

### 3. Formation Evaluation

#### 3.1. Depth and Types of Cores and Cuttings, Well Evaluation Log and Fluid Samples

##### 3.1.1. Drill Cores

N/A

##### 3.1.2. Cuttings Descriptions

###### Interval

<b>0 - 4.2m</b>	Void
<b>4.2m - 10m</b>	Clay, weathered, mottled yellow-red-brown, siltstone fragments, dolomite fragments
<b>10m - 17.8m</b>	Weathered Dolomite
<b>17.8 - 24m</b>	DOLOMITIC SILTSTONE: DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining.
<b>24m - 30m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs
<b>30m - 36m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs, minor calcite veining
<b>36m - 42m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs, minor calcite veining, trace pyrite on fresh surfaces, dark fine grained bands in dolomite
<b>42m - 48m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs, minor calcite veining, trace pyrite on fresh surfaces, dark fine grained bands in dolomite, minor green tuffaceous bands

<b>48m - 54m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs, minor calcite veining, trace pyrite on fresh surfaces, dark fine grained bands in dolomite, minor green tuffaceous bands
<b>54m - 60m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Trace pyrite, possible galena, possible bit blebs, minor calcite veining, trace pyrite on fresh surfaces, dark fine grained bands in dolomite, minor green tuffaceous bands, light grey – dark grey, bands, decrease in pyrite
<b>60m - 66m</b>	DOLOMITE: grey, minor green, hard, cryptocrystalline, minor calcite veining, fine siltstone bands, SILTSTONE: grey – dark grey, hard, blocky, minor calcite veining. Possible bituminous blebs, minor calcite veining, trace , dark fine grained bands in dolomite, minor green tuffaceous bands, light grey – dark grey, bands, no pyrite.
<b>66m - 72m</b>	DOLOMITE: light grey – grey, cryptocrystalline, hard, blocky, finely banded, abundant calcite fragments.
<b>72m - 78m</b>	DOLOMITIC SILTSTONE: med brown – grey brown, light – med grey, hard blocky, cryptocrystalline, finely lam, poor calcite, trace black min, no visible porosity
<b>78m - 84m</b>	DOLOMITIC SILTSTONE: light brown – med brown, light – med grey, hard, blocky, cryptocrystalline, finely laminated, calcite in part, very poor calcite
<b>84m - 90m</b>	DOLOMITIC SILTSTONE: light creamy brown – light grey – med grey brown, hard, blocky, cryptocrystalline, finely laminated, mottled texture
<b>90m - 96m</b>	DOLOMITIC SILTSTONE: light grey – med grey brown, hard, blocky, cryptocrystalline, mottled texture, mod calcite, minor calcite veining, trace pyrite, trace orange lithics, no visible porosity
<b>96m - 102m</b>	DOLOMITIC SILTSTONE: light grey – med dark brown, hard, blocky, cryptocrystalline, lam, mottled texture, highly calcite, minor calcite veining, trace pyrite
<b>102m - 108m</b>	DOLOMITIC SILTSTONE: light grey – med dark brown, hard, blocky, cryptocrystalline, lam, mottled texture, highly calcite, minor calcite veining, trace pyrite
<b>108m - 114m</b>	DOLOMITIC SILTSTONE: light grey – med grey, brown grey, hard, blocky, cryptocrystalline, lam, mottled texture, dark blebs, mod - highly calcite, minor calcite veining

