

PHONE +61 (8) 9486 4036 **ABN** 96 095 684 389 EMAIL
pmcneil@frontierresources.com.au
WEBSITE
www.frontierresources.com.au

ASX: FNT

Market Announcements Platform

11th November 2016

Swit Kai - East Creek Drill Core Photos

Frontier Resources Limited (**Frontier**) is pleased to provide photos of East Creek Drill Core and other related information for EL 1595 – Bulago, Papua New Guinea.

A new zone of outcropping mineralisation was discovered on the walking track to the drill rig, between East Creek and the Central Lower Zone. The rock textures and mineralisation are very impressive and it appears to occur where the structure being drilled in East Creek with the EZL holes intersects the structure drilled on the Upper East Creek pad in April that returned 5.0m grading a weighted average of 13.92 g/t gold, from surface (released to ASX 13/6/2016).

Five diamond core holes (153.7m total of HQ TT) were completed on the East Creek Lower Horizon, targeting a moderate/steep SSW dipping gold mineralised zone. Assay results are expected to be returned, compiled and released in approximately 2 weeks.

Selected cut core hand specimens are also included and the photos are high enough resolution that the reader can enlarge them and see the brecciation, mineralisation and textures contained within the black mudstones.

Brief geological logs were released to the ASX on 12/10/2016 and 26/10/2016. The descriptions of the holes are included again, to allow easy cross reference to the core photos. Draft plans and sections relating to the holes are also included.

The holes were targeting an outcrop containing 1.0m grading 79.35 g/t gold, within 3m grading 45.17 g/t gold (J303-305) in jackhammer trench sampling (announced to ASX 4/7/2014). Drilling was from the southern side of the outcrop (from the hanging wall) and the top section of the holes each tests the higher-grade zone. An altered and brecciated feldspar porphyry occurs on the footwall of this mineralised zone in each hole. The photos show the outcrop that was drilled (looking along strike to the NE) and the location of the drill pad.

The rig was heli-lifted from East Creek and placed on drill pad SUG002 (that returned 1.3m grading 27 g/t gold) – noted to the ASX on 4/7/2014. When drilling re-commences, it will further test the Lower Central Zone around this intercept. This location is about 20m south of the CLD drill hole pad noted above.

ASX noted to the ASX on 12/10/2016, the drilling conducted at the Swit Kai Central Lower Zone was in adequate and very unfortunately, 3 of the 4 CLD drill holes appear to need to be lengthened to reach the target zone (i.e. they were prematurely terminated). This hole lengthening will be undertaken during the next round of drilling.



Hole EZL001

0.0-7.30m: black mudstone with zone of fracturing + brecciation, intensely veining by quartz-pyrite- galena+/-sphalerite+/- adularia vughy forming strong stock working, narrow <20cm breccia zone from 0.10m-0.30m + strong galena+ sphalerite.

7.30-18.50m: pale grey, weakly porphyritic. diorite, strong sericite chlorite - pyrite- clay altered.

13.0m-16.50m: intensely quartz- sulphidic veined, (quartz-pyrite +/- galena+ sphalerite) veins/veinlets.

18.50-25.8m: strongly chloritised massive diorite, weak-mid fractured- control pyrite <1-2%.

25.8m to 35.7m: chlorite altered hornblende diorite.

Hole EZL 002

0.0m-8.4m: blk fractured mudstone modstrong with multiple quartz- pyrite +/- galena +/- sphalerite vein with micro brecciation forming stock work. 5.0m-6.1m: clay- puggy shear zone.

8.4m-17.0m: pale potassic altered feldspar porphyry at 45° to core axis on top contact, silicified pale green with mod-strong quartz sulphide veining.

17.0m-34.6m: massive diorite with narrow (<30cm) quartz- sulphide breccia zone at 19.40m.

34.6m-39.0m: greenish grey siltstone with weak quartz- sulphide veining.

39.0m-49.6m: greenish massive propylitic altered diorite cut by weak /nil quartz sulphide.

Hole EZL 003

0.0m - 6.50m: good stockwork again quartz sulphide veined black mudstone.

6.50m -14.0m: massive chloritised diorite with weak or nil veining.

