LARRIMAH

~~Phillips Range~~ RC Drilling

Hole No: LRC 001

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Easting: 0344532	Northing: 8282328	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 12/10/04	Finish date: 12/10/04	Total depth: 34 m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LR DIM 1"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	7		Red-brown silty clays — trace pisolites in top 3 m. Mottled in parts to pale buff colour.	
7	9		Pale buff colour (to v. pale yellow) silty clays	Weathered Cretaceous porcellanite?
9	11		Very pale greenish-white silty clays — some red mottling.	
11	25		Soft silty clays (mudstone) — pale buff to brown, with smeared iron staining 18–21 m	
~~25~~				
25	28		Pale grey to pale brown/yellow brown fine grained friable sandstone; occasionally coarse.	
28	34		Sandstone as above — largely loose sand, increasingly coarse with depth. Hole abandoned at 34 m due to running sands.	
	E.O.H.			

Summary: 0 – 34 m Cretaceous cover sequence (sand/SST?)

SAMPLE No.	SAMPLE INTERVAL
166001	0 – 4 m
166002	4 – 8 m
166003	8 – 12 m
166004	12 – 16 m
166005	16 – 20 m
166006	20 – 24 m
166007	24 – 28 m
166008	28 – 32 m
166009	32 – 34 m

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~~Phillips Range~~ RC Drilling

Hole No: LAC 001

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Easting:	0344515	Northing:	8282473	Datum:	WGS 84	Zone:	53L
Start date:	12/10/04	Finish date:	13/10/04	Total depth:	45m	Inclination:	VERT.
Driller:	DRILL TORQUE (QLD)			Drilling type:	RC		

Geologist: ERM

Azimuth: —

FALCON ANOMALY "LRDIM 14"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	16		Pale grey to grey-brown silty clays: claystone	Air-core as LRC 001 had failed to penetrate flowing sands.
16	30		Fine sands, minor coarse component: fine grained friable sandstone with occasional gritty horizons.	
30	32		Ferruginous sand aggregates + 1 broken quartz pebble (rounded)	Basal Cretaceous?
32	34		Brown clays — damp.	Regolith?
34	45		Fine grained grey-brown limestone. Hole terminated at 45m:	Cambrian carbonate sequence?
	E.O.H.		no recovery.	

Summary: 0 – 32 m Cretaceous cover sequence (sands)
32 – 34 m Regolith clays
34 – 45 m Cambrian carbonate sequence

SAMPLE No.	SAMPLE INTERVAL
166010	0 – 4 m
166011	4 – 8 m
166012	8 – 12 m
166013	12 – 16 m
166014	16 – 20 m
166015	20 – 24 m
166016	24 – 28 m
166017	28 – 32 m
166018	32 – 36 m
166019	36 – 40 m
166020	40 – 44 m
166021	44 – 45 m

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~~Phillips Range~~ RC Drilling

Hole No: LRC 002 | Page 1 of 1

Easting: 0349022	Northing: 8282949	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 13/10/04	Finish date: 13/10/04	Total depth: 40m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LRF005"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	4		Red-brown, fine to med.-grained sands — becoming clayey below.	
4	5		Coarse gritty sands	
5	8		Fine to med.-grained clayey sands	
8	10		Fine sands: loose sand, gritty in parts & some fine quartz gravels.	
10	31		Fine grained carbonate sequence: pale grey-brown to dark grey brown limestone (ranging to buff dolomite & pale yellow-brown)	
			Occasionally sandy — clay content suggestive of shaley interbeds.	
31	32		Pale purple-red to grey clay (weathered basalt surface: regolith)	
32	40		Basalt — relatively fresh below 33m.	$2,500 \times 10^{-5}$ S.I.U.
	E.O.H.			

