

TECHNICAL ASSESSMENT CHECKLIST AND RECOMMENDATIONS

EXPLORATION PERMITS FOR COAL NO. 14, 241, 95,203,249,119, 295, 265, 300,175, 300, 300, 298, 300,150, 259,150, 292, 284, 300

Variation

Date of Grant:

Low

Applicant(s)/Holder(s): WARATAH Coal Pty Ltd	
Project Name: GALILEE BASIN PROJECT	
Commodity: Export thermal coal	
Number of sub-blocks applied for:	
14+241+95+203+249+119+295+265+300+	
175+300+300+298+300+150+	
259+150+292+284+300= 4589	Application at folio:

Assessment Summary

Technical and financial resources: Satisfactory, supported by Clive Palmer's Minerology Pty Ltd.

Program and concepts: Satisfactory

Location: Contiguous, 30km NW of Alpha

Level of ground impact for NT considerations:

The applicant DOES NOT need to submit further information to support the application.

- Information requested in accordance with section 133A and at folio
- Information provided on (see folio

Conditions sought

Conditions recommended

	1039 Recommendations											
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Old Program	New Program	Comments				
6	9/3/12	8/3/13	14	120,000	46,052	Drilling, feasibility studies						
7	9/3/13	8/3/14	14	50,000		Application for a higher tenure		Recommend project status				
8	9/3/14	8/3/15	14	50,000		Await grant of higher tenure						
9	9/3/15	8/3/16	14	50,000		Await grant of higher tenure						
10	9/3/16	8/3/17	14	50,000		Await grant of higher tenure		Recommend vary year 1-5 expenditure, year 3-5 area, year 2-5 work program (dated 19-10-11)				

	1040 Recommendations										
6	22/6/11	21/6/12	241	200,000		Resource infill drilling Feasibility study		Comments			
7	22/6/12	21/6/13	241	200,000	2,56,787 4	Resource infill drilling Feasibility study		Recommend project status			
8	22/6/13	21/6/14	193	200,000		Resource infill drilling Feasibility study		Recommend:			
9	22/6/14 13	21/6/15 -153	154	200,000		Bankable feasibility study DL Documents		To renew for year 6, 7, 8,			

					Progress to ML	9 & 10 over area of 241 sub – blocks.
1	22/6/15	21/6/16	123	200,000		Mandatory relinquishment of 20% at the end of year 7 or MDL application over the resource area within the EPC 1040. Standard reporting condition

	1555 Recommendations											
6	30/8/12	29/8/13	95	85,000	Drilling, feasibility studies	Comments						
7	30/8/13	29/8/14	76	50,000	Apply for higher tenure (on grant of EPC 1105 due early 2013)	Renewal still to be carried out (good past expenditure)						
8	30/8/14	29/8/15	61	50,000	Preparatory studies awaiting grant of higher tenure	_Recommend project status						
9	30/8/15	29/8/16	49	50,000	Preparatory studies awaiting grant of higher tenure							
10	30/8/16	29/8/17	40	50,000	Preparatory studies awaiting grant of higher tenure							

					105	3 Recommendations	
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program Report R - Pa F - Fin O - Ot	al
1	19/2/10	18/2/11	5	\$10,000	10,307	 Literature reviews. GIS. Stratigraphic mapping / drilling. 	Granted 5 sub-blocks for 5 years under normal conditions.
2	19/2/11	18/2/12	5	\$50,000		 Review of previous work. Stratigraphy / structural mapping. Interpretation. Scout drilling. 	Recommend project status
3	19/2/12	18/2/13	4	\$78,000		Review of previous work.Scout drilling.Follow-up interpretation.	
4			4	\$126,000		Review of all data.Follow-up drilling.Coal analysis.	
5			4	\$212,000		Review of all data.Drilling.Testing.Pre-feasibility scoping.	

	1079 Recommendations											
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments				
6	2/11/12	1/11/13	203	120,000		Drilling, feasibility studies		Recommend project				
7	2/11/13 13-153		163	50,000		Apply for higher tenure (post grant of EPC 1105 due early 2013)		status				

8	2/11/14	1/11/15	131	50,000	Preparatory studies awaiting grant of higher tenure	
9	2/11/15	1/11/16	105	50,000	Preparatory studies awaiting grant of higher tenure	
10	2/11/16	1/11/17	84	50,000	Preparatory studies awaiting grant of higher tenure	

	1080 Recommendations										
Yr	From	То	S/B Act ual	Min Prop\$	Actual \$	3 "	Report A -Annual	Comments			
6	2/11/12	1/11/13	200	120,000		Drilling, coal quality analysis		Recommend project status			
7	2/11/13	1/11/14	160	50,000		Drilling, coal quality analysis		Recommended to relinquish 49 SB out of requested 249 SB by			
8	2/11/14	1/11/15	128	50,000		Drilling, coal quality analysis		FOB 23/8/12, Merlin still showing 249 SB granted?			
9	2/11/15	1/11/16	103	50,000		Drilling, coal quality analysis					
10	2/11/16	1/11/17	82	50,000		Drilling, coal quality analysis Await grant of higher tenure					
То	tal expend year	iture for th term :	e 5	816,000							

