

DIAMOND CORE DESCRIPTIONS

DIAMOND CORE NO. 1

Cored from 4900' to 4950', recovered 50':

<u>Top:</u>				
3' 0"	Shale, black, finely micaceous, slightly carbonaceous, very calcareous, slightly fossiliferous in streaks.			
8' 6"	Limestone, dark gray to dark brown, finely crystalline, very argillaceous, slightly fossiliferous with trace of vugs, small calcite veinlets, and few scattered stringers of dark gray, very calcareous, fossiliferous shale.	Trace	None	
23' 6"	Limestone, tan, slightly oolitic to very oolitic, few scattered fossils, faint odor, in upper two feet, no fluorescence, some dead stain, very salty taste.	Good	SW	
12' 6"	Limestone, dark gray, finely crystalline, dense, slightly fossiliferous, few calcite veinlets, argillaceous, irregularly interbedded in part with black slightly carbonaceous, micaceous, fossiliferous, flaky shale.	None	None	
2' 6"	Limestone, brown, fine to medium crystalline, fossiliferous, dense.	None	None	
50' 0"	TOTAL			

DIAMOND CORE NO. 2

Core from 5550' to 5567', recovered 16' (lost 1');

<u>Top:</u>				
2' 0"	Limestone, gray, finely crystalline, slightly arenaceous, argillaceous in few scattered streaks & with few nodules of blue-gray vitreous chert. Bleeding trace oil along fractures.	None	None	
8' 0"	Limestone, dark gray, finely crystalline, argillaceous, with abundant black, fossiliferous, pyritic, slightly waxy to slightly carbonaceous shale partings & streaks. Bleeding trace oil along partings.	None	None	
2' 6"	Shale, gray-green, slightly clayey to waxy with trace pyrite.			
3' 6"	Shale, black, finely micaceous, slightly carbonaceous, calcareous in part, slightly fissile.			
16' 0"	TOTAL			

DIAMOND CORE NO. 3

Cored from 5567' to 5607', recovered 40':

<u>Top:</u>				
1' 6"	Shale, black, finely micaceous, slightly calcareous, slightly fossiliferous.			
1' 0"	Shale, black, limy, carbonaceous, very fossiliferous, some gray finely crystalline limestone stringers.			
2' 6"	Shale, gray-green, waxy, fossiliferous, irregularly interbedded with brown, fine to medium crystalline, fossiliferous, slightly glauconitic limestone.			
1' 0"	Shale, gray-green, slightly waxy-clayey, slightly fissile.			
6' 6"	Limestone, brown, fine to medium crystalline, glauconitic, fossiliferous with inclusions & streaks of gray-green, slightly waxy, papery shale.	None	None	
1' 0"	Shale, black, slightly micaceous, carbonaceous, calcareous in part, fissile.			
6' 6"	Sandstone, tan, fine grained, well sorted, sub-angular, glauconitic, phosphatic, with numerous gray-green, argillaceous partings and few inclusions brown, finely crystalline, very glauconitic limestone. Bleeding some oil, excellent odor, saturated, good high order fluorescence, some broken porosity.	Fair-Broken	Oil	

Cored from 5567' to 5607', recovered 40':

Top:

1' 6"	Shale, black, finely micaceous, slightly calcareous, slightly fossiliferous.		
1' 0"	Shale, black, limy, carbonaceous, very fossiliferous, some gray finely crystalline limestone stringers.		
2' 6"	Shale, gray-green, waxy, fossiliferous, irregularly interbedded with brown, fine to medium crystalline, fossiliferous, slightly glauconitic limestone.		
1' 0"	Shale, gray-green, slightly waxy-clayey, slightly fissile.		
6' 6"	Limestone, brown, fine to medium crystalline, glauconitic, fossiliferous with inclusions & streaks of gray-green, slightly waxy, papery shale.	None	None
1' 0"	Shale, black, slightly micaceous, carbonaceous, calcareous in part, fissile.		
6' 6"	Sandstone, tan, fine grained, well sorted, sub-angular, glauconitic, phosphatic, with numerous gray-green, argillaceous partings and few inclusions brown, finely crystalline, very glauconitic limestone. Bleeding some oil, excellent odor, saturated, good high order fluorescence, some broken porosity.	Fair-Broken	Oil
0' 6"	Sandstone, gray, fine grained, glauconitic, phosphatic, very argillaceous with numerous stringers black, carbonaceous shale.	None	None
3' 6"	Shale, black, fissile, finely micaceous, slightly carbonaceous to slightly calcareous in part.		
1' 0"	Limestone, brown, fine to medium crystalline, glauconitic, finely sandy, with numerous argillaceous inclusions.	None	None
8' 0"	Sandstone, tan, fine grained, sub-angular, well sorted, glauconitic, slightly phosphatic, argillaceous, slightly calcareous, with inclusions of gray-green shale & streaks of brown finely crystalline, slightly glauconitic limestone. Bleeding some oil, some fair saturation, good odor, trace of poor porosity, some fair fluorescence.	Trace	Oil
7' 0"	Shale, black, carbonaceous, slightly fossiliferous finely micaceous, interbedded with stringers of gray, fine grained, glauconitic sandstone, bleeding trace oil from sandstone.		
40' 0"	TOTAL		