Summary:
- 0 – 10 m Cretaceous cover sequence
- 10 – 31 m Cambrian (?) carbonate sequence
- 31 – 40 m Cambrian basalt

SAMPLE No.	SAMPLE INTERVAL
166022	0 – 4m
166023	4 – 8m
166024	8 – 12m
166025	12 – 16m
166026	16 – 20m
166027	20 – 24m
166028	24 – 28m
166029	28 – 31m
166030	31 – 34m
166031	34 – 40m

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~~Phillips Range~~ RC Drilling

Hole No: LRC 003

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Easting: 0349104	Northing: 8282970	Datum: WGS 84	Zone: 53L	Geologist: ERM.
Start date: 13/10/04	Finish date: 13/10/04	Total depth: 49 m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LRF005"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	2		Dark red-brown sandy silt	
2	4		Yellow-brown clays & fragments of silicified white sandstone.	
4	9		Fine sands – minor gritty component. Friable sandstone?	
9	16		Pale grey to yellow-brown, fine to med. grained sandstone.	
16	21		Fine grained sandstone as above – lin well cemented between 16 & 18m.	
21	23.5		Yellow-brown clay.	
23.5	36.5		Pale grey to grey-brown or yellow-brown fine grained limestone.	
36.5	40		Ferruginous sandstone & clays + 1 fragment basaltic material(?)	} Karstic infill?
40	41		Reddish brown clays	
41	43.5		Ferruginous med. grained sandstone & clays	
43.5	49		Dark grey to dark purple-grey fine grained basalt.	2,500 – 4,000 x 10^{-5} S.I.U.
	E.O.H.			

Summary: 0 – 23.5 m Cretaceous cover sequence
23.5 – 43.5 m Cambrian(?) carbonate sequence
43.5 – 49 m Cambrian basalt.

Sample No	Sample Interval
166032	0 – 4 m
166033	4 – 8 m
166034	8 – 12 m
166035	12 – 16 m
166036	16 – 20 m
166037	20 – 24 m
166038	24 – 28 m
166039	28 – 32 m
166040	32 – 36 m
166041	36 – 40 m
166042	40 – 44 m
166043	44 – 49 m

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~~Phillips Range~~ RC Drilling

Hole No: LRC 004

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Easting: 0347564	Northing: 8281258	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 14/10/04	Finish date: 14/10/04	Total depth: 55m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD		Drilling type: RC		FALCON ANOMALY "LRF002-TH"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	3		Red-brown clayey sand.	
3	8		Gritty sands in yellow-brown clay – some with Fe/Mn cementation – becoming red-brown below.	
8	9		Fine-grained red-brown clayey sands.	
9	10		Fine to med. grained sandstone with occasional grits / fine gravel.	
10	11		Coarse, gritty sands.	
11	15		Fine grained sands with minor gritty component; moderate clay content increasing from 14–15m.	
15	47		Carbonate sequence: fine grained pale grey or buff to grey brown / yellow brown limestone, pl. sandy in parts.	Water at ~34m (minor)
47	55		Dark purple-grey fine grained basalt	1,800 – 2,000 x 10^{-5} S.I.U.
	E.O.H.			

Summary: 0 – 15m Cretaceous sandy cover sequence.
15 – 47m Cambrian(?) carbonate sequence.
47 – 55m Cambrian basalt.

SAMPLE No.	SAMPLE INTERVAL
166044	0–4m
166045	4–8m
166046	8–12m
166047	12–16m
166048	16–20m
166049	20–24m
166050	24–28m
166051	28–32m
166052	32–36m
166053	36–40m
166054	40–44m
166055	44–48m
166056	48–52m
166057	52–55m

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~~Phillips~~ Range RC Drilling			Hole No: LRC 005		Page 1 of 1
Easting: 0349150	Northing: 8279942	Datum: WGS 84	Zone: 53 L		Geologist: ERM
Start date: 14/10/04	Finish date: 14/10/04	Total depth: 52 m	Inclination: VERT.		Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC			FALCON ANOMALY "LRF 003"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	6		Red – brown, fine to med. grained clayey sands, becoming y-br. below.	
6	9		White, friable med. grained sandstone – silicified in top metre.	
9	16		Loose white to pale yellow fine to med. grained sands.	
16	19		Pale grey to pale brown clays – slightly sandy in top metre.	
19	41		Carbonate sequence comprising fine grained limestone, varying in colour from very pale grey to grey-brown to dark grey or grey-brown.	Water at 22 m. (very little)
41	43		Dark grey 'cakey' basalt – very fine grained & no textures visible.	
43	52		Relatively fresh basalt.	
	E.O.H.		Hole terminated at 52 m in basalt.	Mp to 2,500 × 10^{-5} SIU

Summary:
- 0 – 16 m Cretaceous cover sequence (sandy)
- 16 – 19 m Regolith clays.
- 19 – 41 m Cambrian (?) carbonate sequence
- 41 – 52 m Cambrian basalt.