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<b>114m - 120m</b>	DOLOMITIC SILTSTONE: light olive grey – med grey, minor yellow grey, hard, blocky, cryptocrystalline, finely laminated in part, highly calcite rich
<b>120m - 126m</b>	DOLOMITIC SILTSTONE: light grey – med grey, brown grey, hard, blocky, cryptocrystalline, finely laminated in part, mottled texture, dark blebs, mod calcite, minor calcite veining
<b>126m - 132m</b>	DOLOMITIC SILTSTONE: light grey – med grey, brown grey, hard, blocky, cryptocrystalline, finely laminated in part, mottled texture, dark blebs, mod calcite, minor calcite veining, minor off white, brecciated in part, no visible porosity
<b>132m - 138m</b>	DOLOMITIC SILTSTONE: off white – light grey – med grey brown, hard, blocky, cryptocrystalline, finely laminated in part, mottled texture, dark blebs, calcite, trace pyrite filled fractures
<b>138m - 144m</b>	DOLOMITIC SILTSTONE: off white – light grey – med grey brown, hard, blocky, cryptocrystalline, finely laminated in part, mottled texture, dark blebs, calcite, trace pyrite filled fractures
<b>144m - 150m</b>	DOLOMITIC SILTSTONE: off white – light grey – med dark grey, hard, blocky, cryptocrystalline, finely laminated, mottled texture, dark blebs, calcite, trace pyrite filled fractures & veining, no visible porosity.
<b>150m - 157m</b>	DOLOMITIC SILTSTONE: off white – light grey – med dark grey, hard, blocky, cryptocrystalline, finely laminated, mottled texture, dark blebs, calcite, trace pyrite filled fractures & veining, no visible porosity.
<b>157m - 163m</b>	DOLOMITIC SILTSTONE: off white – light grey – med dark grey, hard, blocky, cryptocrystalline, finely laminated, mottled texture, dark blebs, calcite, trace pyrite filled fractures & veining, no visible porosity.
<b>163m - 169m</b>	DOLOMITIC SILTSTONE: off white – light grey – med dark grey, hard, blocky, cryptocrystalline, finely laminated, mottled texture, dark blebs, calcite, trace pyrite filled fractures & veining, no visible porosity.
<b>169m - 175m</b>	DOLOMITIC SILTSTONE: off white – light grey – med dark grey, hard, blocky, cryptocrystalline, finely laminated, mottled texture, dark blebs, calcite, trace pyrite filled fractures & veining, no visible porosity.
<b>175m - 181m</b>	DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>181m - 187m</b>	DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no

fluorescence, odour, or cut, fine argillaceous sandstone in part

- 187m - 193m** DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
- 193m - 199m** DOLOMITE: light brown - light olive grey, light – medium grey, hard, blocky, microcrystalline with minor medium crystals, laminated in part, common calcite fragments, calcareous, NVP. Interbedded with SILTSTONE: dark brown grey – dark green grey, hard, blocky, very fine arenitic in part, trace pyrite (specks and veins), rare galena, non-calcareous
- 199m - 205m** DOLOMITE: light brown - light olive grey, light – medium grey, hard, blocky, microcrystalline with minor medium crystals, laminated in part, common calcite fragments, calcareous, NVP. Interbedded with SILTSTONE: dark brown grey – dark green grey, hard, blocky, very fine arenitic in part, trace pyrite (specks and veins), rare galena, non-calcareous
- 205m - 211m** DOLOMITE: light brown - light olive grey, light – medium grey, hard, blocky, microcrystalline with minor medium crystals, laminated in part, common calcite fragments, calcareous, NVP. Interbedded with SILTSTONE: dark brown grey – dark green grey, hard, blocky, very fine arenitic in part, trace pyrite (specks and veins), rare galena, non-calcareous
- 211m - 217m** DOLOMITE: light brown - light olive grey, light – medium grey, hard, blocky, microcrystalline with minor medium crystals, laminated in part, common calcite fragments, calcareous, NVP. Interbedded with SILTSTONE: dark brown grey – dark green grey, hard, blocky, very fine arenitic in part, trace pyrite (specks and veins), rare galena, non-calcareous
- 217m - 223m** DOLOMITE: light brown - light olive grey, light – medium grey, hard, blocky, microcrystalline with minor medium crystals, laminated in part, common calcite fragments, calcareous, NVP. Interbedded with SILTSTONE: dark brown grey – dark green grey, hard, blocky, very fine arenitic in part, trace pyrite (specks and veins), rare galena, non-calcareous
- 223m - 229m** DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part

