

051

BOREHOLE LITHOLOGICAL LOG

LEASE BOREHOLE I AVCCA 13 AV

DATE COMMENCED: 01/07/80

DEPTH UNIT: M

TOP BASE %REC

LITHOLOGY

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

-	1.50	0	① CORE LOSS.
*	*		*SEE PILOT HOLE.
1.50	22.50	100	100% DIORITE; MED.-COARSE GRAINED, GREY-GREEN, SLIGHTLY WEATHERED, VERY STRONG ROCK, EXTREMELY WIDE JOINT SPACING, INFILLED WITH CALCITE, OPEN, NON-PLANAR DISCONTINUITIES, INFILLED WITH CLAY & TALC.
22.50	277.50		② 100% DIORITE; MED.-COARSE GRAINED, GREY-GREEN, UNWEATHERED, VERY STRONG ROCK, EXTREMELY WIDE JOINT SPACING. JOINTS DIP 80 DEG., TIGHT NON-PLANAR DISCONTINUITIES, INFILLED WITH CALCITE.
277.50	289.50		③ 100% DIORITE; GRADING TO, MEDIUM GRAINED, GREY-GREEN, VERY STRONG ROCK.
289.50	298.50		100% DIORITE; GRADING TO, FINE GRAINED, GREY-GREEN, VERY STRONG ROCK.
298.50	306.89		100% DIORITE; FINE GRAINED, GREY-GREEN, VERY STRONG ROCK.
306.89	307.46		100% DIORITE; VERY FINE GRAINED, GREY-GREEN, VERY STRONG ROCK.
307.46	307.50		④ 100% MUDSTONE; BAKED, GREY, VERY STRONG ROCK.
307.50	307.60		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, STRONG ROCK.
307.60	307.81		100% MUDSTONE; LIGHT GREY, MODERATELY WEAK ROCK.
307.81	308.60		100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, STRONG ROCK.
308.60	308.65		100% MUDSTONE; LIGHT GREY, MODERATELY WEAK ROCK.
308.65	311.49		100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, STRONG ROCK.
311.49	311.98		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, STRONG ROCK.
311.98	316.21		100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, STRONG ROCK.

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THE SHELL COMPANY OF AUSTRALIA LTD.

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LEASE 1 AVOCA  
BOREHOLE 13 AV

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TOP	BASE	%REC	LITHOLOGY
*** CORE DESCRIPTION ***			
316.21	317.01		50% SANDSTONE: MED. TO FINE GRAINED, PEBBLY, LIGHT GREY, 50% MUDSTONE: PINK, STRONG ROCK.
317.01	318.14		100% MUDSTONE: PINK, MODERATELY STRONG ROCK, MODERATELY THIN BEDDING.
318.14	320.12		100% SANDSTONE: MED. TO FINE GRAINED, PINK, MODERATELY STRONG ROCK.
320.12	320.42		100% MUDSTONE: PINK-GREY, MODERATELY WEAK ROCK.
320.42	320.88		100% SANDSTONE: MED. TO FINE GRAINED, PINK, MODERATELY STRONG ROCK.
320.88	322.50		100% MUDSTONE: GREEN-BROWN, MODERATELY WEAK ROCK.
322.50	322.65		100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, STRONG ROCK.
322.65	322.80	0	CORE LOSS.
322.80	323.54	100	100% MUDSTONE: BROWN, COMPLETELY WEATHERED, VERY WEAK ROCK.
323.54	324.15		100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, UNWEATHERED, MODERATELY STRONG ROCK.
324.15	324.50	0	CORE LOSS.
324.50	324.93	100	100% MUDSTONE: BADLY BROKEN, LIGHT GREY, MODERATELY WEAK ROCK.
324.93	326.10	0	CORE LOSS.
326.10	326.15	100	100% MUDSTONE: BADLY BROKEN, GREY-GREEN, WEAK ROCK.
326.15	326.50		MUDSTONE: PINK-BROWN, MODERATELY WEAK ROCK.
326.50	326.61		100% MUDSTONE: GREEN-BROWN, MODERATELY WEAK ROCK.
326.61	326.85		100% MUDSTONE: PINK-BROWN, MODERATELY WEAK ROCK.
326.85	327.04		100% MUDSTONE: GREEN-BROWN, WITH VIVIANITE, MODERATELY STRONG ROCK.
327.04	327.40		100% MUDSTONE: PINK-BROWN, WITH VIVIANITE, MODERATELY STRONG ROCK.
327.40	327.50		90% MUDSTONE: BADLY BROKEN, LIGHT GREY, 10% MUDSTONE: WAXY, FRAGMENTS, WHITE, WITH VIVIANITE, MODERATELY WEAK ROCK.