Sample No	Sample Interval
166058	0 – 4 m
166059	4 – 8 m
166060	8 – 12 m
166061	12 – 16 m
166062	16 – 20 m
166063	20 – 24 m
166064	24 – 28 m
166065	28 – 32 m
166066	32 – 36 m
166067	36 – 40 m
166068	40 – 44 m
166069	44 – 48 m
166070	48 – 52 m

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~~Phillips Range~~ RC Drilling			Hole No: LRC 006		Page 1 of 1
Easting: 0349141	Northing: 8280117	Datum: WGS 84	Zone: 53L	Geologist: ERM	
Start date: 15/10/04	Finish date: 15/10/04	Total depth: 50 m	Inclination: VERT	Azimuth: —	
Driller: DRILL TORQUE (QLD)		Drilling type: RC		ANOMALY "LRF003"	

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	8		Red-brown clayey sands — becoming yellow brown below.	
8	10.5		Yellow brown to brown clays — very minor sand content.	
10.5	42.5		Fine grained grey-brown limestone — (colour variations between dark grey, pale yellow brown and light brown).	Water at ~34 m
42.5	50		Basalt — dark grey, soft and "cokey" in top 3.5 m — dark purple grey below & relatively fresh.	Up to 2,000 x 10^{-5} S.I.U.
	E.O.H.			

Summary:
0 – 10.5 m Cretaceous cover sequence (sandy)
10.5 – 42.5 m Cambrian(?) carbonate sequence
42.5 – 50 m Cambrian basalt.

Sample N°	Sample Interval
166071	0–4 m
166072	4–8 m
166073	8–12 m
166074	12–16 m
166075	16–20 m
166076	20–24 m
166077	24–28 m
166078	28–32 m
166079	32–36 m
166080	36–40 m
166081	40–43 m
166082	43–48 m
166083	48–50 m

Phillips Range RC Drilling

Hole No: LRC 007 | Page 1 of

Easting: 0349166	Northing: 8280033	Datum: WGS84	Zone: 53 L.	Geologist: IM	
Start date: 5/10/04	Finish date:	Total depth:	Inclination: VERT	Azimuth:	
Driller:		Drilling type: RC. - DRILLTORQUE QLD.		Anomaly - LRF003	

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	6		Red Brown → Orange brown sands. Mar Cret? sst chips.	MAR B/DOWN 11.00→2.00 : 4 m.
6	8		Pink to White granular friable sst, Ingrssd cretaceous look, mnr Fe rich bands and discrete larger qtz grains.	
8	13		White to Pale Br weakly fe-rich granular medium sst. Friable. Quite strongly silicified	
13	16		Fine gr CO3 rich silty sst or limestone. Some Fizz with HCl. Pale gy-gr→ br.	
16	27		Increasingly sparry limestone / carbonate. Still occasional sandy lense with CO_3: Quite Brown coloured, although rare grey colouring. Fines tend to white colour	Hard drilling 22-23, Poor S/R 21-22 - First water 22-23
27	28		A/A but with rare fe + Silica segregations	
28	38		Pale Brown Lamstone / limestone; rare amber patches 33-34 37-38 and very hard + competent	
38	42		A/A but slightly Silver grained, becoming very w'd (g 41 m mnr layering also 42-42.5	
42	46 EOH		Weathered Basalt becoming fresh by 43 m, with mnr qtz	2800 - 3200 x 10^{-5} SI.
			166084 : 0-4 m	
			166085 : 4-8	
			166086 : 8-12	
			166087 : 12-16	0 - 13 Cret sst
			166088 : 16-20	13 - 42 Carbonate
			166089 : 20-24	42 - 46 Basalt
			166090 : 24-28	
			166091 : 28-32	
			166092 : 32-36	
			166093 : 36-40	
			166094 : 40-42	
			166095 : 42-46 EOH	

Phillips Range RC Drilling

Hole No: LRC 008 | Page of

Easting: 0349299	Northing: 8279926	Datum:	Zone:	Geologist: , ,
Start date: 15/10/04	Finish date:	Total depth:	Inclination: VERT	Azimuth:
Driller:		Drilling type: RC - PRIMETORQUE QLD.		Anomaly LRF003.

