

MEWBOURNE OIL COMPANY

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Mewbourne Oil Company has an approved APD for the Excalibur 17 MP Federal #1H

Mud & casing to remain as approved for 26", 17 1/2" & 12 1/4" hole.

Currently MOC is approved to drill 8 3/4" hole through the curve and run 7" casing. Then drill 6 1/8" lateral section and run 4 1/2" liner w/packer & port system.

MOC is requesting to change the following:

Drill 8 3/4" curve and lateral section.

KOP will remain the same.

5 1/2" 17# HCP110 LTC & BTC casing will be ran from surface to TD.

<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
8 3/4"	5 1/2" (new)	17#	P110	0-9420' MD	LT&C
8 3/4"	5 1/2" (new)	17#	P110	9420'-10163' MD	BT&C
8 3/4"	5 1/2" (new)	17#	P110	10163'-TD	LT&C

Cmt will consist of:

770 sacks Class H light cement with fluid loss, LCM, & salt additives. Yield at 2.45 cuft/sk. 1100 sacks Class H cmt. Yield at 1.21 cuft/sk. Calculated to tie back 200' into 9 5/8" casing set at 4900' w/25% excess.

Cased hole logs will be ran in 5 1/2" casing during completion process.

Conditions of Approval

1. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.