

Table 1-9. Chemical and isotopic data for Mahogany zone samples from the WOSCO core (see text for description of analytical methods).  
 [ blanks indicate no data]

Field ID	Depth (ft)	Depth (m)	Description	Thin section	C <sub>organic</sub> %	C <sub>carbonate</sub> %	$\delta^{13}\text{C}_{\text{calcite}}$ ‰ (PDB)	$\delta^{18}\text{O}_{\text{calcite}}$ ‰ (PDB)	$\delta^{18}\text{O}_{\text{calcite}}$ ‰ (SMOW) <sup>1</sup>	$\delta^{13}\text{C}_{\text{dolomite}}$ ‰ (PDB)	$\delta^{18}\text{O}_{\text{dolomite}}$ ‰ (PDB)	$\delta^{18}\text{O}_{\text{dolomite}}$ ‰ (SMOW) <sup>1</sup>
W2260	2260	688.8	oil shale	polished	3.8	7.2	8.1	-0.4	30.5	8.3	0.8	31.7
W2263	2263	689.7	oil shale	polished	2.2	5.3	7.8	-1.9	28.9	8.8	-0.9	29.9
W2266	2266	690.6	oil shale	polished	1.7	3.5	7.9	-2.7	28.1	8.9	-1.4	29.4
W2269	2269	691.6	oil shale	polished	7.2	5.3	7.5	-2.5	28.3	8.6	-1.3	29.5
W2272	2272	692.5	oil soaked oil shale	polished	8	4.6	7.4	-2.1	28.7	8.2	-1.2	29.7
W2272.3	2272.3	692.6	oil soaked silty material + oil shale	polished								
W2272.8	2272.8	692.7	pyrite nodule in oil shale w/silty pyritic lenses	polished								
W2275	2275	693.4	oil shale w/silty laminae	polished	11	6	8.0	-2.3	28.5	8.4	-1.8	29.0
W2278	2278	694.3	oil shale	polished	20	5.4	8.5	-1.7	29.1	8.9	-0.8	30.1
W2281	2281	695.2	oil shale	polished	6	8	7.4	-1.7	29.1	7.8	-0.6	30.3
W2284	2284	696.1	oil shale	polished	5.5	5.9	7.9	-1.7	29.1	9.4	0.3	31.1
W2287	2287	697.0	oil shale	polished	4.4	5.8	7.4	-1.1	29.7	8.9	0.2	31.0
W2290	2290	698.0	oil shale	polished	4.4	3.7	6.4	-1.0	29.8	7.5	0.3	31.1
W2293	2293	698.9	oil shale	polished	4.9	5.6	8.1	-1.1	29.7	9.6	0.5	31.4
W2296	2296	699.8	oil shale w/silty lenses	polished	9.3	5.9	8.1	-2.7	28.1	8.3	-1.5	29.4
W2299	2299	700.7	oil shale w/silty lenses	polished	8.1	6.9	8.1	-2.6	28.2	8.9	-1.4	29.4
W2301	2301	701.3	oil shale w/silty lense	polished	16	5.9	9.3	-1.7	29.1	9.9	-0.3	30.6
W2303	2303	701.9	fissile oil shale w/ clear crystalline minerals	polished								
W2305	2305	702.5	oil shale w/lense & stringers of silty material	polished	13	7.2	9.5	-1.9	28.9	9.8	-0.6	30.2
W2308	2308	703.4	oil shale with silty lenses	polished	12	6.8	8.6	-2.2	28.6	9.2	-1.2	29.7
W2309.8	2300.8	701.2	pyrite streak in oil shale	polished								
W2310	2310	704.1	oil shale	polished	8.9	8.2	9.2	-2.0	28.8	9.7	-0.2	30.6
W2317	2317	706.2	oil shale w/small pyrite lenses & stringers	polished	16	4.7	9.4	-1.2	29.6	9.5	-0.5	30.3
W2320	2320	707.1	oil shale w/silty lenses	polished	8	5.4	6.8	-2.2	28.6	8.8	-0.2	30.7
W2323	2323	708.0	oil shale	polished	5.1	4.2	7.3	-1.9	28.9	7.3	-0.2	30.6
W2323.7	2323.7	708.2	pyrite nodule in oil shale	polished								
W2326	2326	708.9	oil shale w/lense of light silty material	polished	16	5.7	9.0	-0.4	30.4	9.4	0.5	31.4
W2329	2329	709.8	oil shale	polished	17	6.1	7.6	-2.3	28.4	7.6	-1.0	29.9
W2332	2332	710.8	oil shale	polished	6	8.2	7.4	-1.5	29.4	7.9	-0.4	30.5
W2333.5	2333.5	711.2	pyritic oil shale w/ tuffaceous material	polished								
W2335	2335	711.7	oil shale	polished	4.1	7.9	5.9	-0.7	30.2	6.6	0.8	31.6
W2336.7	2336.7	712.2	pyrite lense in oil shale	polished				0.0	30.9			
W2338	2338	712.6	oil shale	polished	8.4	7.6	6.5	0.2	31.0	6.7	1.2	32.1
W2339	2339	712.9	pyrite nodule tuffaceous oil shale	polished								
W2341	2341	713.5	oil shale	polished	5.6	4.9	5.7	-2.1	28.7	6.6	0.1	31.0
W2344	2344	714.4	oil shale	polished	5.6	7.8	5.9	-1.7	29.1	6.9	0.2	31.0
W2347	2347	715.3	oil shale w/solid bitumen (gilsonite?) along fractures	polished	1.2	6.3	5.9	-2.0	28.8	6.6	-0.9	30.0
W2353	2353	717.2	oil shale	polished	11	5.3	5.5	-1.9	29.0	6.0	-0.6	30.2
W2353.3	2353.3	717.3	tuffaceous, siltstone	polished								
W2355V	2355	717.8	lense of tuffaceous material w/pyrite replacement	polished								
W2355.6	2355.6	718.0	oil shale w/sharp interface with oil soaked silty material	polished								
W2357	2357	718.4	pyritic oil shale	polished								
W2357.6	2357.6	718.6	large pyrite nodules in oil shale	polished								
W2359	2359	719.0	oil shale	polished	4.0	7.3	6.2	-1.2	29.7	7.9	0.3	31.2

<sup>1</sup> $\delta^{18}\text{O}$  data converted from PDB to SMOW using  $\delta^{18}\text{O}_{\text{SMOW}} = 1.03086 (\delta^{18}\text{O}_{\text{PDB}}) + 30.86$  (Hoefs, 1980)