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	3		Gritty qtz rich or bn sand, with qtz grains from Coat sst	
3	5		Gritty qtz rich or bn sst and clays after sst, qtz + clayey in general. 40-50% clay, some Fe stn. Some CO3 on clay	
5	9		l/br pale ye-br to buff clays + fine grained cherty limestone Rare well deformed layering. Occ bn Fe? ptx	
9	19.0		Pale Brown ⇒ Gy f.g. lst, rare cherty bands	
19.0	26		As Above, Typical Gy-Gr lst, + 50% brown clays very sticky.	
				H_2O @ 32m.
26	31		Typical pale ye-br - buff lst with clays	
31	37		AA but with increasing br clay layers and variably sandy feel (31-32, 35-37). Possible gritty sand interlays	
37	40		Mostly soft br clays, probably after lst, but very few chips	
40	42		Increasing chip return but still brown interface clay	
42	46		Cohey basalt becoming increasingly fresh 60:1	
			166096 : 0-4	
			166097 : -8	
			166098 : -12	0 - 9 Weathered
			166099 : -16	9 - 42 Carbonate.
			166100 : -20	42 - 46 Basalt.
			166101 : -24	
			166102 : -28	
			166103 : -32	
			166104 : -36	
			166105 : -40	
			166106 : 40 - 42	
			166107 : 42 - 46	

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~~Phillips Range~~ RC Drilling			Hole No: LRC 009		Page 1 of 1
Easting: 0350107	Northing: 8281269	Datum: WGS 84		Zone: 53L	Geologist: ERM
Start date: 16/10/04	Finish date: 16/10/04	Total depth: 40.00		Inclination: VERTICAL	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC			FALCON ANOMALY "LRF003B"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	~~#~~ 2		Red-brown clayey sands.	
~~#~~ 2	~~#~~ 4		Ferruginous claystone & sandstone — Cretaceous cover sequence.	
4	34.5		Buff & pale grey fine grained limestone — Cambrian carbonate sequence. ~~Sandy~~ in parts, ± calcareous cement^n. Colour ranging to dark grey brown & pale yellow-brown. Higher clay content 16-19m magnesite shaley interbeds. (Moderate clay content below)	
34.5	40.0		Basalt — dark grey & cokey to 39m, becoming dk. purple-brown below. Hole terminated at 40m.	*1200 to 2000 x 10^{-5} SIU.
	EOH.			

Summary: 0 - 4 m Cretaceous cover
4 - 34.5 m Cambrian (?) carbonate sequence
34.5 - 40 m. Cambrian (?) basalt.

SAMPLE INTERVAL		SAMPLE NUMBER
0-4 m	=	166108
-8	=	166109
-12	=	166110
-16	=	166111
-20	=	166112
-24	=	166113
-28	=	166114
-32	=	166115
32 - 35	=	166116
35 - 40	=	166117

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~~Phillips Range~~ RC Drilling

Hole No: LRC 010

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Easting: 0344600	Northing: 8274910	Datum: WGS 84	Zone: 53 L	Geologist: ERM
Start date: 16/10/04	Finish date: 16/10/04	Total depth: 28 m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LRF006"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	2		Clayey black soil.	
2	9		White to pale yellow brown carbonate.	
9	14		F.g. white sandstone as minor component in pale grey clays.	
14	16		" " clayey sandstone.	
16	17		Yellow-brown clays.	
17	24.5		Sandstone: fine grained clayey white sandstone	
24.5	26		V. pale brown to buff coloured limestone.	Start of Cambrian limestone sequence?
26	28		limestone showing signs of solution and iron-staining.	
	E.O.H.		Hole terminated at 28 m: hole collapsing & no progress possible.	

Summary: 0 – 24.5 Cretaceous cover sequence (sst. & carbonates)
24.5 – 28 Cambrian (?) limestone sequence.

