



Zonge Engineering and Research Organization (Australia) Pty Ltd

Bigryli
Gradient Array Induced Polarisation Survey

Logistics Summary

September - December 2012

For

Energy Metals Limited

Compiled by:

A Khrapov

Report No: 980

Date : January 2013

Zonge Engineering & Research Organization (Australia) Pty Ltd

39 Raglan Avenue Edwardstown SA 5039

Tel +61 8 83710020 Fax +61 8 83710080

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Job 980 Production Summary

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Pre Survey Information provided by Energy Metals

1. SUMMARY

During September-December 2012, Zonge Engineering and Research Organization (Zonge) mobilised a three-person geophysical field crew to the Bigryli project near Vaughan Station in NT to conduct a Gradient Array Induced Polarisation (GradIP) survey for Energy Metals Limited. Information specific to this survey as provided to Zonge by Energy may be found within the "Survey_Info" folder on the accompanying disc. Pre-survey information provided by Energy is presented in Appendix II.

A time domain GradIP survey providing up to 8 channels simultaneously with 25 metre dipoles and 50 metre line spacing was used and provided 4476 data points over 193 lines and approximately 113.6 line kilometres.

Data quality and repeatability were monitored throughout the course of the survey which ensured that the best possible data was acquired given local conditions and time constraints. At the request of Energy Metals data was provided to Michael Sykes of Southern Geoscience Consultants during the survey for review.

2. IP INSTRUMENTATION

A GDD GRX-32 IP receiver was used to take all of the data for this project. Data was recorded using single conductor wires connected to porous ceramic pots filled with copper sulphate to provide non-polarisable receiver electrodes.

IP transmitted fields were generated using a Zonge GGT-30 Geophysical Transmitter. Signal frequency was controlled directly by a Zonge XMT controller; synchronisation with transmitted waveform is achieved automatically by the receiver.

The raw data from each day was downloaded every evening from the receiver to a laptop computer and emailed to Zonge's Adelaide office. Data quality control and editing were completed in Zonge Engineering's Adelaide office.

3. IP SURVEY PARAMETERS

All data recorded during this survey was taken using the GDD GRX-32 Time Domain IP receiver using a frequency of 0.125 Hertz. Chargeability (Mx) is recorded on the receiver using a calculation over 13 logarithmically spaced windows, decay magnitudes are also recorded so that Mx can be redefined in processing. Receiver dipole length and station spacing was 25m on all lines.

Data were recorded using 25m receiver dipoles and line spacing of 50m. Lines were all of the same length however it was not possible to read all planned stations on all grids due to rough terrain such as cliffs. In these instances where stations were considered unsafe to read they were skipped. Station numbers reflect distance along line in metres with local line numbers reflecting distance in metres from the southern extent of the grid. First number in line coordinate reflects grid number. Line specifications are listed below in Table 1, all UTM coordinates provided are in GDA94 z52.

