

THE CARTER OIL COMPANY

Upper Piceance #1

Sec. 12, 3S - 96W  
330' fSL x 1650' fWL  
Rio Blanco County, Colorado  
Ground Elevation - 6595'

LITHOLOGIC DESCRIPTION FROM SURFACE (0') TO CORING POINT (300')

INTERVAL	DESCRIPTION
0' 35'	Alluvium, tan-brown, very fine grained.
35' 150'	Sandstone, silty, calcareous, light brown to tan, fine-grained.
150' 185'	Poor returns, shale, brown, highly soluble in water.
185' 205'	Shale, sandy, calcareous, light brown to brown, coarse-grained, mottled.
205' 220'	Shale, calcareous, light to medium gray, very fine grained.
220' 230'	No returns, possibly shale, light to medium gray, calcareous, very fine grained.
230' 272'	Shale, calcareous, tan to brown, brittle, fine-grained, oily smell. (Top Parachute Creek Marker).
272' 300'	Shale, possibly marlstone, calcareous, tan to light brown, medium grained.

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LITHOLOGIC DESCRIPTION

From	To	Description
<u>CORE #1</u>		300.0' - 320.5'      Cored 20.5'      Recovered 16.0'
300.0'	309.0'	Marlstone and oil shale, dolomitic, light to medium brown, very low grade, infrequent fractures along bedding planes which are even, wavy and contorted; banding ranges from lenses to laminae.
309.0'	310.2'	Oil shale, dolomitic, medium brown, low grade, numerous open solution cavities, no apparent bedding planes.
310.2'	316.0'	Marlstone and oil shale, dolomitic, light to medium brown, very low grade, even and wavy bedding in lenses and laminae.
316.0'	320.5'	Missing core.
<u>CORE #2</u>		320.5' - 330.1'      Cored 9.6'      Recovered 7.1'
320.5'	327.6'	Oil Shale and Marlstone, dolomitic, medium brown, medium grade; oil shale in lenses with hydrocarbon and silt-filled solution cavities; even bedding planes with no apparent fracturing.
327.6'	330.1'	Missing core.
<u>CORE #3</u>		330.1' - 355.9'      Cored 25.8'      Recovered 25.4'
330.1'	335.5'	Oil Shale, dolomitic, medium browns, medium grade, abundant silt and hydrocarbon lenses and laminae; most often fissile with numerous calcite-filled solution cavities and fractures; bedding planes are normal to slightly wavy in spots.

From	To	Description
335.5'	347.6'	Oil Shale, dolomitic, dark brown, higher grade than previous interval, abundant silt and hydrocarbon lenses and lamina, most often fissile, with numerous calcite-filled solution cavities and fractures, bedding planes are normal to slightly wavy in spots.
347.6'	355.5'	Oil Shale, dolomitic, abundant silt, medium brown, medium grade; hydrocarbon lenses and lamina most often fissile with numerous calcite-filled solution cavities and fractures; bedding planes are normal to slightly wavy in spots with a high grade lens from 354.5' - 355.2'.
355.5'	355.9'	Missing core.
<u>CORE #4</u>	355.9' - 388.9'	Cored 33.0' Recovered 32.6'
355.9'	362.5'	Oil Shale, dolomitic, even fissile banding of silts, medium browns, medium grade, hydrocarbons with few lamina, hydrocarbon and calcite-filled fractures at 360.8' and 361.5'.
362.5'	367.6'	Oil Shale, slightly dolomitic, even banding of silts, medium and dark browns, higher grade, hydrocarbons in lamina most often fissile.
367.6'	373.7'	Oil Shale, dolomitic with silt, medium browns, even banding in lamina; calcite and hydrocarbon solution cavities throughout.
373.7'	378.0'	Oil Shale, slightly dolomitic with several silt lenses, dark browns, numerous silt and black hydrocarbon lamina, even banding with no apparent fractures.
378.0'	386.4'	Oil Shale, dolomitic, medium browns, medium grade with indistinctive silt and hydrocarbon banding in lenses and lamina in even bedding planes.
386.4'	388.5'	Oil Shale, dark browns, high grade, numerous silt and black hydrocarbon lamina in normal bedding planes.
388.5'	388.9'	Missing core.

From	To	Description
<u>CORE #5</u>		388.9' - 410.0'      Cored 21.1'      Recovered 20.1'
388.9'	409.0'	Oil Shale, slightly dolomitic to dolomitic, slightly silty, medium and dark browns, medium grade, numerous fissile lamina of hydrocarbons and silts in normal bedding planes, frequent solution cavities throughout filled with silts, calcite and hydrocarbons; a high grade lens 1.5' at 391.5' to 393.0'.
409.0'	410.0'	Missing core.
<u>CORE #6</u>		410.0' - 420.8'      Cored 10.8'      Recovered 8.1'
410.0'	418.1'	Oil Shale, dolomitic to slightly dolomitic, slightly silty, medium to dark brown, medium to high grade, abundant hydrocarbon and silt lamina with very few silt-filled solution cavities, bedding planes are normal and the core has a massive appearance.
418.1'	420.8'	Missing core.
<u>CORE #7</u>		420.8' - 435.2'      Cored 14.4'      Recovered 10.2'
420.8'	431.0'	Oil Shale, dolomitic and silty, medium browns, medium grade, numerous silt and hydrocarbon fissile lamina; banding is very indistinctive with normal bedding planes, pin-point solution cavities filled with hydrocarbons, silts, and calcite throughout.
431.0'	435.2'	Missing core.
<u>CORE #8</u>		435.2' - 451.7'      Cored 16.5'      Recovered 10.8'
435.2'	443.5'	Marlstone, medium brown, low grade, massive with indistinct bedding of silts and hydrocarbons in normal bedding planes; rare solution cavities filled with hydrocarbons and silts; section has a granular appearance.