DIAMOND CORE NO. 4

Cored from 5610' to 5627', recovered 17':

Top:

2' 0"	Shale, black, carbonaceous, finely micaceous, with numerous thin stringers of gray, fine grain, sub-angular, glauconitic, sandstone.		
4' 6"	Limestone, brown, finely crystalline, slightly fossiliferous, glauconitic, very finely sandy with abundant black, carbonaceous, fossiliferous, finely micaceous shale partings & streaks slightly cross-bedded in appearance.	None	None
3' 6"	Shale, black, fissile, finely micaceous, carbonaceous, slightly fossiliferous in streaks, with one inch streak at bottom containing pyritized fossils, glauconitic, fine grained sand.		
6' 6"	Limestone, gray, finely crystalline, very argillaceous in part, very fossiliferous, with abundant crinoid stems, few scattered blastoid plates. Numerous streaks of black, carbonaceous to gray-green, semi-waxy shale partings, very fossiliferous, large number of bryzoan fronds throughout, containing Archimedes and Pentremites.	None	None
0' 6"	Limestone, light brown, finely crystalline to slightly argillaceous, very fossiliferous, bleeding some black oil along fractures, no fluorescence. No apparent porosity.	None	Trace Oil
17' 0"	TOTAL		

DIAMOND CORE NO. 5

DIAMOND CORE NO. 5

Cored from 5627' to 5644', recovered 17':

<u>Top:</u>		
2' 0"	Limestone, light brown, fine to medium crystalline, fossiliferous, trace vugs, few gray, slightly waxy, fossiliferous shale partings. Bleeding trace oil, some good stain, no fluorescence, some fossil-castic porosity.	Trace Trace Oil
1' 0"	Shale, gray-green, semi-waxy, very fossiliferous, containing Archimedes.	
4' 0"	Limestone, brown, very fossiliferous, argillaceous, to finely crystalline, slightly granular, with dark gray, calcareous, very fossiliferous shale partings, bleeding trace oil along fractures.	None Trace Oil
0' 6"	Shale, black, semi-waxy, slightly platy, slightly fossiliferous.	
4' 0"	Limestone, brown, finely crystalline, very fossiliferous, slightly fragmental, bleeding oil along fractures & partings. No fluorescence, good stain in part.	None Oil
3' 0"	Shale, black, slightly waxy, fissile, with 3" calcareous, fossiliferous streak at top.	
1' 0"	Limestone, gray, very argillaceous, fossiliferous, no show.	None None
0' 6"	Shale, black, slightly clayey, slightly fissile.	
1' 0"	Limestone, dark gray, very argillaceous, fossiliferous with 3" streak of black, hard coal and stringer of finely disseminated pyrite at bottom.	None None
17' 0"	TOTAL	

DIAMOND CORE NO. 6

Cored from 5644' to 5679', recovered 30': (5' lost).

<u>Top:</u>		
2' 0"	Shale, black, slightly waxy to fissile, trace finely disseminated pyrite stringers.	
3' 0"	Limestone, gray-green, dense, finely crystalline, argillaceous, containing some inclusions of brown, finely crystalline limestone and pyrite. Irregularly interbedded with reworked green, slightly clayey shale.	None None
4' 0"	Shale, brown to dark gray, scattered pyrite, slightly micaceous in part with few streaks of light gray, very calcareous shale near top.	
1' 0"	Coal, black, hard, some pyrite in bottom 2".	
5' 0"	Shale, dark gray, slightly waxy to calcareous, interbedded with fine stringers of finely disseminated pyrite & gray, finely crystalline limestone.	
15' 0"	Limestone, dark gray, dense, finely crystalline, slightly argillaceous, interbedded with numerous irregular streaks of dark gray, calcareous, slightly clayey, fissile shale, few scattered fossiliferous stringers.	None None
30' 0"	TOTAL	

DIAMOND CORE NO. 7

Cored from 5925' to 5962', recovered 35': (2' lost).