SAMPLE Nº	SAMPLE INTERVAL
166118	0 – 4 m
166119	4 – 8 m
166120	8 – 12 m
166121	12 – 16 m
166122	16 – 20 m
166123	20 – 24 m
166124	24 – 28 m

Phillips Range RC Drilling

Hole No: LRC 011 | Page 1 of 1

Easting: 0344670	Northing: 8274995	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 16/10/04	Finish date: 16/10/04	Total depth: 90 m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD.)		Drilling type: RC		FALCON ANOMALY "LRF006"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	1		Clayey black soils.	
1	2		Pale white / buff coloured limestone.	
2	6		Pale grey to yellow-brown clays.	
6	8		Mixed clay and limestone as above — alternating layers.	
8	10		Pale grey clays, occasionally pale yellow-brown.	
10	12		Weathered, soft, clayey sands. White to pale buff / grey coloured. Hi clay content.	
12	13		Pale grey clay.	
13	14		Buff coloured limestone and clayey f.g. sandstone.	
14	15		Pale grey limestone and coarse granule grit.	
15	23		Poorly sorted f. to m. grained pale grey sandstone, possibly with clayey interbeds. Iron-staining at base.	
23	24		Pale grey to pale yellow-brown clays.	
24	25		Ferruginous sandstone and clays.	? Base of Cretaceous ?
25	27		Pale yellow-brown limestone.	
27	29		Pale yellow-brown clays	Water at ~ 56 m.
29	34		Yellow-brown limestone.	
34	74		Pale grey f.g. limestone; ferruginous layer 35-36m & clay layers 36-37m, 39-42m. (41-42m dark yellow brown clay). Becoming pale grey-brown limestone below ~40 m, with occasional yellow-brown iron-staining.	
74	75		Grey clays.	
75	79		Dark red-brown powdery clays	
79	82		Yellow-brown powdery clay.	
82	84		Fragments of pale grey to yellow-brown limestone in yellow-brown clay.	
84	90		Grey-brown limestone.	
	E.O.H			

Summary: 0 – 25 m Cretaceous cover (sst. & carbonate)
25 – 90 m Cambrian (?) limestone & clays.

Sample No	Sample Interval
166125	0-4 m
166126	4-8
166127	8-12
166128	12-16
166129	16-20
166130	20-24
166131	24-28
166132	28-32
166133	32-36
166134	36-40
166135	40-44
166136	44-48
166137	48-52
166138	52-56
166139	56-60
166140	60-64
166141	64-68
166142	68-72
166143	72-76
166144	76-80
166145	80-84
166146	84-90

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~~Phillips Range~~ RC Drilling			Hole No: LRC 012		Page 1 of 1
Easting: 0343282	Northing: 8273790	Datum: WGS 84	Zone: 53L		Geologist: ERM
Start date: 17/10/04	Finish date: 19/10/04	Total depth: 34 m	Inclination: VERT.		Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC			FALCON ANOMALY "LRF 004-TH"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	3		"Black soil": dark grey clays	
3	7		Grey-brown to dark yellow-brown clays. Minor white silicified limestone(?)/chert.	
7	10		Ferruginous fragments and clays / soft white carbonate	
10	24.5		Soft white clays / carbonates; increasing sand content 18-20m; abundant Fe aggregates 20-21; back to soft white/yellow-brown clays 21-24.5	
24.5	26		Clayey sands / friable sandstone: f.g., white.	
26	29		Predominantly loose, f-g. sands — (some clays 26-27m), minor component of coarse grit. Coarser sand (m.g.) between 27-28m.	
29	30		Fine grained white sands ± minor white carbonate.	
30	34		Fine white sands (flowing sand) ± minor coarse grit / fine gravel. "friable f.g. white sandstone"	
	E.O.H		Hole terminated at 34m due to drilling difficulties caused by flowing sands.	
			Summary: 0-24.5m Cretaceous cover sequence: clays.	
			24.5-34m Cretaceous cover sequence: sands.	

