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 BOREHOLE LITHOLOGICAL LOG  
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LEASE : AVOCA  
BOREHOLE : AV 12

DATE COMMENCED: 14/05/80

DEPTH UNIT: M

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LITHOLOGY

## \*\*\* CORE DESCRIPTION \*\*\*

-	16.00	85	100% DOLERITE; SCREE, GREY-GREEN, WEATHERED TO SOIL, STIFF.
16.00	- 40.20	100	100% DOLERITE; MED.-COARSE GRAINED, GREY-GREEN, HIGHLY WEATHERED, VERY STRONG ROCK, EXTREMELY WIDE JOINT SPACING, JOINTS DIP 70 DEG. ,TIGHT, PLANAR, SMOOTH DISCONTINUITIES ,INFILLED WITH CALCITE.
40.20	- 136.50	100	100% DOLERITE; MED.-COARSE GRAINED, GREY-GREEN, UNWEATHERED, VERY STRONG ROCK, EXTREMELY WIDE JOINT SPACING, JOINTS DIP 70 DEG. ,TIGHT, PLANAR, SMOOTH DISCONTINUITIES ,INFILLED WITH CALCITE.
136.50	- 158.73	100	100% DOLERITE; GRADING TO, FINE GRAINED, GREY-GREEN, MODERATELY WEATHERED, VERY STRONG ROCK, MODERATELY WIDE JOINT SPACING ,INFILLED WITH CLAY & TALC, JOINTS DIP 80 DEG. ,OPEN PLANAR, ROUGH DISCONTINUITIES ,INFILLED WITH CALCITE.
158.73	- 158.84	100	100% MUDSTONE; BAKED, BADLY BROKEN, PINK-BROWN, MODERATELY WEATHERED, WEAK ROCK.
158.84	- 160.14	100	100% MUDSTONE; BADLY BROKEN, PINK-BROWN, MODERATELY WEATHERED, WEAK ROCK.
160.14	- 160.25	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
160.25	- 161.25	100	100% SANDSTONE; VERY FINE GRAINED, BADLY BROKEN, LIGHT GREY, SLIGHTLY WEATHERED, MODERATELY WEAK ROCK.
161.25	- 161.41	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
161.41	- 161.45	100	100% MUDSTONE; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
161.45	- 161.84	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

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161.84 - 162.35	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
162.35 - 162.39	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
162.39 - 164.60	100	100% SANDSTONE; VERY FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
164.60 - 173.50	100	100% SANDSTONE, MEDIUM GRAINED; PINK-GREY, UNWEATHERED, MODERATELY STRONG ROCK.
173.50 - 177.44	100	100% SANDSTONE, MEDIUM GRAINED; BADLY BROKEN, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
177.44 - 174.76	100	100% MUDSTONE; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
174.76 - 174.79	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
174.79 - 174.83	100	100% COAL, DULL;.
174.83 - 174.94	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
174.94 - 178.04	100	100% COAL, HEAVY DULL;.
178.04 - 178.21	100	100% COAL, DULL;.
178.21 - 178.55	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WHISPS.
178.55 - 178.69	100	100% COAL, DULL WITH FEW BRIGHT BANDS;.
178.69 - 180.17	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WHISPS.
180.17 - 181.16	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
181.16 - 181.45	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
181.45 - 192.07	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.

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192.07 - 193.06	100	100% SANDSTONE, MEDIUM GRAINED: GREEN, UNWEATHERED, STRONG ROCK.
193.06 - 201.22	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
201.22 - 201.45	100	100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
201.45 - 202.00	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
202.00 - 202.29	100	100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
202.29 - 206.21	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
206.21 - 206.96	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
206.96 - 207.95	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
207.95 - 213.26	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
213.26 - 213.46	100	80% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK, LAMINATED.
213.46 - 213.61	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
213.61 - 214.74	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
214.74 - 220.06	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
220.06 - 220.56	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WHISPS.
220.56 - 220.58	100	100% COAL, INTERBANDED DULL AND BRIGHT.
220.58 - 220.67	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.