Hole EZL 004

0.0m - 1.8m: pad fill

1.8m - 3.9m: quartz-pyrite +/- galena-sphalerite

veining < 1-5cm parallel core axis including some hairline veinlet forming stockworking.

5.05m - 9.15m: strongly silicified hydrothermal breccia its matrix - supported breccia with predominantly angular black mudstone coast + <1-2% intrusive set in fine grained milky to greyish chalcedonic quartz - sulphide+? k-feldspar /? adularia breccia matrix moderate stockworking.

9.15m - 9.54m: mudstone and strongly potassic altered feldspar porphyry intensely veined with multiple veining/veinlets of quartz-pyrite-galena-sphalerite with intense brecciation.

9.55m-12m: contact reign seemed to be focussed of intense vein + brecciation, veining occurs in the order of 2-3 cm wide cutting 10-15° to CA, certainly drilling down the structure out of mineralisation at 20.80m. terminated at 28.30m hole depth in solid mass porphyry altered Hornblende diorite.



0.0m - 7.60m: black mudstone fractured cut by moderate quartz-pyrite- +/- galena-sphalerite veinlets + minor breccia zones at 0.0-0.30cm & at 0.70- 1.0m.

7.60m - 10.90m: potassic altered feldspar pervasively silicified and cut by veins/veinlets of quartz-pyrite-sphalerite-galena.

10.90m - 13.50m: black mudstone cut by weak- moderate multiple veins of quartz sulphide.

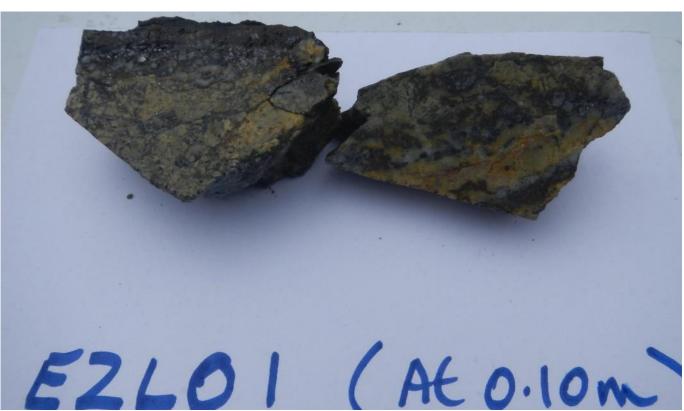
13.50m - 21.85m: black mudstone with weak quartz sulphide veining.

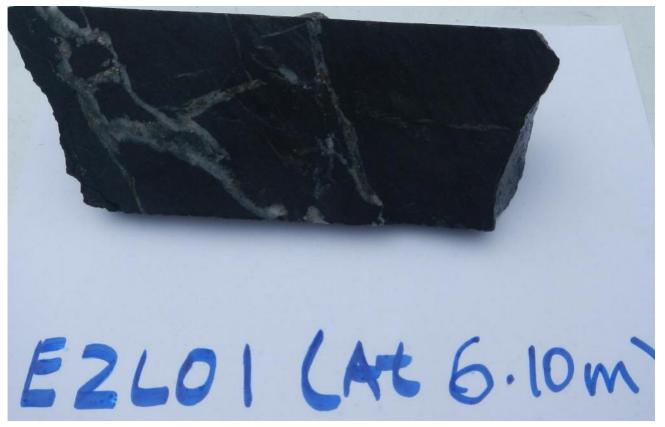
21.85m - 26.10m: propylitic altered massive diorite with no quartz sulphide veining.