From	To	Description
443.5'	446.0'	Oil Shale, very slightly dolomitic, medium to dark brown, medium to high grade, indistinctive interbedding of silts and hydrocarbons in fissile lamina, inherent fractures apparent in normal bedding planes.
446.0'	451.7'	Missing core.
<u>CORE #9</u>	451.7' - 463.3'	Cored 11.6' Recovered 11.2'
451.7'	462.9'	Oil Shale, slightly dolomitic and silty, medium browns, medium grade; abundant fissile lamina of silts and hydrocarbons throughout with frequent silt lenses and solution cavities in even bedding planes with infrequent calcite-filled fractures and solution cavities.
462.9'	463.3'	Missing core.
<u>CORE #10</u>	463.3' - 471.8'	Cored 8.5' Recovered 6.8'
463.3'	470.1'	Oil Shale, slightly dolomitic with silt, medium browns, medium grade, numerous silt and hydrocarbon fissile lamina with abundant pin-hole solution cavities filled with hydrocarbons; bedding planes are even to slightly wavy.
470.1'	471.8'	Missing core.
<u>CORE #11</u>	471.8' - 488.6'	Cored 16.8' Recovered 12.9'
471.8'	484.7'	Oil Shale, slightly dolomitic and silty, medium browns, medium grade, numerous silt and hydrocarbon fissile lamina with abundant pin-hole solution cavities filled with hydrocarbons; bedding planes are even to slightly wavy with a granular appearance.
484.7'	488.6'	Missing core.
<u>CORE #12</u>	488.6' - 492.1'	Cored 3.5' Recovered 3.5'
488.6'	492.1'	Oil Shale, dolomitic and silty, medium browns, medium grade, indistinctive banding of silts and hydrocarbons in even bedding planes with a massive appearance; calcite and silt lens at 489.4'.

From	To	Description
<u>CORE #13</u>		492.1' - 512.9'      Cored 20.8'      Recovered 19.5'
492.1'	511.6'	Oil Shale, slightly dolomitic, medium browns, medium grade, indistinctive interbedding of silts and hydrocarbons throughout with rare solution cavities, silt-filled, infrequent fractures also throughout.
511.6'	512.9'	Missing core.
<u>CORE #14</u>		512.9' - 524.8'      Cored 11.9'      Recovered 6.2'
512.9'	519.1'	Oil Shale, dolomitic and silty, medium browns, medium grades, indistinctive lamina of silts and hydrocarbons in even to slightly wavy bedding planes; solution cavities, partially filled with calcite, silt, and hydrocarbons throughout. From 517.0' to 518.9', marlstone lens, light brown, wavy and contorted bedding planes.
519.1'	524.8'	Missing core.
<u>CORE #15</u>		524.8' - 536.8'      Cored 12.0'      Recovered 5.8'
524.8'	530.6'	Marlstone, silty, light to medium browns, lower grade, indistinctive lamina of silts and hydrocarbons with numerous silt-filled solution cavities in even bedding planes; core has a massive appearance.
530.6'	536.8'	Missing core.
<u>CORE #16</u>		536.8' - 561.1'      Cored 24.3'      Recovered 16.6'
536.8'	553.4'	Oil Shale, dolomitic, silty, medium browns, medium grade, distinctive interbedding of silts and hydrocarbons in lenses and lamina, bedding planes are normal with frequent silt hydrocarbons and calcite-filled fractures and solution cavities throughout.
553.4'	561.1'	Missing core.

From	To	Description
CORE #17		561.1' - 573.4'      Cored 12.3'      Recovered 11.0'
561.1'	572.1'	Oil Shale, dolomitic, medium browns; medium grade; indistinctive interbedding of silts and hydrocarbons in lenses and lamina, bedding planes are normal with frequent silt hydrocarbons and calcite-filled fractures and solution cavities throughout.
572.1'	573.4'	Missing core.
<u>CORE #18</u>		573.4' - 580.5'      Cored 7.1'      Recovered 6.5'
573.4'	579.9'	Oil Shale, slightly dolomitic to dolomitic, silty; medium browns; medium grade. Distinctive interbedding of silts and hydrocarbons in lenses and lamina most often fissile in even bedding planes. Core has a massive appearance.
579.9'	580.5'	Missing core.
<u>CORE #19</u>		580.5' - 597.7'      Cored 17.2'      Recovered 12.6'
580.5'	584.2'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; even to wavy bedding.
584.2'	593.1'	Oil Shale, dolomitic, dark brown to black; medium to high grade; tough, even bedded.
593.1'	597.7'	Missing core.
<u>CORE #20</u>		597.7' - 601.1'      Cored 3.5'      Recovered 3.4'
597.7'	599.5'	Oil Shale, dolomitic, medium to dark brown; medium grade; thin blebs of analcitized tuff; even to wavy bedding; partially leached mineral at 598.7', several fractures (sealed and unsealed) at 598.7' to 599.5'.
599.5'	601.1'	Oil Shale, slightly dolomitic, dark brown to black; medium to high grade; even to wavy and looped bedding.



From	To	Description
641.5'	643.5'	Oil Shale, dark brown, medium to high grade, even to wavy bedding, tuff bed 0.1' thick at 642.6'.
643.5'	660.5'	Marlstone, dolomitic to slightly dolomitic, light to medium brown, low grade, even, wavy and contorted bedding, small leached vug at 645.0', tuff bed 0.6' thick at 653.2'.
660.5'	662.1'	Oil Shale, slightly dolomitic, medium to light brown, medium grade, wavy bedding.
662.1'	664.2'	Missing core.
<u>CORE #25</u>	664.2' - 694.0'	Cored 29.8' Recovered 29.0'
664.2'	665.3'	Oil Shale, medium to dark brown, medium grade, even bedding.
665.3'	668.1'	Oil Shale, slightly dolomitic, light to medium brown, low grade, even and wavy bedding.
668.1'	670.5'	Oil Shale, slightly dolomitic, medium brown, medium grade, even to wavy bedding, 0.1' thick tuff bed at 669.8'.
670.5'	670.9'	Tuff, slightly dolomitic, medium to dark gray. MAHOGANY MARKER <i>N</i> 670.5' - 670.9'
670.9'	674.1'	Oil Shale, dolomitic, light to medium brown, low to medium grade, even and wavy bedding.
674.1'	678.8'	Oil Shale, slightly dolomitic, dark brown, medium to high grade, even and wavy bedding, several fractures at 675.5' - 676.5'.
678.8'	687.2'	Oil Shale, dolomitic, light to dark brown, low grade with beds of medium to high grade, even, wavy and contorted bedding; several thin (<0.1') tuff beds at 681.5' to 682.6', fractures at 682.0' and 683.2' (70°).
687.2'	689.8'	Oil Shale, medium to dark brown, medium grade, wavy, looped and contorted bedding.
689.8'	693.2'	Oil Shale, dolomitic, medium brown, low to medium grade, wavy and contorted bedding.
693.2'	694.0'	Missing core.

