

January 11, 1960

TO F. G. Bohm
FROM D. S. McKen
SUBJECT Nuclear Orientor

Attached is a job report for the first job performed in the Oklahoma Division. Two runs were made with the orientor to shoot 12' in the short string of casing. The first run was made without a sinker bar since there was not enough lubricator available so the tool had to be "worked" through most of the collars. A four foot joint of tubing was obtained for the second run and tool fell freely.

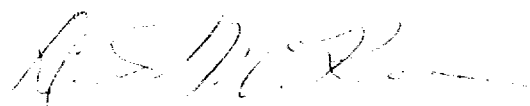
On the first run the "reworked" cam rack assembly was used. A slow movement of one foot up and down was used first. This was changed to a 2' fast movement when it was obvious we did not rotate 30° each time. With this change we were able to rotate and locate tubing. The gun was made up to shoot 180° from the orientor so when tubing was located an additional 30° movement was made to be sure we were on it. This step turned the tool off the tubing toward cement. Since we were well within the safe (cement) zone, the gun was fired.

The sinker bar used on the second run was added between the instrument and centralizer. This was done for two reasons. The first was for convenience because we could make up the entire assembly while completing run number one. The second was to see if it would aid us any by having the weight further down from the cam rack. This worked very well since the tools fell easily and cam rack worked good. However, I don't believe it would make much, if any, difference whether the sinker bar is run below the cam rack or above the centralizer as far as operating the tool. Our advantage was having the equipment ready to be run in a minimum amount of time.

A different cam rack was also used on the second run since the "timing" adjustment was knocked out of position on the first run. This can be corrected easily. Also the guide screws were slightly damaged causing the cam rack teeth to hang up on two positions. If at all possible, these need to be harder.

There were no difficulties experienced with the electronic section of the instrument. Surface and subsurface equipment performed good.

DSM/daw



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