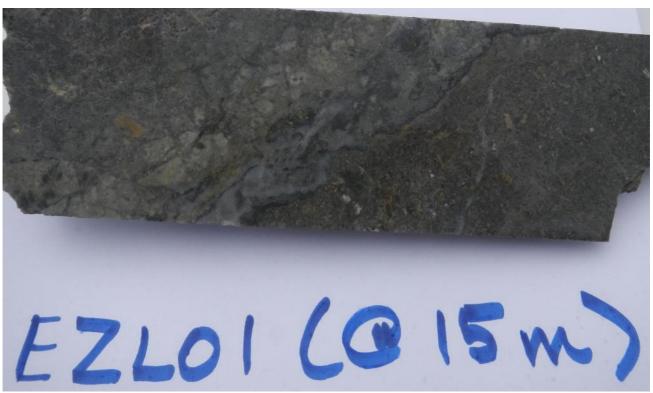


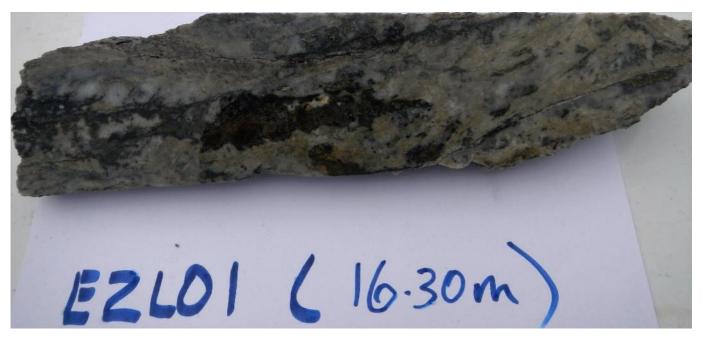
Hole	COORI	DINATES	RL	Azimuth °		INCL.°	EOH	
Number	Easting	Northing	(m)	(AMG)	(MN)	INCL.	Depth	
CLD01	637027	9400217	1627	131	137	-43	55.30m	
CLD02	637028	9400224	1627	141	147	-45	47.90m	
CLD03	637021	9400223	1627	204	210	-43	34.90m	
CLD04	637027	9400217N	1627	249	255	-40	25.20m	
EZL01	637150	9400117	1573	309	315	-38	34.30m	
EZL02	637151	9400117	1573	309	315	-50	50.0m	
EZL03	637151	9400116	1573	309	315	-60	14.0m	
EZL04	637152	9400115	1573	309	315	-90	28.30m	
EZL05	637152	9400118	1573	294	300	-30	26.10m	
					Total Metreage =		316.0	

