

Metalsgrove Mining Ltd

Airborne Geophysical Survey Operations Report

Tenez

THOMSON AIRBORNE

Geophysical Survey



Thomson Airborne Job
F22046



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PART 1 - SPECIFICATIONS FOR AIRBORNE GEOPHYSICAL SURVEY

1.1 SURVEY DETAILS

Start Date	18/08/2022
End Date	31/08/2022
Time Base - Magnetics	20 Hz
Time Base - Radiometrics	2 Hz
Base Mag Locations	Jervois Station
Base Mag Locations	Alice Springs
Ground Cals Locations	Jervois Station
Ground Cals Locations	Alice Springs
Test Line Locations	Jervois Station
Test Line Locations	Alice Springs
Block 1	Edwards Creek
Block 2	Bruce
Block 3	Box Hole
Total Processed Line Kilometers	6099.0



1.2 LOCATION MAP

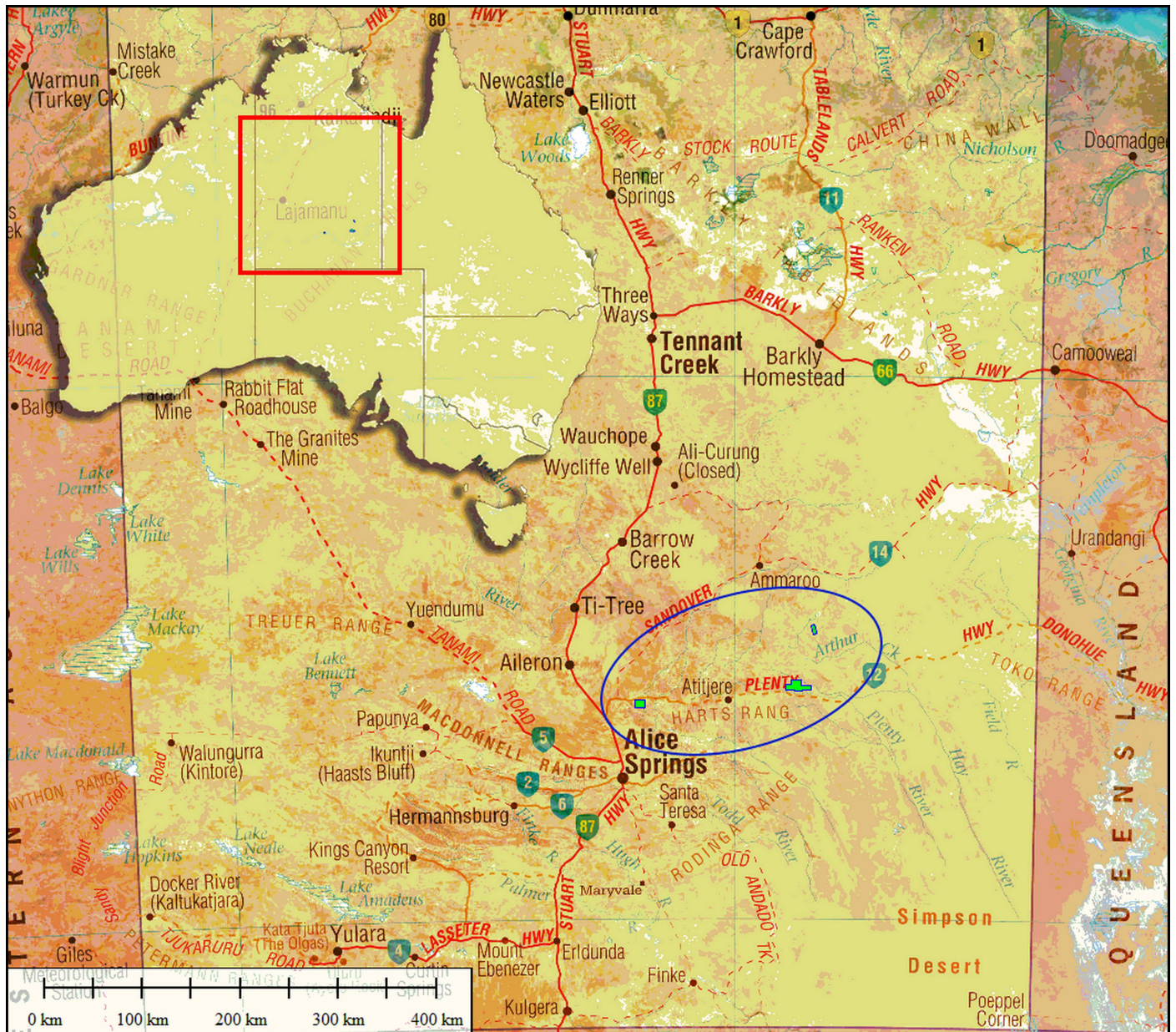


Figure 1 Tenez



1.3 SURVEY SPECIFICATIONS

Edwards Creek	
Traverse line direction	90
Traverse line spacing	100 m
Tie line direction	180
Tie line spacing	1000 m
Block Traverse Kilometers	781
Block Tie Kilometers	92
Block Total Kilometers	873
Mean terrain clearance (m)	35

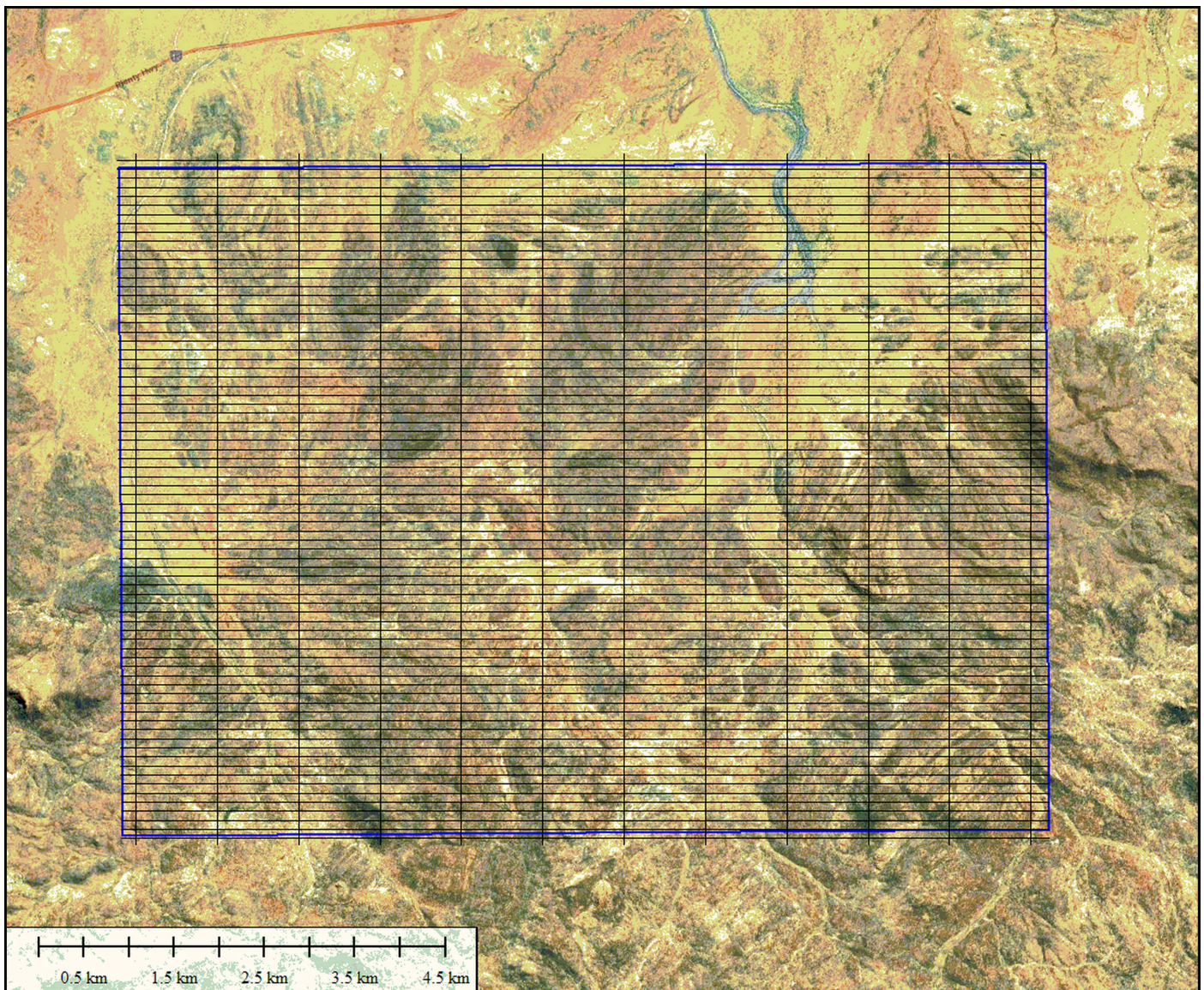


Figure 2 Edwards Creek



SURVEY SPECIFICATIONS (Cont)

Bruce	
Traverse line direction	0
Traverse line spacing	50 m
Tie line direction	90
Tie line spacing	500 m
Block Traverse Kilometers	3,568
Block Tie Kilometers	387
Block Total Kilometers	3,955
Mean terrain clearance (m)	35

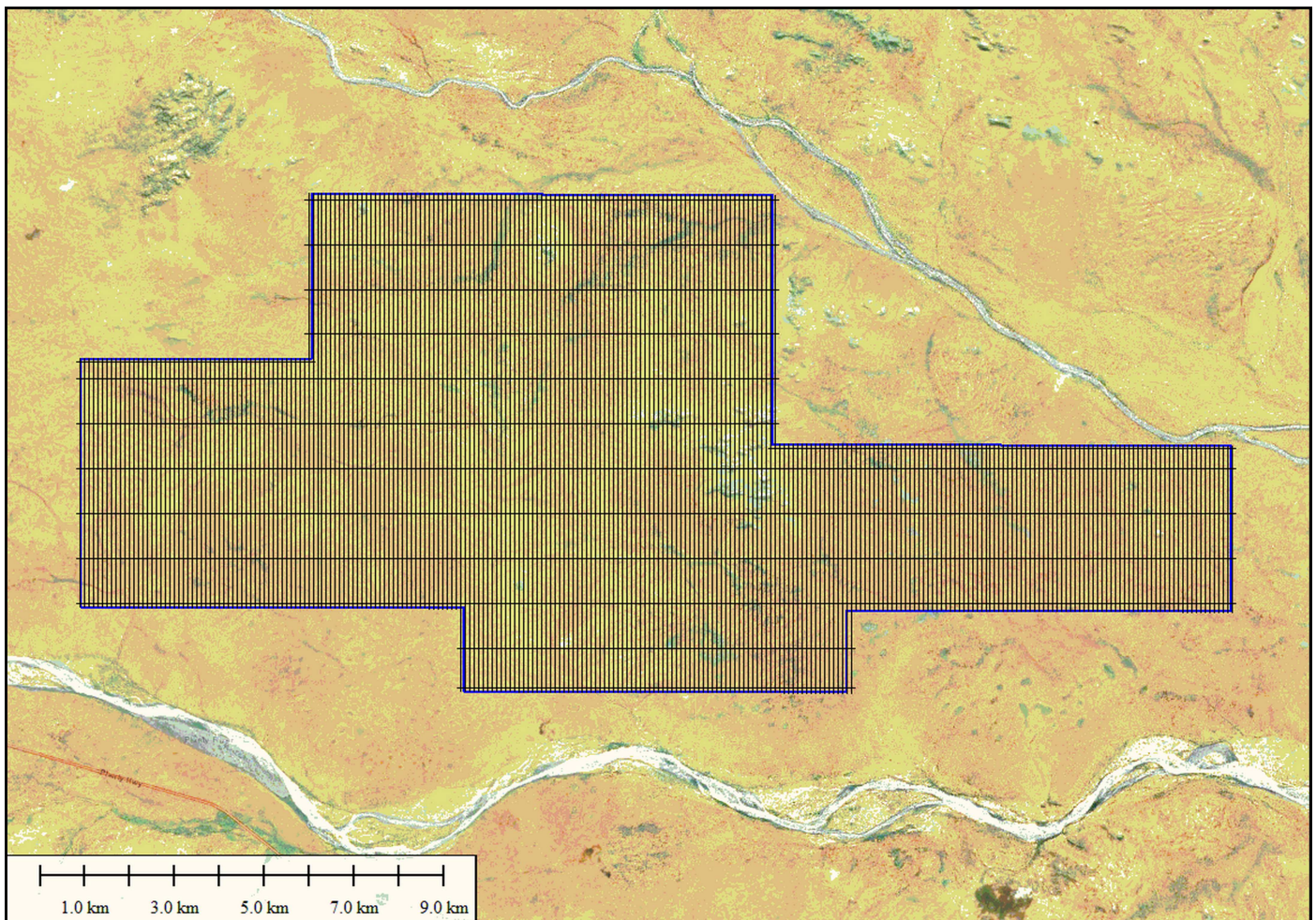


Figure 3 Bruce



SURVEY SPECIFICATIONS (Cont)

Box Hole	
Traverse line direction	75
Traverse line spacing	50 m
Tie line direction	165
Tie line spacing	500 m
Block Traverse Kilometers	1,028
Block Tie Kilometers	121
Block Total Kilometers	1,149
Mean terrain clearance (m)	35