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<b>229m - 235m</b>	DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>235m - 241m</b>	DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>241m - 247m</b>	DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, mottled texture poss. fenestral with chert fill, dark blebs, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>247m - 253m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>253m - 259m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>259m - 265m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>265m - 271m</b>	DOLOMITE: light grey - medium dark grey, medium grey hard, blocky, microcrystalline with minor coarse crystals, abundant BRECCIATED fragments, calcareous, NVP, rare black siltstone
<b>271m - 277m</b>	DOLOMITE: light grey - medium dark grey, medium grey hard, blocky, microcrystalline with minor coarse crystals, abundant BRECCIATED fragments, calcareous, NVP, rare black siltstone
<b>277m - 283m</b>	DOLOMITE: light grey - medium dark grey, medium grey hard, blocky, microcrystalline with minor coarse crystals, abundant BRECCIATED fragments, calcareous, NVP, rare black siltstone
<b>283m - 289m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>289m - 295m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>295m - 301m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP

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<b>301m - 307m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>307m - 313m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>313m - 319m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>319m - 325m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>325m - 331m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>331m - 337m</b>	DOLOMITE: light grey -medium grey, hard, blocky, microcrystalline with minor calcite, calcareous, NVP
<b>337m - 343m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>343m - 349m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>349m - 355m</b>	BRECCIATED DOLOMITE: light grey – medium grey, brown grey, hard, blocky, cryptocrystalline, moderately - highly calcareous, minor Calcite vein, no fluorescence, odour, or cut, fine argillaceous sandstone in part
<b>355m - 361m</b>	DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
<b>361m - 367m</b>	DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
<b>367m - 373m</b>	DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
<b>373m - 379m</b>	DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
<b>379m - 385m</b>	DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite

veining, NO FLUORESCENCE, ODOR, OR CUT

- 385m - 391m** DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
- 391m - 397m** DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
- 397m - 403m** DOLOMITIC CLAYSTONE: dark grey –dark brown, clay rich fines, blocky and tabular, strongly dolomitized, calcareous, minor Calcite veining, NO FLUORESCENCE, ODOR, OR CUT
- 403m - 409m** DOLOMITIC CLAYSTONE: brownish grey – medium dark grey, minor light grey, hard, blocky, calcareous, minor calcite fragments & veins, rare pyrite, no visible porosity.
- 409m - 415m** DOLOMITIC CLAYSTONE: brownish grey – medium dark grey, minor light grey, dark grey, hard, blocky, calcareous, minor calcite, trace black (bituminous?) flecks, trace green calcite fluorescence - no cut, rare pyrite
- 415m - 421m** DOLOMITIC CLAYSTONE: brownish grey – medium dark grey, minor light grey, dark grey, hard, blocky, calcareous, minor calcite, trace black (bituminous?) flecks, trace green calcite fluorescence - no cut, rare pyrite
- 421m - 427m** DOLOMITIC CLAYSTONE : light grey to brownish grey, hard, blocky, calcareous, minor calcite, trace yellow green calcite fluorescence – no cut, no visible porosity
- 427m - 433m** DOLOMITIC CLAYSTONE : light grey to brownish grey, hard, blocky, calcareous, minor calcite, trace yellow green calcite fluorescence – no cut, no visible porosity
- 433m - 439m** DOLOMITIC CLAYSTONE: medium dark grey – brownish grey, hard, blocky, dolomitised, calcareous, minor calcite veins
- 439m - 445m** DOLOMITIC CLAYSTONE: medium dark grey – brownish grey, hard, blocky, dolomitised, calcareous, minor calcite veins
- 445m - 451m** DOLOMITIC CLAYSTONE: medium dark grey – minor brownish grey, hard, blocky, dolomitised, calcareous, minor calcite veins, trace Pyrite
- 451m - 457m** DOLOMITIC CLAYSTONE: light to medium grey – minor brownish grey in part, hard, blocky, cryptocrystalline dolomitised, calcareous, increasing calcite veins, trace Pyrite, few possible bituminous blebs in trace brown very fine siltstone grains, NF