From	To	Description
<u>CORE #26</u>		694.0' - 713.8'      Cored 19.8'      Recovered 17.7'
694.0'	697.0'	Oil Shale, dolomitic; medium brown; low to medium grade; even to wavy bedding; fracture filled with calcite at 794.8'.
697.0'	701.8'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; wavy to contorted bedding.
701.8'	711.7'	Oil Shale, dolomitic; light to medium brown; low to medium grade; wavy to contorted bedding; fractures at 702.5' (70°), 705.2' (60°), 706.0' (75°) and 709.9' (70°); thin, black hydrocarbon bed at 705.7'.
711.7'	713.8'	Missing core.
<u>CORE #27</u>		713.8' - 725.2'      Cored 11.4'      Recovered 7.2'
713.8'	715.3'	Oil Shale, dolomitic; medium to dark brown; medium grade; even and wavy bedding.
715.3'	718.2'	Oil Shale, dolomitic, medium to light brown; low to medium grade; even bedding.
718.2'	721.0'	Marlstone, dolomitic; light to medium brown; low grade; wavy to contorted bedding.
721.0'	725.2'	Missing core.
<u>CORE #28</u>		725.2' - 746.1'      Cored 20.9'      Recovered 18.7'
725.2'	729.5'	Oil Shale, dolomitic and silty; medium to dark brown; low to medium grade; wavy to contorted bedding; fractures at 726.9' (80°) and 729.5' (60°); thin, light brown silt bed at 727.9'.
729.5'	735.0'	Oil Shale, dolomitic, light to medium brown; low grade; even, wavy and contorted bedding.
735.0'	739.5'	Oil Shale, dolomitic, light to medium brown; low grade; contorted bedding; contains small, partially leached vugs and stringers; other stringers filled with calcite, vertical fracture at 735.5' to 737.1'.
739.5'	743.9'	Marlstone, dolomitic; light brown; low grade, even to wavy bedding.

From	To	Description
743.9'	746.1'	Missing core.
<u>CORE #29</u>		746.1' - 756.7'      Cored 10.6'      Recovered 7.4'
746.1'	753.5'	Oil Shale, dolomitic to slightly dolomitic; light to medium brown; low to medium grade; even and wavy bedding; core badly broken at 749.0' to 752.8'; several fractures in this interval.
753.5'	756.7'	Missing core.
<u>CORE #30</u>		756.7' - 774.8'      Cored 18.1'      Recovered 15.3'
756.7'	758.9'	Oil Shale, dark brown to black; high grade oil shale; even bedding.
758.9'	768.3'	Oil Shale, slightly dolomitic; medium brown; medium to low grade; even to wavy bedding.
768.3'	772.0'	Oil Shale, dolomitic; light to medium brown; low to medium grade; contorted bedding; contains abundant, partially-leached cavities throughout; also contains calcite stringers throughout; tuff lenses at 771.0' - 771.5'.
772.0'	774.8'	Missing core.
<u>CORE #31</u>		774.8' - 793.9'      Cored 19.1'      Recovered 17.0'
774.8'	776.1'	Oil Shale, slightly dolomitic; dark to medium brown; medium grade, contorted bedding.
776.1'	782.9'	Oil Shale, dolomitic, dark brown; medium to high grade; even to wavy bedding; fractures at 778.6' (50°), 779.5' (with calcite) and 782.0' (40°).
782.9'	791.8'	Marlstone, silty, light to dark brown; low to medium grade with thin, high grade beds at 783.5' to 784.1' and 786.4' to 786.6'; even to contorted bedding; dark brown, silty oil shale beds at 787.5' to 788.1' and 788.4' to 788.9'; calcite stringers at 783.5' to 784.5'.
791.8'	793.9'	Missing core.



From	To	Description
855.1'	863.1'	Oil Shale, dolomitic; light brown; low grade; even and wavy bedding; leached vug at 857.0'.
8631.1'	868.7'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; thin, hydrocarbon bed at 864.3'; hydrocarbon bleb at 867.8'.
868.7'	871.2'	Missing core.
<u>CORE #36</u>	871.2' - 911.3'	Cored 40.1' Recovered 38.5'
871.2'	886.0'	Oil Shale, slightly dolomitic; dark brown to black; medium to high grade, even to wavy bedding; leached cavity at 885.0'.
886.0'	888.8'	Oil Shale, dolomitic; light to dark brown; medium grade; contorted bedding.
888.8'	891.9'	Oil Shale, slightly dolomitic; dark brown; high grade; even and wavy bedding.
891.9'	896.9'	Oil Shale, slightly dolomitic and silty; medium brown; medium grade; wavy bedding; brown, silty beds at 891.9' to 892.1' and 893.8' to 894.0'.
896.9'	905.2'	Oil Shale, dolomitic, light to dark brown; medium to high grade; even to wavy bedding.
905.2'	909.7'	Marlstone, slightly dolomitic; medium brown; low to medium grade; even to wavy bedding; abundant sealed fractures throughout, many with calcite.
909.7'	911.3'	Missing core.
<u>CORE #37</u>	911.3' - 941.8'	Cored 30.5' Recovered 27.1'
911.3'	915.7'	Oil Shale, slightly dolomitic; medium to dark brown; medium to high grade; even to wavy bedding.
915.7'	920.7'	Oil Shale, medium brown; medium grade; contorted bedding; hydrocarbon bed at 918.1'; hydrocarbon and calcite sealed fractures at 917.9' to 918.0'.
920.7'	924.1'	Oil Shale, slightly dolomitic; medium to dark brown, medium to high grade.
924.1'	926.7'	Oil Shale, slightly dolomitic; medium brown; medium grade; even and wavy bedding.