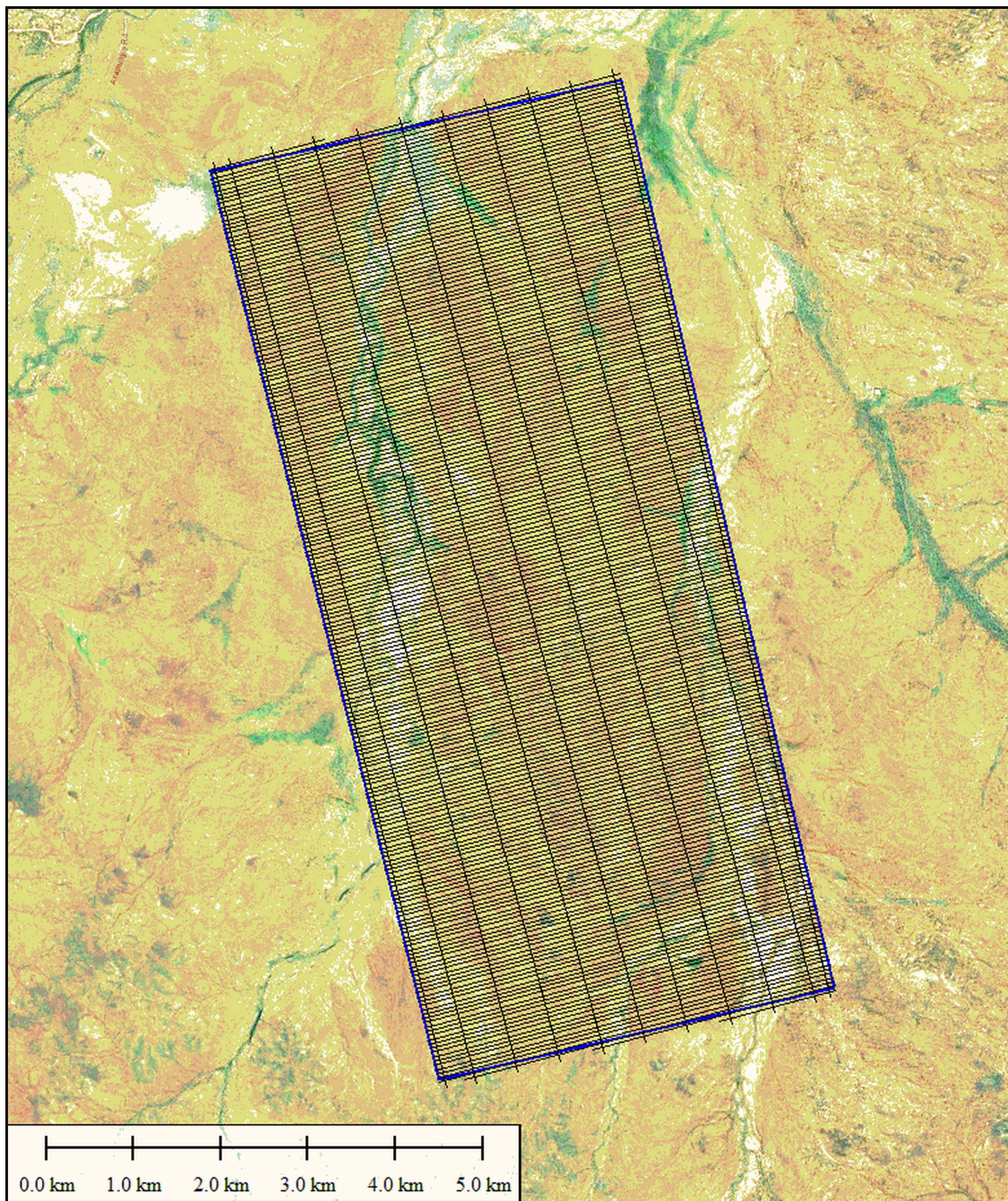


Figure 4 Box Hole



1.4 CALIBRATION RANGE

The radiometric systems for each aircraft were calibrated using the Geoscience Australia calibration range in Carnamah WA to determine the ground concentration coefficients for the radiometric systems.

Cosmic stacks were flown over water to determine the aircraft and cosmic coefficients.

Height attenuation coefficients were determined from IAEA recommended attenuation coefficients.

1.5 IN FIELD CALIBRATION

a) Spectrometer

The gamma ray spectrometer response was verified by exposing the system to thorium test samples for a time sufficient to accumulate 10,000 counts.

Frequency Before the first flight and after the last flight of each day when survey operations were conducted.

All background corrected counts fell within +/- 3% of the mean over the survey period.

Results of thorium test sample measurements can be found in Appendix B and Appendix C.

b) Test Line

Test lines are flown at the specified survey height to verify magnetometer, spectrometer and barometric altimeter baselines.

Length 10km
Direction Bi-Directional
Frequency Before the first flight and after the last flight of each day when survey operations were conducted.

The test line thorium counts fell within +/- 7% of the mean over the survey period.

Results of test line thorium counts can be found in Appendix B and Appendix C

c) Compensation Flight

Compensation flights for all aircraft were carried out to determine how aircraft manoeuvring effects affected the magnetic data. These aircraft induced effects are then removed from the collected magnetic data during data processing.

Frequency Before the commencement of the survey project and after each scheduled maintenance operation.



1.6 IN FIELD VERIFICATION AND PROCESSING

Thomson Airborne conducts stringent real time data validity checks.

The following products were generated on site utilising ChrisDBF and Geosoft database programs as well as Thomson Airborne proprietary software:

- Flight path plots, to demonstrate quality of navigation
- Magnetic stacked profiles, to demonstrate character of magnetic data
- Statistical summary of line data
- Magnetometer base station plots
- Progressive image presentation of magnetic and topographic data
- Daily plots of aircraft parking locations to verify GPS position

1.7 NAVIGATION AND POSITIONING

Navigation was provided using a mobile Novatel OEMV-1 VBS receiver. This equipment provides flight guidance to the pilot as well as flight path information which was recorded for subsequent processing.

Differential GPS data was obtained in real time using static GPS data obtained from the Omnistar wide area GPS service.

Position relative to the survey line was displayed to the pilot by an accurate and effective system proprietary to Thomson Airborne.

Under normal circumstances differential GPS is expected to yield positional accuracies in the order of 5 meters RMS or better.



PART 2 - AIRCRAFT

The aircraft used for survey operations combine good manoeuvrability with a magnetically clean base to provide maximum magnetic sensor performance.

2.1 VH-JEI

Aircraft Information	
Engine	Piston
Fuel	AVGAS
Fuel Burn	65 litres per hour
Typical Survey Speed	130 knots
Stall Speed	60 knots



Figure 5 Example Aircraft: Cessna C210



PART 3 - SURVEY INSTRUMENTATION

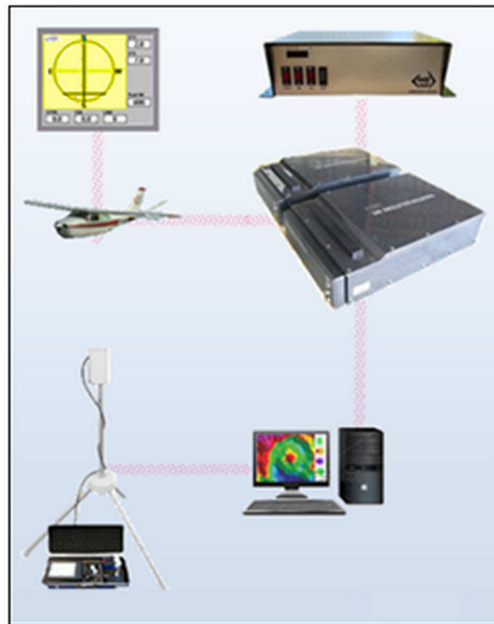


Figure 6 System Outline

3.1 MAGNETOMETER

The Geometrics G822A Magnetometer is a highly sensitive unit incorporating an optically pumped sensor. The constant harmonic frequency from the sensor is proportional to the surrounding scalar magnetic field. This frequency is resolved by the Counter / Processor which provides the magnetic field to a nominal accuracy of 0.001nT with a data capture rate of 20 times per second both in analog and digital formats.

The sensor and pre-amp are mounted in a stinger assembly which may be attached to the front or rear of the survey aircraft.



Figure 7 G822A Magnetometer and Typical Stinger Mounts



3.2 RADAR ALTIMETER

Type: King KRA405B Radar Altimeter



Figure 8 Radar Altimeter

This unit is a high resolution, short pulse ratio altitude system designed for automatic continuous operation over wide variations of terrain and weather conditions, target reflectivity, and aircraft altitude. It provides an accurate terrain clearance indication ranging from 0 to 650m (0 to 2,000ft).

3.3 BAROMETRIC ALTIMETER

Type: Setra 276 Pressure Transducer



Figure 9 Pressure transducer

This type of pressure transducer operates over a range of 600 to 1100 mB and its resolution is limited only by system noise. The sensor is referenced to the height given by the GPS.

3.4 DATA ACQUISITION SYSTEM

Type: GeoZ-ZDAS Digital Data Acquisition System



Figure 10 ZDAS System

The GeoZ system manages the data acquisition and saves the data to removable Flash Cards.

It provides guidance and real time error diagnostics for the pilot.

Acquired data is transferred to a field computer on completion of the flight for both verification and archiving prior to being shipped to the processing centre.



3.5 NAVIGATION EQUIPMENT

Type: Novatel OEMV-1VBS GPS Receiver



Figure 11 GPS Receiver

This equipment is a 12 channel parallel tracking receiver capable of providing sub-meter resolution at 5Hz and is integrated with the GeOZ-ZDAS acquisition unit.

3.6 GAMMA RAY SPECTROMETER SYSTEM

Type: Radiations Solutions Inc. RS 400 Spectrometer

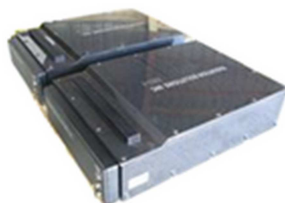


Figure 12 RS 400 Systems

These units deliver high-resolution spectral information from 0.33 MeV to 3.0 MeV including the five primary regions of interest; Total Count, Potassium, Uranium, Thorium and Cosmic.

The Gamma Ray Spectrometer is interfaced to a NaI (TI) crystal detector pack with a total volume of 33 liters (2048 cubic inches). These detector packs embody the latest techniques whereby the elimination of dead time in the counting process yields up to 30% more counts over other commercial systems.

Superior calibration facilities included the visual real time monitoring of full spectrum data and in flight monitoring of gain drift relative to the selected isotope window maintain long-term data quality.

Enhancement of the spectrometer data is achieved by noise reduction techniques (NASVD or MNF), followed by dead time correction, energy calibration, cosmic/aircraft background correction and atmospheric radon removal all applied to the 256 channel data. Spectral stripping, height correction and conversion to radio-element concentrations are then applied prior to gridding and micro-levelling.

The gamma ray spectrometer response was verified by exposing the system to thorium test samples for a time sufficient to accumulate 10,000 counts.



3.7 BASE STATION MAGNETOMETER

Two units are used in tandem for diurnal monitoring. These units run continuously during the survey periods and record the data in digital format.

Base station magnetometer instruments record data to a sensitivity of 0.1nT every 6 seconds.

During data acquisition, if the non-linear diurnal variation was greater than 10 nT in 10 minutes, or the deviation from a straight line chord of length 10 minutes exceeded 10 nT, the line was reflowed.



Figure 13 Setting up base station magnetometer

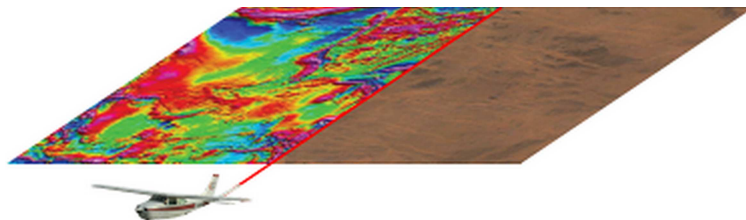


Figure 14 Magnetometer and Data Console



PART 4 - CONTACT INFORMATION

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PART 5 - APPENDICES

APPENDIX A

DAILY REPORTS



Daily Log								
Date	Fit Num	Block(s)	Operator(s)	Aircraft	SBY	MNT	SUS	Comments
18/08/2022		Box Hole		VH-JEI				Ferry - Alice Springs to Jervois Station.
18/08/2022	1	Box Hole	D Ting	VH-JEI				Recce of Box Hole block and compbox flown.
19/08/2022		Box Hole			1.00			1.0 days standby due to strong gusty wind all day.
20/08/2022	2	Box Hole	D Ting	VH-JEI				Box Hole block traverse lines 1-20, 22-91, 98-110 & 112 flown. All data has been reviewed, line 66 is out of spec for diurnal gradient, all other data has been accepted.
20/08/2022	3	Box Hole	D Ting	VH-JEI				Box Hole block traverse lines 118-190 flown. All data has been reviewed and accepted.
21/08/2022	4	Bruce Box Hole	D Ting	VH-JEI				Bruce block traverse lines 1-59 & tie lines 24 & 25 flown. Box Hole block traverse lines 21, 66, 92-97, 111, 113-117 & tie lines 1-11 flown. All data has been reviewed and accepted.
21/08/2022	5	Bruce	D Ting	VH-JEI				Bruce block traverse lines 370-378 & 389-515 flown. All data has been reviewed and accepted.
22/08/2022	6	Bruce	D Ting	VH-JEI				Bruce block traverse lines 284-369 & 379-388 flown. All data has been reviewed and accepted.
22/08/2022	7	Bruce	D Ting	VH-JEI				Bruce block traverse lines 60-141 and tie lines 1 & 2 flown. All data has been reviewed and accepted.
23/08/2022		Bruce			1.00			1.0 days standby due to strong gusty wind all day.
24/08/2022	8	Bruce	D Ting	VH-JEI				Bruce block traverse lines 250-283 flown. All data has been reviewed and accepted. Flight returned back to base early due to strong gusty wind and turbulence.
24/08/2022	9	Bruce	D Ting	VH-JEI				Bruce block traverse lines 142-147 & tie line 3 flown. All data has been reviewed and accepted. Compbox on N,S,E,W headings also flown. Flight returned back to base early due to strong gusty wind and turbulence.
24/08/2022		Bruce			0.50			0.5 standby due to strong gusty wind and turbulence.
25/08/2022	10	Bruce	D Ting	VH-JEI				Bruce block traverse lines 148-215 flown. All data has been reviewed and accepted.
25/08/2022	11	Bruce	D Ting	VH-JEI				Bruce block traverse lines 242-249 flown. All data has been reviewed and accepted. Flight returned to base early due to strong wind and turbulent conditions.
25/08/2022		Bruce			0.40			0.4 standby due to strong gusty wind and turbulent conditions in the afternoon.
26/08/2022	12	Bruce	D Ting	VH-JEI				Bruce block traverse lines 216-241 & tie lines 4-23 completed. All data has been reviewed and accepted.



Daily Log								
Date	Flt Num	Block(s)	Operator(s)	Aircraft	SBY	MNT	SUS	Comments
26/08/2022		Bruce		VH-JEI				Ferry - Jervois Station to Alice Springs.
29/08/2022	13	Edwards Creek	D Ting	VH-JEI				Edwards Creek block recce, testline and traverse lines 24-76 flown. All data has been reviewed and lines 38, 51 & 56 have been rejected due to out of spec diurnal, all other data has been accepted.
30/08/2022	14	Edwards Creek	D Ting	VH-JEI				Edwards Creek block traverse lines 22, 23.1, 38.1, 51.1 & 56.1 flown. All data has been reviewed and line 51.1 has been rejected due to failing sample separation QC, all other data has been accepted. Aircraft returned to base early due to strong wind and excessive turbulence on the survey block.
30/08/2022		Edwards Creek			0.90			0.9 standby due to strong wind and excessive turbulence over the survey area.
31/08/2022	15	Edwards Creek	M Brayne	VH-JEI				Completed all remaining survey lines.
31/08/2022		Edwards Creek		VH-JEI				Ferry Flight YBAS to YTNK.



