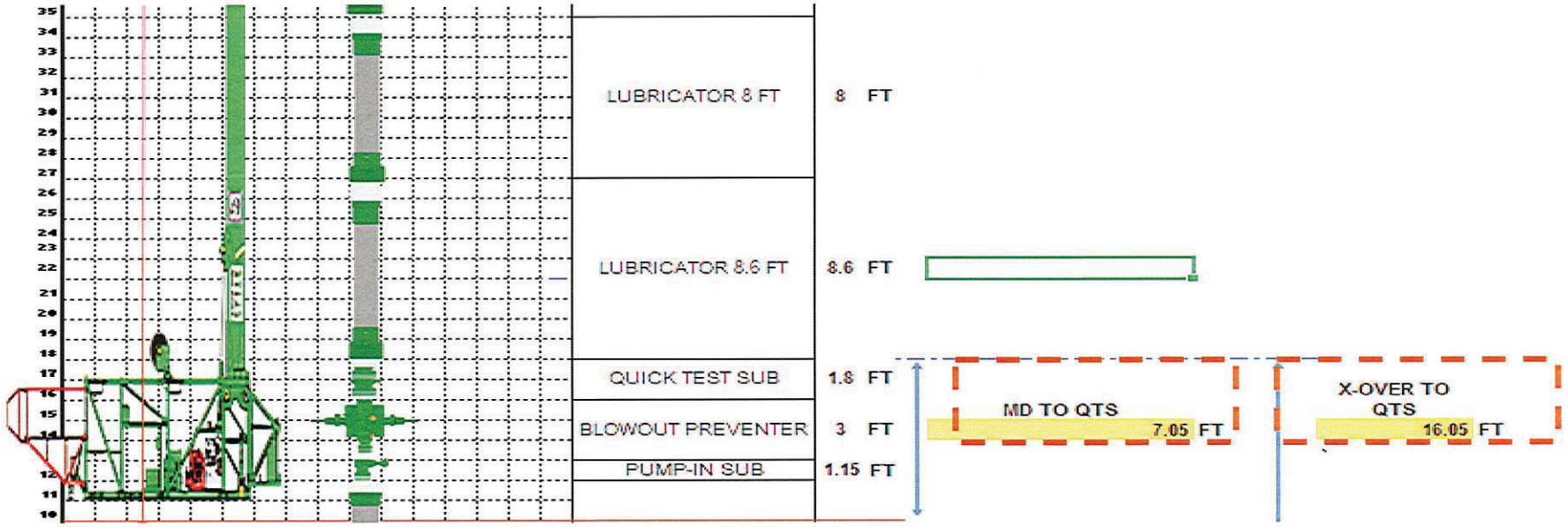
After completing the PCE Lower Section Plan, you can start planning for the Upper Section PCE Plan. There are two important information here which are the length from Main Deck to Quick Test Sub and X-Over to Quick Test Sub. This is important because this is where we connect our tool without jeopardizing our PCE Connection. This is important if the tool used in this job can be divided into 2 sections. Thus, the longest length of the lower section must be shorter than the length of X-Over to QTS.