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*** CORE DESCRIPTION ***			
220.67	- 220.75	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
220.75	- 220.86	100	100% CARBONACEOUS MUDSTONE: BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
220.86	- 221.89	100	100% SANDSTONE: VERY FINE GRAINED, BADLY BROKEN, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
221.89	- 223.19	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
223.19	- 223.30	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
223.30	- 227.90	100	100% SANDSTONE: VERY FINE GRAINED, BADLY BROKEN, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
227.90	- 228.53	100	100% SANDSTONE, MEDIUM GRAINED: BADLY BROKEN, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
228.53	- 229.98	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.
229.98	- 230.02	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
230.02	- 230.23	100	100% MUDSTONE: CARBONACEOUS BANDS, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
230.23	- 230. <sup>2</sup> 7	100	100% COAL, BRIGHT.
230. <sup>2</sup> 7	- 230.31	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.
230.31	- 230.35	100	100% COAL, DULL WITH FEW BRIGHT BANDS.
230.35	- 230.45	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
230.45	- 230.62	100	100% COAL, DULL: MUDSTONE LENSES.
230.62	- 230.67	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
230.67	- 230.75	100	100% COAL, DULL WITH FEW BRIGHT BANDS.
230.75	- 232.00	100	100% SANDSTONE: VERY FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

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232.00 - 237.03	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
237.03 - 237.60	100	100% COAL, DULL WITH FEW BRIGHT BANDS.
237.60 - 237.62	100	100% SANDSTONE, MEDIUM GRAINED: BLACK, UNWEATHERED, STRONG ROCK.
237.62 - 237.64	100	100% COAL, DULL.
237.64 - 237.65	100	100% SANDSTONE, MEDIUM GRAINED: BLACK, UNWEATHERED, STRONG ROCK.
237.65 - 237.72	100	100% COAL, DULL.
237.72 - 237.76	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
237.76 - 238.62	100	100% SANDSTONE, FINE GRAINED: GREY, UNWEATHERED, MODERATELY STRONG ROCK.
238.62 - 240.23	100	100% SANDSTONE: VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
240.23 - 240.82	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
240.82 - 241.50	100	100% SANDSTONE, FINE GRAINED: GRADING TO, MEDIUM GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
241.50 - 247.50	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
247.50 - 247.73	100	100% CLAY: BROWN, UNWEATHERED, WEAK ROCK.
247.73 - 248.32	100	100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, UNWEATHERED, STRONG ROCK.
248.32 - 248.39	100	100% CARBONACEOUS MUDSTONE: BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
248.39 - 248.50	100	100% SANDSTONE, FINE GRAINED: BADLY BROKEN, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
248.50 - 249.85	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.



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265.33 - 265.50	100	100% COAL, DULL.
265.50 - 268.31	100	100% SANDSTONE, FINE GRAINED: LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WHISPS, LAMINATED.
268.31 - 268.58	100	100% CARBONACEOUS MUDSTONE: BADLY BROKEN, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
268.58 - 268.76	100	MUDSTONE: BROWN, UNWEATHERED, VERY WEAK ROCK.
268.76 - 269.06	100	100% COAL, DULL WITH FEW BRIGHT BANDS: BADLY BROKEN.
269.06 - 270.55	100	100% SANDSTONE: VERY FINE GRAINED, BADLY BROKEN, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
270.55 - 270.80	100	100% COAL, DULL: COARSE GRAINED BANDS, BLACK.
270.80 - 271.21	100	100% MUDSTONE: GREY-BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
271.21 - 271.53	100	100% MUDSTONE: GREY-BROWN, WITH ABUNDANT CALCITE, UNWEATHERED, MODERATELY WEAK ROCK.
271.53 - 271.73	100	100% MUDSTONE: GREY-BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
271.73 - 272.91	100	100% SANDSTONE, FINE GRAINED: DARK GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
272.91 - 274.08	100	100% SANDSTONE, MEDIUM GRAINED: FINE GRAINED SANDSTONE LENSES, GREY, UNWEATHERED, STRONG ROCK.
274.08 - 275.00	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
275.00 - 275.03	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
275.03 - 277.12	100	100% SANDSTONE, FINE GRAINED: GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
277.12 - 277.27	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
277.27 - 277.47	100	100% SANDSTONE: MED. TO FINE GRAINED, GREY, UNWEATHERED, STRONG ROCK, LAMINATED AND DISTURBED BEDDING.