APPENDIX B

CALIBRATION AND TEST LINE VARIATION TABLES



Ground Cals - VH-JEI - Jervois Station																				
		Position			Hand Sample				Background				Normalized				Th Cal Results		TH Chg	Diff
Date	Flt	East	North	GPS Ht	TC	Pot	Ura	Tho	TC	Pot	Ura	Tho	TC	Pot	Ura	Tho	ThPeak	% FWHM	+/- 3%	5 max
20/08/2022	2	615034.08	7465500.60	331.6	7074.9	438.0	178.9	380.7	3244.5	321.6	82.5	119.7	3830.4	116.4	96.4	261.0	217.92	5.06	0.0	0.0
20/08/2022	3	615033.97	7465500.13	335.9	7082.1	442.3	180.1	384.4	3250.0	322.7	85.1	122.2	3832.1	119.6	95.0	262.2	218.10	5.39	0.2	0.5
21/08/2022	4	615033.42	7465501.49	331.9	7038.2	438.4	176.0	379.2	3249.9	320.9	83.1	122.5	3788.3	117.5	92.9	256.7	217.76	5.16	-1.3	1.1
21/08/2022	5	615034.52	7465499.91	333.1	7045.6	442.2	177.5	379.7	3279.1	323.8	84.7	122.7	3766.5	118.4	92.8	257.0	217.89	5.34	-0.9	0.8
22/08/2022	6	615033.96	7465500.48	332.2	7135.8	445.1	182.6	381.6	3373.3	326.7	90.3	122.4	3762.5	118.4	92.3	259.2	217.61	5.06	0.0	0.2
22/08/2022	7	615034.03	7465500.69	334.8	7208.5	447.0	184.9	390.0	3345.8	330.6	89.5	123.8	3862.7	116.4	95.4	266.2	218.16	5.14	2.2	0.1
24/08/2022	8	615034.15	7465500.81	332.6	7062.1	438.7	172.0	383.2	3221.8	320.4	80.0	122.7	3840.3	118.3	92.0	260.5	217.66	5.11	0.0	0.2
24/08/2022	9	615034.51	7465501.20	331.2	7078.7	439.5	177.5	381.1	3220.5	322.2	80.8	121.3	3858.2	117.3	96.7	259.8	217.73	5.29	-0.2	0.7
25/08/2022	10	615033.72	7465501.21	334.5	7078.7	439.4	175.9	382.1	3213.5	318.6	82.0	118.7	3865.2	120.8	93.9	263.4	217.67	5.12	1.0	0.7
25/08/2022	11	615034.58	7465500.66	333.7	7149.7	447.0	182.1	387.8	3257.6	321.7	84.2	122.6	3892.1	125.3	97.9	265.2	218.00	5.28	1.6	0.5
26/08/2022	12	615033.96	7465501.45	333.4	7113.9	440.0	175.7	384.6	3253.3	319.6	85.1	120.4	3860.6	120.4	90.6	264.2	217.81	5.35	1.1	0.9
26/08/2022	12	615034.30	7465500.45	334.7	7249.5	447.2	189.0	384.0	3364.9	327.2	93.0	122.4	3884.6	120.0	96.0	261.6	217.81	5.35	0.1	0.3



Av Normalized Th: 258.7 Min TH: 256.7 Max TH: 261.9 Standard Deviation: 2.0

Ground Cals - VH-JEI - Alice Springs																				
		Position			Hand Sample				Background				Normalized				Th Cal Results		TH Chg	Diff
Date	Flt	East	North	GPS Ht	TC	Pot	Ura	Tho	TC	Pot	Ura	Tho	TC	Pot	Ura	Tho	ThPeak	% FWHM	+/- 3%	5 max
29/08/2022	13	387654.82	7367427.86	547.9	7186.2	482.5	169.1	373.2	3372.6	370.9	76.3	115.8	3813.6	111.6	92.8	257.4	218.04	5.20	0.0	0.0
29/08/2022	13	387654.59	7367429.83	538.0	7352.1	495.8	182.2	375.8	3500.5	375.5	85.3	115.4	3851.6	120.3	96.9	260.4	218.04	5.20	0.6	2.0
30/08/2022	14	387654.05	7367427.91	543.7	7092.8	477.9	165.2	373.5	3304.6	366.2	71.6	115.4	3788.2	111.7	93.6	258.1	217.55	5.04	-0.2	0.8
30/08/2022	14	387654.36	7367429.54	542.6	7145.6	481.6	167.9	373.1	3349.1	365.9	75.4	115.2	3796.5	115.7	92.5	257.9	217.55	5.04	-0.2	1.7
31/08/2022	15	387654.57	7367428.93	544.5	7233.5	486.8	173.5	371.8	3410.6	369.4	79.2	115.1	3822.9	117.4	94.3	256.7	217.96	5.10	-0.5	1.1
31/08/2022	15	387653.27	7367428.97	549.5	7222.2	482.3	172.8	376.0	3378.0	366.3	78.4	114.1	3844.2	116.0	94.4	261.9	217.96	5.10	1.2	1.9



Av Normalized Th: 95.1 Min TH: 92.4 Max TH: 97.7 Standard Deviation: 1.5

Test Lines - VH-JEI - Jervois Station												
		801				TH Chg		802				TH Chg
Date	Flt	TC	Pot	Ura	Tho	+/- 7%	Flt	TC	Pot	Ura	Tho	+/- 7%
18/08/2022	1	2914.6	297.9	74.2	94.8	0.0						
20/08/2022	2	2801.0	287.0	68.0	92.4	-1.3	3	2786.7	288.6	67.1	96.5	2.0
21/08/2022	4	2813.8	287.3	72.7	93.3	-1.0	5	2831.3	294.5	69.1	97.7	2.9
22/08/2022	6	2985.9	300.7	80.7	94.9	0.0	7	2905.1	299.1	73.1	96.9	1.8
24/08/2022	8	2733.4	283.8	64.8	93.7	-1.4	9	2740.3	288.3	63.5	95.2	0.2
25/08/2022	10	2777.1	289.2	66.2	94.1	-0.9	11	2807.8	292.5	69.3	95.0	0.0
26/08/2022	12	2854.0	289.2	72.3	95.1	0.1	12	2965.4	299.2	78.4	96.2	1.2



Av Normalized Th: 147.9 Min TH: 145.2 Max TH: 149.1 Standard Deviation: 1.7

Test Lines - VH-JEI - Alice Springs												
		801				TH Chg		802				TH Chg
Date	Flt	TC	Pot	Ura	Tho	+/- 7%	Flt	TC	Pot	Ura	Tho	+/- 7%
29/08/2022	13	3527.4	295.2	97.0	149.8	0.0	13	3627.8	301.4	103.4	149.0	-0.3
30/08/2022	14	3369.2	283.7	87.6	145.2	-1.9	14	3438.6	291.6	90.9	146.7	-0.7
31/08/2022	15	3461.1	291.1	94.7	147.5	-0.1	15	3468.3	290.6	92.2	149.1	0.8



