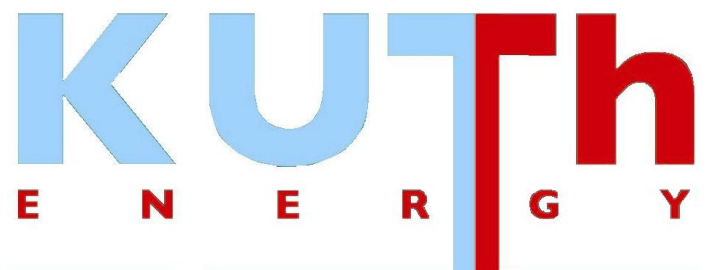


Appendix 2

Drill logs

SEL 26/2005 & SEL 45/2007

Annual Report 2009



Appendix 2 notes:

Refer to Appendix 1 for logging codes.

These summaries are shortened versions of the .pdfs containing the most relevant information for geothermal exploration.

Holes have 6m deep steel collar (100mm diameter) with lockable steel cap.

Casing refers to 40mm PVC pipe to enable thermal probe to reach EOH.

Drillers comments on water activity are included in drilling summaries.

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Bangor	Project:	Shallow heat flow program	
Hole No:	K26DD022	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Lower Turners Marsh, Tasmania	
Collar RL (m):	204	Collar co-ordinates:	508572E, 5440427N	
Total depth (m):	252.2			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	26/05/2008	27/05/2008
Diamond (HQ)	102	252.2	3/06/2008	9/06/2008
Drilling summary: 0 - 252.2m Mathinna Group Water flowing from hole, 6-700 gal/hr at 44m Casing to 252.2 m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Beaconsfield	Project:	Shallow heat flow program	
Hole No:	K26DD034	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Beaconsfield, Tasmania	
Collar RL (m):	90	Collar co-ordinates:	489244E, 5439884N	
Total depth (m):	249.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	89.9	24/10/2008	31/10/2008
Diamond (HQ)	89.9	249.6	7/11/2008	13/11/2008
Drilling summary: 0 - 244.3m Jurassic dolerite 244.3-249.6m (Upper?) Parmeener Supergroup Water flowing from hole, ~100 gal/hr, very little flow Casing to 249.6 m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Cambridge (Uni. Farm)	Project:	Shallow heat flow program	
Hole No:	K26DD032	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Dulcot, Tasmania	
Collar RL (m):	43	Collar co-ordinates:	534378E, 52617424N	
Total depth (m):	249.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	93.1	26/06/2008	1/07/2008
Diamond (HQ)	93.1	249.6	18/09/2008	28/09/2008
Drilling summary: 0 - 6m Quaternary sediments 6- 249.6m Tertiary basalt Water flowing from hole, ~200 gal/hr between 18 to 24m Casing to 249.6 m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Charlton 2	Project:	Shallow heat flow program	
Hole No:	K26DD010B	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	South of Ross, Tasmania	
Collar RL (m):	242	Collar co-ordinates:	545172E, 5339826N	
Total depth (m):	250.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
Diamond (HQ)	0	250.6	25/03/2008	2/04/2008

Drilling summary: Charlton 1 collapsed, therefore this hole DD from surface
0 - 3.6m Tertiary basalt and sediments
3.6 - 13.2m (Upper?) Parmeener Supergroup
13.2 - 250.6m Jurassic dolerite
Casing to 250.6 m