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277.74	- 277.80	100	100% SANDSTONE, FINE GRAINED; CARBONACEOUS, BLACK, UNWEATHERED, STRONG ROCK.
277.80	- 278.04	15	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
278.04	- 283.94	100	100% SANDSTONE, FINE GRAINED; MEDIUM GRAINED BANDS, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED AND DISTURBED BEDDING.
*	-	*	*SEE PILOT HOLE.
283.94	- 284.11	100	100% CARBONACEOUS MUDSTONE; COALY LENSES, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
284.11	- 285.90	100	100% SANDSTONE, FINE GRAINED; MEDIUM GRAINED BANDS, GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED AND DISTURBED BEDDING.
285.90	- 286.26	100	100% SANDSTONE; VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
286.26	- 286.91	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
286.91	- 287.00	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
287.00	- 287.56	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
287.56	- 288.98	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY WEAK ROCK, LAMINATED.
288.98	- 289.52	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
289.52	- 290.03	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
290.03	- 290.40	100	100% MUDSTONE; DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
290.40	- 291.72	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.

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291.72 - 292.86	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
292.86 - 292.96	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
292.96 - 292.99	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS, BLACK, UNWEATHERED, STRONG ROCK.
292.99 - 293.24	100	100% MUDSTONE; DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH BURROWING.
293.24 - 293.76	100	100% SANDSTONE; MED. TO FINE GRAINED, GREY, UNWEATHERED, STRONG ROCK, WITH BURROWING, LAMINATED.
293.76 - 294.17	100	100% MUDSTONE; DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
294.17 - 294.73	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
294.73 - 296.68	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, 50% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING, LAMINATED.
296.68 - 296.97	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
296.97 - 297.43	100	100% SANDSTONE; VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
297.43 - 298.11	100	100% MUDSTONE; DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, LAMINATED.
298.11 - 298.47	100	100% CARBONACEOUS MUDSTONE; COALY LENSES, BLUE - GREY, UNWEATHERED, MODERATELY WEAK ROCK.
298.47 - 298.84	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS BANDS, BROWN - BLACK, UNWEATHERED, STRONG ROCK, WITH BURROWING.
298.84 - 299.41	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
299.41 - 299.97	100	100% SANDSTONE, FINE GRAINED; GRADING TO, MUDSTONE, DARK GREY, UNWEATHERED, MODERATELY STRONG ROCK.

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299.97 - 300.02	100	100% MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK, WITH MUD PELLETS.
300.02 - 300.20	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
300.20 - 300.77	100	100% MUDSTONE: COALY, FRAGMENTS, BROWN, UNWEATHERED, MODERATELY WEAK ROCK, WITH MUD PELLETS.
300.77 - 300.88	100	100% COAL, INTERBANDED DULL AND BRIGHT, UNWEATHERED.
300.88 - 300.92	100	100% CARBONACEOUS MUDSTONE: COALY LENSES, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
300.92 - 301.82	100	100% MUDSTONE: BROWN, UNWEATHERED, MODERATELY WEAK ROCK.
301.82 - 303.04	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
303.04 - 303.27	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
303.27 - 304.50	100	100% SANDSTONE, FINE GRAINED; MEDIUM GRAINED BANDS, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
304.50 - 304.54	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
304.54 - 306.80	100	50% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, 50% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, MODERATELY THIN BEDDING, LAMINATED.
306.80 - 309.66	100	70% SANDSTONE: VERY FINE GRAINED, DARK GREY, 30% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, VERY THIN BEDDING, LAMINATED.
309.66 - 309.81	100	100% SANDSTONE, FINE GRAINED; CARBONACEOUS, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
309.81 - 310.60	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK.

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310.60 - 311.47	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
311.47 - 313.50	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY WEAK ROCK, LAMINATED AND CARBONACEOUS WHISPS.
313.50 - 315.23	100	50% SANDSTONE, FINE GRAINED; GREY, 50% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, VERY THIN BEDDING, LAMINATED AND CARBONACEOUS WHISPS.
315.23 - 315.91	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
315.91 - 316.74	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH DISTURBED BEDDING.
316.74 - 319.57	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
319.57 - 321.71	100	100% SANDSTONE, FINE GRAINED; MEDIUM GRAINED LENSES, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
321.71 - 324.62	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS, BLACK, UNWEATHERED, STRONG ROCK, THIN BEDDING, WITH DISTURBED BEDDING.
324.62 - 325.23	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
325.23 - 325.41	100	100% MUDSTONE; COALY BANDS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
325.41 - 325.70	100	100% SANDSTONE, MEDIUM GRAINED; CREAM, UNWEATHERED, STRONG ROCK.
325.70 - 325.85	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
325.85 - 326.10	100	100% SANDSTONE, MEDIUM GRAINED; CREAM, UNWEATHERED, STRONG ROCK.