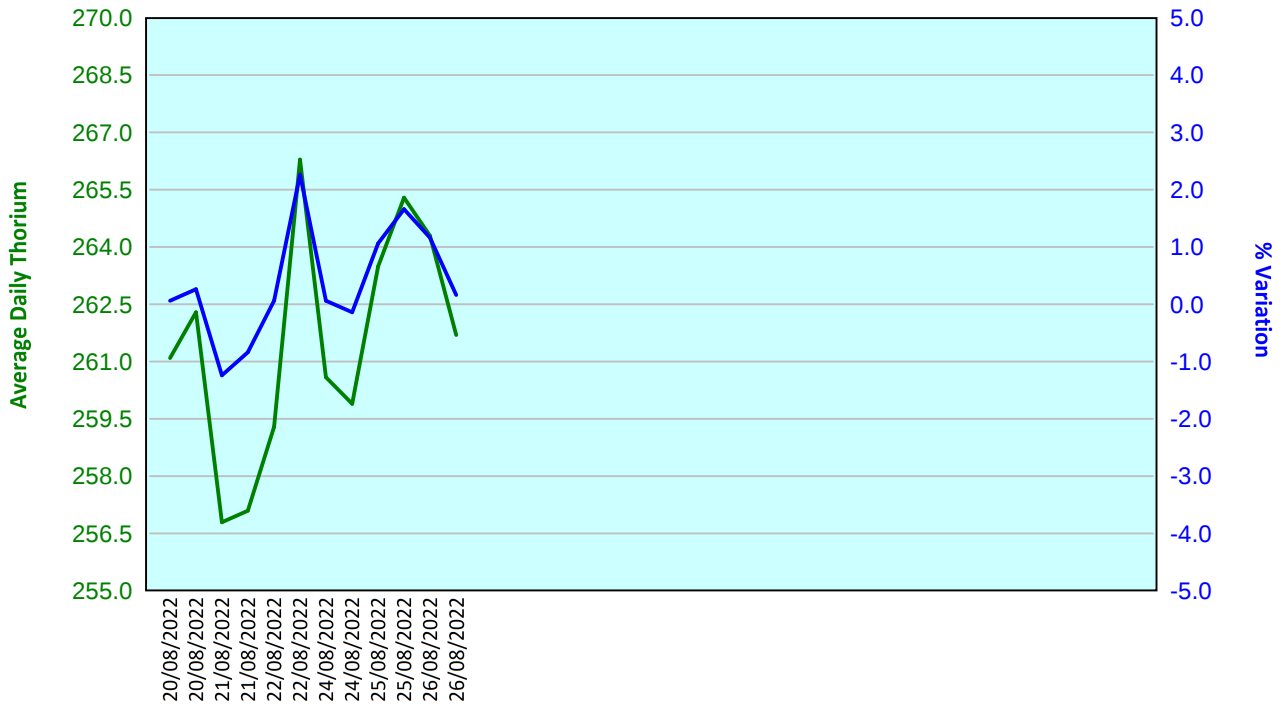
APPENDIX C

CALIBRATION AND TEST LINE VARIATION CHARTS



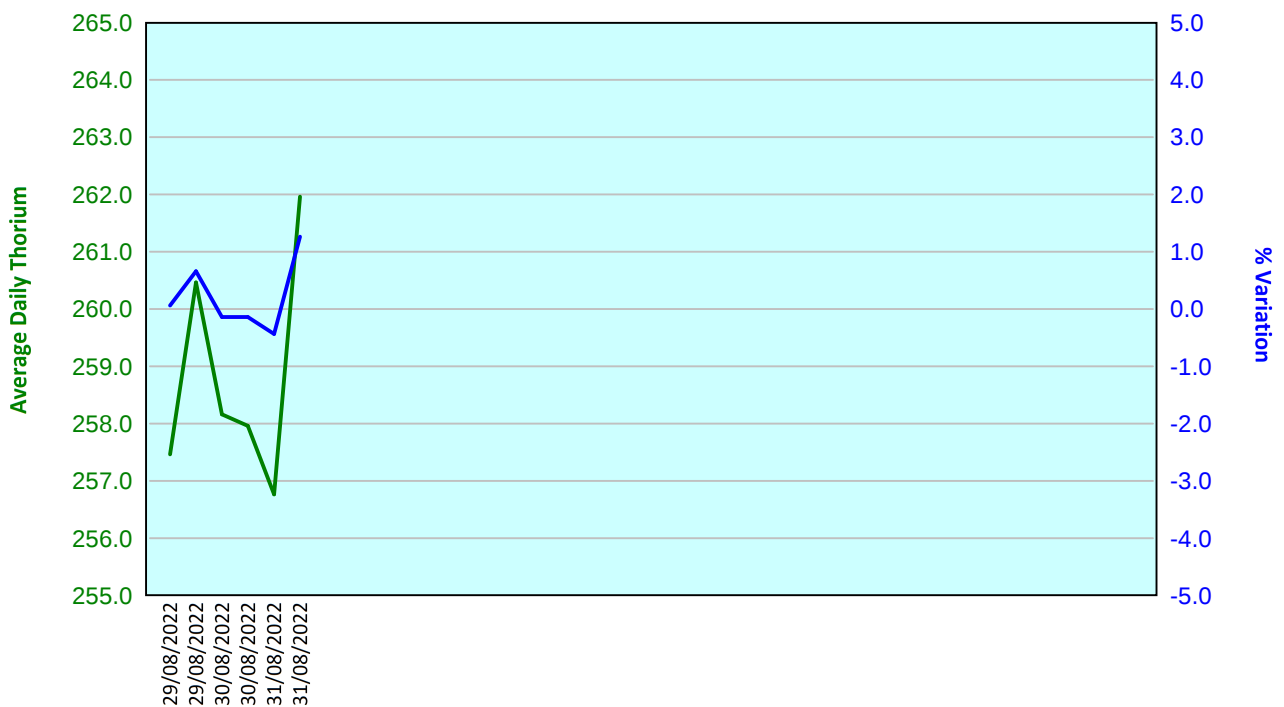
Sample Variations

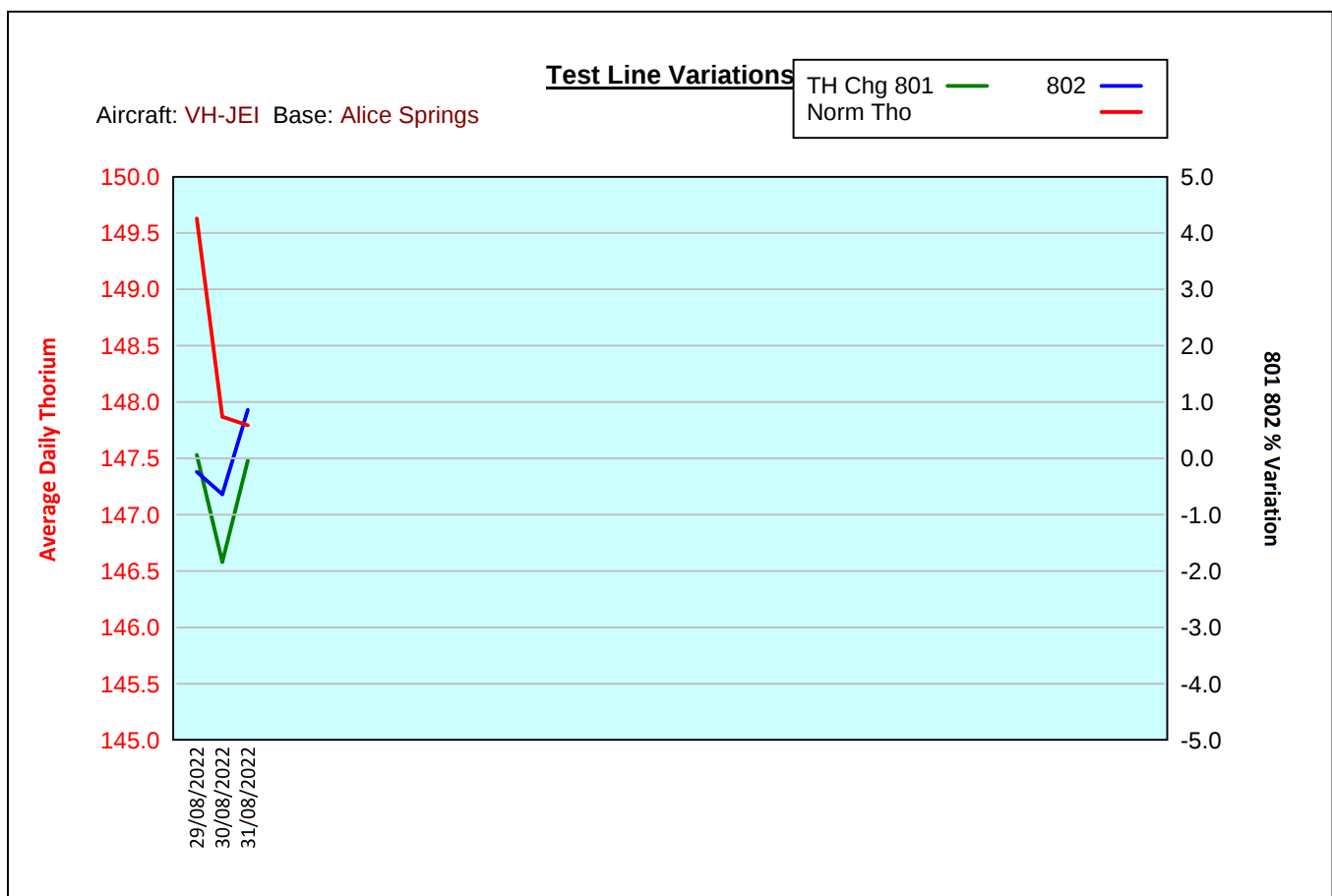
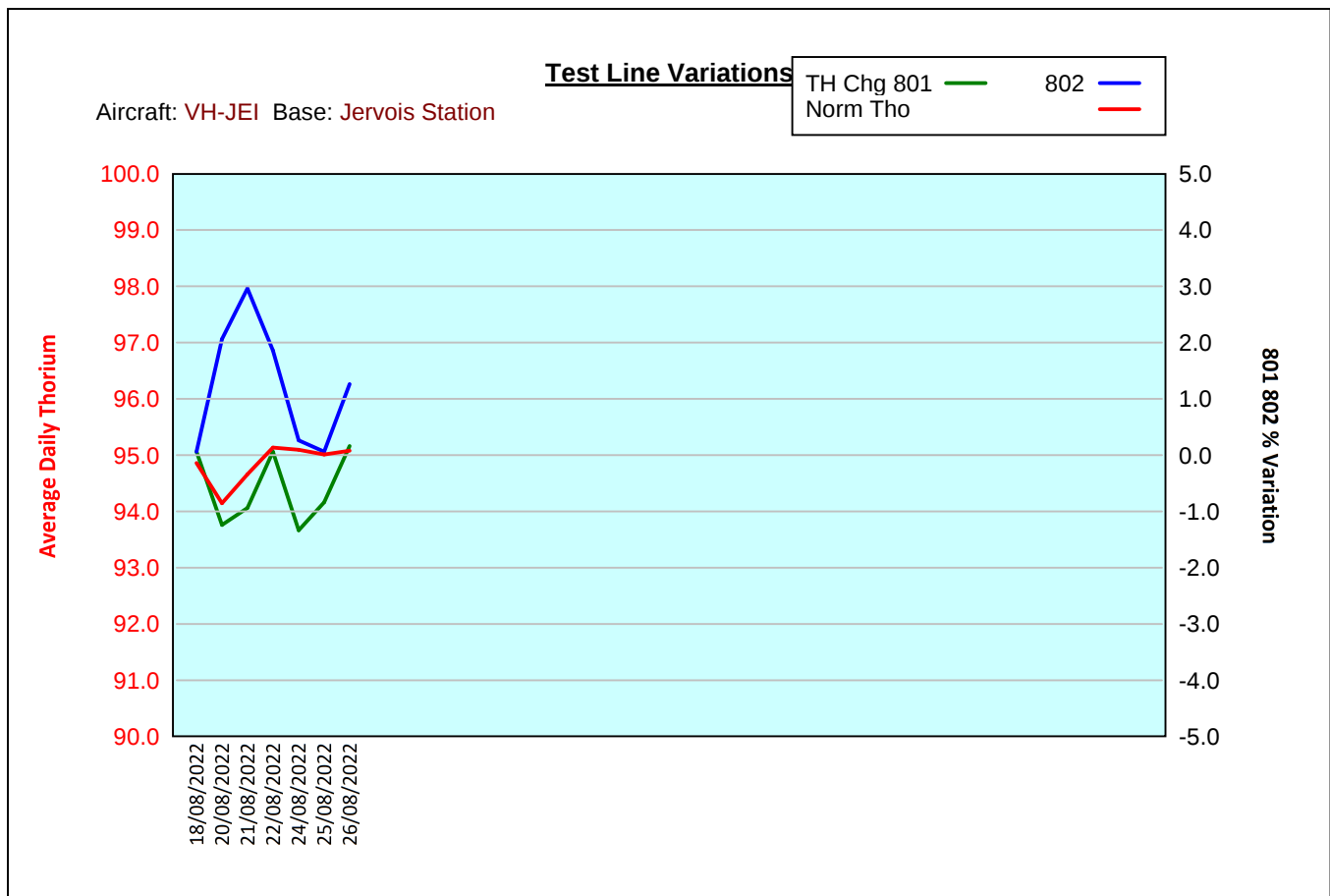
Aircraft: VH-JEI Base: Jervois Station