						1105 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report A -Annual	Comments
1			119	96,500		Literature reviews & summaries GIS compilation & targeting Stratigraphic mapping & interpretation Scout drilling		Recommend: Grant for 5 year, over area of 119 S/Bs.
2			119	110,000		Review of targets and concepts Infill drilling Geological resource modelling		Standard conditions including standard reporting condition
3			96	120,000	0	 Project review Additional drilling Metallurgical testwork 3D seismic over key resource area 	A	
4			77	130,000		 Project review Detailed drilling Metallurgical testwork Pre feasibility scoping studies 	A	Recommend project status
5			62	125,000		Project reviewDetailed drillingMetallurgical testworkPre feasibility studies	A	
To	Total expenditure for the 581,500							

	1155 Recommendations											
Yr	Fr	TS	S/B	Min Prop\$	Act	Program	Keywords	Report -	Comments			
1		2	295	155,000		•Literature reviews & summaries			Grant for 5 years.			
2		2	295			 GIS compilation & targeting Stratigraphic mapping & interpretation Review of year 1 activities Detailed gravity survey Scout drilling 			Standard conditions including standard reporting conditions. Recommend project status			
3		2	236	330,000		•Review of targets & concepts						

4	189		•Further drilling of additional targets	Good expenditure record
			Project reviewAdditional drillingMetallurgical testwork	Renewal pending in yr.2013
5	151 22	20,000	 Project review Detailed drilling Metallurgical testwork Pre feasibility scoping studies 	

	1156 Recommendations												
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report A- Annual	Comments					
4	22/10/11	21/10/12	265	120,000		Drilling		Vary to hold 265 s/b on renewal. Significant work programme and					
Of sea ms. Als o5	22/10/12	21/10/13	265	150,000		Drilling	12	expenditure proposed, and whole of tenement required for drilling correlation of seams. Also required for prerequisite tenure for MDLapplication 455. Recommend: Tenement be renewed for five years over 265					
6	22/10/13	21/10/14	265	180,000		Drilling, feasibility studies		s/bs					
7	22/10/14	21/10/15	265	200,000		Drilling, feasibility studies		Recommend project status					
8	22/10/15	21/10/16	265	200,000		Bankable feasibility studies							

					11:	57 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report A- Annual	Comments
1	21/10/08	20/8/09	300	0	86,979	• Literature reviews • GIS • Stratigraphic mapping/drilling • Review • Stratigraphy/structural mapping • Interpretation • Scout drilling		Grant for 3 years. Standard conditions including standard reporting conditions.
2	21/10/09	20/8/10	300	155,000	43,208			
3	21/10/10	20/8/11	300	145,000	55,267	ReviewDrillingFollow-up interpretation		
4	21/10/11	20/8/12	300	120,000	52,150	Drilling		Vpc request lodged to hold 300 s/b on renewal
5	21/10/12	20/8/13	240	150,000		Drilling		Conditions sought to increase expenditure to cover shortfall
6	21/10/13	20/8/14	192	180,000		Drilling, feasibility studies		of year 4 proposal.
7	21/10/14	20/8/15	154	200,000		Drilling, feasibility studies		
8	21/10/15	20/8/16	124	200,000		Bankable feasibility studies		

						1280 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
3			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
4			190	300,000		◆ Review of all data◆ Follow up drilling◆ Coal analysis		
5			152	300,000		Review of all dataFollow up drillingCoal analysis	RM	
		TOTAL:		1,365.000		SK		
						1281 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
			190	300,000		◆ Review of all data◆ Follow up drilling◆ Coal analysis		
			152	300,000		 Review of all data Follow up drilling Coal analysis 		
		Total:		1,365.000				

	1283 Recommendations											
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments				
1			298	240,000		◆ Literature reviews & summaries◆ Stratigraphical mapping/interpretation◆ Scout Drilling		Recommend:				

2		298	255,000	 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 	Grant for 5 years. Standard conditions including standard reporting conditions.
		238	270,000	 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 	Recommend project status
		190	300,000	 Review of all data Follow up drilling Coal analysis 	
		152	300,000	 Review of all data Follow up drilling Coal analysis 	
	Total :		1,365.000		