From	To	Description
926.7'	938.4'	Oil Shale, slightly dolomitic; light to medium brown in alternating bands of varying width; low and medium grade; even, wavy and contorted bedding; abundant fractures throughout filled with calcite; barren marlstone bed 0.2' thick at 931.9'; barren marlstone pods at 935.0' to 935.6'.
938.4'	941.8'	Missing core.
<u>CORE #38</u>		941.8' - 955.5'      Cored 13.7'      Recovered 9.5'
941.8'	946.5'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; even to wavy bedding; leached cavities at 946.0' to 946.5'.
946.5'	948.4'	Oil Shale, slightly dolomitic; dark brown to black; medium to high grade; even to wavy bedding.
948.4'	951.3'	Oil Shale, slightly dolomitic and silty; dark brown; medium grade; wavy and looped bedding; fracture at 949.0'; surface coated with black hydrocarbon; reddish-brown silt bed 0.2' thick at 950.8'.
951.3'	955.5'	Missing core.
<u>CORE #39</u>		955.5' - 965.7'      Cored 10.2'      Recovered 7.6'
955.5'	963.1'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade with high grade beds at 960.9' to 961.0' and 961.6' to 962.1'.
963.1'	965.7'	Missing core.
<u>CORE #40</u>		965.7' - 988.0'      Cored 22.3'      Recovered 11.0'
965.7'	976.7'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade with high grade beds at 965.8' to 966.3', 975.7' to 976.0'; even to wavy bedding; fractures at 968.0' (75°), 969.0' (±v); fracture surfaces coated with calcite or other mineral.
976.7'	988.0'	Missing core.

From	To	Description
<u>CORE #41</u>		988.0' - 1009.4' Cored 21.4' Recovered 18.1'
988.0'	991.0'	Oil Shale, slightly dolomitic; medium brown; medium grade; contorted bedding, thin, contorted hydrocarbon streak at 990.7'.
991.0'	1006.1'	Oil Shale, slightly dolomitic; medium brown; medium grade; even to wavy with some contorted bedding; fractures filled with calcite at 992.8', 995.8', and 1000.0'; leached cavities at 1000.0', 1001.5', several at 1002.7' to 1003.0'; silt pod at 1002.2'.
1006.1'	1009.4'	Missing core.
<u>CORE #42</u>		1009.4' - 1031.3' Cored 21.9' Recovered 18.2'
1009.4'	1011.8'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; even to wavy bedding.
1011.8'	1015.9'	Oil Shale, dolomitic; light to medium brown; medium grade; contorted bedding; brecciated beds at 1012.0' to 1012.6'; 1013.3' to 1013.5' and 1014.5' to 1015.1'.
1015.9'	1019.8'	Oil Shale, slightly dolomitic; medium brown; medium grade; even, wavy and contorted bedding; fracture at 1016.8' filled with calcite.
1019.8'	1021.2'	Oil Shale, slightly dolomitic; medium brown; medium grade; contorted bedding; fractures at 1019.1' to 1019.6' sealed with black hydrocarbon; brecciated bed at 1019.6' to 1020.0' and 1020.8' to 1021.2'.
1021.2'	1025.7'	Oil Shale, slightly dolomitic; medium brown; medium grade; even, wavy and contorted bedding; brecciated bed at 1022.3' to 1023.1'.
1025.7'	1027.6'	Marlstone, light brown; low grade; contorted bedding; contains abundant pin-points of calcite throughout.
1027.6'	1031.3'	Missing core.

From	To	Description
<u>CORE #43</u>		1031.3' - 1091.3' Cored 60.0' Recovered 46.7'
1031.3'	1039.5'	Marlstone, slightly silty, light brown; low grade; even and wavy bedding; alternating silty beds throughout, mostly silt below 1037.6'.
1039.5'	1049.6'	Oil Shale, silty and slightly dolomitic; medium brown; low to medium grade; even to wavy bedding; silty bed at 1044.8' to 1045.2'; sealed fracture at 1047.5'.
1049.6'	1057.7'	Oil Shale, slightly dolomitic and silty; light to medium brown; low to medium grade alternating thin silty beds at 1049.6' to 1053.0'.
1057.7'	1063.0'	Marlstone, silty, tan to light brown; very low grade to barren; contorted bedding.
1063.0'	1069.6'	Oil Shale, slightly dolomitic; medium brown; argillaceous, low to medium grade; even to wavy bedding; fracture at 1066.0' and 1067.0' (80°); black hydrocarbon bed at 1065.2'.
1069.6'	1073.0'	Siltstone, dolomitic, light to medium brown; low grade oil shale; even to wavy bedding.
1073.0'	1077.0'	Marlstone, slightly dolomitic, light to medium brown; low grade; even to wavy bedding; gray silt bed at 1073.1' to 1073.2'; brecciated bed at 1074.3' to 1074.4'.
1077.0'	1078.0'	Silt, gray, barren, even to contorted bedding.
1078.0'	1091.3'	Missing core.
<u>CORE #44</u>		1091.3' - 1098.7' Cored 7.4' Recovered 6.6'
1091.3'	1095.3'	Oil Shale, slightly dolomitic, light brown; low grade; even to wavy bedding.
1095.3'	1097.9'	Marlstone, light gray, barren, even bedding; fracture below 1096.5'.
1097.9'	1098.7'	Missing core.

From	To	Description
<u>CORE #45</u>		1098.7' - 1130.5' Cored 31.8' Recovered 19.5'
1098.7'	1108.2'	Marlstone, slightly dolomitic; light to medium brown; low grade; even to wavy bedding; entire interval fractured, sealed from 1104.3' to 1106.3' with black, tar-like hydrocarbon.
1108.2'	1109.2'	Oil Shale, slightly dolomitic; medium brown; medium grade; even bedding.
1109.2'	1118.2'	Oil Shale and Marlstone, interbedded: Oil Shale, slightly dolomitic, light brown; low grade; even bedding. Marlstone, light gray, barren; even bedding. Fractures at 1109.2', 1105.0' and 1117.0'.
1118.2'	1130.5'	Missing core.
<u>CORE #46</u>		1130.5' - 1148.3' Cored 17.8' Recovered 14.6'
1130.5'	1133.0'	Oil Shale, slightly dolomitic; light brown; low grade; even to wavy bedding. Vertical fracture entire interval. Fracture filled at 1131.9' with black, tar-like hydrocarbon, coated with same material below 1131.9'.
1133.0'	1135.1'	Oil Shale, slightly dolomitic; medium brown; medium grade; even to wavy bedding.
1135.1'	1141.2'	Marlstone, tan to light brown; barren; even to wavy bedding. Fractures throughout, filled with black, tar-like hydrocarbon; other fractures coated with same hydrocarbon and white, powdery mineral.
1141.2'	1144.2'	Marlstone, silty, light gray to tan, barren, contorted bedding; contains abundant thin beds and blebs of soft tan silt.
1144.2'	1145.1'	Oil Shale, slightly dolomitic, medium brown; medium grade; even bedding.
1145.1'	1148.3'	Missing core.