Sample Variations

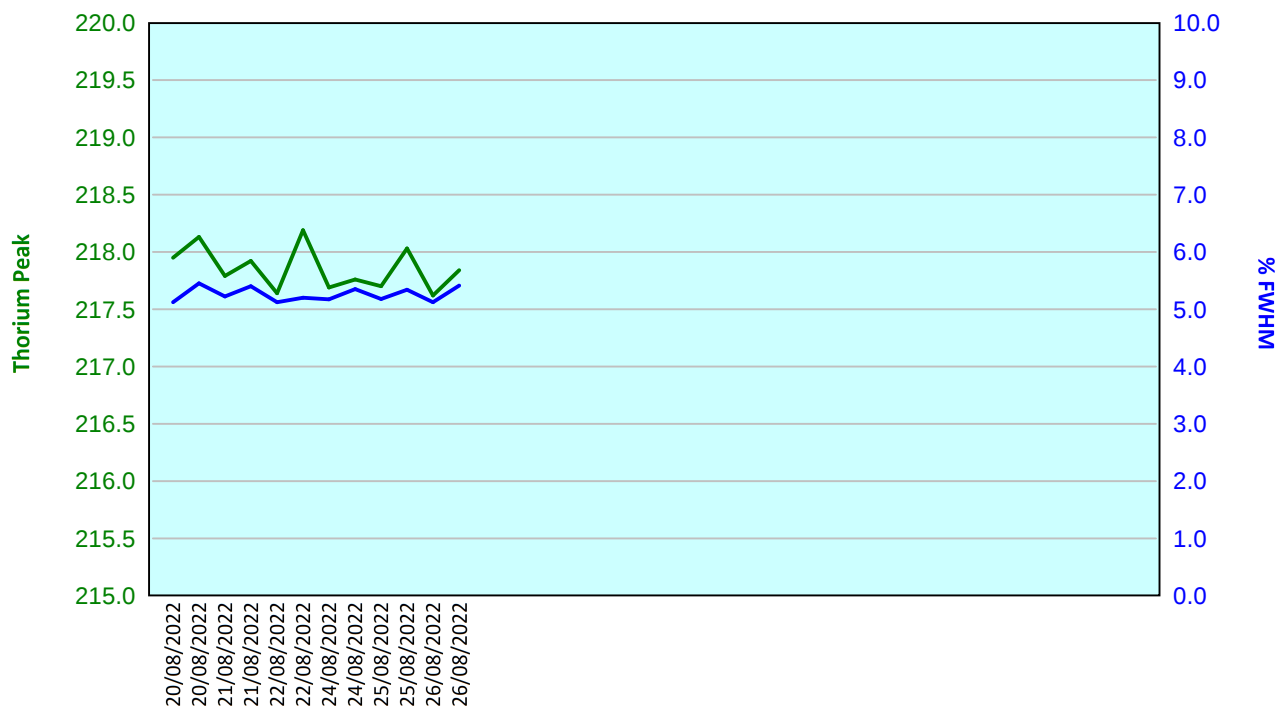
Aircraft: VH-JEI Base: Alice Springs





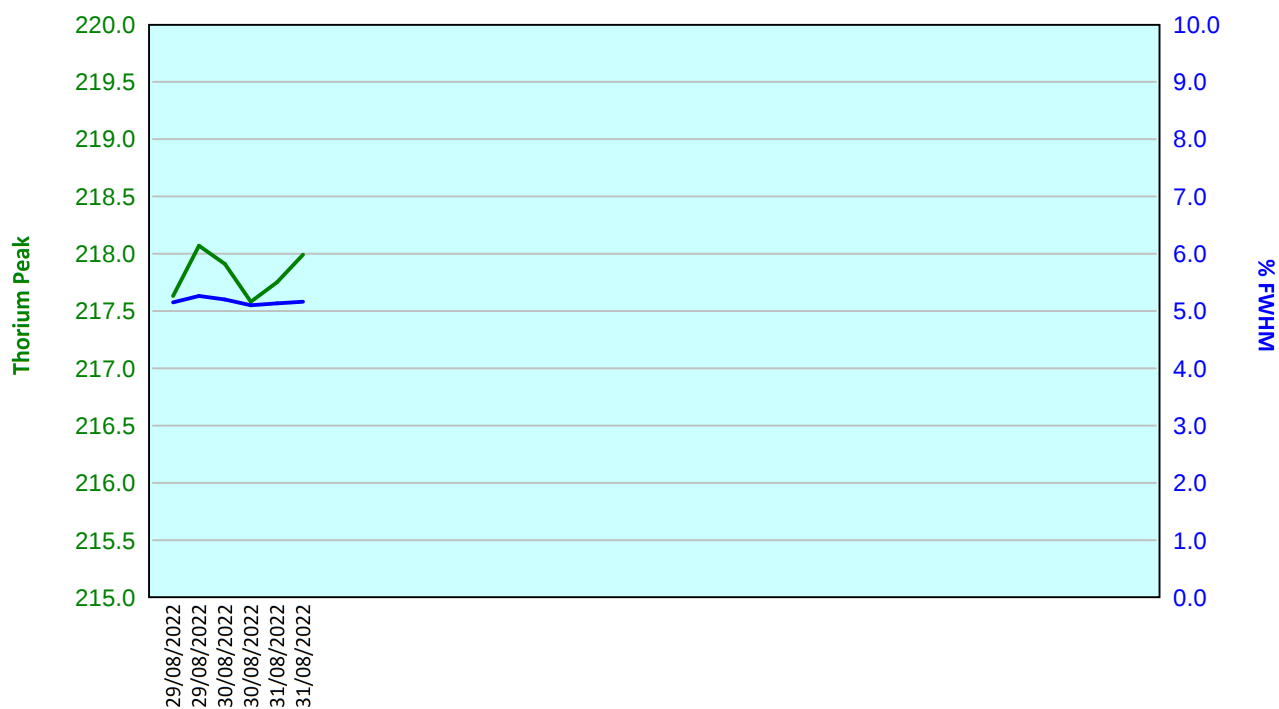
Thorium Calibration Results

Aircraft: VH-JEI



Thorium Calibration Results

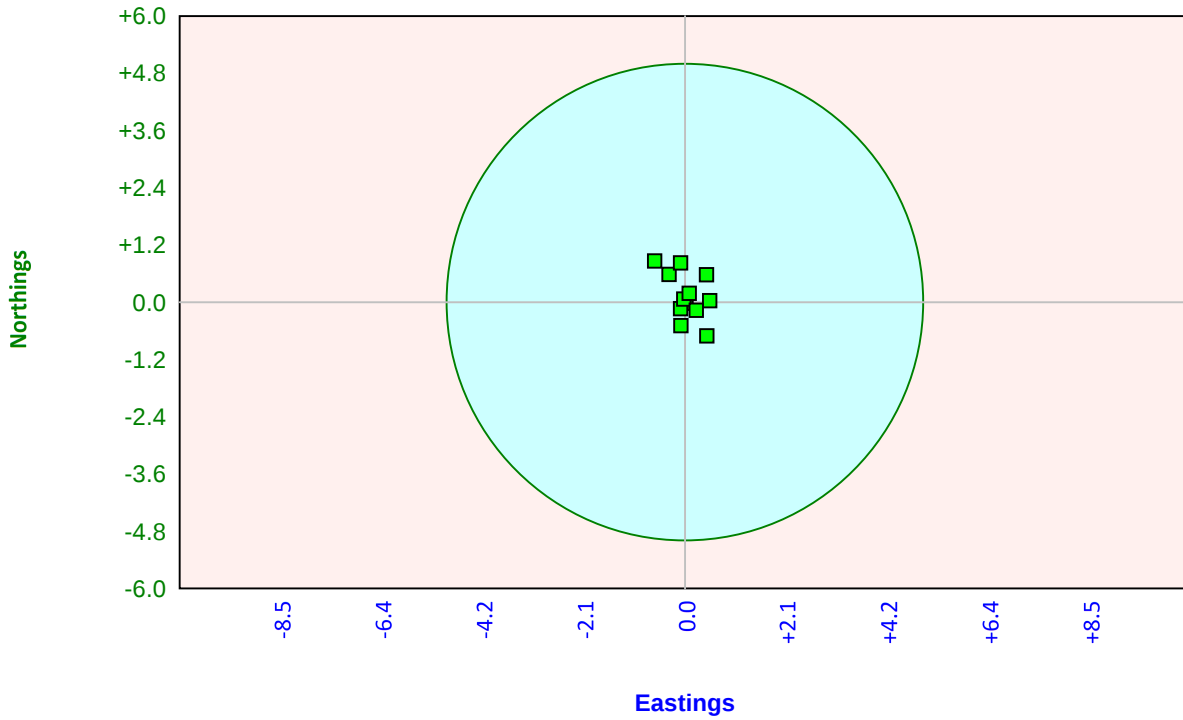
Aircraft: VH-JEI



Hand Sample Calibration Positions

Aircraft: **VH-JEI** Base: **Jervois Station**

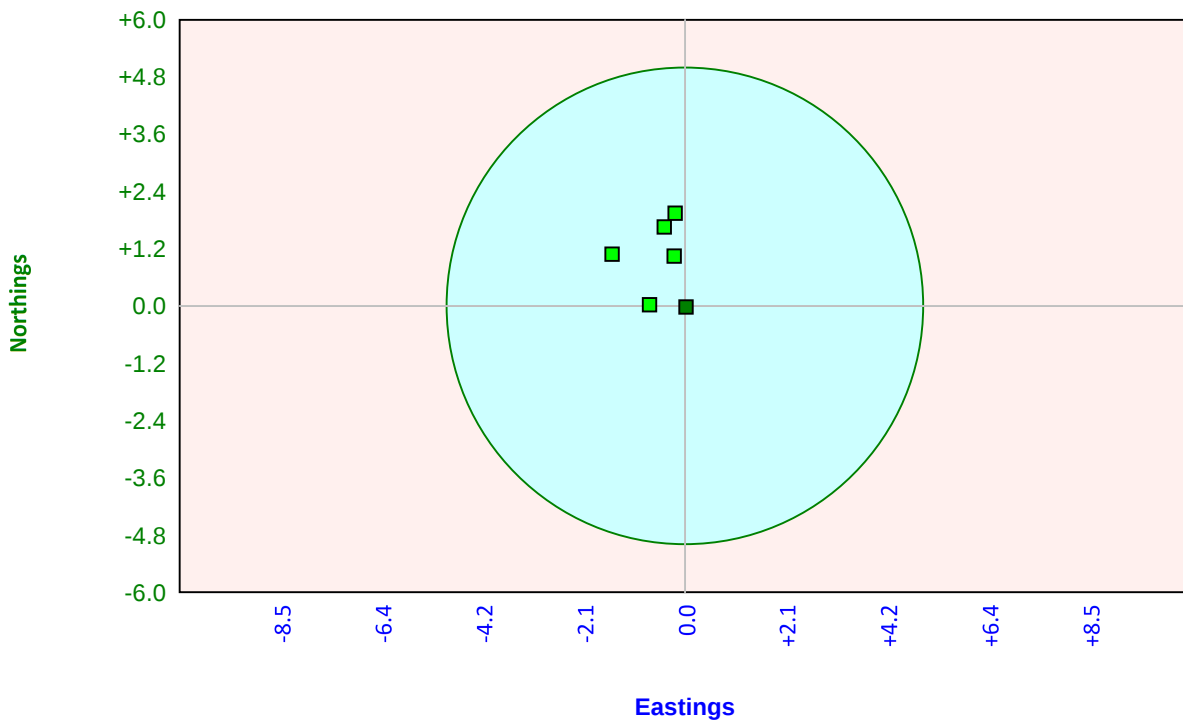
Normal ■
Error (>5) ■



Hand Sample Calibration Positions

Aircraft: **VH-JEI** Base: **Alice Springs**

Normal ■
Error (>5) ■



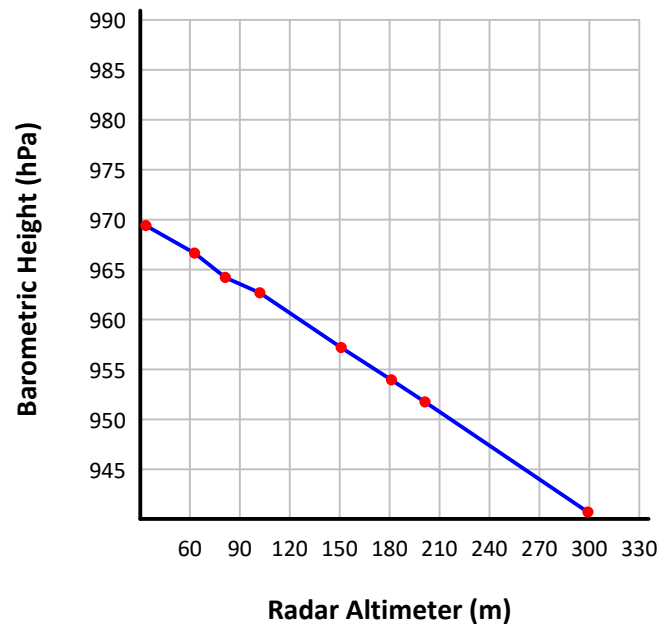
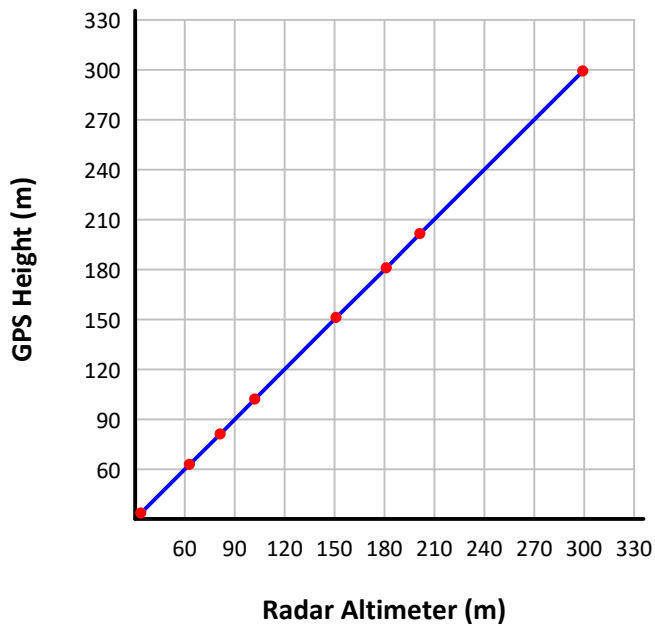
APPENDIX D

RADAR ALTIMETER AND BAROMETRIC ALTIMETER CHECKS



VH-JEI

Radar Altimeter (m)	Barometric Height (hPa)	GPS Height (m)
33.47	969.38	33.55
62.77	966.62	62.78
81.36	964.20	81.08
102.09	962.67	102.10
151.00	957.18	151.15
181.17	953.92	180.95
201.31	951.73	201.47
299.30	940.70	299.25



Calibration flights for VH-JEI were performed within the last 12 months



APPENDIX E

BOUNDARY COORDINATES



Edwards Creek, Datum: GDA 94, Zone: 53

Eastings	Northings
407752.65	7458042.36
397502.25	7457975.99
397552.63	7450595.17
407797.98	7450661.69



Bruce, Datum: GDA 94, Zone: 53

Eastings	Northings
551303.92	7474843.16
551285.15	7469308.13
559832.84	7469276.70
559825.53	7467431.63
568372.36	7467395.35
568380.71	7469240.44
576928.59	7469199.35
576947.36	7472889.46
566687.38	7472938.14
566711.74	7478473.26
556448.15	7478514.91
556434.41	7474824.92



Box Hole, Datum: GDA 94, Zone: 53

Eastings	Northings
575924.81	7535181.33
578539.20	7524808.47
583061.21	7525853.04
580616.21	7536229.67



APPENDIX F

LINE SPECIFICATIONS



Line Specifications Header Descriptions

Line	Line number
Type	Traverse or tie line
Easting	Line start easting co-ordinate
Northing	Line start northing co-ordinate
Easting	Line end easting co-ordinate
Northing	Line end northing co-ordinate
Direc	Line orientation (Degrees)
Length	Individual line length (km)
Tv Cumul	Traverse lines total cumulative distance (km)
Ti Cumul	Tie lines total cumulative distance (km)



Edwards Creek

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
100010	Trav	397542.51	7450567.86	407808.18	7450567.86	90.0	10.3		10.3		0.0
100020	Trav	397541.83	7450667.86	407808.22	7450667.86	90.0	10.3		20.5		0.0
100030	Trav	397541.15	7450767.86	407807.60	7450767.86	90.0	10.3		30.8		0.0
100040	Trav	397540.47	7450867.86	407806.99	7450867.86	90.0	10.3		41.1		0.0
100050	Trav	397539.78	7450967.86	407806.37	7450967.86	90.0	10.3		51.3		0.0
100060	Trav	397539.10	7451067.86	407805.76	7451067.86	90.0	10.3		61.6		0.0
100070	Trav	397538.42	7451167.86	407805.15	7451167.86	90.0	10.3		71.9		0.0
100080	Trav	397537.73	7451267.86	407804.53	7451267.86	90.0	10.3		82.1		0.0
100090	Trav	397537.05	7451367.86	407803.92	7451367.86	90.0	10.3		92.4		0.0
100100	Trav	397536.37	7451467.86	407803.30	7451467.86	90.0	10.3		102.7		0.0
100110	Trav	397535.69	7451567.86	407802.69	7451567.86	90.0	10.3		112.9		0.0
100120	Trav	397535.00	7451667.86	407802.08	7451667.86	90.0	10.3		123.2		0.0
100130	Trav	397534.32	7451767.86	407801.46	7451767.86	90.0	10.3		133.5		0.0
100140	Trav	397533.64	7451867.86	407800.85	7451867.86	90.0	10.3		143.7		0.0
100150	Trav	397532.96	7451967.86	407800.23	7451967.86	90.0	10.3		154.0		0.0
100160	Trav	397532.27	7452067.86	407799.62	7452067.86	90.0	10.3		164.3		0.0
100170	Trav	397531.59	7452167.86	407799.01	7452167.86	90.0	10.3		174.5		0.0
100180	Trav	397530.91	7452267.86	407798.39	7452267.86	90.0	10.3		184.8		0.0
100190	Trav	397530.23	7452367.86	407797.78	7452367.86	90.0	10.3		195.1		0.0
100200	Trav	397529.54	7452467.86	407797.16	7452467.86	90.0	10.3		205.3		0.0
100210	Trav	397528.86	7452567.86	407796.55	7452567.86	90.0	10.3		215.6		0.0
100220	Trav	397528.18	7452667.86	407795.93	7452667.86	90.0	10.3		225.9		0.0
100230	Trav	397527.50	7452767.86	407795.32	7452767.86	90.0	10.3		236.1		0.0
100240	Trav	397526.81	7452867.86	407794.71	7452867.86	90.0	10.3		246.4		0.0
100250	Trav	397526.13	7452967.86	407794.09	7452967.86	90.0	10.3		256.7		0.0
100260	Trav	397525.45	7453067.86	407793.48	7453067.86	90.0	10.3		266.9		0.0
100270	Trav	397524.77	7453167.86	407792.86	7453167.86	90.0	10.3		277.2		0.0
100280	Trav	397524.08	7453267.86	407792.25	7453267.86	90.0	10.3		287.5		0.0
100290	Trav	397523.40	7453367.86	407791.64	7453367.86	90.0	10.3		297.8		0.0
100300	Trav	397522.72	7453467.86	407791.02	7453467.86	90.0	10.3		308.0		0.0
100310	Trav	397522.04	7453567.86	407790.41	7453567.86	90.0	10.3		318.3		0.0
100320	Trav	397521.35	7453667.86	407789.79	7453667.86	90.0	10.3		328.6		0.0
100330	Trav	397520.67	7453767.86	407789.18	7453767.86	90.0	10.3		338.8		0.0
100340	Trav	397519.99	7453867.86	407788.57	7453867.86	90.0	10.3		349.1		0.0
100350	Trav	397519.31	7453967.86	407787.95	7453967.86	90.0	10.3		359.4		0.0
100360	Trav	397518.62	7454067.86	407787.34	7454067.86	90.0	10.3		369.6		0.0
100370	Trav	397517.94	7454167.86	407786.72	7454167.86	90.0	10.3		379.9		0.0
100380	Trav	397517.26	7454267.86	407786.11	7454267.86	90.0	10.3		390.2		0.0
100390	Trav	397516.58	7454367.86	407785.49	7454367.86	90.0	10.3		400.4		0.0
100400	Trav	397515.89	7454467.86	407784.88	7454467.86	90.0	10.3		410.7		0.0
100410	Trav	397515.21	7454567.86	407784.27	7454567.86	90.0	10.3		421.0		0.0
100420	Trav	397514.53	7454667.86	407783.65	7454667.86	90.0	10.3		431.2		0.0
100430	Trav	397513.85	7454767.86	407783.04	7454767.86	90.0	10.3		441.5		0.0
100440	Trav	397513.16	7454867.86	407782.42	7454867.86	90.0	10.3		451.8		0.0
100450	Trav	397512.48	7454967.86	407781.81	7454967.86	90.0	10.3		462.1		0.0
100460	Trav	397511.80	7455067.86	407781.20	7455067.86	90.0	10.3		472.3		0.0
100470	Trav	397511.12	7455167.86	407780.58	7455167.86	90.0	10.3		482.6		0.0
100480	Trav	397510.43	7455267.86	407779.97	7455267.86	90.0	10.3		492.9		0.0
100490	Trav	397509.75	7455367.86	407779.35	7455367.86	90.0	10.3		503.1		0.0
100500	Trav	397509.07	7455467.86	407778.74	7455467.86	90.0	10.3		513.4		0.0
100510	Trav	397508.39	7455567.86	407778.13	7455567.86	90.0	10.3		523.7		0.0
100520	Trav	397507.70	7455667.86	407777.51	7455667.86	90.0	10.3		533.9		0.0
100530	Trav	397507.02	7455767.86	407776.90	7455767.86	90.0	10.3		544.2		0.0
100540	Trav	397506.34	7455867.86	407776.28	7455867.86	90.0	10.3		554.5		0.0
100550	Trav	397505.66	7455967.86	407775.67	7455967.86	90.0	10.3		564.7		0.0
100560	Trav	397504.97	7456067.86	407775.05	7456067.86	90.0	10.3		575.0		0.0
100570	Trav	397504.29	7456167.86	407774.44	7456167.86	90.0	10.3		585.3		0.0
100580	Trav	397503.61	7456267.86	407773.83	7456267.86	90.0	10.3		595.6		0.0
100590	Trav	397502.93	7456367.86	407773.21	7456367.86	90.0	10.3		605.8		0.0
100600	Trav	397502.24	7456467.86	407772.60	7456467.86	90.0	10.3		616.1		0.0
100610	Trav	397501.56	7456567.86	407771.98	7456567.86	90.0	10.3		626.4		0.0
100620	Trav	397500.88	7456667.86	407771.37	7456667.86	90.0	10.3		636.6		0.0
100630	Trav	397500.20	7456767.86	407770.76	7456767.86	90.0	10.3		646.9		0.0
100640	Trav	397499.51	7456867.86	407770.14	7456867.86	90.0	10.3		657.2		0.0
100650	Trav	397498.83	7456967.86	407769.53	7456967.86	90.0	10.3		667.5		0.0