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## \*\*\* CORE DESCRIPTION \*\*\*

326.10 - 326.22	100	100% SANDSTONE, MEDIUM GRAINED; GRADING TO, CARBONACEOUS, CREAM, UNWEATHERED, MODERATELY STRONG ROCK.
326.22 - 326.50	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
326.50 - 326.68	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
326.68 - 326.80	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED.
326.80 - 327.27	100	100% MUDSTONE; CARBONACEOUS BANDS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
327.27 - 327.47	100	100% COAL, HEAVY DULL; UNWEATHERED.
327.47 - 327.49	100	100% SANDSTONE, FINE GRAINED; CREAM, UNWEATHERED, MODERATELY STRONG ROCK.
327.49 - 327.68	100	100% COAL, DULL; UNWEATHERED.
327.68 - 327.73	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS LENSES, CREAM, UNWEATHERED, STRONG ROCK.
327.73 - 327.79	100	100% CARBONACEOUS MUDSTONE; ARENACEOUS LENSES, BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
327.79 - 327.87	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
327.87 - 327.95	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
327.95 - 328.45	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS BANDS, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH CARBONACEOUS WHISPS.
328.45 - 330.22	100	100% SANDSTONE, MEDIUM GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK.
330.32 - 333.10	100	70% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, 30% SANDSTONE, MEDIUM GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN REDDING, LAMINATED AND CARBONACEOUS WHISPS.

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333.10 - 333.69	100	100% SANDSTONE, MEDIUM GRAINED; COALY, FRIABLE, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
333.69 - 335.27	100	100% MUDSTONE; ARENACEOUS BANDS, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
335.54 - 335.54	100	100% SANDSTONE, MEDIUM GRAINED; MUDSTONE LENSES, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
335.54 - 335.92	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
335.92 - 337.33	100	100% SANDSTONE, MEDIUM GRAINED; FINE GRAINED SANDSTONE LAMINAE, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
337.33 - 337.52	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
337.52 - 339.62	100	70% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, 30% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK, MODERATELY THIN BEDDING.
339.62 - 340.46	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
340.46 - 340.57	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
340.57 - 343.20	100	100% SANDSTONE, MEDIUM GRAINED; FINE GRAINED SANDSTONE BANDS, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS.
343.20 - 344.88	100	100% SANDSTONE, FINE GRAINED; MEDIUM GRAINED BANDS, GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING.
344.88 - 352.21	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, VERY THICK BEDDING.
352.21 - 353.34	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, WITH CARBONACEOUS WHISPS.

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353.34 - 354.12	100	100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
354.12 - 354.20	100	100% SANDSTONE, MEDIUM GRAINED: CARBONACEOUS, BLACK, UNWEATHERED, STRONG ROCK.
354.20 - 355.06	100	100% SANDSTONE, FINE GRAINED: MEDIUM GRAINED LENSES, GREY-BROWN, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED AND BURROWING.
355.06 - 355.23	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.
355.23 - 355.31	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK, WITH POOR SORTING.
355.31 - 355.67	40	50% CARBONACEOUS MUDSTONE: BADLY BROKEN, BLACK, 50% SANDSTONE, MEDIUM GRAINED: CARBONACEOUS, BLACK, UNWEATHERED, WEAK ROCK, TIGHT PLANAR, ROUGH DISCONTINUITIES WITH SLICKENSIDES.
355.67 - 356.00	100	100% SANDSTONE: MED. TO FINE GRAINED, CARBONACEOUS, BLACK, UNWEATHERED, MODERATELY STRONG ROCK.
356.00 - 357.12	100	100% SANDSTONE, MEDIUM GRAINED: WHITE, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS AND BURROWING.
357.12 - 357.19	100	100% SANDSTONE, MEDIUM GRAINED: CARBONACEOUS, GREY, UNWEATHERED, STRONG ROCK.
357.19 - 357.26	100	100% SANDSTONE, MEDIUM GRAINED: CARBONACEOUS STREAKS, WHITE, UNWEATHERED, STRONG ROCK.
357.26 - 357.29	100	100% SANDSTONE, MEDIUM GRAINED: CARBONACEOUS, GREY, UNWEATHERED, STRONG ROCK.
357.29 - 358.56	100	100% SANDSTONE, MEDIUM GRAINED: WHITE, UNWEATHERED, STRONG ROCK, WITH CARBONACEOUS WHISPS AND BURROWING.
358.56 - 359.35	100	100% SANDSTONE, FINE GRAINED: GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING.
359.35 - 359.43	100	100% SANDSTONE, MEDIUM GRAINED: CREAM, UNWEATHERED, STRONG ROCK, WITH GRADED BEDDING AND CARBONACEOUS WHISPS.