From	To	Description
<u>CORE #47</u>		1148.3' - 1160.1' Cored 11.8' Recovered 11.6'
1148.3'	1150.5'	Oil Shale, slightly dolomitic and silty; medium brown; medium grade; even bedding; 0.1' thick silt bed at 1149.1'.
1150.5'	1159.9'	Marlstone, gray to light brown; barren; even bedding; vertical fracture at 1152.0' to 1153.0'. Core badly broken at 1154.4' to 1155.4' and below 1156.2'.
1159.9'	1160.1'	Missing core.
<u>CORE #48</u>		1160.1' - 1190.6' Cored 30.5' Recovered 30.5'
1160.1'	1162.1'	Oil Shale, slightly dolomitic, brown (medium); medium grade; even bedding.
1162.1'	1166.6'	Oil Shale, slightly dolomitic; light to medium brown; low to medium grade; even bedding; fractures throughout filled with white, powdery mineral; small cavities at 1165.5' to 1166.6'.
1166.6'	1182.5'	Oil Shale, slightly dolomitic; medium to dark brown; medium grade; even bedding.
1182.5'	1190.6'	Oil Shale, dolomitic, light to medium brown; low to medium grade; even bedding. Contains abundant cavities filled with white, powdery mineral; fracture at 1184.0' with same mineral on fracture surface.
<u>CORE #49</u>		1190.6' - 1236.0' Cored 45.4' Recovered 44.4'
1190.6'	1198.5'	Oil Shale, dolomitic, medium brown; medium grade; even bedding; below 1194.0' are abundant small leached cavities.
1198.5'	1224.8'	Oil Shale, dolomitic to slightly dolomitic, silty; medium brown; medium grade; even bedding. Vertical fractures at 1209' to 1211.4' (broken core), fracture at 1215.4' (60°); silty bed at 1222.0' to 1222.1'.

From	To	Description
1224.8'	1235.0'	Oil Shale, dolomitic and silty; light to medium brown; low to medium grade; even bedding. Small leached cavities at 1224.8' to 1226.0' and at 1228.8' to 1230.0'. Fracture at 1225.2' is filled with calcite; silty bed at 1231.1' to 1231.2'.
1235.0'	1236.0'	Missing core.
<u>CORE #50</u>		1236.0' - 1246.3' Cored 10.3' Recovered 10.3'
1236.0'	1239.5'	Marlstone, light brown; low grade; even bedding. Fractures entire length, multiple fractures at 1238.8' to 1239.0' filled with calcite.
1239.5'	1246.3'	Oil Shale, slightly dolomitic, medium brown; medium grade; even bedding; 0.1' thick tuff bed at 1243.8'; fracture at 1245.8' to 1246.3' (70°).
<u>CORE #51</u>		1246.3' - 1258.1' Cored 11.8' Recovered 11.8'
1246.3'	1254.9'	Oil Shale, slightly dolomitic, medium brown; medium grade; even to wavy bedding; calcite and black, tar-like hydrocarbon pods at 1249.2', 1249.9' to 1250.2' (several pods), 1250.9', 1251.1', 1252.5' (several pods, 1253.9'; vertical fracture at 1252.9' to 1253.2'.
1254.9'	1258.1'	Marlstone, light brown, low grade, even bedding. Core fractured and broken below 1256.5'.
<u>CORE #52</u>		1258.1' - 1308.8' Cored 50.7' Recovered 41.7'
1258.1'	1274.9'	Oil Shale, slightly dolomitic, light to medium brown; low to medium grade; even bedding. Fractures at 1260.0', 1268.8' to 1270.0', 1270.0' to 1270.2' (coated with black mineral), 1272.2' (filled with black mineral).
1274.9'	1299.8'	Oil Shale, slightly dolomitic, medium brown; medium grade; even bedding. Vertical sealed fracture at 1291.0' to 1292.2'.
1299.8'	1308.8'	Missing core.

From	To	Description
CORE #53		1308.8' - 1369.4' Cored 60.6' Recovered 60.6'
1308.8'	1321.8'	Oil Shale, slightly dolomitic, medium brown; medium grade; even bedding. Vertical fracture at 1318.1' to 1319.2' (coated with black mineral).
1321.8'	1332.9'	Oil Shale, slightly dolomitic, light to medium brown; low to medium grade; even bedding. Light brown silty beds at 1324.4' (<0.1' thick), 1325.4' (<0.1' thick), 1328.3' (0.1' thick), 1329.7' (0.1' thick).
1332.9'	1336.3'	Oil Shale, slightly dolomitic, medium to dark brown; medium to high grade; even bedding. Hydrocarbon streaks at 1333.0', 1333.5', and 1333.8'.
1336.3'	1337.0'	Oil Shale, slightly dolomitic, light to medium brown; low to medium grade; even bedding.
1337.0'	1339.0'	Oil Shale, slightly dolomitic, medium brown; medium grade; even bedding.
1339.0'	1344.5'	Oil Shale, slightly dolomitic, light to medium brown; low to medium grade; even bedding. Fractures at 1340.5' to 1341.5' (80°) and 1341.6' to 1342.9' (vertical, partially sealed with black hydrocarbon).
1344.5'	1347.4'	Oil Shale, slightly dolomitic and silty, medium to dark brown; medium grade; even bedding. Silty bed 0.1' thick at 1345.1'; hydrocarbon streaks at 1345.5' and 1346.7'.
1347.4'	1356.0'	Oil Shale, slightly dolomitic, light brown; low grade; even bedding.
1356.0'	1361.0'	Oil Shale, dolomitic, medium brown; medium grade; even bedding; hydrocarbon streaks at 1357.2', 1357.5' and 1358.0'.
1361.0'	1363.5'	Marlstone, light brown; low grade; even bedding; vertical fracture at 1362.2' to 1362.8 filled with calcite.
1363.5'	1369.4'	Oil Shale, slightly dolomitic; medium brown; medium grade; even bedding; 0.1' thick calcite bed at 1366.2'.