Table 1 Survey line specifications

Line	Grid	Start Station*			End Station*			Stations	Line length (m)**
		Local	UTM		Local	UTM			
		m	mE	mN	m	mE	mN		
10000	1	25	710784	7541319	625	710530	7541863	24	600
10050	1	25	710829	7541340	625	710575	7541884	24	600
10100	1	25	710874	7541361	625	710621	7541905	24	600
10150	1	25	710920	7541382	625	710666	7541926	24	600
10200	1	25	710965	7541403	625	710711	7541947	24	600
10250	1	25	711010	7541424	625	710757	7541968	24	600
10300	1	25	711056	7541446	625	710802	7541989	24	600
10350	1	25	711101	7541467	625	710847	7542010	24	600
10400	1	25	711146	7541488	625	710893	7542032	24	600
10450	1	25	711192	7541509	625	710938	7542053	24	600
10500	1	25	711237	7541530	625	710983	7542074	24	600
10550	1	25	711282	7541551	625	711029	7542095	24	600
20000	2	25	711329	7541572	625	711076	7542116	24	600
20050	2	25	711374	7541593	625	711121	7542137	24	600
20100	2	25	711420	7541615	625	711166	7542158	24	600
20150	2	25	711465	7541636	625	711212	7542179	24	600
20200	2	25	711510	7541657	625	711257	7542201	24	600
20250	2	25	711556	7541678	625	711302	7542222	24	600
20300	2	25	711601	7541699	625	711347	7542243	24	600
20350	2	25	711646	7541720	625	711393	7542264	24	600
20400	2	25	711692	7541741	625	711438	7542285	24	600
20450	2	25	711737	7541762	625	711483	7542306	24	600
20500	2	25	711782	7541784	625	711529	7542327	24	600
20550	2	25	711828	7541805	625	711574	7542348	24	600
20600	2	25	711873	7541826	625	711619	7542370	24	600
30600	3	25	714849	7541610	625	715102	7542154	24	600
30550	3	25	714894	7541589	625	715149	7542132	24	600
30500	3	25	714940	7541567	625	715193	7542111	23	600
30450	3	25	714985	7541546	625	715238	7542090	24	600
30400	3	25	715030	7541525	625	715284	7542069	24	600
30350	3	25	715075	7541504	625	715329	7542048	24	600
30300	3	25	715121	7541483	625	715374	7542027	24	600
30250	3	25	715166	7541462	625	715420	7542001	24	600
30200	3	25	715211	7541441	625	715465	7541984	24	600
30150	3	25	715257	7541420	625	715510	7541963	24	600
30100	3	25	715302	7541398	625	715556	7541942	24	600
30050	3	25	715347	7541377	625	715601	7541921	20	600
30000	3	25	715393	7541356	625	715646	7541900	20	600
40000	4	25	717105	7540886	625	717169	7541482	21	600
40050	4	25	717154	7540880	625	717219	7541477	21	600
40100	4	25	717204	7540875	625	717269	7541472	20	600
40150	4	25	717254	7540870	625	717318	7541466	20	600
40200	4	25	717303	7540864	625	717368	7541461	22	600
40250	4	25	717353	7540859	625	717418	7541455	22	600
40300	4	25	717403	7540853	625	717467	7541450	20	600
40350	4	25	717453	7540848	625	717517	7541445	20	600

Line	Grid	Start Station*			End Station*			Stations	Line length (m)**
		Local	UTM		Local	UTM			
		m	mE	mN	m	mE	mN		
40400	4	25	717502	7540843	625	717567	7541439	22	600
40450	4	25	717552	7540837	625	717617	7541434	19	600
40500	4	25	717602	7540832	625	717666	7541428	22	600
40550	4	25	717651	7540827	625	717716	7541423	22	600
40600	4	25	717701	7540821	625	717766	7541418	22	600
50000	5	25	735781	7522088	625	735781	7522688	24	600
50050	5	25	735831	7522088	625	735831	7522688	24	600
50100	5	25	735881	7522088	625	735881	7522688	24	600
50150	5	25	735931	7522088	625	735931	7522688	24	600
50200	5	25	735981	7522088	625	735981	7522688	24	600
50250	5	25	736031	7522088	625	736031	7522688	24	600
50300	5	25	736081	7522088	625	736081	7522688	24	600
50350	5	25	736131	7522088	625	736131	7522688	24	600
50400	5	25	736181	7522088	625	736181	7522688	24	600
50450	5	25	736231	7522088	625	736231	7522688	24	600
50500	5	25	736281	7522088	625	736281	7522688	24	600
50550	5	25	736331	7522088	625	736331	7522688	24	600
60000	6	25	736379	7522088	625	736379	7522688	24	600
60050	6	25	736429	7522088	625	736429	7522688	24	600
60100	6	25	736479	7522088	625	736479	7522688	24	600
60150	6	25	736529	7522088	625	736529	7522688	24	600
60200	6	25	736579	7522088	625	736579	7522688	24	600
60250	6	25	736629	7522088	625	736629	7522688	24	600
60300	6	25	736679	7522088	625	736679	7522688	24	600
60350	6	25	736729	7522088	625	736729	7522688	24	600
60400	6	25	736779	7522088	625	736779	7522688	24	600
60450	6	25	736829	7522088	625	736829	7522688	24	600
60500	6	25	736879	7522088	625	736879	7522688	24	600
60550	6	25	736929	7522088	625	736929	7522688	24	600
60600	6	25	736979	7522088	625	736979	7522688	24	600
70000	7	25	735131	7522088	625	735131	7522688	24	600
70050	7	25	735181	7522088	625	735181	7522688	24	600
70100	7	25	735231	7522088	625	735231	7522688	24	600
70150	7	25	735281	7522088	625	735281	7522688	24	600
70200	7	25	735331	7522088	625	735331	7522688	24	600
70250	7	25	735381	7522088	625	735381	7522688	24	600
70300	7	25	735431	7522088	625	735431	7522688	24	600
70350	7	25	735481	7522088	625	735481	7522688	24	600
70400	7	25	735531	7522088	625	735531	7522688	24	600
70450	7	25	735581	7522088	625	735581	7522688	24	600
70500	7	25	735631	7522088	625	735631	7522688	24	600
70550	7	25	735681	7522088	625	735681	7522688	24	600
70600	7	25	735731	7522088	625	735731	7522688	24	600
80000	8	25	737030	7522088	625	737030	7522688	24	600
80050	8	25	737080	7522088	625	737080	7522688	24	600
80100	8	25	737130	7522088	625	737130	7522663	24	600
80150	8	25	737130	7522688	625	737180	7522688	24	600