<u>Top:</u>		
19' 0"	Limestone, light gray-green, very finely sandy, with small rounded oolites, slightly argillaceous, slightly stylolitic in bottom foot, some faint odor along fractures.	None None
11' 0"	Limestone, light gray, extremely oolitic, mostly small rounded oolites, with stringers coarse, round to rod shaped oolites. Very stylolitic in part. Bleeding some oil along stringers of coarse oolites, good odor, no fluorescence.	Poor- None Trace Oil
5' 0"	Limestone, light gray, extremely oolitic. Small to coarse, rounded to rod shaped oolites. Streaks of fair porosity, bleeding some dark brown oil along porous streaks, good odor, no fluorescence. Few scattered fossils.	Fair in Streaks Oil

slightly clayey, fissile shale, few scattered
fossiliferous stringers.

30' 0" TOTAL

DIAMOND CORE NO. 7

Cored from 5925' to 5962', recovered 35': (2' lost).

Top:

19' 0"	Limestone, light gray-green, very finely sandy, with small rounded oolites, slightly argillaceous, slightly stylolitic in bottom foot, some faint odor along fractures.	None	None
11' 0"	Limestone, light gray, extremely oolitic, mostly small rounded oolites, with stringers coarse, round to rod shaped oolites. Very stylolitic in part. Bleeding some oil along stringers of coarse oolites, good odor, no fluorescence.	Poor-None	Trace Oil
5' 0"	Limestone, light gray, extremely oolitic. Small to coarse, rounded to rod shaped oolites. Streaks of fair porosity, bleeding some dark brown oil along porous streaks, good odor, no fluorescence. Few scattered fossils.	Fair in Streaks	Oil

35' 0" TOTAL

DIAMOND CORE NO. 8

Cored from 5962' to 6002', recovered 39': (1' lost).

Top:

10' 0"	Limestone, buff, fine to coarsely oolitic, fossiliferous, finely crystalline to slightly chalky in part, bleeding oil in places, good odor, some good saturation in part.	Fair in streaks	Oil
4' 0"	Limestone, buff, finely oolitic to finely crystalline, slightly fossiliferous, stylolitic, no apparent porosity, bleeding trace SW along fractures.	None	None
16' 0"	Limestone, light gray, finely crystalline, dense, few scattered small, rounded, poorly developed oolites, slightly fossiliferous with vertical fractures. Some slightly argillaceous streaks, becoming very fossiliferous, slightly fragmental in bottom foot. Bleeding trace oil & SW along fractures.	None	None
4' 0"	Limestone, gray, dense, argillaceous interbedded with streaks of gray, finely crystalline, dense limestone.	None	None
3' 0"	Limestone, light brown, fine to medium crystalline, fossiliferous, slightly argillaceous in streaks, bleeding SW from fossil-castic porosity in top 1'.	Fair in top foot	SW
2' 0"	Limestone, gray-brown, dense, finely crystalline, with one inch blue-gray translucent chert streak at top. Extreme vertical fractures. No apparent porosity, no show.	None	None

39' 0" TOTAL

DIAMOND CORE NO. 9

Cored from 6002' to 6039', recovered 37': (

Top:

2' 6"	Limestone, light brown, finely crystalline, dense, with gray, argillaceous limestone streaks, some trace of vertical fracturing.	None	None
4' 6"	Limestone, light brown, finely crystalline, slightly fossiliferous, with few nodules and streaks of blue-gray translucent chert.	None	None
6' 6"	Limestone, gray, finely crystalline		

DIAMOND CORE NO. 9

Cored from 6002' to 6039', recovered 37': (

Top:

2' 6"	Limestone, light brown, finely crystalline, dense, with gray, argillaceous limestone streaks, some trace of vertical fracturing.	None	None
4' 6"	Limestone, light brown, finely crystalline, slightly fossiliferous, with few nodules and streaks of blue-gray translucent chert.	None	None
6' 6"	Limestone, gray, finely crystalline, slightly fossiliferous, slightly dolomitic to slightly argillaceous in streaks. Some traces of poorly developed pin point porosity.	Trace	None
23' 0"	Limestone, tan, finely crystalline, with poorly developed, rounded small to coarse oolites, slightly phosphatic, with numerous stylolitic partings, becoming slightly granular in bottom 10', few scattered small sub-angular quartz sand grains throughout, becoming slightly argillaceous in streaks. Entire section vertically fractured, some dead oil stains along fractures, with very poorly developed pin point porosity throughout. Bleeding trace salt water.	Trace	SW
37' 0"	TOTAL		