From	To	Description
<u>CORE #54</u>		
1369.4' - 1429.0' Cored 59.6' Recovered 59.6'		
1369.4'	1394.5'	Marlstone, light and medium browns; low grade; massive barren appearance with infrequent hydrocarbon-filled solution cavities and fissile lamina.
1394.5'	1414.8'	Oil shale, dolomitic, silty; medium browns; medium grade, distinctive interbedding of silts and hydrocarbons in lamina; most often fissile, bedding planes are normal; black, rich tar-like hydrocarbon deposits noted in fractured solution cavity 1410.5' - 1411.3'.
1414.8'	1429.0'	Oil Shale, dolomitic and silty, medium browns; higher medium grade, abundant silt lenses; very small in even bedding planes; rare hydrocarbon filled fractures, core has a generally massive appearance.
<u>CORE #55</u>		
1429.0' - 1489.0' Cored 60.0' Recovered 58.5'		
1429.0'	1450.5'	Oil Shale, dolomitic; medium to dark brown; high medium grade; even with slightly looped bedding; numerous calcite stringers at 1440.8' to 1442.8'; massive, some calcite-filled fractures.
1450.5'	1459.0'	Oil Shale, dolomitic, medium brown, low to medium grade; even bedding; sparse marcasite stringers; hydrocarbon (gilsonite) stringers; massive; pyritized gastropod at 1452.8'.
1459.0'	1473.5'	Marlstone, light to medium brown, low grade; even bedding; distinctive bedding planes (banded); numerous fractures filled with calcite.
1473.5'	1479.5'	Oil Shale, dolomitic, medium to dark brown; medium grade; even with slightly looped bedding, scattered streaks of hydrocarbons (gilsonite).
1479.5'	1487.5'	Marlstone, silty, light to medium brown; low grade; even to contorted bedding; numerous light brown silt lenses and lamina interbedded; scattered marcasite streaks; moderately fractured with bedding planes.
1487.5'	1489.0'	Missing core.

From	To	Description
<u>CORE #56</u>		1489.0' - 1547.5' Cored 58.5' Recovered 58.5'
1489.0'	1493.3'	Oil Shale, slightly dolomitic, silty; light and medium browns, medium grade; distinctive interbedding of silts and hydrocarbons with numerous small silt-filled solution cavities in normal and wavy bedding planes.
1493.3'	1502.5'	Oil Shale, slightly dolomitic, silty; medium to dark browns, medium to high grade; distinctive interbedding of silts and hydrocarbons in fissile lamina and lenses. In normal bedding planes core is moderately fractured.
1502.5'	1507.6'	Marlstone, silty; light and medium browns; low grade; frequent hydrocarbon and silt-filled fractures and solution cavities in moderately distinctive lenses and lamina of silt and hydrocarbons in normal bedding planes.
1507.6'	1529.4'	Oil Shale, slightly dolomitic to dolomitic, silty; medium and dark browns; high grade; predominantly indistinctive fissile interbedding of lower and higher grade hydrocarbons accompanied with infrequent silt lenses; moderate amounts of fracturing and calcite; silt- and hydrocarbon-filled solution cavities are found in even bedding planes.
1529.4'	1547.5'	Marlstone, silty; light and medium browns; lower grade; abundant lenses and lamina of silts and hydrocarbons in distinctive bedding planes; frequent silt- and hydrocarbon-filled solution cavities in normal bedding planes. A higher grade lens noted at 1438.5' to 1442.0'.
<u>CORE #57</u>		1547.5' - 1607.5' Cored 60.0' Recovered 54.4'
1547.5'	1554.8'	Marlstone, silty, light to medium brown and gray-brown; low grade; even to looped bedding; distinctive interbedding of silts and hydrocarbons in lenses and lamina, slightly argillaceous.
1554.8'	1571.0'	Oil Shale, dolomitic, silty; medium browns, lower to medium grade; even bedding; indistinctive interbedding of silts and hydrocarbons in lenses of lamina at 1561.0'; siltstone lens, carbonaceous material.

From	To	Description
1571.0'	1578.5'	Marlstone, silty, light gray-brown; low grade; even bedding, scattered asphaltic tuffs; indistinct bedding planes in lenses and lamina of silt and hydrocarbon.
1578.5'	1601.9'	Marlstone, light to medium gray-brown; even to looped bedding; moderately fractured; calcite and tar found on infrequent inherent fracture surfaces.
1601.9'	1607.5'	Missing core.
<u>CORE #58</u>		1607.5' - 1663.4' Cored 55.9' Recovered 55.9'
1607.5'	1615.0'	Oil Shale, dolomitic and silty, medium browns; lower to medium grade; moderately distinctive interbedding of silts and hydrocarbons in even bedding planes with rare pin-point, calcite-filled solution cavities.
1615.0'	1631.3'	Marlstone, light and medium browns; very low grade; section in predominantly marlstone with fissile lamina of hydrocarbons in rather indistinctive interbedding; bedding planes are normal to slightly wavy and tuff lenses are frequently found, average size of 0.1".
1631.3'	1640.0'	Oil shale, slightly dolomitic and silty; medium and dark browns; high grade; core is predominantly oil shale with rare silt lenses and lamina; bedding planes are normal to looped and core has a massive appearance.
1640.0'	1663.4'	Oil Shale, dolomitic and silty, light to medium and dark browns; medium grade; very distinctive interbedding in lenses and lamina; often fissile of silts and hydrocarbons in normal and slightly wavy bedding planes; rare hydrocarbon-filled solution cavities and tuff beds; core is moderately fractured.
<u>CORE #59</u>		1663.4' - 1723.4' Cored 60.0' Recovered 47.0'
1663.4'	1665.4'	Oil Shale, dolomitic and silty, medium to dark gray-brown; medium grade; even bedding with scattered light brown silt lamina, slightly argillaceous.

From	To	Description
1665.4'	1668.6'	Marlstone, light to medium gray-brown; barren; even with slightly looped bedding; distinctive banding (variegated), offset bedding fractures scattered throughout; slightly fractured core.
1668.6'	1679.5'	Oil Shale, dark gray-brown to dark brown; high medium to high grade; even bedding; sparse light brown asphaltic tuff beds 0.1'; thin, light gray, fine-grained bed, 0.1' at 1678.4'; scattered blebs of pyrite; moderately fractured core.
1679.5'	1687.8'	Marlstone, light brown; light to medium gray-brown; barren; even with some irregular bedding; distinctive banding (variegated), sparse, offset bedding fractures; streaks of calcite throughout, competent rock.
1687.8'	1691.5'	Oil Shale, dolomitic, medium to dark gray-brown; medium to medium-high grade; even bedding; sparse, altered tuff streaks, slightly fractured rock.
1691.5'	1699.4'	Marlstone, light brown; light to medium gray-brown; barren; even to nearly massive bedding, some banding, sparse calcite-sealed fractures, competent rock.
1699.4'	1710.4'	Oil Shale, dolomitic, silty, medium to dark gray-brown; low to medium grade; even bedding, some interbedding with silt lamina; sparse, light brown asphaltic tuff beds; slightly fractured rock.
1710.4'	1723.4'	Missing core.
<u>CORE #60</u>		1723.4' - 1783.5' Cored 60.1' Recovered 60.1'
1723.4'	1724.8'	Marlstone, light to medium brown; light to medium gray-brown; barren; even to looped bedding; distinctive banding, calcite crystals on fractured surfaces; slightly fractured.
1724.8'	1729.6'	Oil Shale, dolomitic and silty, medium to dark gray-brown; high medium to high grade; even to streaked bedding; numerous tuff and silt streaks and lenses (altered tuff streaks), moderately fractured; appears to be high grade at 1724.8' to 1727.5'; grades to unit below.