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359.43 - 359.52	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS BANDS, GREY, UNWEATHERED, STRONG ROCK.
359.52 - 360.71	100	80% SANDSTONE; MED. TO FINE GRAINED, GREY, 20% MUDSTONE; PEBBLY, GREY, UNWEATHERED, MODERATELY STRONG ROCK, MODERATELY THIN BEDDING.
360.71 - 360.84	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
360.84 - 362.33	100	100% SANDSTONE, MEDIUM GRAINED; GREY-BROWN, UNWEATHERED, MODERATELY STRONG ROCK.
362.33 - 364.15	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
364.15 - 364.37	100	100% MUDSTONE; CARBONACEOUS, DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
364.37 - 364.81	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
364.81 - 365.22	100	100% SANDSTONE, FINE GRAINED; GRADING TO, MEDIUM GRAINED, GREY-GREEN, UNWEATHERED, STRONG ROCK.
365.22 - 365.34	100	100% SANDSTONE, FINE GRAINED; GREY-GREEN, UNWEATHERED, STRONG ROCK, WITH MUD PELLETS.
365.34 - 365.62	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, STRONG ROCK.
365.62 - 365.78	100	100% SANDSTONE, MEDIUM GRAINED; CARBONACEOUS, DARK GREY, UNWEATHERED, STRONG ROCK, WITH MUD PELLETS.
365.78 - 366.59	100	100% MUDSTONE; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
366.59 - 366.75	100	100% MUDSTONE; LIGHT GREY, WITH CALCITE ON FRACTURES, UNWEATHERED, MODERATELY WEAK ROCK.
366.75 - 367.01	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
367.01 - 367.13	100	100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.

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367.13 - 367.20	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
367.20 - 367.62	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
367.62 - 367.67	100	100% MUDSTONE; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
367.67 - 368.33	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
368.33 - 368.42	100	100% SANDSTONE; VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY WEAK ROCK.
368.42 - 368.52	100	100% CARBONACEOUS MUDSTONE; BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
368.52 - 368.79	100	100% MUDSTONE; DARK GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
368.79 - 369.57	100	100% MUDSTONE; GREY-GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
368.57 - 369.69	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
369.69 - 370.31	100	100% SANDSTONE; MED.-COARSE GRAINED, GREEN-BROWN, UNWEATHERED, STRONG ROCK.
370.31 - 370.73	100	100% MUDSTONE; LIGHT GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
370.73 - 370.90	100	100% MUDSTONE; LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
370.90 - 371.05	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.
371.50 - 371.50	100	100% SANDSTONE; VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY STRONG ROCK.
371.85 - 371.85	100	100% SANDSTONE; VERY FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
372.96 - 372.96	100	100% MUDSTONE; GREY, UNWEATHERED, MODERATELY WEAK ROCK.

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372.96 - 373.26	100	100% MUDSTONE: GREY-GREEN, WITH GRANULAR PYRITE, UNWEATHERED, MODERATELY WEAK ROCK.
373.26 - 373.44	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
373.44 - 373.75	100	100% CARBONACEOUS MUDSTONE: BLACK, UNWEATHERED, MODERATELY WEAK ROCK.
373.75 - 376.06	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.
376.06 - 376.30	100	50% SANDSTONE: VERY FINE GRAINED, GREY, 50% MUDSTONE: GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING, BEDS DIP 0 DEG..
376.30 - 376.64	100	100% MUDSTONE: LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
376.64 - 377.78	100	100% MUDSTONE: GREY-GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
377.78 - 378.37	100	100% SANDSTONE, FINE GRAINED: LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
378.37 - 378.50	100	100% SANDSTONE, MEDIUM GRAINED: CREAM, UNWEATHERED, STRONG ROCK.
378.50 - 378.64	100	100% SANDSTONE, FINE GRAINED: LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
378.64 - 378.89	100	85% MUDSTONE: GREY, 15% SANDSTONE, MEDIUM GRAINED: MUDSTONE, PEBBLY, LIGHT GREY, UNWEATHERED, MODERATELY WEAK ROCK.
378.89 - 379.40	100	100% SANDSTONE: VERY FINE GRAINED, GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING, BEDS DIP 0 DEG., LAMINATED AND DISTURBED BEDDING.
379.40 - 380.74	100	95% SANDSTONE, FINE GRAINED: DARK GREY, 5% SANDSTONE, FINE GRAINED: LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, LAMINATED AND DISTURBED BEDDING.