Edwards Creek (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
100660	Trav	397498.15	7457067.86	407768.91	7457067.86	90.0	10.3		677.7		0.0
100670	Trav	397497.46	7457167.86	407768.30	7457167.86	90.0	10.3		688.0		0.0
100680	Trav	397496.78	7457267.86	407767.69	7457267.86	90.0	10.3		698.3		0.0
100690	Trav	397496.10	7457367.86	407767.07	7457367.86	90.0	10.3		708.5		0.0
100700	Trav	397495.42	7457467.86	407766.46	7457467.86	90.0	10.3		718.8		0.0
100710	Trav	397494.73	7457567.86	407765.84	7457567.86	90.0	10.3		729.1		0.0
100720	Trav	397494.05	7457667.86	407765.23	7457667.86	90.0	10.3		739.3		0.0
100730	Trav	397493.37	7457767.86	407764.61	7457767.86	90.0	10.3		749.6		0.0
100740	Trav	397492.69	7457867.86	407764.00	7457867.86	90.0	10.3		759.9		0.0
100750	Trav	397492.00	7457967.86	407763.39	7457967.86	90.0	10.3		770.2		0.0
100760	Trav	397492.59	7458067.86	407762.77	7458067.86	90.0	10.3		780.4		0.0
190010	Tie	407601.85	7458137.88	407601.85	7450495.71	180.0	7.6		780.4		7.6
190020	Tie	406701.85	7458137.88	406701.85	7450495.71	180.0	7.6		780.4		15.3
190030	Tie	405801.85	7458137.88	405801.85	7450495.71	180.0	7.6		780.4		22.9
190040	Tie	404901.85	7458137.88	404901.85	7450495.71	180.0	7.6		780.4		30.6
190050	Tie	404001.85	7458137.88	404001.85	7450495.71	180.0	7.6		780.4		38.2
190060	Tie	403101.85	7458137.88	403101.85	7450495.71	180.0	7.6		780.4		45.9
190070	Tie	402201.85	7458137.59	402201.85	7450496.75	180.0	7.6		780.4		53.5
190080	Tie	401301.85	7458137.59	401301.85	7450496.75	180.0	7.6		780.4		61.1
190090	Tie	400401.85	7458137.59	400401.85	7450496.75	180.0	7.6		780.4		68.8
190100	Tie	399501.85	7458137.59	399501.85	7450496.75	180.0	7.6		780.4		76.4
190110	Tie	398601.85	7458137.59	398601.85	7450496.75	180.0	7.6		780.4		84.1
190120	Tie	397701.85	7458137.59	397701.85	7450496.75	180.0	7.6		780.4		91.7



Bruce

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
200010	Trav	551266.25	7469298.18	551266.25	7474853.08	0.0	5.6		5.6		0.0
200020	Trav	551316.25	7469297.99	551316.25	7474853.21	0.0	5.6		11.1		0.0
200030	Trav	551366.25	7469297.81	551366.25	7474853.03	0.0	5.6		16.7		0.0
200040	Trav	551416.25	7469297.62	551416.25	7474852.85	0.0	5.6		22.2		0.0
200050	Trav	551466.25	7469297.44	551466.25	7474852.67	0.0	5.6		27.8		0.0
200060	Trav	551516.25	7469297.26	551516.25	7474852.49	0.0	5.6		33.3		0.0
200070	Trav	551566.25	7469297.07	551566.25	7474852.32	0.0	5.6		38.9		0.0
200080	Trav	551616.25	7469296.89	551616.25	7474852.14	0.0	5.6		44.4		0.0
200090	Trav	551666.25	7469296.70	551666.25	7474851.96	0.0	5.6		50.0		0.0
200100	Trav	551716.25	7469296.52	551716.25	7474851.78	0.0	5.6		55.6		0.0
200110	Trav	551766.25	7469296.34	551766.25	7474851.60	0.0	5.6		61.1		0.0
200120	Trav	551816.25	7469296.15	551816.25	7474851.43	0.0	5.6		66.7		0.0
200130	Trav	551866.25	7469295.97	551866.25	7474851.25	0.0	5.6		72.2		0.0
200140	Trav	551916.25	7469295.79	551916.25	7474851.07	0.0	5.6		77.8		0.0
200150	Trav	551966.25	7469295.60	551966.25	7474850.89	0.0	5.6		83.3		0.0
200160	Trav	552016.25	7469295.42	552016.25	7474850.72	0.0	5.6		88.9		0.0
200170	Trav	552066.25	7469295.23	552066.25	7474850.54	0.0	5.6		94.4		0.0
200180	Trav	552116.25	7469295.05	552116.25	7474850.36	0.0	5.6		100.0		0.0
200190	Trav	552166.25	7469294.87	552166.25	7474850.18	0.0	5.6		105.5		0.0
200200	Trav	552216.25	7469294.68	552216.25	7474850.00	0.0	5.6		111.1		0.0
200210	Trav	552266.25	7469294.50	552266.25	7474849.83	0.0	5.6		116.7		0.0
200220	Trav	552316.25	7469294.31	552316.25	7474849.65	0.0	5.6		122.2		0.0
200230	Trav	552366.25	7469294.13	552366.25	7474849.47	0.0	5.6		127.8		0.0
200240	Trav	552416.25	7469293.95	552416.25	7474849.29	0.0	5.6		133.3		0.0
200250	Trav	552466.25	7469293.76	552466.25	7474849.11	0.0	5.6		138.9		0.0
200260	Trav	552516.25	7469293.58	552516.25	7474848.94	0.0	5.6		144.4		0.0
200270	Trav	552566.25	7469293.40	552566.25	7474848.76	0.0	5.6		150.0		0.0
200280	Trav	552616.25	7469293.21	552616.25	7474848.58	0.0	5.6		155.5		0.0
200290	Trav	552666.25	7469293.03	552666.25	7474848.40	0.0	5.6		161.1		0.0
200300	Trav	552716.25	7469292.84	552716.25	7474848.23	0.0	5.6		166.7		0.0
200310	Trav	552766.25	7469292.66	552766.25	7474848.05	0.0	5.6		172.2		0.0
200320	Trav	552816.25	7469292.48	552816.25	7474847.87	0.0	5.6		177.8		0.0
200330	Trav	552866.25	7469292.29	552866.25	7474847.69	0.0	5.6		183.3		0.0
200340	Trav	552916.25	7469292.11	552916.25	7474847.51	0.0	5.6		188.9		0.0
200350	Trav	552966.25	7469291.92	552966.25	7474847.34	0.0	5.6		194.4		0.0
200360	Trav	553016.25	7469291.74	553016.25	7474847.16	0.0	5.6		200.0		0.0
200370	Trav	553066.25	7469291.56	553066.25	7474846.98	0.0	5.6		205.5		0.0
200380	Trav	553116.25	7469291.37	553116.25	7474846.80	0.0	5.6		211.1		0.0
200390	Trav	553166.25	7469291.19	553166.25	7474846.62	0.0	5.6		216.7		0.0
200400	Trav	553216.25	7469291.01	553216.25	7474846.45	0.0	5.6		222.2		0.0
200410	Trav	553266.25	7469290.82	553266.25	7474846.27	0.0	5.6		227.8		0.0
200420	Trav	553316.25	7469290.64	553316.25	7474846.09	0.0	5.6		233.3		0.0
200430	Trav	553366.25	7469290.45	553366.25	7474845.91	0.0	5.6		238.9		0.0
200440	Trav	553416.25	7469290.27	553416.25	7474845.74	0.0	5.6		244.4		0.0
200450	Trav	553466.25	7469290.09	553466.25	7474845.56	0.0	5.6		250.0		0.0
200460	Trav	553516.25	7469289.90	553516.25	7474845.38	0.0	5.6		255.5		0.0
200470	Trav	553566.25	7469289.72	553566.25	7474845.20	0.0	5.6		261.1		0.0
200480	Trav	553616.25	7469289.53	553616.25	7474845.02	0.0	5.6		266.7		0.0
200490	Trav	553666.25	7469289.35	553666.25	7474844.85	0.0	5.6		272.2		0.0
200500	Trav	553716.25	7469289.17	553716.25	7474844.67	0.0	5.6		277.8		0.0
200510	Trav	553766.25	7469288.98	553766.25	7474844.49	0.0	5.6		283.3		0.0
200520	Trav	553816.25	7469288.80	553816.25	7474844.31	0.0	5.6		288.9		0.0
200530	Trav	553866.25	7469288.62	553866.25	7474844.13	0.0	5.6		294.4		0.0
200540	Trav	553916.25	7469288.43	553916.25	7474843.96	0.0	5.6		300.0		0.0
200550	Trav	553966.25	7469288.25	553966.25	7474843.78	0.0	5.6		305.5		0.0
200560	Trav	554016.25	7469288.06	554016.25	7474843.60	0.0	5.6		311.1		0.0
200570	Trav	554066.25	7469287.88	554066.25	7474843.42	0.0	5.6		316.7		0.0
200580	Trav	554116.25	7469287.70	554116.25	7474843.25	0.0	5.6		322.2		0.0
200590	Trav	554166.25	7469287.51	554166.25	7474843.07	0.0	5.6		327.8		0.0
200600	Trav	554216.25	7469287.33	554216.25	7474842.89	0.0	5.6		333.3		0.0
200610	Trav	554266.25	7469287.14	554266.25	7474842.71	0.0	5.6		338.9		0.0
200620	Trav	554316.25	7469286.96	554316.25	7474842.53	0.0	5.6		344.4		0.0
200630	Trav	554366.25	7469286.78	554366.25	7474842.36	0.0	5.6		350.0		0.0
200640	Trav	554416.25	7469286.59	554416.25	7474842.18	0.0	5.6		355.5		0.0
200650	Trav	554466.25	7469286.41	554466.25	7474842.00	0.0	5.6		361.1		0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
200660	Trav	554516.25	7469286.23	554516.25	7474841.82	0.0	5.6		366.7		0.0
200670	Trav	554566.25	7469286.04	554566.25	7474841.64	0.0	5.6		372.2		0.0
200680	Trav	554616.25	7469285.86	554616.25	7474841.47	0.0	5.6		377.8		0.0
200690	Trav	554666.25	7469285.67	554666.25	7474841.29	0.0	5.6		383.3		0.0
200700	Trav	554716.25	7469285.49	554716.25	7474841.11	0.0	5.6		388.9		0.0
200710	Trav	554766.25	7469285.31	554766.25	7474840.93	0.0	5.6		394.4		0.0
200720	Trav	554816.25	7469285.12	554816.25	7474840.76	0.0	5.6		400.0		0.0
200730	Trav	554866.25	7469284.94	554866.25	7474840.58	0.0	5.6		405.5		0.0
200740	Trav	554916.25	7469284.75	554916.25	7474840.40	0.0	5.6		411.1		0.0
200750	Trav	554966.25	7469284.57	554966.25	7474840.22	0.0	5.6		416.7		0.0
200760	Trav	555016.25	7469284.39	555016.25	7474840.04	0.0	5.6		422.2		0.0
200770	Trav	555066.25	7469284.20	555066.25	7474839.87	0.0	5.6		427.8		0.0
200780	Trav	555116.25	7469284.02	555116.25	7474839.69	0.0	5.6		433.3		0.0
200790	Trav	555166.25	7469283.84	555166.25	7474839.51	0.0	5.6		438.9		0.0
200800	Trav	555216.25	7469283.65	555216.25	7474839.33	0.0	5.6		444.4		0.0
200810	Trav	555266.25	7469283.47	555266.25	7474839.15	0.0	5.6		450.0		0.0
200820	Trav	555316.25	7469283.28	555316.25	7474838.98	0.0	5.6		455.5		0.0
200830	Trav	555366.25	7469283.10	555366.25	7474838.80	0.0	5.6		461.1		0.0
200840	Trav	555416.25	7469282.92	555416.25	7474838.62	0.0	5.6		466.7		0.0
200850	Trav	555466.25	7469282.73	555466.25	7474838.44	0.0	5.6		472.2		0.0