Sample No	Sample Interval
166147	0-4m
166148	4-8m
166149	8-12m
166150	12-16m
166151	16-20m
166152	20-24m
166153	24-28m
166154	28-32m
166155.	32-34m

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Phillips Range RC Drilling			Hole No: LRC013		Page 1 of 1
Easting: 0343365	Northing: 8273850	Datum: WGS 84	Zone: 53L		Geologist: ERM
Start date: 19/10/04	Finish date: 19/10/04	Total depth: 35m	Inclination: VERT.		Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC			FALCON ANOMALY "LRFOOL-TH"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	2		"Black soil" — dark grey-brown clays — (yellow-brown tinge) scattered white carbonate at surface.	
2	10		White clays — ranging to pale brown / yellow-brown in parts. Rare hard white carbonate fragments in top 2m. Chalky texture.	Non calcareous
10	17		Similar to above; white chalky clays but with some yellow-brown mottling throughout. (Rare hard ferruginous frags. 14-15m)	
17	21		Ferr chalky: white clays with yellow-brown, brown, and occ. red brown mottling.	Non-calcareous.
21	23		Highly ferruginous m.-f. sandstone — Fe cemented — becoming less iron-rich and more clayey below 22m.	
23	24		Fine sands and yellow-brown clays.	
24	34.5		Fine grained, very friable sandstone — flowing sands — minor gritty component.	
34.5	35		Yellow-brown clay & occ. fragments of L/S — hole abandoned due to sand slipping into limestone.	
	EOH			

Summary: 0 – 21m Cretaceous cover sequence; clays.
21 – 35m Cretaceous cover sequence; sands.
Note: ? possible start of Cambrian limestone at 34-5?

Sample No.	Sample Interval
166156	0–4m
166157	4–8m
166158	8–12m
166159	12–16m
166160	16–20m
166161	20–24m
166162	24–30m
166163	30–34m
166164	34–35m

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~~Phillips Range~~ RC Drilling

Hole No: LRC 014

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Easting: 0345707	Northing: 8270052	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 19/10/04	Finish date: 19/10/04	Total depth: 72m	Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE		Drilling type: RC		FALCON TARGET: "LRF 002"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	2		Red-brown to yellow brown sandy soils & minor calcrete.	
2	6		Yellow-brown clays with gritty component below 3m — "sandy clays".	
6	8		Pale yellow-brown to grey clays. Minor limestone.	Start of ? Cambrian ? carbonates at ~ 7.5m
8	20		Pale grey to pale yellow-brown limestone [redacted] (brown from 14-20m)	
20	23		Pale grey bleached-looking limestone, becoming iron stained below.	
23	24		Yellow-brown Fe-stained zone in limestone.	
24	45		Clays: pale yellow-brown (24-26m), pale grey (26-28m), pale brown (28-30m) — grey to brown below. All are calcareous.	
45	47		Becoming dump — still clay/claystone but with a carbonate grit component.	Water from ~ 45m
47	72		Pale grey to pale brown limestone — clayey beyond with minor calcrete 53-54m. [redacted] staining + weathering common 57-60m. Increased clay content 60-62m. Fe staining 65-66m. Hole terminated at 72m in grey-brown limestone.	
	E.O.H.			

Summary:
- 0 – 7.5 m Cretaceous cover / Cainozoic ?
- 7.5 – 24 m Limestone — ? Cambrian ?
- 24 – 47 m Clay / claystone (calcareous)
- 47 – 72 m Cambrian (?) carbonate sequence

Sample No	Sample Interval
166165	0-4m
166166	4-8m
166167	8-12m
166168	12-16m
166169	16-20m
166170	20-24m
166171	24-28m
166172	28-32m
166173	32-36m
166174	36-40m
166175	40-44m
166176	44-48m
166177	48-52m
166178	52-56m
166179	56-60m
166180	60-64m
166181	64-68m
166182	68-72m

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~~Phillips Range~~ RC Drilling

Hole No: LRC 015

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Easting: 0345702E	Northing: 8270137N	Datum: WGS 84	Zone: 53L	Geologist: ERM
Start date: 24/10/04	Finish date: 24/10/04	Total depth: 64 m	Inclination: VERT	Azimuth: —
Driller: DRILL TORQUE		Drilling type: RC		FALCON ANOMALY "LRF 002"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	2		Grey brown to yellow brown clayey sand — ferruginous in parts.	
2	3		Yellow-brown to grey sandy clay.	
3	6		Pale grey-brown sandy clays with minor quartz grit.	
5	7.5		Calcareous clays: pale grey to yellow brown.	
7.5	32		Pale grey/grey brown/yellow-brown/dark grey limestone (Cambrian?) — some minor sandy horizons (?). Higher clay content 12-13m may imply interbedded (calcareous) clays.	
32	43		Yellow-brown clays with minor limestone (pale grey to dark brown)	
43	50.5		Dark brown to pale grey limestone. Moderate clay content (calcareous)	
50.5	54		Dark yellow-brown clays — (cavity in 53-54m section)	Water @ ~ 52m.
54	64		Very pale brown to buff coloured (Cambrian?) limestone.	
	EOH			