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380.74	- 380.84	100	100% SANDSTONE, MEDIUM GRAINED; MUDSTONE BANDS, LIGHT GREY, UNWEATHERED, STRONG ROCK.
380.84	- 381.15	100	100% SANDSTONE: MED.-COARSE GRAINED, LIGHT GREY, UNWEATHERED, STRONG ROCK.
381.15	- 386.01	100	100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
386.01	- 386.08	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK, WITH PLANT REMAINS.
386.08	- 386.17	100	100% MUDSTONE: BRECCIATED, GREY, UNWEATHERED, WEAK ROCK.
386.17	- 386.21	100	100% SANDSTONE: VERY COARSE GRAINED, WHITE, WITH CRYSTALLINE QUARTZ, UNWEATHERED, MODERATELY WEAK ROCK.
386.21	- 389.68	100	100% SANDSTONE, MEDIUM GRAINED; BADLY BROKEN, WHITE, UNWEATHERED, MODERATELY WEAK ROCK.
389.68	- 392.11	100	100% MUDSTONE: BRECCIATED, BADLY BROKEN, GREY, UNWEATHERED, WEAK ROCK.
392.11	- 398.90	100	100% SANDSTONE, MEDIUM GRAINED; BADLY BROKEN, CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
398.90	- 401.52	100	100% SANDSTONE, MEDIUM GRAINED; BADLY BROKEN, CREAM, UNWEATHERED, MODERATELY WEAK ROCK, VERY THIN BEDDING, BEDS DIP 40 DEG..
401.52	- 402.80	100	100% MUDSTONE: BRECCIATED, BADLY BROKEN, RED-GREY, UNWEATHERED, WEAK ROCK.
402.80	- 403.90	100	100% SANDSTONE: MED. TO FINE GRAINED, BADLY BROKEN, CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
403.90	- 405.08	100	100% SANDSTONE: MED. TO FINE GRAINED, BADLY BROKEN, CREAM, UNWEATHERED, MODERATELY WEAK ROCK.
405.08	- 407.98	100	100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING, BEDS DIP 0 DEG..

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407.98 - 411.63	100	100% SANDSTONE, MEDIUM GRAINED; MUDSTONE STREAKS, LIGHT GREY, UNWEATHERED, STRONG ROCK.
411.63 - 412.62	100	100% MUDSTONE; GREY-GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
412.62 - 413.24	100	100% SANDSTONE, FINE GRAINED; GREY-GREEN, UNWEATHERED, MODERATELY STRONG ROCK.
413.24 - 416.30	100	90% SANDSTONE, MEDIUM GRAINED; CREAM, 10% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, STRONG ROCK, MODERATELY THIN BEDDING.
416.30 - 416.69	100	100% SANDSTONE, FINE GRAINED; GREY, UNWEATHERED, MODERATELY STRONG ROCK.
416.69 - 420.70	100	100% SANDSTONE; MED.-COARSE GRAINED, CREAM, UNWEATHERED, STRONG ROCK.
420.70 - 421.67	100	100% SANDSTONE, FINE GRAINED; LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK, THIN BEDDING.
421.67 - 425.50	100	100% SANDSTONE, COARSE GRAINED; LIGHT GREY, UNWEATHERED, STRONG ROCK.
425.50 - 434.43	100	100% SANDSTONE; MED. TO FINE GRAINED, QUARTZOSE, LIGHT GREY, WITH ABUNDANT MICA, UNWEATHERED, STRONG ROCK.
434.43 - 434.45	100	100% MUDSTONE; GREY-GREEN, UNWEATHERED, MODERATELY WEAK ROCK.
434.45 - 439.04	100	100% SANDSTONE, MEDIUM GRAINED; QUARTZOSE, LIGHT GREEN, UNWEATHERED, STRONG ROCK.
439.04 - 439.36	100	50% SANDSTONE, MEDIUM GRAINED; QUARTZOSE, LIGHT GREEN. 50% MUDSTONE; GREY-GREEN, UNWEATHERED, STRONG ROCK, MODERATELY THIN BEDDING, DEFORMED BASAL CONTACT, WITH DISTURBED BEDDING.
439.36 - 440.53	100	100% SANDSTONE, MEDIUM GRAINED; QUARTZOSE, LIGHT GREEN, UNWEATHERED, STRONG ROCK, MODERATELY THIN BEDDING, DEFORMED BASAL CONTACT.