From	To	Description
1729.6'	1755.4'	Oil Shale, dolomitic and silty, medium brown; medium grade; irregular to streaked bedding; numerous tuff, altered tuff and silt streaks and silt lenses; trace of marlstone at 1736.7' to 1738.8'; large silt and tuff bed, 6', at 1741.8'; 4' at 1754.9'; moderately fractured core; sparse calcite and asphalt-filled inherent fractures.
1755.4'	1761.2'	Oil Shale, dolomitic and silty, medium to dark gray-brown; high medium grade; even bedding; sparse, light brown silt lenses, asphaltic tuff bed at 1760.8' (0.2'); numerous sealed inherent fractures; moderately fractured rock.
1761.2'	1764.9'	Oil Shale, dolomitic, medium brown; high medium grade; looped to irregular bedding; scattered tuff and altered tuff and silt streaks; flakes of carbonaceous material, slightly argillaceous, highly fractured.
1764.9'	1774.0'	Oil Shale, dolomitic and silty; medium to dark gray-brown; medium grade; even, with some irregular bedding; numerous large silt lenses and tuff, altered; beds and streaks; asphaltic tuff 0.2' at 1768.2'; numerous inherent fractures; highly argillaceous and fractured.
1774.0'	1783.5'	Marlstone, silty, light to medium brown, light to medium gray-brown; low grades; even to irregular bedding; distinctive banding; numerous light gray mudstone beds and light brown silt lenses; disseminated pyrite crystals throughout; argillaceous and highly fractured.
<u>CORE #61</u>		1783.5' - 1841.0' Cored 57.5' Recovered 55.9'
1783.5'	1797.4'	Oil Shale, dolomitic, medium browns; medium grade; badly broken to 1789.0'; indistinctive interbedding of silts, hydrocarbons, and mudstones in even to looped bedding planes; core has a massive appearance, highly broken areas of the core are apparently due to mudstone present.
1797.4'	1820.2'	Oil Shale, slightly dolomitic, silty; medium and dark browns; high grade; very distinct interbedding of silts, tuffs, and hydrocarbons,

From	To	Description
		in lenses and lamina in even to looped bedding planes throughout; core is highly fractured and easily broken. (The core unit came out of the core barrel in good shape, however, when handled it crumbled badly.)
1820.2'	1827.5'	Oil Shale, dolomitic and silty, light and medium browns; lower grade; very indistinct interbedding of silts and hydrocarbons in lamina with normal to slightly wavy bedding planes. Core has a somewhat massive appearance.
1827.5'	1839.4'	Oil Shale, slightly dolomitic and silty, dark browns; high grade; abundant tuff and silt lenses and lamina throughout interbedded with fissile hydrocarbon bedding; core is moderately fractured and calcite is rarely found in infrequent solution cavities.
1839.4'	1841.0'	Missing core.
		BLUE MARKER 1834'
<u>CORE #62</u>		1841.0' - 1899.0' Cored 58.0' Recovered 55.6'
1841.0'	1855.1'	Oil Shale, dolomitic and silty, light and medium browns; lower medium grade; distinctive interbedding of silts and hydrocarbons in lenses and lamina, usually fissile with normal to slightly wavy bedding planes.
1855.1'	1896.6'	Oil Shale, dolomitic and silty, medium and dark browns, medium grade; indistinct interbedding of silts, tuffs, mudstones and hydrocarbons in lenses and lamina, often fissile; core is highly fractured along mudstone facies with asphaltic surfaces on fractured tuffs; core is also slightly pyritic towards the lower one-third.
1896.6'	1899.0'	Missing core.
<u>CORE #63</u>		1899.0' - 1956.0' Cored 57.0' Recovered 53.1'
1899.0'	1911.5'	Oil Shale, medium to dark gray-brown; medium grade; even bedding, fissile, light brown, asphaltic tuff or silt beds; 0.7' at 1900.0', 0.5' at 1911.5'; disseminated pyrite throughout; core is argillaceous and highly fractured.

From	To	Description
1911.5'	1940.8'	Marlstone, interbedded with mudstone; medium brown, medium gray, medium to dark gray-brown; low grade; even bedding, fissile, distinct interbedding; numerous asphaltic tuff beds 0.3' throughout; asphalt and white silicate appearing crystals on fracture surfaces; scattered fossil fish and carbon fragments at 1928.0' to 1929.5'; core in general is very argillaceous and highly fractured.
1940.8'	1952.1'	Oil Shale, dolomitic and silty, medium gray-brown, medium grade; even to nearly massive bedding, fissile; numerous interbedded asphaltic tuffs and silt beds; numerous asphalt and white silicate crystals filling vertical fractures; scattered fossil fish fragments; core, in general, is very argillaceous and highly fractured.
<u>CORE #64</u>		1956.0' - 2017.0' Cored 61.0' Recovered 57.8'
1956.0'	2013.8'	Oil Shale, slightly dolomitic and silty; dark browns; high grade; a massive section with infrequent silt lenses about 0.1' in even to looped bedding planes; core is moderately parted; a gilsonite lens .05' at 1986.4' and calcite-filled solution cavities noted at 1987.3' to 1989.9'; the lower half is pyritic throughout with a slickenside noted at 2013.1'.
2013.8'	2017.0'	Missing core.
<u>CORE #65</u>		2017.0' - 2077.0' Cored 60.0' Recovered 58.1'
2017.0'	2028.6'	Oil Shale, dolomitic, dark gray-brown; high medium to high grade; even bedding with some looped bedding, fissile, warped bedding with slickensides on part surface at 2028.0' to 2028.6'; numerous unmineralized vertical fractures; light green waxy clay bed <0.1' at 2019.5'; scattered fossil fish fragments; scattered pyrite streaks; oil shale silty at 2021.3' to 2022.6'; argillaceous and highly fractured core.
2028.6'	2038.3'	Oil Shale, dolomitic, dark brown; medium to dark gray-brown, low, medium grade; even bedding, fissile; some distinctive interbedding with mudstone; light brown asphaltic tuff or possibly silt bed at 2033.5'; argillaceous and highly fractured core.