- 457m - 463m** DOLOMITIC CLAYSTONE: dark to medium grey, hard, blocky, cryptocrystalline dolomitised, calcareous, increasing calcite veins, trace black siltstone fragments, NF
- 463m - 469m** DOLOMITIC SILTSTONE: dark grey to black, very fine grained, hard, blocky, finely laminated in part, cryptocrystalline dolomitised, moderately calcareous, minor calcite veins, NF
- 469m - 475m** DOLOMITIC SILTSTONE: dark grey to black, very fine grained, hard, blocky, finely laminated in part, cryptocrystalline dolomitised, moderately calcareous, minor calcite veins, NF
- 475m - 481m** DOLOMITIC SILTSTONE: dark grey to black, very fine grained, hard, blocky, finely laminated in part, cryptocrystalline dolomitised, moderately calcareous, minor calcite veins, NF
- 481m - 487m** DOLOMITIC SILTSTONE: dark grey to black, very fine grained, hard, blocky, finely laminated in part, cryptocrystalline dolomitised, moderately calcareous, minor calcite veins, NF
- 487m - 493m** DOLOMITIC SILTSTONE: dark grey, minor medium grey, hard, blocky, laminated in part, cryptocrystalline, calcareous, rare light grey dolomite veins, trace mineral fluorescence – no cut, no visible porosity
- 493m - 499m** DOLOMITIC SILTSTONE: dark grey, minor medium grey, hard, blocky, laminated in part, cryptocrystalline, calcareous, rare light grey dolomite veins, trace mineral fluorescence – no cut, no visible porosity
- 499m - 504m** DOLOMITIC SILTSTONE: dark grey, minor medium grey to olive grey, hard, blocky, laminated in part, cryptocrystalline, calcareous, rare light grey dolomite veins, trace mineral fluorescence – no cut, no visible porosity
- 504m - 510m** DOLOMITIC SILTSTONE: dark grey, minor medium grey to olive grey, hard, blocky, laminated in/p, cryptocrystalline, calcareous, rare light grey dolomite veins, trace mineral fluorescence – no cut, no visible porosity
- 510m - 516m** DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, rare dolomite filled fractures, no visible porosity
- 516m - 522m** DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, rare dolomite filled fractures, no visible porosity
- 522m - 528m** DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor brown grey, hard, blocky, laminated in part, cryptocrystalline, calcareous, rare dolomite filled fractures, no visible porosity

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<b>528m - 534m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, rare finely crystalline dolomite filled fractures/frags
<b>534m - 540m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures, trace brecciated dolomite, laminated in part, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>540m - 546m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures, trace brecciated dolomite, laminated in part, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>546m - 552m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>552m - 558m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>558m - 564m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>564m - 570m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>570m - 576m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>576m - 582m</b>	DOLOMITIC SILTSTONE: medium dark grey to greyish black, minor light grey, hard, blocky, cryptocrystalline, calcareous, minor finely crystalline dolomite filled fractures & fragments, laminated in/p, slight porosity in fractures, trace green mineral fluorescence – no cut
<b>582m - 588m</b>	DOLOMITIC SILTSTONE: light grey to medium dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures & fragments, trace green mineral fluorescence – no cut
<b>588m - 594m</b>	DOLOMITIC SILTSTONE: light grey to medium dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures