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Frankford	Project:	Shallow heat flow program	
Hole No:	K26DD018	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	NW of Rosevale, Tasmania	
Collar RL (m):	289	Collar co-ordinates:	490171E, 5416602N	
Total depth (m):	251.9			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	101.9	2/05/2008	3/05/2008
Diamond (HQ)	101.9	251.9	6/05/2008	11/05/2008
Drilling summary: 0 - 190.1m Jurassic dolerite 190.1 - 195m Jurassic dolerite/ (Upper?) Parmeener Supergroup 195 - 251.9m (Upper?) Parmeener Supergroup Casing to 251.6 m, dry hole				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Lisle	Project:	Shallow heat flow program	
Hole No:	K26DD036	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Lisle, Tasmania	
Collar RL (m):	307	Collar co-ordinates:	528218E, 5437495N	
Total depth (m):	250			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	5/11/2008	6/11/2008
Diamond (HQ)	102	250	21/11/2008	28/11/2008
Drilling summary: 0 - 250m Mathinna Group 300 gal/hr at 42m Casing to 250m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Marion Bay	Project:	Shallow heat flow program	
Hole No:	K45DD027	Licence area:	SEL45/2007	
Datum:	GDA94 Zone 55	Location:	Bream Creek, Tasmania	
Collar RL (m):	81	Collar co-ordinates:	568645E, 5260030N	
Total depth (m):	252.1			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.1	9/06/2008	12/06/2008
Diamond (HQ)	102.1	252.1	2/07/2008	16/07/2008
Drilling summary: 0-15m Tert basalt and sediments, 15- 51m J. Dolerite, 60- 125.5m (Upper?) Parmeener Supergroup 125.5- 126.8m J. Dolerite, 126.8- 142.3m (Upper?) Parmeener Supergroup, 142.3- 252.1m J. Dolerite Contamination of samples 51-60m? 500 gal/hr at 75-80m Casing to 252.1m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Mt Nicholas	Project:	Shallow heat flow program	
Hole No:	K26DD017	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	N of Mt Nicholas town, Tasmania	
Collar RL (m):	398	Collar co-ordinates:	587962E, 5401440N	
Total depth (m):	249.7			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
Diamond (HQ)	0	249.7	22/04/2008	5/05/2008
Drilling summary: 0- 166.4m (Lower?) Parmeener Supergroup 166.4- 249.7m Mathinna group Casing to 249.7m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Murdunna	Project:	Shallow heat flow program	
Hole No:	K45DD029	Licence area:	SEL45/2007	
Datum:	GDA94 Zone 55	Location:	Murdunna, Tasmania	
Collar RL (m):	139	Collar co-ordinates:	573413E, 5242021N	
Total depth (m):	252.1			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	17/06/2008	19/06/2008
Diamond (HQ)	102	252.1	16/07/2008	26/07/2008
Drilling summary: 0- 252.1m Jurassic dolerite Casing to 252.1m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Native Hut	Project:	Shallow heat flow program	
Hole No:	K26DD031	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	S of Colebrook, Tasmania	
Collar RL (m):	378	Collar co-ordinates:	530061E, 5284634N	
Total depth (m):	249.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.1	25/06/2008	26/06/2008
Diamond (HQ)	102.1	249.6	8/10/2008	16/10/2008
Drilling summary: 0- 214.7m Parmeener Supergroup 214.7- 249.6m Jurassic dolerite Casing to 249.6m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Nunamara	Project:	Shallow heat flow program	
Hole No:	K26DD021	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Nunamara, Tasmania	
Collar RL (m):	727	Collar co-ordinates:	528262E, 5415737N	
Total depth (m):	249.7			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	59.2	16/05/2008	21/05/2008
Diamond (HQ)	59.2	249.7	26/05/2008	2/06/2008
Drilling summary: 0- 223.9m Jurassic dolerite 223.9- 249.7m (Lower?) Parmeener Supergroup 300 gal/hr at 30m Casing to 249.7m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Oatlands 2	Project:	Shallow heat flow program	
Hole No:	K26DD037B	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Oatlands, Tasmania	
Collar RL (m):	526	Collar co-ordinates:	531347E, 5319896N	
Total depth (m):	250.1			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	25/11/2008	25/11/2008
Diamond (HQ)	102	250.1	1/12/2008	9/12/2008
<p>Drilling summary: Oatlands 1 collapsed during RC drilling 0- 250.1m Jurassic dolerite 200 gal/hr at 22m. Casing to 250.1m Successfully drilled and temperature log taken. However heat flow could not be determined due to advection of fluid behind the casing.</p>				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Perth	Project:	Shallow heat flow program	
Hole No:	K26DD020	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Perth, Tasmania	
Collar RL (m):	200	Collar co-ordinates:	513500E, 5399080N	
Total depth (m):	252.7			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.1	14/05/2008	15/05/2008
Diamond (HQ)	102.1	252.7	20/05/2008	26/05/2008
Drilling summary: 0- 252.7m Jurassic dolerite Casing to 252.7m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Rheban	Project:	Shallow heat flow program	
Hole No:	K45DD025	Licence area:	SEL45/2007	
Datum:	GDA94 Zone 55	Location:	Rheban, Tasmania	
Collar RL:	79 m	Collar co-ordinates:	572790E, 5279433N	
Total depth:	252.7			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	3/06/2008	5/06/2008
Diamond (HQ)	102	252.7	18/06/2008	1/07/2008
Drilling summary: 0 - 252.7m Jurassic dolerite Water flowing from hole - 400 gal/hr at 50m Casing to 102 m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Rocherlea	Project:	Shallow heat flow program	
Hole No:	K26DD033	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Rocherlea, Tasmania	
Collar RL (m):	49	Collar co-ordinates:	509171E, 5420496N	
Total depth (m):	252.5			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.5	31/10/2008	31/10/2008
Diamond (HQ)	102.5	252.5	7/11/2008	13/11/2008