200860	Trav	555516.25	7469282.55	555516.25	7474838.27	0.0	5.6		477.8		0.0
200870	Trav	555566.25	7469282.36	555566.25	7474838.09	0.0	5.6		483.3		0.0
200880	Trav	555616.25	7469282.18	555616.25	7474837.91	0.0	5.6		488.9		0.0
200890	Trav	555666.25	7469282.00	555666.25	7474837.73	0.0	5.6		494.4		0.0
200900	Trav	555716.25	7469281.81	555716.25	7474837.55	0.0	5.6		500.0		0.0
200910	Trav	555766.25	7469281.63	555766.25	7474837.38	0.0	5.6		505.5		0.0
200920	Trav	555816.25	7469281.45	555816.25	7474837.20	0.0	5.6		511.1		0.0
200930	Trav	555866.25	7469281.26	555866.25	7474837.02	0.0	5.6		516.7		0.0
200940	Trav	555916.25	7469281.08	555916.25	7474836.84	0.0	5.6		522.2		0.0
200950	Trav	555966.25	7469280.89	555966.25	7474836.66	0.0	5.6		527.8		0.0
200960	Trav	556016.25	7469280.71	556016.25	7474836.49	0.0	5.6		533.3		0.0
200970	Trav	556066.25	7469280.53	556066.25	7474836.31	0.0	5.6		538.9		0.0
200980	Trav	556116.25	7469280.34	556116.25	7474836.13	0.0	5.6		544.4		0.0
200990	Trav	556166.25	7469280.16	556166.25	7474835.95	0.0	5.6		550.0		0.0
201000	Trav	556216.25	7469279.97	556216.25	7474835.78	0.0	5.6		555.6		0.0
201010	Trav	556266.25	7469279.79	556266.25	7474835.60	0.0	5.6		561.1		0.0
201020	Trav	556316.25	7469279.61	556316.25	7474835.42	0.0	5.6		566.7		0.0
201030	Trav	556366.25	7469279.42	556366.25	7474835.24	0.0	5.6		572.2		0.0
201040	Trav	556416.25	7469279.24	556416.25	7478524.93	0.0	9.2		581.5		0.0
201050	Trav	556466.25	7469279.06	556466.25	7478524.93	0.0	9.2		590.7		0.0
201060	Trav	556516.25	7469278.87	556516.25	7478524.72	0.0	9.2		600.0		0.0
201070	Trav	556566.25	7469278.69	556566.25	7478524.52	0.0	9.2		609.2		0.0
201080	Trav	556616.25	7469278.50	556616.25	7478524.32	0.0	9.2		618.4		0.0
201090	Trav	556666.25	7469278.32	556666.25	7478524.11	0.0	9.2		627.7		0.0
201100	Trav	556716.25	7469278.14	556716.25	7478523.91	0.0	9.2		636.9		0.0
201110	Trav	556766.25	7469277.95	556766.25	7478523.71	0.0	9.2		646.2		0.0
201120	Trav	556816.25	7469277.77	556816.25	7478523.50	0.0	9.2		655.4		0.0
201130	Trav	556866.25	7469277.58	556866.25	7478523.30	0.0	9.2		664.7		0.0
201140	Trav	556916.25	7469277.40	556916.25	7478523.10	0.0	9.2		673.9		0.0
201150	Trav	556966.25	7469277.22	556966.25	7478522.90	0.0	9.2		683.2		0.0
201160	Trav	557016.25	7469277.03	557016.25	7478522.69	0.0	9.2		692.4		0.0
201170	Trav	557066.25	7469276.85	557066.25	7478522.49	0.0	9.2		701.7		0.0
201180	Trav	557116.25	7469276.67	557116.25	7478522.29	0.0	9.2		710.9		0.0
201190	Trav	557166.25	7469276.48	557166.25	7478522.08	0.0	9.2		720.1		0.0
201200	Trav	557216.25	7469276.30	557216.25	7478521.88	0.0	9.2		729.4		0.0
201210	Trav	557266.25	7469276.11	557266.25	7478521.68	0.0	9.2		738.6		0.0
201220	Trav	557316.25	7469275.93	557316.25	7478521.47	0.0	9.2		747.9		0.0
201230	Trav	557366.25	7469275.75	557366.25	7478521.27	0.0	9.2		757.1		0.0
201240	Trav	557416.25	7469275.56	557416.25	7478521.07	0.0	9.2		766.4		0.0
201250	Trav	557466.25	7469275.38	557466.25	7478520.87	0.0	9.2		775.6		0.0
201260	Trav	557516.25	7469275.19	557516.25	7478520.66	0.0	9.2		784.9		0.0
201270	Trav	557566.25	7469275.01	557566.25	7478520.46	0.0	9.2		794.1		0.0
201280	Trav	557616.25	7469274.83	557616.25	7478520.26	0.0	9.2		803.4		0.0
201290	Trav	557666.25	7469274.64	557666.25	7478520.05	0.0	9.2		812.6		0.0
201300	Trav	557716.25	7469274.46	557716.25	7478519.85	0.0	9.2		821.8		0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
201310	Trav	557766.25	7469274.28	557766.25	7478519.65	0.0	9.2	831.1	0.0		
201320	Trav	557816.25	7469274.09	557816.25	7478519.44	0.0	9.2	840.3	0.0		
201330	Trav	557866.25	7469273.91	557866.25	7478519.24	0.0	9.2	849.6	0.0		
201340	Trav	557916.25	7469273.72	557916.25	7478519.04	0.0	9.2	858.8	0.0		
201350	Trav	557966.25	7469273.54	557966.25	7478518.84	0.0	9.2	868.1	0.0		
201360	Trav	558016.25	7469273.36	558016.25	7478518.63	0.0	9.2	877.3	0.0		
201370	Trav	558066.25	7469273.17	558066.25	7478518.43	0.0	9.2	886.6	0.0		
201380	Trav	558116.25	7469272.99	558116.25	7478518.23	0.0	9.2	895.8	0.0		
201390	Trav	558166.25	7469272.80	558166.25	7478518.02	0.0	9.2	905.1	0.0		
201400	Trav	558216.25	7469272.62	558216.25	7478517.82	0.0	9.2	914.3	0.0		
201410	Trav	558266.25	7469272.44	558266.25	7478517.62	0.0	9.2	923.5	0.0		
201420	Trav	558316.25	7469272.25	558316.25	7478517.42	0.0	9.2	932.8	0.0		
201430	Trav	558366.25	7469272.07	558366.25	7478517.21	0.0	9.2	942.0	0.0		
201440	Trav	558416.25	7469271.88	558416.25	7478517.01	0.0	9.2	951.3	0.0		
201450	Trav	558466.25	7469271.70	558466.25	7478516.81	0.0	9.2	960.5	0.0		
201460	Trav	558516.25	7469271.52	558516.25	7478516.60	0.0	9.2	969.8	0.0		
201470	Trav	558566.25	7469271.33	558566.25	7478516.40	0.0	9.2	979.0	0.0		
201480	Trav	558616.25	7469271.15	558616.25	7478516.20	0.0	9.2	988.3	0.0		
201490	Trav	558666.25	7469270.97	558666.25	7478515.99	0.0	9.2	997.5	0.0		
201500	Trav	558716.25	7469270.78	558716.25	7478515.79	0.0	9.2	1006.8	0.0		
201510	Trav	558766.25	7469270.60	558766.25	7478515.59	0.0	9.2	1016.0	0.0		
201520	Trav	558816.25	7469270.41	558816.25	7478515.39	0.0	9.2	1025.2	0.0		
201530	Trav	558866.25	7469270.23	558866.25	7478515.18	0.0	9.2	1034.5	0.0		
201540	Trav	558916.25	7469270.05	558916.25	7478514.98	0.0	9.2	1043.7	0.0		
201550	Trav	558966.25	7469269.86	558966.25	7478514.78	0.0	9.2	1053.0	0.0		
201560	Trav	559016.25	7469269.68	559016.25	7478514.57	0.0	9.2	1062.2	0.0		
201570	Trav	559066.25	7469269.49	559066.25	7478514.37	0.0	9.2	1071.5	0.0		
201580	Trav	559116.25	7469269.31	559116.25	7478514.17	0.0	9.2	1080.7	0.0		
201590	Trav	559166.25	7469269.13	559166.25	7478513.96	0.0	9.2	1090.0	0.0		
201600	Trav	559216.25	7469268.94	559216.25	7478513.76	0.0	9.2	1099.2	0.0		
201610	Trav	559266.25	7469268.76	559266.25	7478513.56	0.0	9.2	1108.4	0.0		
201620	Trav	559316.25	7469268.58	559316.25	7478513.36	0.0	9.2	1117.7	0.0		
201630	Trav	559366.25	7469268.39	559366.25	7478513.15	0.0	9.2	1126.9	0.0		
201640	Trav	559416.25	7469268.21	559416.25	7478512.95	0.0	9.2	1136.2	0.0		
201650	Trav	559466.25	7469268.02	559466.25	7478512.75	0.0	9.2	1145.4	0.0		
201660	Trav	559516.25	7469267.84	559516.25	7478512.54	0.0	9.2	1154.7	0.0		
201670	Trav	559566.25	7469267.66	559566.25	7478512.34	0.0	9.2	1163.9	0.0		
201680	Trav	559616.25	7469267.47	559616.25	7478512.14	0.0	9.2	1173.2	0.0		
201690	Trav	559666.25	7469267.29	559666.25	7478511.93	0.0	9.2	1182.4	0.0		
201700	Trav	559716.25	7469267.10	559716.25	7478511.73	0.0	9.2	1191.6	0.0		
201710	Trav	559766.25	7469266.92	559766.25	7478511.53	0.0	9.2	1200.9	0.0		
201720	Trav	559816.25	7467421.64	559816.25	7478511.33	0.0	11.1	1212.0	0.0		
201730	Trav	559866.25	7467421.43	559866.25	7478511.12	0.0	11.1	1223.1	0.0		
201740	Trav	559916.25	7467421.22	559916.25	7478510.92	0.0	11.1	1234.2	0.0		
201750	Trav	559966.25	7467421.01	559966.25	7478510.72	0.0	11.1	1245.3	0.0		
201760	Trav	560016.25	7467420.80	560016.25	7478510.51	0.0	11.1	1256.3	0.0		
201770	Trav	560066.25	7467420.58	560066.25	7478510.31	0.0	11.1	1267.4	0.0		
201780	Trav	560116.25	7467420.37	560116.25	7478510.11	0.0	11.1	1278.5	0.0		
201790	Trav	560166.25	7467420.16	560166.25	7478509.90	0.0	11.1	1289.6	0.0		
201800	Trav	560216.25	7467419.95	560216.25	7478509.70	0.0	11.1	1300.7	0.0		
201810	Trav	560266.25	7467419.73	560266.25	7478509.50	0.0	11.1	1311.8	0.0		
201820	Trav	560316.25	7467419.52	560316.25	7478509.30	0.0	11.1	1322.9	0.0		
201830	Trav	560366.25	7467419.31	560366.25	7478509.09	0.0	11.1	1334.0	0.0		
201840	Trav	560416.25	7467419.10	560416.25	7478508.89	0.0	11.1	1345.1	0.0		
201850	Trav	560466.25	7467418.88	560466.25	7478508.69	0.0	11.1	1356.2	0.0		
201860	Trav	560516.25	7467418.67	560516.25	7478508.48	0.0	11.1	1367.2	0.0		
201870	Trav	560566.25	7467418.46	560566.25	7478508.28	0.0	11.1	1378.3	0.0		
201880	Trav	560616.25	7467418.25	560616.25	7478508.08	0.0	11.1	1389.4	0.0		
201890	Trav	560666.25	7467418.04	560666.25	7478507.87	0.0	11.1	1400.5	0.0		
201900	Trav	560716.25	7467417.82	560716.25	7478507.67	0.0	11.1	1411.6	0.0		
201910	Trav	560766.25	7467417.61	560766.25	7478507.47	0.0	11.1	1422.7	0.0		
201920	Trav	560816.25	7467417.40	560816.25	7478507.27	0.0	11.1	1433.8	0.0		
201930	Trav	560866.25	7467417.19	560866.25	7478507.06	0.0	11.1	1444.9	0.0		
201940	Trav	560916.25	7467416.97	560916.25	7478506.86	0.0	11.1	1456.0	0.0		
201950	Trav	560966.25	7467416.76	560966.25	7478506.66	0.0	11.1	1467.0	0.0		