& fragments, trace green mineral fluorescence – no cut

- 594m - 600m** DOLOMITIC SILTSTONE: light grey to medium dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures & fragments, trace green mineral fluorescence – no cut
- 600m - 606m** DOLOMITIC SILTSTONE: light grey to medium dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures & fragments, trace green mineral fluorescence – no cut, trace Pyrite on fracture
- 606m - 612m** DOLOMITIC SILTSTONE: light grey to medium dark grey, minor dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures & fragments, trace green mineral fluorescence – no cut
- 612m - 618m** DOLOMITIC SILTSTONE: light grey to medium dark grey, minor dark grey, hard, blocky, microcrystalline, calcareous, common dolomite filled fractures & fragments, trace green mineral fluorescence – no cut
- 618m - 624m** DOLOMITIC SILTSTONE: light grey to medium dark grey, minor dark grey, hard, blocky, cryptocrystalline, calcareous, common dolomite frags, laminated in part
- 624m - 630m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in part, rare disseminated pyrite (<1%)
- 630m - 636m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in part, rare disseminated pyrite (<1%)
- 636m - 642m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in part, rare disseminated pyrite (<1%)
- 642m - 648m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in/p, rare <1mm calcite with pyrite/galena? (<1%), minor white calcareous spheroids to 2mm. banded,
- 648m - 654m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in/p, rare <1mm calcite with pyrite/galena? (<1%), minor white calcareous spheroids to 2mm. banded, becoming more DOLOMITE with minor mud/clay components
- 654m - 660m** DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in part, minor Calcite veins

<b>660m - 666m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, common dolomite fractures, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>666m - 672m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>672m - 678m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, sandy in part, calcareous,, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>678m - 684m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut with PYRITIC SILTSTONE: minor black VFG, laminated
<b>684m - 690m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>690m - 696m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>696m - 702m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>702m - 708m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, trace VFG disseminated Pyrite, very weak fluorescence, no cut
<b>708m - 714m</b>	DOLOMITIC SILTSTONE: light grey to dark grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with minor DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, no fluorescence, no cut

<b>714m - 720m</b>	DOLOMITIC SILTSTONE: light grey to dark grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with minor DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, no fluorescence, no cut
<b>720m - 726m</b>	DOLOMITIC SILTSTONE: light grey to dark grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with minor DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, no fluorescence, no cut
<b>726m - 732m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor dolomite fractures and fragments, no visible porosity
<b>732m - 738m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor dolomite fractures and fragments, no visible porosity
<b>738m - 744m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, minor brown grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor dolomite fractures and fragments, no visible porosity, rare disseminated Pyrite(1%), rare brecciated in part
<b>744m - 750m</b>	DOLOMITIC SILTSTONE: light grey to grey brown, minor greyish black, minor brown grey, hard, blocky, microcrystalline, calcareous, laminated in part, minor dolomite fractures and fragments, no visible porosity, rare disseminated Pyrite(1%), rare brecciated in part
<b>750m - 756m</b>	DOLOMITIC SILTSTONE: light grey to brown grey, common greyish black, hard, blocky, cryptocrystalline, calcareous, minor dolomite fractures, trace calcite, rare pyrite veins (predominantly disseminated)
<b>756m - 762m</b>	DOLOMITIC SILTSTONE: light grey to brown grey, common greyish black, hard, blocky, cryptocrystalline, calcareous, minor dolomite fractures, trace calcite, rare pyrite veins (predominantly disseminated), with minor DOLOMITE: grey – brown, hard, blocky, cryptocrystalline,
<b>762m - 768m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with trace (<1%) PYRITIC SILTSTONE: black VFG, laminated
<b>768m - 774m</b>	DOLOMITIC SILTSTONE: light grey to greyish black, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with increasing 30% DOLOMITE: grey – brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 10% weakly PYRITIC SILTSTONE: black VFG, laminated

