Vulcan - Investcan FB TH 4: 2011-10-10

Depth (m) From	Depth (m) To	Thickness (m)	Description	Lineations	Porosity	Oil/gas show	Rock quality
0	34	34	Overburden: Glacial till with some boulders and pebbles in a matrix of mainly sand and clay.				unconsolidated
34	61	27	Claystone with Overburden: red, sticky, very soft, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated to un-consolidated, in part conglomeratic, with overburden sections of glacial till. **Core Boxes(1-6).**				unconsolidated
61.0 - 115.0 m, Upper Codroy Road Formation: Claystone - Conglomeratic Sandstone Unit							
61	68.4	7.4	Sandstone: Conglomeratic, red, orange yellow, light green, medium to very coarse grained, frequent pebbles, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, arkosic, with brecciated fragments of quartz, orange feldspar and chlorite schist, occasional clasts of limestone. **Core Boxes(6-8).**				consolidate to un-consolidated
68.4	71.7	3.3	Claystone: Predominately red, sticky, very soft, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated to un-consolidated, occasional pebbles and silty intervals up to 0.10m wide, calcareous cemented, varied colored, occasional developed slickensides, parallel to bedding at 45^0 to Core Axis. Frequent (0.2 to 0.3m) intervals of Sandstone, red, orange yellow, light green, medium to coarse grained, moderately sorted, subrounded, predominately quartz, hard to friable, consolidated with calcareous cement, arkosic, occasionally conglomeratic with brecciated fragments of quartz and orange feldspar. **Core Boxes(8-9).**	45^0 CA			consolidate to un-consolidated
71.7	76.6	4.9	Sandstone: Conglomeratic, red, orange yellow, light green, medium to very coarse grained, frequent pebbles, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, arkosic, with brecciated fragments of quartz, orange feldspar and chlorite schist, occasional clasts of limestone. **Core Boxes(9-10).**				consolidate to un-consolidated
76.6	82.9	6.3	Claystone: Predominately red, sticky, soft to very soft, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated to un-consolidated, occasional pebbles and silty intervals up to 0.13m wide, calcareous cemented, varied colored. **Core Boxes(10-11).**				
82.9	100.5	17.6	Claystone: Red, sticky, soft to very soft, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated to un-consolidated, calcareous cemented, varied colored. Conglomeratic sandstone sections at 83.0m - 1.12m long, at 85.9m - 3.0m long, at 91.0m - 1.57m long, and at 98.2m - 2.3m long. **Core Boxes(11-15). 100 % Core Recovery.**				consolidate to un-consolidated

100.5	107.1	6.6	Sandstone: Conglomeratic, red, orange yellow, light green, medium to very coarse grained, frequent pebbles, poorly sorted, subrounded to angular, predominately quartz, from 100.5 to 104.6m friable to un-consolidated, calcareous cemented , arkosic, with brecciated fragments of quartz, orange feldspar and chlorite schist. **Core Boxes(16-17). 100% Core Recovery.**				un-consolidated
107.1	109	1.9	Claystone with Conglomeratic Sandstone: red, strongly hematized, soft to firm, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated, calcareous cemented, varied colored, at 35^0 to core axis, interbedded with conglomeratic sandstone, consolidated, coarse grained to pebble clasts. **Core Box(17)**	35^0 CA.			consolidated
109	115	6	Sandstone: conglomeratic, red, orange yellow, light green, coarse to very coarse grained, frequent pebbles, poorly sorted, subrounded to angular, predominately quartz, firm to friable, consolidated to un-consolidated with calcareous cement, arkosic, with brecciated fragments of quartz, orange feldspar and chlorite schist, occasional clasts of hematized quartzites(2-6cm). From 113 to 115m conglomeratic sandstone, medium to coarse grained, firm to very hard, moderately sorted, subrounded, mainly quartz, feldspar. No visible porosity. **Core Boxes(18-19). 100% Core Recovery. Casing set @ 115m**				consolidated
115	124.5	9.5	Claystone with Conglomeratic Sandstone: red, strongly hematized, soft to firm, water soluble clay, frequent dark red to red brown to orange brown, interbedded with light green, silty claystone consolidated, calcareous cemented, varied colored, at 30^0 to core axis, **Core Boxes(20-22) . 95% Core Recovery**	30^0 CA			consolidated
124.5	127	2.5	Sandstone with Claystone: red, orange yellow, light green, medium to coarse grained, firm to very hard, moderately sorted, subrounded, mainly quartz, feldspar, interbedded with red, strongly hematized, soft to firm, water soluble clay, frequent dark red to red brown to orange brown, silty claystone consolidated, calcareous cemented, no visible porosity. **Core Box(22). 90% Core Recovery**				consolidated
127 - 184m PreCambrian Basement Rock (Granite & Mafic Gneiss)							
127	184	57	Granite Gneiss with Claystone: red, orange brown hematized silty Claystone sections from 127.5m to 130.6m. From 130.6m to 184m mainly Granite Gneiss with abundant red orange K-feldspar and white to glassy quartz, coarse to medium grained, massive to foliated, highly fractured. Frequent quartz carbonate streaks, occasional sections of dark green mafic gneiss with green chlorite and epidote alterations, well developed schistosity at 40^0 to CA. Live Oil weeping from fractures at 165.1m and from 166.0 to 166.5m. Final Total Depth at 184m. **Core Boxes(22-28). 47% Core Recovery**	40^0 CA		minor Oil shows at 165.1m & from 166.0 to 166.5m.	consolidated