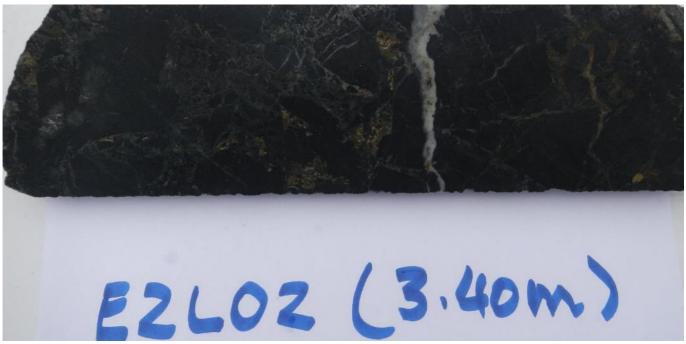


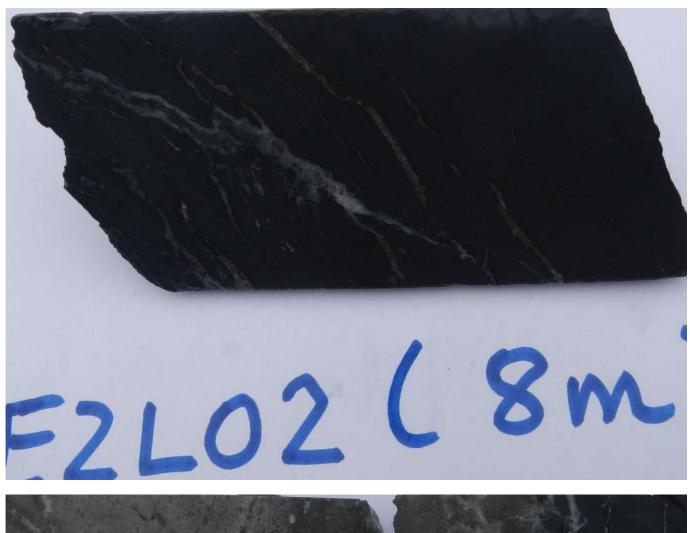


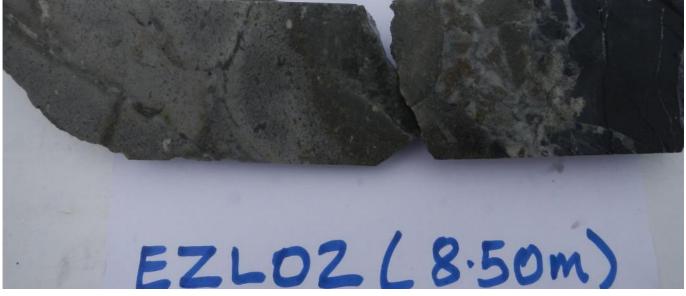


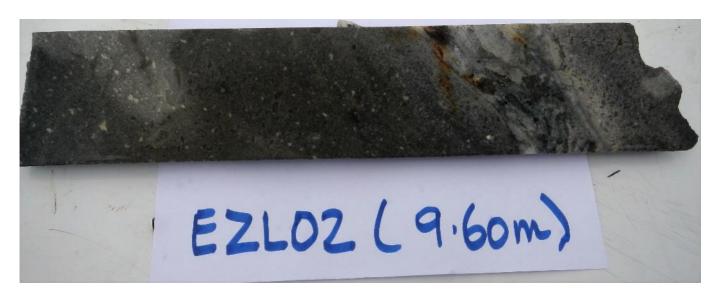


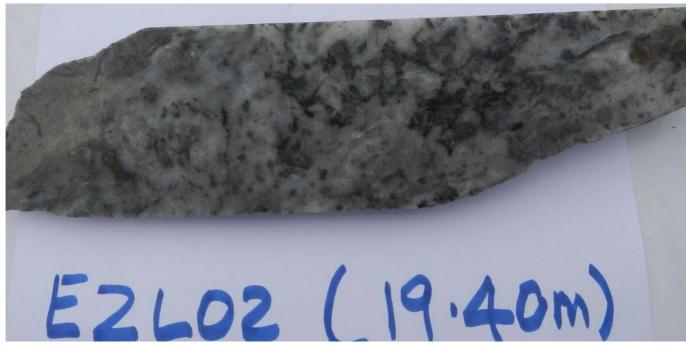




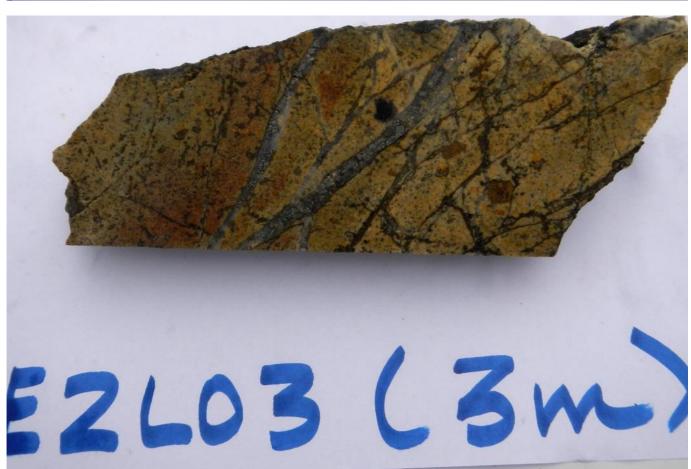


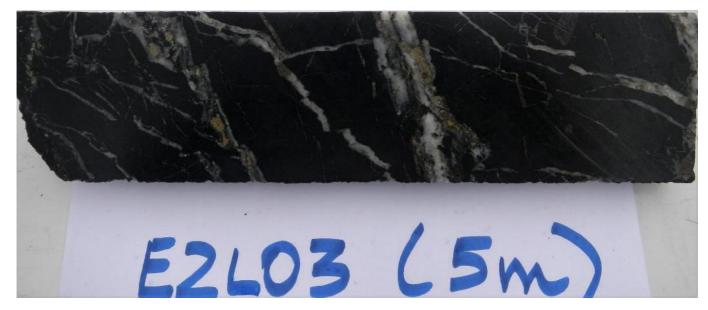






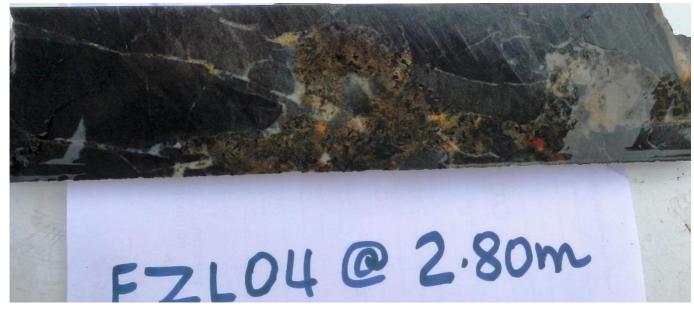




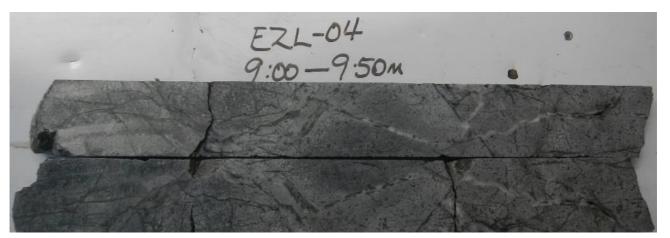




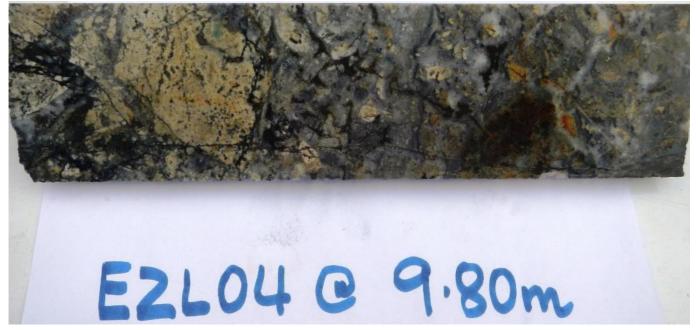




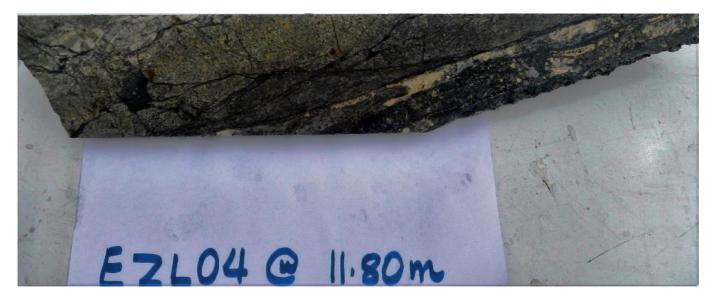


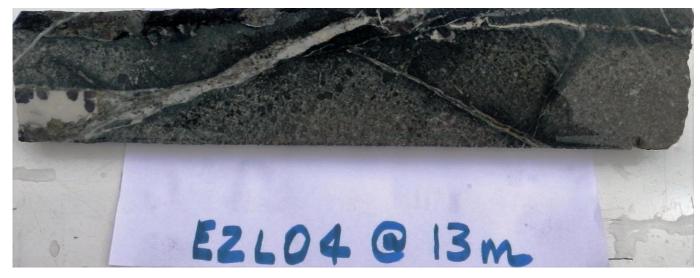








































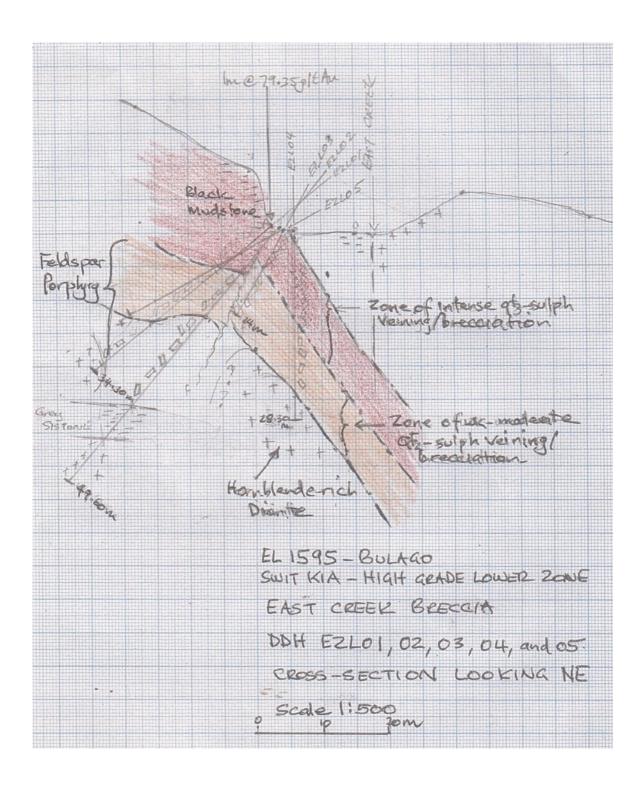


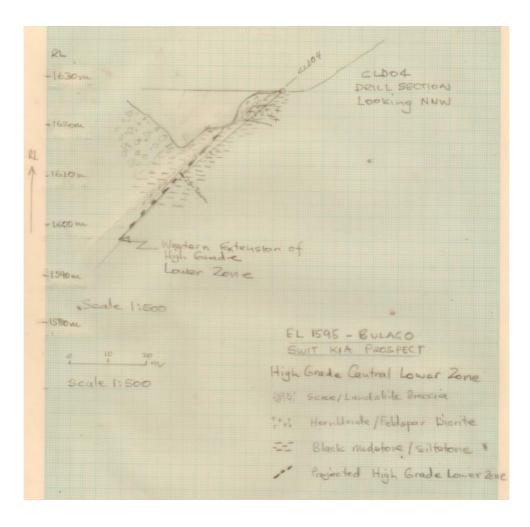


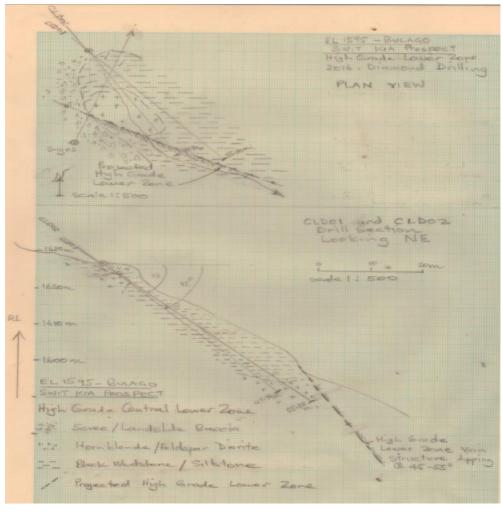


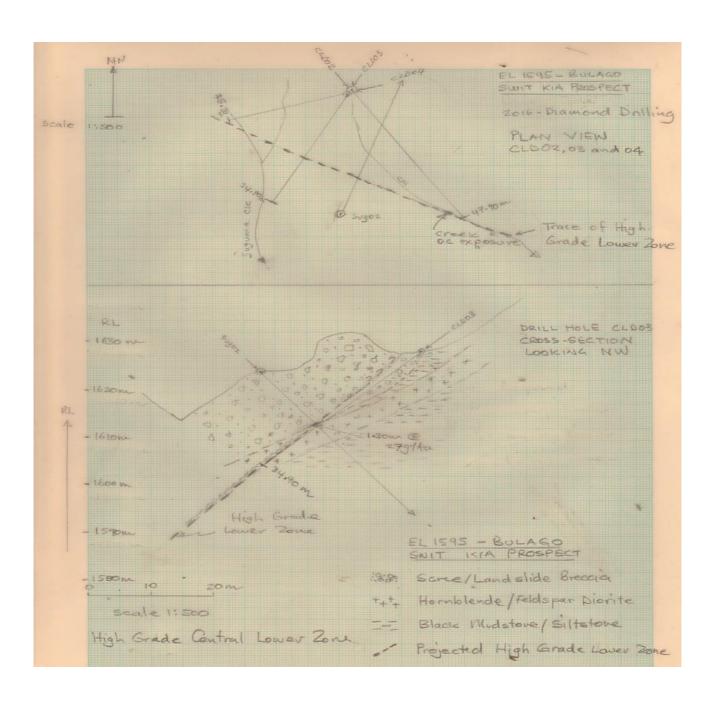






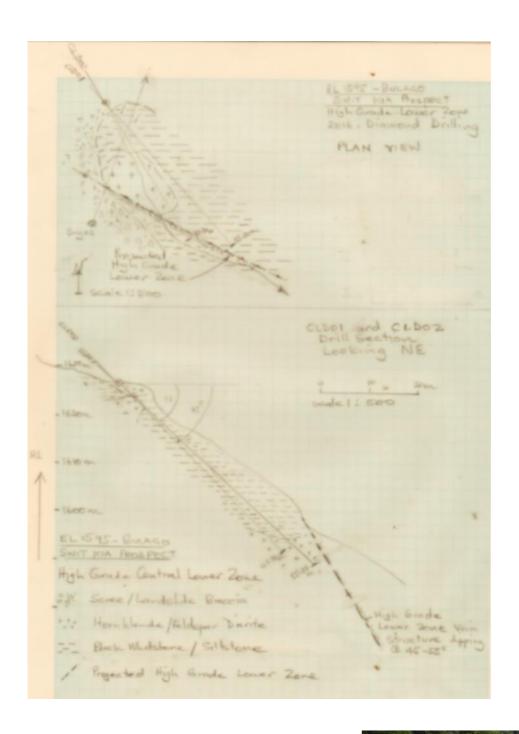






Frontier Resources Ltd Exploration Licence Information							
	Licence No.	Date From	Date To	Ownership	Area (SQ KM)	Lat. Sub Blocks	
Bulago River*	EL 1595	7/07/2014	6/7/2016	100% Frontier Gold PNG Ltd	100	30	
Muller Range	EL 2356	31/12/2015	30/12/2017	100% Frontier Copper PNG Ltd	330	99	
Sewatupwa River	ELA 2476	Application only		90% Frontier Copper PNG Ltd	436	131	
Lake Lavu	ELA 2477	Application only		90% Frontier Copper PNG Ltd	839	252	
* Under renewal - Hearing completed					1,705	SQ KM	