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TOP BASE %REC

LITHOLOGY

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

TOP	BASE	%REC	LITHOLOGY
327.50	327.60		100% CLAY: GREY, STIFF.
327.60	328.35	60	100% MUDSTONE: BADLY BROKEN, LIGHT GREY, MODERATELY WEAK ROCK.
328.35	329.50	0	CORE LOSS.
329.50	329.91	100	100% MUDSTONE: LIGHT GREY, MODERATELY WEAK ROCK.
329.91	330.23		100% SANDSTONE, FINE GRAINED: LIGHT GREY, MODERATELY STRONG ROCK.
330.23	330.32		100% CLAY: LIGHT GREY, STIFF.
330.32	330.61	0	CORE LOSS.
330.61	330.70	100	100% MUDSTONE: BADLY BROKEN, LIGHT GREY, MODERATELY STRONG ROCK.
330.70	332.18		100% MUDSTONE: CHLORITIC, GREY-GREEN, MODERATELY STRONG ROCK.
332.18	334.00		100% SANDSTONE, FINE GRAINED: LIGHT GREY, STRONG ROCK.
334.00	334.43		100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, STRONG ROCK.
334.43	337.97		100% SANDSTONE, FINE GRAINED: LAMINAE, LIGHT GREY, STRONG ROCK.
337.97	339.09		100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, MODERATELY STRONG ROCK.
339.09	339.49		60% MUDSTONE: PEBBLY, POORLY SORTED, GREY, 40% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, MODERATELY STRONG ROCK.
339.49	340.17		100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, STRONG ROCK.
340.17	340.61		50% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, 50% SANDSTONE, FINE GRAINED: MODERATELY STRONG ROCK.
340.61	344.56		100% SANDSTONE, MEDIUM GRAINED: LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WHISPS.
344.56	345.19		100% MUDSTONE: GREY, MODERATELY STRONG ROCK.
345.19	346.17		100% SANDSTONE, FINE GRAINED: GREY, STRONG ROCK.

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346.17	346.99		100% MUDSTONE: GREY, MODERATELY STRONG ROCK.
346.99	347.08		100% CARBONACEOUS MUDSTONE: BLACK, MODERATELY STRONG ROCK.
347.08	348.96		100% SANDSTONE, FINE GRAINED: GREY, WITH TRACES OF PYRITE, MODERATELY STRONG ROCK.
348.96	349.73		50% SANDSTONE, FINE GRAINED: GREY, 50% SANDSTONE, FINE GRAINED: CARBONACEOUS, BLACK, WITH TRACES OF PYRITE, MODERATELY STRONG ROCK.
349.73	349.86		100% SANDSTONE, FINE GRAINED: GREY, STRONG ROCK.
349.86	350.07		100% MUDSTONE: CARBONACEOUS TRACES, GREY, MODERATELY WEAK ROCK.
350.07	350.49		50% SANDSTONE, FINE GRAINED: LIGHT GREY, 50% MUDSTONE: DARK GREY, MODERATELY STRONG ROCK, THIN BEDDING, WITH DISTURBED BEDDING.
350.49	350.98		100% MUDSTONE: FINE GRAINED SANDSTONE LENSES, DARK GREY, MODERATELY WEAK ROCK.
350.98	351.27		100% MUDSTONE: DARK GREY, VERY WEAK ROCK.
351.27	351.28		100% CARBONACEOUS MUDSTONE: ARENACEOUS LENSES, BLACK, MODERATELY WEAK ROCK.
351.28	351.35		100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, MODERATELY STRONG ROCK, WITH CARBONACEOUS WHISPS.
351.35	351.44		100% SANDSTONE, FINE GRAINED: GREY.
351.44	351.97		55% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, 45% MUDSTONE: GREY, THIN BEDDING, WITH TROUGH CROSS BEDDING.
351.97	352.07		100% SANDSTONE, FINE GRAINED: GREY.
352.07	352.19		100% SANDSTONE: MED. TO FINE GRAINED, LIGHT GREY, MODERATELY STRONG ROCK, WITH CARBONACEOUS WHISPS.
352.19	352.36		100% MUDSTONE: FINE GRAINED SANDSTONE LAMINAE, GREY.
352.36	352.48		100% SANDSTONE: VERY FINE GRAINED, CARBONACEOUS, BLACK.
352.48	353.49		100% MUDSTONE: GREY, MODERATELY WEAK ROCK.

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353.49 - 355.67	100	65% MUDSTONE; FINE GRAINED SANDSTONE LAMINAE, GREY, 35% SANDSTONE, FINE GRAINED; LIGHT GREY, STRONG ROCK, MODERATELY THICK BEDDING, WITH TROUGH CROSS BEDDING.
355.67 - 356.44		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, STRONG ROCK, WITH CARBONACEOUS WHISPS.
356.44 - 356.49		100% SANDSTONE, FINE GRAINED; GREY, STRONG ROCK.
356.49 - 356.59		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, STRONG ROCK.
356.59 - 356.69		100% MUDSTONE; FINE GRAINED SANDSTONE LAMINAE, GREY, STRONG ROCK.
356.69 - 356.76		100% SANDSTONE; MED. TO FINE GRAINED, LIGHT GREY, STRONG ROCK, WITH TROUGH CROSS BEDDING.
356.76 - 356.97		100% SANDSTONE; VERY FINE GRAINED, GREY, STRONG ROCK.
356.97 - 357.19		100% SANDSTONE, FINE GRAINED; LIGHT GREY, STRONG ROCK, WITH TROUGH CROSS BEDDING.
357.19 - 358.59		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, VERY STRONG ROCK.
358.59 - 359.42		100% SANDSTONE, FINE GRAINED; QUARTZOSE, BADLY BROKEN, LIGHT GREY, VERY STRONG ROCK.
359.42 - 359.70		100% SANDSTONE, MEDIUM GRAINED; LIGHT GREY, VERY STRONG ROCK.

REMARKS

- ① SOIL COVER
- ② JOINT DIP IRREGULAR, NORMALLY >70 DEGREES
- ③ REDUCE TO NQ AT 201.00METRE. JOINTS AS ABOVE
- ④ SUB-OPHTIC TEXTURE