- 774m - 780m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with increasing 40% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 10% weakly PYRITIC SILTSTONE: black VFG, laminated
- 780m - 786m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with increasing 40% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 10% weakly PYRITIC SILTSTONE: black VFG, laminated, trace breccia in 1 grain
- 786m - 792m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, cryptocrystalline, calcareous, laminated in part, minor Calcite veins with increasing 40% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 5% weakly PYRITIC SILTSTONE: black VFG, laminated
- 792m - 798m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, cryptocrystalline, calcareous, laminated , minor Calcite veins with increasing 40% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 5% weakly PYRITIC SILTSTONE: black VFG, laminated
- 798m - 804m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, becoming fissile, cryptocrystalline, calcareous, laminated, minor Calcite veins with increasing 40% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 10% weakly PYRITIC SILTSTONE: black VFG, laminated, brecciated in part
- 804m - 810m** DOLOMITIC SILTSTONE: light grey to grey, hard, blocky, becoming fissile, cryptocrystalline, calcareous, laminated, minor Calcite veins with increasing 20% DOLOMITE: grey to light brown, hard, blocky, cryptocrystalline, minor VFG disseminated Pyrite, no fluorescence, no cut with 5% weakly PYRITIC SILTSTONE: black VFG, laminated, brecciated in part, becoming 50% DOLOMITIC SILTSTONE: pink and green, hard, tabular, microcrystalline
- 810m - 816m** DOLOMITIC SILTSTONE: grey - pink - green, tuffaceous, hard, tabular to blocky, microcrystalline, with 30% DOLOMITE: grey calcareous, hard, blocky, NFNO
- 816m - 822m** DOLOMITIC SILTSTONE: pink - green, tuffaceous, hard, tabular to blocky, microcrystalline, with minor DOLOMITE: grey calcareous, hard, blocky, NFNO

- 822m - 828m** DOLOMITIC SILTSTONE: pink - green, tuffaceous, hard, tabular to blocky, microcrystalline, with minor DOLOMITE: grey calcareous, hard, blocky, NFNO C
- 828m - 834m** DOLOMITIC SILTSTONE: pink - brown, minor green, tuffaceous, hard, tabular to blocky, microcrystalline, with trace DOLOMITE: grey calcareous, hard, blocky, NFNO C
- 834m - 840m** DOLOMITIC SILTSTONE: pink- brown - green, tuffaceous, hard, tabular to blocky, microcrystalline, with minor DOLOMITE: grey calcareous, hard, blocky, NFNO C, trace arenaceous in part
- 840m - 846m** DOLOMITIC SILTSTONE: pink - brown - green, tuffaceous, hard, tabular to blocky, microcrystalline, with 40% DOLOMITE: grey calcareous, hard, blocky, moderate Calcite veining, possible breccia clasts, NFNO C
- 846m - 852m** DOLOMITIC SILTSTONE: green - brown - pink, tuffaceous, hard, tabular to blocky, microcrystalline, with 10% DOLOMITE: grey calcareous, hard, blocky, moderate Calcite veining, few grains showing graded quartz grains and acicular green tuff shards (possible base W-Fold), NFNO C
- 852m - 861.4m TD** DOLOMITIC SILTSTONE: grey - brown - pink, tuffaceous, hard, tabular to blocky, microcrystalline, with 30% SANDSTONE: quartz and lithic fragments, angular to sub-angular, dolomitic, tabular, minor Calcite veining, no visible porosity, NFNO C

### 3.1.3. Well evaluation logs

Quad-combo (GR-DEN-RT-SGS)

### 3.1.4. Fluid Samples

**Table 5: Myrtle Basin #1 - Groundwater Sample Analysis.**

Date	Sampler	Sample Point	Conductivity [µs]	pH-value	Comments
24/09/2013	GJB	Blooe y line	2407	7.62	ground water - unload
24/09/2013	GJB	Blooe y line	2390	8.09	ground water - unload - end sample
26/09/2013	MN	Blooe y line	3720	7.77	unload at 600m

*Note: Samples are contaminated with air-mist drilling fluids.*

### **3.2. Hydrocarbon Indications**

Gas shows were recorded on mud-logs in the Barney Creek Formation and Coxco Dolomite.

### **3.3. Operation and Results including full raw pressure-time listings for all formation fluid sample tests and production tests carried out**

No testing was carried out on the wellbore