Drilling summary:

0- 252.5m Jurassic dolerite

50 gal/hr- surface flow

Casing to 252.5m

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Runnymede	Project:	Shallow heat flow program	
Hole No:	K26DD026	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Runnymede, Tasmania	
Collar RL (m):	247	Collar co-ordinates:	546175E, 5280238N	
Total depth (m):	249.5			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	85.4	6/06/2008	9/06/2008
Diamond (HQ)	85.4	249.5	29/09/2008	7/10/2008
Drilling summary: 0- 15m (Upper?) Parmeener Supergroup 15- 249.5m Jurassic dolerite Casing to 249.5m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Sloping Main	Project:	Shallow heat flow program	
Hole No:	K45DD028	Licence area:	SEL45/2007	
Datum:	GDA94 Zone 55	Location:	Sloping Main, Tasmania	
Collar RL (m):	156	Collar co-ordinates:	552365E, 5236613N	
Total depth (m):	102			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	12/06/2008	16/06/2008

Drilling summary: wasn't completed with a diamond tail due to low local heat flow results and remote locality. Temp log taken only to 95m (statistically invalid data). 1m thick coal seam at 36m.

0- 6m Jurassic dolerite, 6- 102m (Upper?) Parmeener Supergroup. Thin dolerite sill at 9-21m.

400 gal/hr at 64-66m within clay unit. No casing.

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Sorell	Project:	Shallow heat flow program	
Hole No:	K26DD030	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	W of Forcett, Tasmania	
Collar RL (m):	50	Collar co-ordinates:	550181E, 5260122N	
Total depth (m):	251.2			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	101.2	23/06/2008	24/06/2008
Diamond (HQ)	101.2	251.2	27/07/2008	6/08/2008
Drilling summary: 0- 172m (Lower?) Parmeener Supergroup 172- 251.2m Jurassic dolerite Casing to 251.2m. 7-800 gal/hr at 36m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Swan 2	Project:	Shallow heat flow program	
Hole No:	K26DD023B	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	W of Forcett, Tasmania	
Collar RL (m):	126	Collar co-ordinates:	550108E, 5359271N	
Total depth (m):	300			
Logged by:	Kate Heynes			
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	150	9/11/2007	14/11/2007
Diamond (HQ)	150	300.7	13/12/2007	18/12/2007

Drilling summary: Swan 2 was drilled to 300m but collapsed after 200m. Casing only to 200m.