From	To	Description
2038.3'	2057.8'	Oil Shale, dolomitic and silty, dark brown, dark gray-brown; high grade; even with some looped bedding, fissile with scattered silt or possibly tuff beds, <0.3' interbedded; numerous asphalt sealed vertical fractures at 2039.5' to 2043.2'; bleeding asphalt bed, 0.6', at 2053.4'; sparse altered tuff stringers; also calcite stringers at lower end; core is slightly argillaceous, moderately fractured.
2057.8'	2063.4'	Oil Shale, dolomitic and silty, medium to dark gray-brown; high medium grade; even bedding, fissile, some silt interbedding; asphaltic silt or possibly tuff bed, 0.3', at 2060.6'; sparse, calcite stringers; core is moderately fractured.
2063.4'	2064.7'	Oil Shale, dolomitic and silty, medium brown, medium to dark gray-brown; high medium grade; streaked bedding; scattered altered tuff streaks, medium silt streaks; competent rock.
2064.7'	2075.1'	Oil Shale and Mudstone, interbedded; slightly dolomitic, medium to dark gray-brown, medium gray; even bedding, fissile, distinctive interbedding; numerous calcite stringers at 2066.1' to 2067.4'; thin, light green waxy clay-like bed <0.1' at 2070.2'; several asphaltic tuff or silt beds <0.4' at 2070.8' to 2072.5'; core is argillaceous and highly fractured.
2075.1'	2077.0'	Missing core.
<u>CORE #66</u>		2077.0' - 2133.7' Cored 56.7' Recovered 56.7'
2077.0'	2083.2'	Oil Shale and Mudstone, interbedded, slightly dolomitic; medium to dark gray-brown, medium gray; even bedding, fissile, distinctive interbedding; numerous calcite stringers; core is argillaceous and highly fractured.
2083.2'	2088.7'	Oil Shale, dolomitic and silty; dark brown; high medium to high grade; even bedding, fissile; several asphaltic tuff or silt beds <0.3'; scattered fossil fish fragments; core is argillaceous and moderately fractured.

From	To	Description
2088.7'	2102.0'	Marlstone interbedded with siltstones and mudstones; light to dark brown, medium gray-brown medium gray; low grade; even bedding with some streak bedding, fissile, very distinctive interbedding; numerous asphalt-sealed vertical fractures; scattered gilsonite streaks and fossil fish fragments; light gray siltstone bed 0.6' at 2092.0'; core is argillaceous and highly fractured.
2102.0'	2118.6'	Oil Shale, dolomitic, argillaceous; dark brown, dark gray-brown; medium grade; even with some streak bedding, fissile, some mudstone interbedding at 2103.5' to 2104.7'; numerous large gilsonite streaks and pods; light green, waxy clay-like stringer at 2108.2'; argillaceous and highly fractured core.
2118.6'	2124.3'	Marlstone, silty, interbedded with mudstone; medium gray-brown to medium gray; low grade; even bedding, fissile, very distinctive interbedding; light brown silt bed, 0.1', offset at 2120.8'; highly argillaceous and fractured core.
2124.3'	2133.7'	Oil Shale, dolomitic, dark brown to dark gray-brown; high medium grade; even with slight streak bedding, fissile; scattered gilsonite pods and streaks; pyrite stringers; asphaltic tuff or silt bed, 0.1', at 2130.2'; appears to be grading to an oil shale and mudstone interbedded as above at lower end; argillaceous and highly fractured core.
<u>CORE #67</u>		2133.7' - 2177.7' Cored 44.0' Recovered 37.8'
2133.7'	2147.6'	Marlstone and Mudstone, interbedded; medium brown to dark gray-brown and medium gray; low grade; even bedding with some scattered streak bedding, fissile, distinctive interbedding; numerous gilsonite streaks, partly pitted, and pods; scattered altered tuffs partially pyritic; core is highly argillaceous and fractured; grades into unit below.
2147.6'	2152.0'	Shale, medium blue-gray, medium gray-brown; even bedding, fissile, distinctive interbedding; numerous vertical unmineralized fractures, poker chip partings; highly fractured and argillaceous.

From	To	Description
2152.0'	2160.5'	Oil Shale, dolomitic; medium gray-brown, dark brown; medium high grade; even bedding, scattered pyrite streaks; abundant fossil fish fragments and carbonaceous flakes throughout; scattered asphaltic tuff stringers; core is moderately fractured, slightly argillaceous.
2160.5'	2164.1'	Marlstone, medium to dark gray-brown and medium blue-gray; low grade; even bedding, fissile, distinctive marlstone lamina and oil shale lamina interbedding; several asphalt, sealed vertical fractures, <0.4'; highly fractured rock.
2164.1'	2168.2'	Oil Shale, dolomitic, dark gray-brown; medium high grade; even bedding; fissile; numerous streaks of altered tuff, pyritic; moderately fractured rock; grades into unit below.
2168.2'	2171.5'	Shale, medium blue-gray to medium gray-brown; very low grade; even bedding, fissile, distinctive interbedding; numerous vertical, some asphaltic, fractures; several asphaltic tuff or silt beds 0.2'; core has an oily smell to it; highly argillaceous and fractured; poker-chip parting.
2171.5'	2177.7'	Missing core.
<u>CORE #68</u>		2177.7' - 2210.3' Cored 32.6' Recovered 30.0'
2177.7'	2207.7'	Oil Shale, dolomitic, medium to dark gray-brown; low medium to high medium grade; even bedding with slight looped and streak bedding, very fissile, numerous stringers and streaks of pyrite; sparse, altered tuff streaks; sparse, asphalt-sealed vertical fractures 0.2'; last 5' to 6' of core has a mudstone (no bedding could be distinguished) appearance, but did have an oily smell; so it could be called a low-grade oil shale; core is slightly argillaceous and moderately fractured.
2207.7'	2210.3'	Missing core.
		Total Depth - 2210.3'