PCE RIG-UP TEMPLATE

STEP BY STEP

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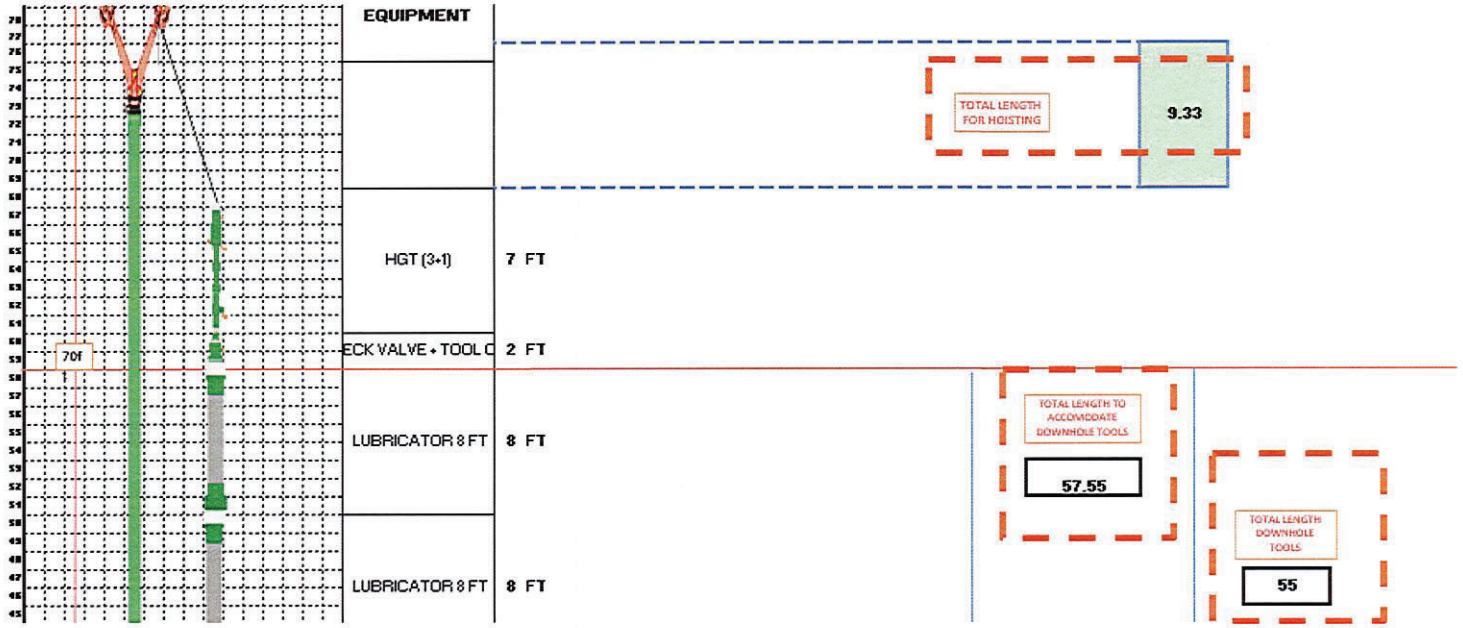
After completing the PCE Rig-Up Plan, the template will show the total length of hoisting for the PCE Upper Section during Tool Connection. It should be at least 2 ft to ease the tool connection process. Other than that, it also shows the total length of the PCE that can accommodate downhole tools. Fill in the data of the total length of downhole tool. This template will also calculate the clearance for the full tool string from the X-Mas Tree Cap.



PCE RIG-UP TEMPLATE

STEP BY STEP

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6 After that, the template will calculate the clearance between the PCE Upper Connection and tool upper connection. If the tool upper connection is long and cannot be divided, fill in the box and the template will calculate the clearance. Other than that, it also calculate the clearance of the length of Tool Catcher to Tool Trap with the downhole tool length. This is used when we are POOH and we want to calculate the length of the downhole tool to the Tool Catcher to avoid using the Tool Catcher unintentionally. Finally, if there are any concerns, we can add it to the bottom box "Area of Concern".

