

COMPLETION REPORT

DIAMOND SHAMROCK CORPORATION

BOISE CASCADE #11-14

Sec. 14, T. 7 N., R. 7 W.

CLATSOP COUNTY, OREGON

TESTS: DST #1 6247' to 6294' Misrun--packer failure.

DST #2 6254' to 6294' Misrun--unable to get tool to bottom
because of tight hole.

DST #3 6573' to 6608' Misrun--packer failure.

DST #4 6574' to 6608' Misrun--packer failure.

A Repeat Formation Tester was run during logging run #1 at
7050 feet.

Casing was run to TD, five zones were selected for testing,
three zones were perforated and tested.

CORES: Sidewall cores were shot during logging run #1 at 7050 feet
and run #2 at TD.

LOGS: Dual Induction--SFL--Sonic
Compensated Neutron--Formation Density
Dipmeter
Velocity Survey
Repeat Formation Tester
Sidewall Cores

GEOLOGIC SUMMARY

OSWALD WEST MUDSTONE (intertongues with Scappoose Formation)

0-120 Mudstone: Brown to gray-brown, sandy, occasionally bentonitic and occasionally micaceous, locally abundant carbonaceous fragments, rare pumice fragments; with minor sandstone, very fine-grained, poorly sorted.

SCAPPOOSE FORMATION (intertongues with the Oswald West Mudstone)

120-180 Sandstone: Gray, salt and pepper, argillaceous, abundant carbonaceous material, poorly lithified, siltier and more argillaceous downward, rare coarse sand grains and very fine, rounded pebbles of chert and quartz.

OSWALD WEST MUDSTONE

180-300 Mudstone: As above.

SCAPPOOSE FORMATION

300-480 Sandstone: Fine-grained, moderately sorted, moderately lithified, abundant lithic fragments, common very coarse sand grains to fine pebbles; interbedded with mudstone as above.

PITTSBURG BLUFF FORMATION

480-1428 Mudstone: Medium brown to gray-brown, occasional volcanic fragments, occasionally bentonitic.

1428-1446 Basalt: Intrusion.

1446-2015 Mudstone: As above.

2015-2240 Sandstone: Fine-grained, light to dark gray, often very argillaceous, interbedded with mudstone as above.

2240-2588 Mudstone: Medium brown.

2588-3086 Interbedded sandstone and shale:

Sandstone: White to light gray, salt and pepper, micaceous, glauconitic.

Shale: Brown and gray.

3086-3099 Basalt: Intrusion.

3099-3890 Mudstone: Brown to dark gray.

3890-4024 Sandstone: Light gray to white, very fine- to medium-grained, moderately to well sorted, subrounded. Also interbedded with siltstone and shale.

KEASEY FORMATION

4024-5300 Mudstone: Medium gray to brown, often very sandy, occasional thin stringers of very fine-grained sandstone.

KEASEY FORMATION/GOBLE VOLCANICS TRANSITIONAL ZONE

(Represents sedimentation near active volcanic center)

5300-5652 Volcaniclastic sediments: Interbedded sandstone, siltstone, and conglomeritic sandstone; poorly sorted tightly cemented to friable with clay matrix, silt to medium-grained sand, often with very fine pebbles.

5654-5671 Basalt: Possible flow.

5671-5905 Volcaniclastic sediments: As above.

COWLITZ FORMATION (intertongues with Goble Volcanics)

5905-6002 Siltstone and sandstone: Brown, sandy siltstone with thin stringers of green, fine-grained, argillaceous sandstone grading downward into gray, fine- to medium-grained, argillaceous sandstone.

6002-6244 Mudstone, siltstone and shale: Light to dark brown, often very sandy.

GOBLE VOLCANICS (intertongues with Cowlitz Formation)

6244-6282 Dolomite: White to light brown, possibly interbedded with altered volcanic rocks.

6282-6370 Volcanics: Tuff, tuff breccia, interbedded siltstone, and minor sandstone.

COWLITZ FORMATION

6370-6505 Shale: Medium brown with occasional thin stringers of very fine-grained sandstone.

6505-6924 Sandstone: Light gray to white, generally fine-grained, well sorted, clean, fair to good porosity, interbedded with silty shale, argillaceous siltstone and silty, very fine-grained sandstone. In general, the unit becomes more silty and argillaceous near the base of the unit and grades into the shale and siltstone of the unit below.

6924-7254 Shale: Medium brown, silty. Also sandy siltstone and thin stringers of argillaceous sandstone.

Thin bedded or

GOBLE VOLCANICS

7254-7864 Volcanics: Tuff, basalt breccia, basalt, interlayered tuffaceous siltstone and shale.

Total Depth 7864