NB: The Papua New Guinea Mining Act of 1992 stipulates that ELs are granted for renewable 2 year Terms (subject to Work and Financial Commitments) and the PNG Government maintains the right to purchase up to 30% project equity at "Sunk Cost" if/when a Mining Lease is granted.



For additional information please visit our website at www.frontierresources.com.au

FRONTIER RESOURCES LTD

St MMS

P.A. McNeil, M.Sc., MAIG Chairman and Managing Director

Competent Person Statement:

The information in this report that relates to Exploration Results is based on information compiled by Peter A. McNeil - Member of the Aust. Inst. of Geoscientists. Peter McNeil is the Chairman/Managing Director of Frontier Resources, who consults to the Company. Peter McNeil has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the



2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter McNeil consents to the Inclusion in the report of the matters based on the information in the form and context in which it appears.

		Section 1 Sampling Technique	es and Data					
Criteria		Explanation			Comme	entary		
Sampling techniques	0	Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down whole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.						
	0	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.						
	0	Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 11m samples from which 3 kg was pulverised to produce a 30g charge for fire assay') In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.						
Drilling techniques	0	Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).				noted		
Drill sample recovery	0	Method of recording and assessing core and chip sample recoveries and results assessed				etic		
,	0	Measures taken to maximise sample recovery and ensure representative nature of the samples.						
	0	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.						
Logging	0	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.						
	0	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.						
	0	The total length and percentage of the relevant intersections logged						
Sub-sampling techniques and	0	If core, whether cut or sawn and whether quarter, half or all core taken.						
sample	0	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.						
preparation	0	For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.						
	0	Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate /second-half sampling.						
	0	Whether sample sizes are appropriate to the grain size of the material being sampled.						
Quality of assay data and laboratory tests	0	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. Appropriate. Quality control procedures adopted (e.g. standards, blanks, duplicates, with total 4 acceptable acceptable acceptable acceptable acceptable acceptable.				ent ICF		
	0	For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.						
Verification of sampling and	0	The verification of significant intersections by either independent or alternative company personnel.						
assaying	0	The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.						
Location of data points	0	Discuss any adjustments to assay data. Accuracy + quality of surveys used to locate drill holes (collar + down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.						
	0		Map datum is AGD 066.	nlanc 10m DTM	ntours			
Data spacing	0	Quality and adequacy of topographic control. Data spacing for reporting of Exploration Results.	40m contours - 1:100,000 As noted herein and refer	•		ails.		
and distribution	0	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied						
Outoutests	0	1 1 0 11						
Orientation of data in relation	0	Whether the orientation of sampling achieves unbiased sampling of possible structures to the extent this is known, considering the deposit type.						
to geological structure	0	If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported.						
Sample security	0	The measures taken to ensure sample security	Normal b	aggage-freight proc	edures			