						1284 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 	P	Recommend:
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Grant for 5 years. Standard conditions including standard reporting conditions.
3			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
4			190	300,000		Review of all dataFollow up drillingCoal analysis		
5			152	300,000		◆ Review of all data◆ Follow up drilling◆ Coal analysis		
		Total :		1,365.000		1285 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
			190	300,000		Review of all dataFollow up drillingCoal analysis		
			152	300,000		Review of all dataFollow up drillingCoal analysis		
		Total:		1,365.000				

						1286 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
			190	300,000		Review of all data Follow up drilling Coal analysis		
		Total:	152	300,000 1,365.00 0		Review of all data Follow up drilling Coal analysis	Ma	

							3	
						1287 Recommendations		
Ϋ́r	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
3				270,000	O)	 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
4				300,000		Review of all data Follow up drilling Coal analysis		
5			152	300,000		Review of all dataFollow up drillingCoal analysis		
		TOTAL:		1,365.000)			

	1288 Recommendations												
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments					
1			292	235,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend:					
2			292	250,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Grant for 5 years. Standard conditions					

3		234	265,000	 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 	including standard reporting conditions.
					Recommend project
4		187	300,000	 Review of all data Follow up drilling Coal analysis 	status
5	Total:	150	300,000 1,350.000	Review of all data Follow up drilling Coal analysis	

						1289 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			284	230,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 	PW.	Recommend: Grant for 5 years.
2			284	245,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 	7.	Standard conditions including standard reporting conditions.
3			227	260,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
4			182	285,000		 Review of all data Follow up drilling Coal analysis 		
5			146	285,000		 Review of all data Follow up drilling Coal analysis 		
		Total:		1,305.000		·		

						1290 Recommendations		
Yr	From	То	S/B Actual	Min Prop\$	Actual \$	Program	Report – Annual R – Part Rel F – Final O – Other	Comments
1			300	240,000		 Literature reviews & summaries Stratigraphical mapping/interpretation Scout Drilling 		Recommend: Grant for 5 years.
2			300	255,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Standard conditions including standard reporting conditions.
3			240	270,000		 Review of previous years activity Details stratigraphical/structural mapping interpretation Scout Drilling 		Recommend project status
4			190	300,000		◆ Review of all data◆ Follow up drilling◆ Coal analysis		
5		Total:	152	300,000 1,365.000		 Review of all data Follow up drilling Coal analysis 		

The Technical Assessment Checklist provides technical advice to the Delegated Authority on whether an application should proceed to grant. It offers a recommended course of action only and as such it should **not** be viewed as an approval document. All references to sections are references to the *Mineral Resources Act 1989*.

	CHECK LIST	Y or N		
Holders	Are all the holders the same?			
Unifying concept	Being explored for export thermal coal via Abbot point port, pit head electricity generation and UCG			
Relinquishment	Is relinquishment compliant?			
Expenditure	Has expenditure been acceptable? In most cases it is too early to tell as			
	tenements were recently granted			
Work Program	Has the program of work been complied with (or an equivalent body of work)?	N		
	Weather has forced delays to the work programs on these permits			
Conditions	Have specified conditions been complied with?	N/A		
Reporting	Have the reporting requirements been adhered to?	Υ		
Bona Fide	Do the actions of the holder appear to be bona fide?	Υ		
Significant Mineralisation	Has the holder reported significant mineralisation? See s176?			
Outcome	Is the holder complying with the conditions of this tenure? As far as the weather has allowed.			
Performance History of Holder	Are there sufficient grounds to recommend against renewal under s141(1) or 160(1), for non-compliance with the technical requirements of the Act?			
Failure to Relinquish Land	Due to non-compliance with relinquishment requirements, does a recommendation need to be made regarding the area the Minister may direct be relinquished under s139(6) or 140(1)?			
Direction to Apply for Higher Tenure	Do sufficient technical grounds exist to warrant recommending to the Minister that the Holder apply for a higher form of tenure under section 176(2)?	N		
	RECOMMENDED CONDITIONS			
work, acceptable to to comply with this renewal of this ten amendment to the Coal.	e approved work program and expenditure commitments, or an equivalent body of the Minister, of this exploration permit is a condition of grant of this tenure. Failure requirement will be taken into account in the assessment of any application for the ure and may also result in the cancellation of this tenure. Application for any conditions of grant must be in writing and directed to the Registrar, Minerals and			
Other Advice Strategy to utilise deeper coals such as EPC 1280 and further on are not clearly discussed, as exploration in those tenements are in early stages and nature of coal is uncertain. A large portion of tenements are deeper than 500m in depth (figure 3 of the submission). Unifying concept for; deeper 'coal gasification' relatively moderate depth 'underground mining' and shallower 'open cut' is not discussed clearly. UCG technology is still at bench or pilot scale in Australia.				

RENEWAL SIGN-OFF						
Signed	Hem Chandra	Date: 4-9-13	Title:	Geoscientist		
Signed	lan Rienks	Date:	Title:	Senior Geologist		