Line	Grid	Start Station*			End Station*			Stations	Line length (m)**
		Local	UTM		Local	UTM			
		m	mE	mN	m	mE	mN		
80200	8	25	737230	7522088	625	737230	7522688	24	600
80250	8	25	737280	7522088	625	737280	7522688	24	600
80300	8	25	737330	7522088	625	737330	7522688	24	600
80350	8	25	737380	7522088	625	737380	7522688	24	600
80400	8	25	737430	7522088	625	737430	7522688	24	600
80450	8	25	737480	7522088	625	737480	7522688	24	600
80500	8	25	737530	7522088	625	737530	7522688	24	600
80550	8	25	737580	7522088	625	737580	7522688	24	600
80600	8	25	737630	7522088	625	737630	7522688	24	600
90000	9	25	734480	7522487	625	734480	7523087	24	600
90050	9	25	734530	7522487	625	734530	7523087	24	600
90100	9	25	734580	7522487	625	734580	7523087	24	600
90150	9	25	734630	7522487	625	734630	7523087	24	600
90200	9	25	734680	7522487	625	734680	7523087	24	600
90250	9	25	734730	7522487	625	734730	7523087	24	600
90300	9	25	734780	7522487	625	734780	7523087	24	600
90350	9	25	734830	7522487	625	734830	7523087	24	600
90400	9	25	734880	7522487	625	734880	7523087	24	600
90450	9	25	734930	7522487	625	734930	7523087	24	600
90500	9	25	734980	7522487	625	734980	7523087	24	600
90550	9	25	735030	7522487	625	735030	7523087	24	600
90600	9	25	735080	7522487	625	735080	7523087	24	600
100000	10	25	737680	7522187	625	737680	7522787	24	600
100050	10	25	737730	7522187	625	737730	7522787	24	600
100100	10	25	737780	7522187	625	737780	7522787	24	600
100150	10	25	737830	7522187	625	737830	7522787	24	600
100200	10	25	737880	7522187	625	737880	7522787	24	600
100250	10	25	737930	7522187	625	737930	7522787	24	600
100300	10	25	737980	7522187	625	737980	7522787	24	600
100350	10	25	738030	7522187	625	738030	7522787	24	600
100400	10	25	738080	7522187	625	738080	7522787	24	600
100450	10	25	738130	7522187	625	738130	7522787	24	600
100500	10	25	738180	7522187	625	738180	7522787	24	600
100550	10	25	738230	7522187	625	738230	7522787	24	600
100600	10	25	738280	7522187	625	738280	7522787	24	600
11000	11	25	733829	7522612	625	733829	7523212	24	600
11050	11	25	733879	7522612	625	733879	7523212	24	600
11100	11	25	733929	7522612	625	733929	7523212	24	600
11150	11	25	733979	7522612	625	733979	7523212	24	600
11200	11	25	734029	7522612	625	734029	7523212	24	600
11250	11	25	734079	7522612	625	734079	7523212	24	600
11300	11	25	734129	7522612	625	734129	7523212	24	600
11350	11	25	734179	7522612	625	734179	7523212	24	600
11400	11	25	734229	7522612	625	734229	7523212	24	600
11450	11	25	734279	7522612	625	734279	7523212	24	600
11500	11	25	734329	7522612	625	734329	7523212	24	600
11550	11	25	734379	7522612	625	734379	7523212	24	600