Summary: 0 – 7.5m Cover sequence: clays & sand
7.5 – 64 m Cambrian (?) carbonate sequence (clayey between 32 & 43m).

Sample No	Sample Interval
166183	0–4 m
166184	4–8 m
166185	–12
166186	–16
166187	–20
166188	–24
166189	–28
166190	–32
166191	–36
166192	–40
166193	–44
166194	–48
166195	–52
166196	–56
166197	–60
166198	–64

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~~Phillips Range~~ RC Drilling			Hole No: LRC016		Page 1 of 1
Easting: 0345774	Northing: 8270928	Datum: WGS 84	Zone: 53L	Geologist: ERM	
Start date: 25/10/04	Finish date: 25/10/04	Total depth: 54m	Inclination: VERT.	Azimuth: —	
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LRF001"	

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	1.5		Black soil – (grey clays)	
1.5	6		Pale grey to yellow-brown clays – with minor limestone & thin Fe layer(s).	
6	8		Slightly ferruginous calcareous clays ± minor calc. sandstone (f.g.)	
8	11		White, f.g., friable clayey SST. ± minor coarse sand / grit.	
11	14		Sandstone a/a with higher propⁿ clay (marl interbeds?) – calcareous.	
14	15		Fine grained pale yellow-brown sandstone.	
15	17		Sandy conglomerate: rounded SST. clasts (broken), chert.	Base of Cretaceous? Change from 5½" to 4½" hammer.
17	19		Pale grey to grey brown limestone – frequent iron staining	
19	22		Pale grey-brown limestone.	
22	24		Pale yellow-brown calcareous clays; minor grey L/S 22-23m.	
24	25		Dark brown to pale grey-brown limestone.	
25	54		Pale grey-brown limestone: clayey 26-27m; yellow-brown Fe stain	Water ~40m
	E.O.H.		31-33m; red-brown interbeds 38-40m. Fe stained & poor recovery	
			40-42m.	

Summary: 0 – 17m Cretaceous cover
17 – 54m Cambrian.

Sample No	Sample Interval
166199	0-4m
166200	-8
166201	-12
166202	-16
166203	-20
166204	-24
166205	-28
166206	-32
166207	-36
166208	-40
166209	-44
166210	-48
166211	-52
166212	-56

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~~Phillips Range~~ RC Drilling			Hole No: LRC 017		Page 1 of 1
Easting: 0345770	Northing: 8271073	Datum: WGS 84		Zone: 53 L	Geologist: ERM
Start date: 25/10/04	Finish date: 25/10/04	Total depth: 40 m		Inclination: VERT.	Azimuth: —
Driller: DRILL TORQUE (QLD)		Drilling type: RC			FALCON ANOMALY "LRE001"

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	3		Black soil (dark grey clays)	
3	7		Calcareous grey clays — yellow-brown in parts	
7	8		Grey clays + minor dark red-brown clay.	
8	11		Grey to yellow-brown non-calc. clays.	
11	12		Highly ferruginous sandstone — f.g., dark red-brown	
12	15.5		Fine grained friable sandstone; pale grey & fine grained. Free flowing f.g. sand in part causing drilling problems	
15.5	19		Pale grey (to yellow brown) calcareous clays (marl).	
19	21		Limestone with abundant Fe staining (Cambrian regolith).	
21	40		Grey-brown to pale yellow-brown limestone; very poor recovery	
	E.O.H.		between 19 & 28 m (cavities?).	
			Summary: 0 — 19 m Cretaceous cover sequence.	
			19 — 40 m Cambrian(?) carbonate sequence.	
			SAMPLE Nº SAMPLE INTERVAL.	
			166213 0—4 m	
			166214 — 8 m	
			166215 — 12 m	
			166216 — 16	
			166217 — 20	
			166218 — 24	
			166219 — 28	
			166220 — 32	
			166221 — 36	
			166222 — 40 m.	

