

**DRILLING PROGRAM**  
**MARATHON OIL COMPANY**

**Federal "C" #1**

1. **Estimated KB Elevation: 3974'**

<b><u>FORMATION</u></b>	<b><u>-----TOP-----</u></b>		<b><u>-----BASE-----</u></b>		<b><u>FLUID CONTENT</u></b>
	<b><u>MEASURED</u></b>	<b><u>SUBSEA</u></b>	<b><u>MEASURED</u></b>	<b><u>SUBSEA</u></b>	
Morrow	9050'	-5076'	9482'	-5508'	water
Barnett	9482'	-5508'	9736'	-5762'	water
Mississipian	9736'	-5762'	10126'	-6152'	
Woodford	10126'	-6152'	10193'	-6214'	
Devonian	10193'	-6219'	11176'	-7202'	

<b><u>FORMATION</u></b>	<b><u>---EST</u></b>	<b><u>SBHP---</u></b>	<b><u>EST SBHT</u></b>	<b><u>H2S</u></b>	<b><u>---SIGNIFICANCE---</u></b>
	<b><u>PSIG</u></b>	<b><u>PPG EMW</u></b>	<b><u>DEG f</u></b>	<b><u>PPM</u></b>	<b><u>(obj. marker, etc.)</u></b>
Morrow	3656	9.4		500	marker
Barnett	3795	9.4			marker
Mississipian	3910	9.4			marker
Woodford	4072	9.4			
Devonian	3095	8.3			objective

2. See (1) above.  
 If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. **Pressure Control Equipment:**

**7" Production:** 11" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

Flow indicator, PVT, H<sub>2</sub>S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs.

Upper and lower kelly cocks with valve handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

**Test Frequency**

1. When installed.
2. Anytime a pressure seal is broken (test confined only to affected equipment).
3. At least every 20 days.
4. Blind and pipe rams shall be activated each trip but not more than once/day.