Line	Grid	Start Station*			End Station*			Stations	Line length (m)**
		Local	UTM		Local	UTM			
		m	mE	mN	m	mE	mN		
11600	11	25	734429	7522612	625	734429	7523212	24	600
12000	12	25	733180	7522787	625	733180	7523387	24	600
12050	12	25	733230	7522787	625	733230	7523387	24	600
12100	12	25	733280	7522787	625	733280	7523387	24	600
12150	12	25	733330	7522787	625	733330	7523387	24	600
12200	12	25	733380	7522787	625	733380	7523387	24	600
12250	12	25	733430	7522787	625	733430	7523387	24	600
12300	12	25	733480	7522787	625	733480	7523387	24	600
12350	12	25	733530	7522787	625	733530	7523387	24	600
12400	12	25	733580	7522787	625	733580	7523387	24	600
12450	12	25	733630	7522787	625	733630	7523387	24	600
12500	12	25	733680	7522787	625	733680	7523387	24	600
12550	12	25	733730	7522787	625	733730	7523387	24	600
12600	12	25	733780	7522787	625	733780	7523387	24	600
13000	13	25	733829	7523237	625	733829	7523837	24	600
13050	13	25	733879	7523237	625	733879	7523837	24	600
13100	13	25	733929	7523237	625	733929	7523837	24	600
13150	13	25	733979	7523237	625	733979	7523837	24	600
13200	13	25	734029	7523237	625	734029	7523837	24	600
13250	13	25	734079	7523237	625	734079	7523837	24	600
13300	13	25	734129	7523237	625	734129	7523837	24	600
13350	13	25	734179	7523237	625	734179	7523837	24	600
13400	13	25	734229	7523237	625	734229	7523837	24	600
13450	13	25	734279	7523237	625	734279	7523837	24	600
13500	13	25	734329	7523237	625	734329	7523837	24	600
13550	13	25	734379	7523237	625	734379	7523837	24	600
13600	13	25	734429	7523237	625	734429	7523837	24	600
14000	14	25	716469	7541057	625	716533	7541653	24	600
14050	14	25	716519	7541051	625	716583	7541648	24	600
14100	14	25	716568	7541046	625	716633	7541643	21	600
14150	14	25	716618	7541041	625	716683	7541637	19	600
14200	14	25	716668	7541035	625	716732	7541632	19	600
14250	14	25	716717	7541030	625	716782	7541626	19	600
14300	14	25	716767	7541024	625	716832	7541621	24	600
14350	14	25	716817	7541019	625	716881	7541616	24	600
14400	14	25	716867	7541014	625	716931	7541610	24	600
14450	14	25	716916	7541008	625	716981	7541605	24	600
14500	14	25	716966	7541003	625	717031	7541599	24	600
14550	14	25	717016	7540998	625	717080	7541594	24	600
14600	14	25	717065	7540992	625	717130	7541589	24	600
16000	16	25	715823	7541127	225	715855	7541426	8	200
16050	16	25	715873	7541122	225	715905	7541420	8	200
16100	16	25	715923	7541116	325	715955	7541415	12	300
16150	16	25	715972	7541112	350	716007	7541435	13	325
16200	16	25	716022	7541106	350	716057	7541429	12	325
16250	16	25	716072	7541101	350	716107	7541423	12	325
16300	16	25	716121	7541095	350	716156	7541418	13	325