UPPER PCE CONNECTION	41.5	FT
TOOL UPPER CONNEC.	40	FT
CLEARANCE	1.5	FT
TC TO TOOL TRAP	55.55	FT
CLEARANCE	0.55	FT

PCE USED				
EQUIPMENT	LENGTH (FT)	QUANTITY	USED	REMAINING
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LUBRICATOR 5FT	5.00	1.00	1	0.00
HGT (3+1)	7.12	1.00	1	0.00
LUBRICATOR 8 FT	8.00	5.00	4	1.00
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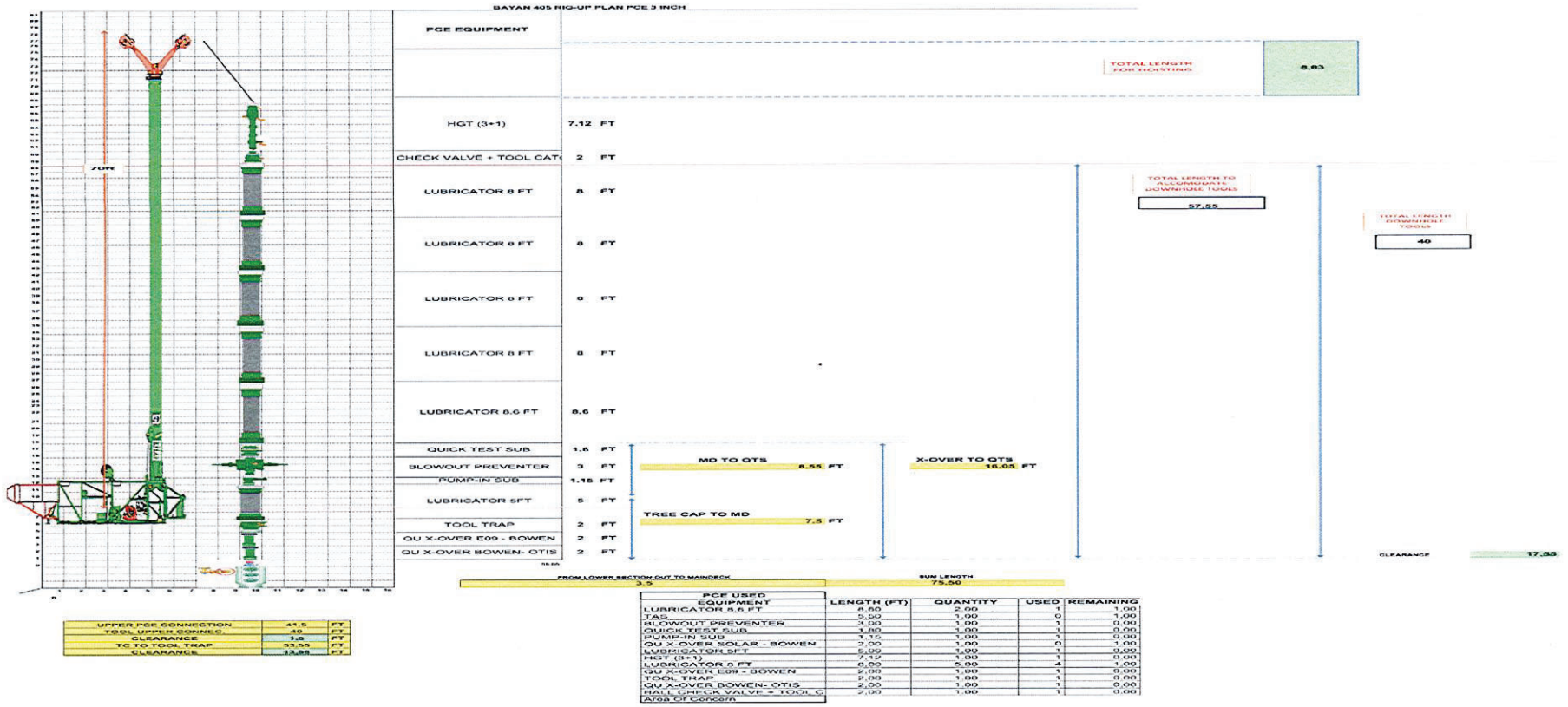
TOOL TRAP	2.00	1.00	1	0.00
QU X-OVER BOWEN- OTIS	2.00	1.00	0	1.00
BALL CHECK VALVE + TOOL C	2.00	1.00	1	0.00
Area Of Concern				
1. Tool catcher to tool trap clearance is small.				

EXAMPLE OF JOB

BY-405



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Area Of Concern				

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Thank you !

Questions and Answering Session

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