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440.53 - 440.81	100	100% SANDSTONE, FINE GRAINED: GREY-GREEN, UNWEATHERED, MODERATELY STRONG ROCK.
440.81 - 449.90	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, LIGHT GREEN, UNWEATHERED, STRONG ROCK.
449.90 - 450.07	100	100% MUDSTONE: SANDSTONE BANDS, GREY-GREEN, WITH ABUNDANT MICA, UNWEATHERED, MODERATELY STRONG ROCK.
450.07 - 450.20	100	100% SANDSTONE, MEDIUM GRAINED: MUDSTONE BANDS, LIGHT GREEN, UNWEATHERED, STRONG ROCK.
450.20 - 450.29	100	100% MUDSTONE: GREY-GREEN, UNWEATHERED, MODERATELY STRONG ROCK.
450.29 - 450.86	100	50% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, LIGHT GREEN. 50% MUDSTONE: PEBBLY, GREY-GREEN, UNWEATHERED, STRONG ROCK.
450.86 - 454.21	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, WITH ABUNDANT MICA, UNWEATHERED, STRONG ROCK.
454.21 - 454.54	100	100% SANDSTONE, FINE GRAINED: LIGHT GREEN, UNWEATHERED, STRONG ROCK.
454.54 - 467.16	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, WITH ABUNDANT MICA, UNWEATHERED, STRONG ROCK.
467.16 - 467.32	100	100% SANDSTONE: MED.-COARSE GRAINED, QUARTZOSE, BROWN, UNWEATHERED, VERY STRONG ROCK.
467.32 - 467.73	100	60% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, 40% MUDSTONE: PEBBLY, GREY, UNWEATHERED, STRONG ROCK.
467.73 - 467.87	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, UNWEATHERED, STRONG ROCK.
467.87 - 467.91	100	100% MUDSTONE: GREY, UNWEATHERED, MODERATELY WEAK ROCK.
467.91 - 476.48	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, WITH ABUNDANT MICA, UNWEATHERED, STRONG ROCK.
476.48 - 476.52	100	100% MUDSTONE: BROWN, UNWEATHERED, MODERATELY WEAK ROCK.

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476.52 - 476.94	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, UNWEATHERED, STRONG ROCK.
476.94 - 478.81	100	100% SANDSTONE, COARSE GRAINED: QUARTZOSE, CREAM, WITH PYRITE ON FRACTURES AND ABUNDANT MICA, UNWEATHERED, VERY STRONG ROCK.
478.81 - 480.53	100	100% SANDSTONE: MED. TO FINE GRAINED, CREAM, UNWEATHERED, STRONG ROCK.
480.53 - 481.89	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, UNWEATHERED, STRONG ROCK.
481.89 - 482.14	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY STRONG ROCK.
482.14 - 482.46	100	100% SANDSTONE, MEDIUM GRAINED: QUARTZOSE, CREAM, UNWEATHERED, STRONG ROCK.
482.46 - 482.73	100	100% SANDSTONE, COARSE GRAINED: QUARTZOSE, CREAM, WITH ABUNDANT MICA, UNWEATHERED, VERY STRONG ROCK.
482.73 - 483.00	100	100% PEBBLE CONGLOMERATE: MUDSTONE, PEBBLY, CREAM, WITH GRANULAR FELDSPAR, UNWEATHERED, STRONG ROCK.
483.00 - 483.34	100	100% MUDSTONE: DARK GREY, UNWEATHERED, MODERATELY WEAK ROCK.
483.34 - 490.33	100	100% SANDSTONE, FINE GRAINED: FOSSILIFEROUS, GREY, WITH GRANULAR QUARTZ AND DOLOMITE ON JOINTS, UNWEATHERED, STRONG ROCK.