Line	Grid	Start Station*			End Station*			Stations	Line length (m)**
		Local	UTM		Local	UTM			
		m	mE	mN	m	mE	mN		
16350	16	25	716171	7541090	625	716236	7541687	24	600
16400	16	25	716221	7541085	625	716285	7541681	24	600
16450	16	25	716270	7541079	625	716335	7541676	24	600
16500	16	25	716320	7541073	625	716385	7541670	24	600
16550	16	25	716370	7541068	625	716434	7541665	24	600
16600	16	25	716420	7541063	625	716484	7541659	24	600
Total Stations / Line Length(km):								4476	113.6

* Start and End locations are taken from maximum extent of receiver electrodes.

** Line length is taken from maximum extent of receiver electrodes.

4. PRODUCTION ISSUES AND SUMMARY

Minor delays or problems were encountered during the survey due to equipment issues such as the failure of the transmitter generator alternator, in all instances repairs were effected in the field. In general however longer than usual preparation and reading time was experienced due to reduced vehicle access and rough terrain in areas.

Three incidents occurred during the survey:

- Trailer spare tyre became detached from its mounting and rolled under trailer causing the trailer to roll over;
- Oncoming truck travelling too fast around a tight bend caused its trailer to swing onto the wrong side of the road, resulting in a near miss;
- Hired vehicle's tyre became detached when travelling at 100kph.

All safety information and other documentation produced by Zonge or provided to Zonge in execution of this survey, including the above incident reports can be found on accompanying disc under "*Safety_Documentation*".

Appendix I provides a summary of the production of Job 986. More detailed information on daily production may be found on the accompanying disc under "*Production Reports*".

5. DATA PROCESSING

The quality of each block of raw GradIP data was examined and edited using Scientific Computing Applications TQIP software before being averaged to create a single averaged record for each data point. Blocks or channels that were considered of poor quality were skipped before averaging each station's data. All raw data taken during this survey as well as TQIP database are included on the accompanying disc so that this data may be re-averaged if necessary. Data was provided to Michael Sykes of Southern Geoscience Consultants during the survey for review.

No plotting, modelling or interpretation was performed by Zonge.

6. EXPLANATION OF FILES

Digital data is provided on CD along with paper plots of the data. Data from each surveyed line are placed in the following directory structure on the accompanying CD:

Processed_Data\line#. File formats are explained below:

*.DAT	AMIRA style text files containing averaged and edited resistivity and chargeability information produced by TQIP
*.KML	Google Earth file containing line and station positions and labels
*.MDB	TQIP database containing all survey data
*.PDF	Adobe Acrobat Portable Document File containing plot files, field reports and logistics report
*.STN	Text files containing station number, easting, northing and elevation information for each line
*.DAT, *.GDD	raw data as downloaded from the GDD receiver

APPENDIX I

Job 980 Production Summary



Zonge Engineering & Research Organization (Aust) Pty Ltd

JOB HOURS SUMMARY

Job No.: 980
 Client: Energy Metals
 Project Name: Biglyi
 Summary Sheet: 1 of 1 - Part 1