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~~Phillips Range~~ RC Drilling			Hole No: LRC 018		Page 1 of 1
Easting: 0342600	Northing: 8271612	Datum: WGS 84	Zone: 53 L	Geologist: ERM	
Start date: 25/10/04	Finish date: 26/10/04	Total depth: 30m	Inclination: VERT.	Azimuth: —	
Driller: DRILL TORQUE (QLD)		Drilling type: RC		FALCON ANOMALY "LRF030".	

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	1		Sandy-clay soil – red-brown to grey: scattered Fe pisolites at surface.	
1	3		Ferruginous clayey sands	
3	12		Clays / claystone: non-calcareous, yellow brown / mottled grey-red, with ferruginous horizons within 9-10 & 11-12 m.	
12	17		Pale grey clays — occasionally yellow-brown.	
17	18		Fine gravel: loose sand with minor grit & minor clays.	
18	24		Very friable f.g. sandstone / loose sands: poor recovery. Higher proportion of grit in lower 2m (but still mainly fine sand). Ferruginous horizons in 23-24m section. Poor recovery.	
24	25		Yellow brown sandy clay.	
25	30m E.O.H.		Fine grained free-flowing sands — friable pale grey sandstone below 27m but still free flowing: hole abandonned at 30m.	

Summary: 0-30m Cretaceous cover sequence.

Sample No	Sample Interval
166223	0–4m
166224	4 - 8
166225	8 - 12
166226	12 - 16
166227	16 - 20
166228	20 - 24
166229	24 - 28
166230	28 - 30

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~~Phillips Range~~ RC Drilling			Hole No: LRC 019		Page 1 of 1
Easting: 342656	Northing: 8271680	Datum: WGS 84	Zone: 53S	Geologist: NO (GEOL)	
Start date: 26/10/04	Finish date: 26/10/04	Total depth: 55 metres	Inclination: 90	Azimuth: —	
Driller: DRILL TORQUE QLD		Drilling type: RC			

Depth(m) from	Depth(m) to	Oxidation	Description	Comments
0	8		pale brown/~~grey~~ dk brown/pale grey clays	clay predominantly grey/white.
8	11		A/A but with ferruginised lithic fragments	
11	13		pale grey → white clay.	
13	~~14~~ 15		white/grey clay.	
15	17		pale grey clay with some ferruginised frags.	some red mottling
17	18		grey clay	
18	19		white clay.	
19	21		pale grey clay	
21	22		predominantly sands w coarse qtz + some clay	qtz 3-5 mm generally rounded.
22	24		sand w minor qtz grains	"
24	26		bleached sand with qtz grains	25-26 m has more qtz grains
26	27		yellow brown stained qtz sands with minor claystone	
27	28		yellow/white sands with pebbles of Fe altered sst.	
~~28~~	~~29~~		& some pebbles of white, unaltered f.g. sst	
28	~~29~~ 30		very fine grained sand with pebbles of white sst.	sand is bleached white & friable.
30	32		as above.	
32	34		as above but larger pebbles/cobbles?	some ferruginisation of sst.
			sand in 33-34 is pale yellow	
34	35		bleached sand A/A but with pale yellow clay pellets	
35	36		pale yellow sands with brown clays.	
36	37		brown clay, some sst frags.	
37	38		brown clay, some sst frags.	
38	40		dark brown clay with minor pale lithic fragments	
40	42		dark brown clays - puggy? elastic	poor recovery 40-43 m.
42	43		A/A but with limestone fragments.	
43	51		limestone	
51	55		limestone, increased clay content.	
	EOH			

166231	0-4m	166238	28-32m
166232	4-8m	166239	32-36m
166233	8-12m	166240	36-40m
166234	12-16m	166241	40-43m
166235	16-20m	166242	43-47m
166236	20-24m	166243	47-51m
166237	24-28m	166244	51-55m

SUMMARY

0 - 43m Cretaceous Sands/Clays

43 - 55m Cambrian Limestone