Audits or reviews	0				audits or reviews of sampling and data have been undertaken.		
		<u> </u>					
		Section 2 Rec	porting of Exploration Results				
Section 2 Reporting of Exploration Results							
Criteria		Explanation	Commentary				
Tenure	0	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.					
Exploration	0	Acknowledgment and appraisal of Exploration in the region in the late 1960s was part of a PNG porphyry cop					
done by others	-	exploration by other parties. deposit search. It was explored for gold initially in the mid 1980's.					
Geology	0	Deposit type, geological setting and style of mineralisation.	etting and Gold intrusive -epithermal related targets, porphyry copper-gold molybdenum and higher grade gold -silver-zinc-lead skarns.				
Drill hole	0	-	r of all information material to the understanding of the exploration results Drilling underway				
information		, and the second			Information tabulated herein.		
		Easting and northing of the drill hole of	collar		Information noted herein.		
		Elevation or RL (Reduced Level- eleva		of the drill	Information noted herein.		
		hole collar	,				
		Dip and azimuth of the hole			nformation noted herein.		
		Down hole length and interception de	epth		Information noted herein.		
	_	Hole length If the exclusion of this information is just	ified on the basis that the inform	ation is not	Information noted herein.		
	0	Material and this exclusion does not det			Not applicable		
		the Competent Person should clearly exp	9	the report,			
Data	0	In reporting Exploration Results, weighti		um and/or	Tables of results included show		
aggregation		minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually			data aggregation if applied.		
methods		Material and should be stated.					
		Where aggregate intercepts incorporate	Is this occurring, it is stated in the				
		longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail			text.		
					No model confinition where are		
	0	The assumptions used for any reporting of metal equivalent values should be clearly stated.			No metal equivalent values are reported.		
Relationship	0	These relationships are particularly impo	rtant in the reporting of Explorati	on Results.	Moderately understood.		
between mineralisation	0	If the geometry of the mineralisation w	ith respect to drill hole angle is	known, its	Reported.		
widths &	o	nature should be reported.					
intercept	U	If it is not known and only the down hole lengths are reported, there should be a					
lengths		clear statement to this effect (e.g. 'down hole length, true width not known').					
Diagrams	0	Appropriate maps and sections (with scales) and tabulations of intercepts should be			Appropriate maps, sections and		
		included for any significant discovery beir limited to a plan view of drill hole collar le	= :		tabulations of intercepts are included.		
Balanced	0	Where comprehensive reporting of a	Comprehensive reporting of				
reporting		representative reporting of both low a	Exploration Results has been				
		practiced to avoid misleading reporting of Exploration Results. previously complete					
Othor		Other evaluation data if magningful and	d material should be reported in	luding /hut	released. All meaningful exploration data		
Other substantive	0	Other exploration data, if meaningful and material should be reported including (but not limited to): geological observations; geophysical survey results; geochemical			has been included in this and		
exploration		survey results; bulk samples - size and method of treatment; metallurgical test results; previous releases.					
data		bulk density, groundwater, geotechn deleterious or contaminating substances	ical and rock characteristics;				
Further work	0	The nature and scale of planned furth extensions or depth extensions or large-s	ned further work (e.g. tests for lateral Future work is dependent capital and				
	0	Diagrams clearly highlighting the areas o		-	e plans will be included, as soon as		
				in a later release documenting			
		this information is not commercially sens			uture work programs.		