Date: 28th September, 2012
 By: Peter Reece

DATE	Production Hours					Misc Hours			Equipment Hire		Zonge Hours	Comments
	Mobe	man	3 man	2 man	1 man	Travel (3man)	Standby (3 man)	Weather (3man)	ATV	Vehicle		
Fri-28/9/12											10	Travel from Adelaide to Alice Springs - collect equipment + vehicles - overnight
Sat-29/9/12	6										10.5	Mobilisation from Alice Springs to Biglyi camp
Sun-30/9/12							2.5				7.5	Inductions & prepare survey equipment
Mon-1/10/12			4						1		13	Setup TX cables
Tue-2/10/12			11						1		0.5	Setup TX & RX cables
Wed-3/10/12			11.5						1		0.5	Complete Tx set up and acquire data.
Thu-4/10/12			11						1		1	Acquire data grid 1
Fri-5/10/12			11.5						1		1	Acquire data grid 1
Sat-6/10/12			12						1		1	Acquire data grid 1
Sun-7/10/12			11						1		1	Acquire data grid 1
Mon-8/10/12			11.5						1		0.5	Move TX wires to Grid 2
Tue-9/10/12			11.5						1		0.5	Acquire data on grid 2
Wed-10/10/12			11.5						1		0.5	Acquire data on grid 2
Thu-11/10/12			11.5						1		0.5	Acquire data on grid 2
Fri-12/10/12			1.5						1		10.5	Drive to Alice Springs for spare parts
Sat-13/10/12					7				1		13	Collect spare parts & drive to camp - 1 crew prep grids 5 & 6
Sun-14/10/12			9.5						1		3	Acquire data & pack up grid 2
Mon-15/10/12			12						1		1	Complete pickup of Grid 2 + Set up grid 5
Tue-16/10/12			13.5						1		1	Acquired data grid 5
Wed-17/10/12			13						1		0.5	Acquired data grid 5
Thu-18/10/12			11						1		1	Dig & prepare pits on grids 5 & 6
Fri-19/10/12			12						1		0.5	Acquire Data grid 5
Sat-20/10/12			12.5						1		0.5	Acquire Data grid 6
Sun-21/10/12			11						1		0.5	Flag & GPS grid 6
Mon-22/10/12			12.5						1		1	Acquire data on grid 6
Tue-23/10/12			12.5	1					1		1	Acquire data on grid 6
Wed-24/10/12			11.5						1		0.5	Acquire data on grid 6
Thu-25/10/12			10.5						1		0.5	Prepare electrodes for grid 3
Fri-26/10/12			6.5			9.5			1		5.5	Complete electrode setup for grid 3 - prep for crew swapout - 2nd crew travel to site
Sat-27/10/12		2	6.5			5			1		2.75	Crew change over, inductions, take data grid 3, computer work
TOTAL HOURS												
TOTALS	Mobe	man	3 man	2 man	1 man	Travel (3man)	Standby (3 man)	Weather (3man)	ATV	Vehicle	Zonge Hours	
Sub Totals	6	2	274	1	7	14.5	2.5	0	27	0	90.75	
Totals	6	2	274	1	7	14.5	2.5	0	27	0	90.75	
Rate p/hr	152.5	440	305	260	215	152.5	152.5	0	120	0	0	
Billable Total	\$915.00	\$880.00	\$83,570.00	\$2 0.00	\$1,505.00	\$2,211.25	\$381.25	\$0.00	\$3,240.00	\$0.00	\$0.00	



Job No.: **980**
Client: **Energy Metals**
Project Name: **Bigirlyi**
Drawing Sheet: **1 of 1 - Part 3**

Date: 28th October, 2012
By: Tim Marshall David Clinton

23/01/2013

Zonge Engineering & Research Organization (Aust) Pty Ltd

JOB HOURS SUMMARY

Job No.: 980

Client: Energy Metals

Project Name: Bigrlyi

Summary Sheet: 1 of 1 - Part 5

Date: 1st December, 2012

By: David Clinton

[illegible]

28/12/2012

APPENDIX II

Pre Survey Information provided by Energy Metals



PRE SURVEY CLIENT CHECKLIST

Survey Details (Please attach maps or relevant documents)

1.	Zonge Job Number:	980
2.	Client Company:	Energy Metals Limited
3.	Client Representative(s) Planning Survey:	Paul Dunbar (Energy Metals: Paul@energymetals.net) Bruce Craven (SGC: Bruce@sgc.com.au) Pavel Jurza (SGC: Pavel@sgc.com.au) Liz Pugsley (SGC: Liz@sgc.com.au)
4.	Survey / Project Name:	Bigryli (Vaughan Station, NT)
5.	Exploration License Number:	EL24453, ERL51, ERL52, ERL55
6.	Coordinate Datum / Zone to be used:	GDA94 / MGA Zone 52
7.	Survey Type:	Gradient and Dipole-Dipole IP
8.	Station / Dipole Spacing:	Gradient IP: 25m stations/50m dipoles Dipole-Dipole IP:
9.	Frequency:	0.125hz (Time domain)
10.	Data coverage required for IP (eg $n=1-8$):	Gradient: 50m line separation, 600m lines Dipole-Dipole:
11.	Can the crew contact the client representative out of hours (weekends) if necessary?	Pavel Jurza, mob: 043 487 1809 Paul Dunbar Mob 0433 761 500
12.	Will Zonge be required to perform specific processing or inversion modeling on the data acquired?	No
13.	Will the client require a hardcopy of the logistics report as well as digital?	No