0-300m Jurassic dolerite

0.3-0.5k gal at 40m

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Swan 3 (aka Swan 2)	Project:	Shallow heat flow program	
Hole No:	K26DD023B	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	W of Forcett, Tasmania	
Collar RL (m):	126	Collar co-ordinates:	550108E, 5359271N	
Total depth (m):	200			
Logged by:	Kate Heynes			
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	150	28/05/2008	29/05/2008
Diamond (HQ)	150	200	9/06/2008	12/06/2008
<p>Drilling summary: Swan 2 was drilled to 300m but collapsed after 84m. Hole was redrilled ~5 months later and named Swan 3. Only cleared to 200m.</p> <p>Please see 2008 Annual report for geology log.</p> <p>0-200m Jurassic dolerite. Casing to 200m.</p>				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Tiberias	Project:	Shallow heat flow program	
Hole No:	K26DD014	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Tiberias, Tasmania	
Collar RL (m):	437	Collar co-ordinates:	531690E, 5301300N	
Total depth (m):	253.6			
Logged by:	Kate Heynes			
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.5	18/03/2008	18/03/2008
Diamond (HQ)	102.5	253.6	29/03/2008	3/04/2008
Drilling summary: RC log missing from 2008 Annual report 0- 253.6m (Upper?) Parmeener Supergroup 0.5-0.6k gal at 60m Casing to 253.6m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Tooms	Project:	Shallow heat flow program	
Hole No:	K26DD001	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	S of Tooms Lake, Tasmania	
Collar RL (m):	414	Collar co-ordinates:	567354E, 5319894N	
Total depth (m):	261.5			
Logged by:	Kate Heynes			
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	101.5	29/10/2007	30/10/2007
Diamond (HQ)	101.5	261.5	15/11/2007	27/11/2007
Drilling summary: 0- 261.5m Jurassic dolerite 3k gal at 92-102m in broken ground Casing to 261.5m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Tunbridge	Project:	Shallow heat flow program	
Hole No:	K26DD015	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Tunbridge, Tasmania	
Collar RL (m):	525	Collar co-ordinates:	529875E, 5339428N	
Total depth (m):	252.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.6	28/03/2008	31/03/2008
Diamond (HQ)	102.6	252.6	7/04/2008	13/04/2008

Drilling summary: RC log missing from 2008 Annual report

0- 27m Jurassic dolerite, 27-132.6m (Upper?) Parmeener Supergroup (JD present 36-103m, possible contamination),
132.6- 252.6m Jurassic dolerite

Dry hole. Casing to 252.6m.

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Westbury	Project:	Shallow heat flow program	
Hole No:	K26DD019	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Westbury, Tasmania	
Collar RL (m):	233	Collar co-ordinates:	485940E, 5396730N	
Total depth (m):	252			
Logged by:	Andrew Wakefield			
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102.16	5/05/2008	7/05/2008
Diamond (HQ)	102.2	252	14/05/2008	20/05/2008
Drilling summary: 0- 252m Jurassic dolerite Dry hole Casing to 252m				

**KUTh Exploration Ltd
Tasmania**

Drill log sheet

Hole Name:	Weymouth	Project:	Shallow heat flow program	
Hole No:	K26DD035	Licence area:	SEL26/2005	
Datum:	GDA94 Zone 55	Location:	Weymouth, Tasmania	
Collar RL (m):	37	Collar co-ordinates:	508409E, 5457196N	
Total depth (m):	251.6			
Logged by:				
Contractor:	Gerald Spaulding Drillers Pty Ltd			
Inclination:	Azimuth:	Survey:	Remarks:	
vertical hole		no		
Drilling type:	From (m)	To (m)	Start drilling:	Finish drilling:
RC	0	102	3/11/2008	5/11/2008
Diamond (HQ)	102	251.6	13/11/2008	21/11/2008
Drilling summary:				
0- 251.6m Mathinna Group				
300 gal/hr at 40m				
Casing to 251.6m				