PRE SURVEY CLIENT CHECKLIST

Site Details (please provide information where possible)

14.	Crew Accommodation:	Client supplied camp (see Camp Acces.docx)
15.	Client contact for crew (<i>name, phone and email</i>):	<p>Stuart Kerr 08 8956 4944 – Bigrlyi camp number 08 9322 6904 – Perth office stuart@energymetals.net</p> <p>but if on field break then;</p> <p>Paul Dunbar 0433761500 - Mobile 08 8956 4944 – Bigrlyi camp number paul@energymetals.net</p>
16.	Relevant site liaison contacts (<i>name, phone and email</i>):	<p>Stuart Kerr / Bigrlyi Camp staff 08 8956 4944 – camp number stuart@energymetals.net</p>
17.	Will Zonge crew be required to contact landowners or other external interested parties?	No
18.	Level of mobile phone coverage at accommodation or survey area:	None, sat phone only (field) and Bigrlyi camp landline
19.	Please describe level of vehicle access along survey lines and expected topography (<i>attach photos or maps if possible</i>):	Vehicle access is good, some high ridges to negotiate for control points, should be able to drive around and up the valleys. Maps attached – air photo with tracks and IP grids etc Energy Metals staff can show Zonge access if required. Quad bike would be of use.
20.	Known obstacles along lines (<i>fences, roads etc</i>):	Main road into camp and some ridges mentioned above.
21.	Are cultural noise sources present (<i>power lines, fences, houses etc</i>)?	There could be some drill rods stuck in the ground?
22.	Please describe access to nearest water source, both potable and non potable:	<p>Nearest potable water source is the Bigrlyi Camp</p> <p>Non potable water is available from the turkeys nest water bore 700m east of A15 survey area</p>
23.	Are large volumes of water available for grounded electrodes (<i>up to ~2000L/day</i>)?	Yes



PRE SURVEY CLIENT CHECKLIST

24.	Are there cultural or environmental restrictions the crew should be aware of?	No environmental restrictions <i>Camp is dry i.e. absolutely no alcohol</i>
25.	Please describe nearest refueling location <i>(diesel and petrol):</i>	Bigrlyi Camp – diesel only Yuendumu – petrol and diesel If required Petrol can be supplied or stored at Bigrlyi
26.	Do you require daily or scheduled contact with crew?	Yes – the Bigrlyi Camp will require routine sched calls
27.	Will the crew be required to work around other personnel?	Possible drilling at Camel Flat
28.	Please describe requirements (if any) for crew to work on site <i>(induction, drug test, PPE etc):</i>	Camp and site induction
29.	Have the lines been flagged prior to crew arrival?	No
30.	What level of rehabilitation of transmitter electrodes is required?	Yes, please rehabilitate electrode locations
31.	Will a client based Emergency Response Plan be available? <i>(If so please attach copy)</i>	Yes (on site copy will be available and is part of the induction)
32.	Will there be stock or animals in the survey area?	Likely camels, cattle, kangaroos and dingos
33.	Describe any site vehicle requirements: <i>e.g. no split rims, flashing lights etc.</i>	No site vehicle requirements

Form reviewed by _____ Stuart Kerr _____ on behalf of Client

Date: _____ 12/09/2012 _____

Form reviewed by _____ on behalf of Zonge Engineering Australia

Date: _____



PRE SURVEY CLIENT CHECKLIST

Form reviewed by _____ on behalf of Zonge Engineering
Australia

Date: _____