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Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
201960	Trav	561016.25	7467416.55	561016.25	7478506.45	0.0	11.1	1478.1	0.0
201970	Trav	561066.25	7467416.34	561066.25	7478506.25	0.0	11.1	1489.2	0.0
201980	Trav	561116.25	7467416.13	561116.25	7478506.05	0.0	11.1	1500.3	0.0
201990	Trav	561166.25	7467415.91	561166.25	7478505.84	0.0	11.1	1511.4	0.0
202000	Trav	561216.25	7467415.70	561216.25	7478505.64	0.0	11.1	1522.5	0.0
202010	Trav	561266.25	7467415.49	561266.25	7478505.44	0.0	11.1	1533.6	0.0
202020	Trav	561316.25	7467415.28	561316.25	7478505.24	0.0	11.1	1544.7	0.0
202030	Trav	561366.25	7467415.06	561366.25	7478505.03	0.0	11.1	1555.8	0.0
202040	Trav	561416.25	7467414.85	561416.25	7478504.83	0.0	11.1	1566.9	0.0
202050	Trav	561466.25	7467414.64	561466.25	7478504.63	0.0	11.1	1577.9	0.0
202060	Trav	561516.25	7467414.43	561516.25	7478504.42	0.0	11.1	1589.0	0.0
202070	Trav	561566.25	7467414.22	561566.25	7478504.22	0.0	11.1	1600.1	0.0
202080	Trav	561616.25	7467414.00	561616.25	7478504.02	0.0	11.1	1611.2	0.0
202090	Trav	561666.25	7467413.79	561666.25	7478503.81	0.0	11.1	1622.3	0.0
202100	Trav	561716.25	7467413.58	561716.25	7478503.61	0.0	11.1	1633.4	0.0
202110	Trav	561766.25	7467413.37	561766.25	7478503.41	0.0	11.1	1644.5	0.0
202120	Trav	561816.25	7467413.15	561816.25	7478503.21	0.0	11.1	1655.6	0.0
202130	Trav	561866.25	7467412.94	561866.25	7478503.00	0.0	11.1	1666.7	0.0
202140	Trav	561916.25	7467412.73	561916.25	7478502.80	0.0	11.1	1677.8	0.0
202150	Trav	561966.25	7467412.52	561966.25	7478502.60	0.0	11.1	1688.8	0.0
202160	Trav	562016.25	7467412.31	562016.25	7478502.39	0.0	11.1	1699.9	0.0
202170	Trav	562066.25	7467412.09	562066.25	7478502.19	0.0	11.1	1711.0	0.0
202180	Trav	562116.25	7467411.88	562116.25	7478501.99	0.0	11.1	1722.1	0.0
202190	Trav	562166.25	7467411.67	562166.25	7478501.79	0.0	11.1	1733.2	0.0
202200	Trav	562216.25	7467411.46	562216.25	7478501.58	0.0	11.1	1744.3	0.0
202210	Trav	562266.25	7467411.24	562266.25	7478501.38	0.0	11.1	1755.4	0.0
202220	Trav	562316.25	7467411.03	562316.25	7478501.18	0.0	11.1	1766.5	0.0
202230	Trav	562366.25	7467410.82	562366.25	7478500.97	0.0	11.1	1777.6	0.0
202240	Trav	562416.25	7467410.61	562416.25	7478500.77	0.0	11.1	1788.7	0.0
202250	Trav	562466.25	7467410.40	562466.25	7478500.57	0.0	11.1	1799.8	0.0
202260	Trav	562516.25	7467410.18	562516.25	7478500.36	0.0	11.1	1810.8	0.0
202270	Trav	562566.25	7467409.97	562566.25	7478500.16	0.0	11.1	1821.9	0.0
202280	Trav	562616.25	7467409.76	562616.25	7478499.96	0.0	11.1	1833.0	0.0
202290	Trav	562666.25	7467409.55	562666.25	7478499.76	0.0	11.1	1844.1	0.0
202300	Trav	562716.25	7467409.33	562716.25	7478499.55	0.0	11.1	1855.2	0.0
202310	Trav	562766.25	7467409.12	562766.25	7478499.35	0.0	11.1	1866.3	0.0
202320	Trav	562816.25	7467408.91	562816.25	7478499.15	0.0	11.1	1877.4	0.0
202330	Trav	562866.25	7467408.70	562866.25	7478498.94	0.0	11.1	1888.5	0.0
202340	Trav	562916.25	7467408.48	562916.25	7478498.74	0.0	11.1	1899.6	0.0
202350	Trav	562966.25	7467408.27	562966.25	7478498.54	0.0	11.1	1910.7	0.0
202360	Trav	563016.25	7467408.06	563016.25	7478498.33	0.0	11.1	1921.7	0.0
202370	Trav	563066.25	7467407.85	563066.25	7478498.13	0.0	11.1	1932.8	0.0
202380	Trav	563116.25	7467407.64	563116.25	7478497.93	0.0	11.1	1943.9	0.0
202390	Trav	563166.25	7467407.42	563166.25	7478497.73	0.0	11.1	1955.0	0.0
202400	Trav	563216.25	7467407.21	563216.25	7478497.52	0.0	11.1	1966.1	0.0
202410	Trav	563266.25	7467407.00	563266.25	7478497.32	0.0	11.1	1977.2	0.0
202420	Trav	563316.25	7467406.79	563316.25	7478497.12	0.0	11.1	1988.3	0.0
202430	Trav	563366.25	7467406.57	563366.25	7478496.91	0.0	11.1	1999.4	0.0
202440	Trav	563416.25	7467406.36	563416.25	7478496.71	0.0	11.1	2010.5	0.0
202450	Trav	563466.25	7467406.15	563466.25	7478496.51	0.0	11.1	2021.6	0.0
202460	Trav	563516.25	7467405.94	563516.25	7478496.30	0.0	11.1	2032.6	0.0
202470	Trav	563566.25	7467405.73	563566.25	7478496.10	0.0	11.1	2043.7	0.0
202480	Trav	563616.25	7467405.51	563616.25	7478495.90	0.0	11.1	2054.8	0.0
202490	Trav	563666.25	7467405.30	563666.25	7478495.70	0.0	11.1	2065.9	0.0
202500	Trav	563716.25	7467405.09	563716.25	7478495.49	0.0	11.1	2077.0	0.0
202510	Trav	563766.25	7467404.88	563766.25	7478495.29	0.0	11.1	2088.1	0.0
202520	Trav	563816.25	7467404.66	563816.25	7478495.09	0.0	11.1	2099.2	0.0
202530	Trav	563866.25	7467404.45	563866.25	7478494.88	0.0	11.1	2110.3	0.0
202540	Trav	563916.25	7467404.24	563916.25	7478494.68	0.0	11.1	2121.4	0.0
202550	Trav	563966.25	7467404.03	563966.25	7478494.48	0.0	11.1	2132.5	0.0
202560	Trav	564016.25	7467403.82	564016.25	7478494.27	0.0	11.1	2143.6	0.0
202570	Trav	564066.25	7467403.60	564066.25	7478494.07	0.0	11.1	2154.6	0.0
202580	Trav	564116.25	7467403.39	564116.25	7478493.87	0.0	11.1	2165.7	0.0
202590	Trav	564166.25	7467403.18	564166.25	7478493.67	0.0	11.1	2176.8	0.0
202600	Trav	564216.25	7467402.97	564216.25	7478493.46	0.0	11.1	2187.9	0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
202610	Trav	564266.25	7467402.75	564266.25	7478493.26	0.0	11.1	2199.0	0.0
202620	Trav	564316.25	7467402.54	564316.25	7478493.06	0.0	11.1	2210.1	0.0
202630	Trav	564366.25	7467402.33	564366.25	7478492.85	0.0	11.1	2221.2	0.0
202640	Trav	564416.25	7467402.12	564416.25	7478492.65	0.0	11.1	2232.3	0.0
202650	Trav	564466.25	7467401.91	564466.25	7478492.45	0.0	11.1	2243.4	0.0
202660	Trav	564516.25	7467401.69	564516.25	7478492.24	0.0	11.1	2254.5	0.0
202670	Trav	564566.25	7467401.48	564566.25	7478492.04	0.0	11.1	2265.5	0.0
202680	Trav	564616.25	7467401.27	564616.25	7478491.84	0.0	11.1	2276.6	0.0
202690	Trav	564666.25	7467401.06	564666.25	7478491.64	0.0	11.1	2287.7	0.0
202700	Trav	564716.25	7467400.84	564716.25	7478491.43	0.0	11.1	2298.8	0.0
202710	Trav	564766.25	7467400.63	564766.25	7478491.23	0.0	11.1	2309.9	0.0
202720	Trav	564816.25	7467400.42	564816.25	7478491.03	0.0	11.1	2321.0	0.0
202730	Trav	564866.25	7467400.21	564866.25	7478490.82	0.0	11.1	2332.1	0.0
202740	Trav	564916.25	7467400.00	564916.25	7478490.62	0.0	11.1	2343.2	0.0
202750	Trav	564966.25	7467399.78	564966.25	7478490.42	0.0	11.1	2354.3	0.0
202760	Trav	565016.25	7467399.57	565016.25	7478490.21	0.0	11.1	2365.4	0.0
202770	Trav	565066.25	7467399.36	565066.25	7478490.01	0.0	11.1	2376.5	0.0
202780	Trav	565116.25	7467399.15	565116.25	7478489.81	0.0	11.1	2387.5	0.0
202790	Trav	565166.25	7467398.93	565166.25	7478489.61	0.0	11.1	2398.6	0.0
202800	Trav	565216.25	7467398.72	565216.25	7478489.40	0.0	11.1	2409.7	0.0
202810	Trav	565266.25	7467398.51	565266.25	7478489.20	0.0	11.1	2420.8	0.0
202820	Trav	565316.25	7467398.30	565316.25	7478489.00	0.0	11.1	2431.9	0.0
202830	Trav	565366.25	7467398.09	565366.25	7478488.79	0.0	11.1	2443.0	0.0
202840	Trav	565416.25	7467397.87	565416.25	7478488.59	0.0	11.1	2454.1	0.0
202850	Trav	565466.25	7467397.66	565466.25	7478488.39	0.0	11.1	2465.2	0.0
202860	Trav	565516.25	7467397.45	565516.25	7478488.18	0.0	11.1	2476.3	0.0
202870	Trav	565566.25	7467397.24	565566.25	7478487.98	0.0	11.1	2487.4	0.0
202880	Trav	565616.25	7467397.02	565616.25	7478487.78	0.0	11.1	2498.4	0.0
202890	Trav	565666.25	7467396.81	565666.25	7478487.58	0.0	11.1	2509.5	0.0
202900	Trav	565716.25	7467396.60	565716.25	7478487.37	0.0	11.1	2520.6	0.0
202910	Trav	565766.25	7467396.39	565766.25	7478487.17	0.0	11.1	2531.7	0.0
202920	Trav	565816.25	7467396.17	565816.25	7478486.97	0.0	11.1	2542.8	0.0
202930	Trav	565866.25	7467395.96	565866.25	7478486.76	0.0	11.1	2553.9	0.0
202940	Trav	565916.25	7467395.75	565916.25	7478486.56	0.0	11.1	2565.0	0.0
202950	Trav	565966.25	7467395.54	565966.25	7478486.36	0.0	11.1	2576.1	0.0
202960	Trav	566016.25	7467395.33	566016.25	7478486.15	0.0	11.1	2587.2	0.0
202970	Trav	566066.25	7467395.11	566066.25	7478485.95	0.0	11.1	2598.3	0.0
202980	Trav	566116.25	7467394.90	566116.25	7478485.75	0.0	11.1	2609.4	0.0
202990	Trav	566166.25	7467394.69	566166.25	7478485.55	0.0	11.1	2620.4	0.0
203000	Trav	566216.25	7467394.48	566216.25	7478485.34	0.0	11.1	2631.5	0.0
203010	Trav	566266.25	7467394.26	566266.25	7478485.14	0.0	11.1	2642.6	0.0
203020	Trav	566316.25	7467394.05	566316.25	7478484.94	0.0	11.1	2653.7	0.0
203030	Trav	566366.25	7467393.84	566366.25	7478484.73	0.0	11.1	2664.8	0.0
203040	Trav	566416.25	7467393.63	566416.25	7478484.53	0.0	11.1	2675.9	0.0
203050	Trav	566466.25	7467393.42	566466.25	7478484.33	0.0	11.1	2687.0	0.0
203060	Trav	566516.25	7467393.20	566516.25	7478484.13	0.0	11.1	2698.1	0.0
203070	Trav	566566.25	7467392.99	566566.25	7478483.92	0.0	11.1	2709.2	0.0
203080	Trav	566616.25	7467392.78	566616.25	7478483.72	0.0	11.1	2720.3	0.0
203090	Trav	566666.25	7467392.57	566666.25	7478483.52	0.0	11.1	2731.4	0.0
203100	Trav	566716.25	7467392.35	566716.25	7478483.31	0.0	11.1	2742.4	0.0
203110	Trav	566766.25	7467392.14	566766.25	7472947.85	0.0	5.6	2748.0	0.0
203120	Trav	566816.25	7467391.93	566816.25	7472947.61	0.0	5.6	2753.6	0.0
203130	Trav	566866.25	7467391.72	566866.25	7472947.38	0.0	5.6	2759.1	0.0
203140	Trav	566916.25	7467391.51	566916.25	7472947.14	0.0	5.6	2764.7	0.0
203150	Trav	566966.25	7467391.29	566966.25	7472946.90	0.0	5.6	2770.2	0.0
203160	Trav	567016.25	7467391.08	567016.25	7472946.66	0.0	5.6	2775.8	0.0
203170	Trav	567066.25	7467390.87	567066.25	7472946.43	0.0	5.6	2781.3	0.0
203180	Trav	567116.25	7467390.66	567116.25	7472946.19	0.0	5.6	2786.9	0.0
203190	Trav	567166.25	7467390.44	567166.25	7472945.95	0.0	5.6	2792.4	0.0
203200	Trav	567216.25	7467390.23	567216.25	7472945.71	0.0	5.6	2798.0	0.0
203210	Trav	567266.25	7467390.02	567266.25	7472945.48	0.0	5.6	2803.6	0.0
203220	Trav	567316.25	7467389.81	567316.25	7472945.24	0.0	5.6	2809.1	0.0
203230	Trav	567366.25	7467389.60	567366.25	7472945.00	0.0	5.6	2814.7	0.0
203240	Trav	567416.25	7467389.38	567416.25	7472944.77	0.0	5.6	2820.2	0.0
203250	Trav	567466.25	7467389.17	567466.25	7472944.53	0.0	5.6	2825.8	0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
203260	Trav	567516.25	7467388.96	567516.25	7472944.29	0.0	5.6	2831.3	0.0
203270	Trav	567566.25	7467388.75	567566.25	7472944.05	0.0	5.6	2836.9	0.0
203280	Trav	567616.25	7467388.53	567616.25	7472943.82	0.0	5.6	2842.4	0.0
203290	Trav	567666.25	7467388.32	567666.25	7472943.58	0.0	5.6	2848.0	0.0
203300	Trav	567716.25	7467388.11	567716.25	7472943.34	0.0	5.6	2853.6	0.0
203310	Trav	567766.25	7467387.90	567766.25	7472943.10	0.0	5.6	2859.1	0.0
203320	Trav	567816.25	7467387.69	567816.25	7472942.87	0.0	5.6	2864.7	0.0
203330	Trav	567866.25	7467387.47	567866.25	7472942.63	0.0	5.6	2870.2	0.0
203340	Trav	567916.25	7467387.26	567916.25	7472942.39	0.0	5.6	2875.8	0.0
203350	Trav	567966.25	7467387.05	567966.25	7472942.16	0.0	5.6	2881.3	0.0
203360	Trav	568016.25	7467386.84	568016.25	7472941.92	0.0	5.6	2886.9	0.0
203370	Trav	568066.25	7467386.62	568066.25	7472941.68	0.0	5.6	2892.4	0.0
203380	Trav	568116.25	7467386.41	568116.25	7472941.44	0.0	5.6	2898.0	0.0
203390	Trav	568166.25	7467386.20	568166.25	7472941.21	0.0	5.6	2903.6	0.0
203400	Trav	568216.25	7467385.99	568216.25	7472940.97	0.0	5.6	2909.1	0.0
203410	Trav	568266.25	7467385.77	568266.25	7472940.73	0.0	5.6	2914.7	0.0
203420	Trav	568316.25	7467385.56	568316.25	7472940.49	0.0	5.6	2920.2	0.0
203430	Trav	568366.25	7467385.35	568366.25	7472940.26	0.0	5.6	2925.8	0.0
203440	Trav	568416.25	7467385.47	568416.25	7472940.02	0.0	5.6	2931.3	0.0
203450	Trav	568466.25	7469230.00	568466.25	7472939.78	0.0	3.7	2935.0	0.0
203460	Trav	568516.25	7469229.76	568516.25	7472939.54	0.0	3.7	2938.7	0.0
203470	Trav	568566.25	7469229.52	568566.25	7472939.31	0.0	3.7	2942.5	0.0
203480	Trav	568616.25	7469229.28	568616.25	7472939.07	0.0	3.7	2946.2	0.0
203490	Trav	568666.25	7469229.04	568666.25	7472938.83	0.0	3.7	2949.9	0.0
203500	Trav	568716.25	7469228.80	568716.25	7472938.60	0.0	3.7	2953.6	0.0
203510	Trav	568766.25	7469228.56	568766.25	7472938.36	0.0	3.7	2957.3	0.0
203520	Trav	568816.25	7469228.32	568816.25	7472938.12	0.0	3.7	2961.0	0.0
203530	Trav	568866.25	7469228.08	568866.25	7472937.88	0.0	3.7	2964.7	0.0
203540	Trav	568916.25	7469227.84	568916.25	7472937.65	0.0	3.7	2968.4	0.0
203550	Trav	568966.25	7469227.60	568966.25	7472937.41	0.0	3.7	2972.1	0.0
203560	Trav	569016.25	7469227.36	569016.25	7472937.17	0.0	3.7	2975.8	0.0
203570	Trav	569066.25	7469227.12	569066.25	7472936.93	0.0	3.7	2979.6	0.0
203580	Trav	569116.25	7469226.88	569116.25	7472936.70	0.0	3.7	2983.3	0.0
203590	Trav	569166.25	7469226.64	569166.25	7472936.46	0.0	3.7	2987.0	0.0
203600	Trav	569216.25	7469226.40	569216.25	7472936.22	0.0	3.7	2990.7	0.0
203610	Trav	569266.25	7469226.16	569266.25	7472935.98	0.0	3.7	2994.4	0.0
203620	Trav	569316.25	7469225.92	569316.25	7472935.75	0.0	3.7	2998.1	0.0
203630	Trav	569366.25	7469225.68	569366.25	7472935.51	0.0	3.7	3001.8	0.0
203640	Trav	569416.25	7469225.44	569416.25	7472935.27	0.0	3.7	3005.5	0.0
203650	Trav	569466.25	7469225.20	569466.25	7472935.04	0.0	3.7	3009.2	0.0
203660	Trav	569516.25	7469224.96	569516.25	7472934.80	0.0	3.7	3012.9	0.0
203670	Trav	569566.25	7469224.72	569566.25	7472934.56	0.0	3.7	3016.7	0.0
203680	Trav	569616.25	7469224.48	569616.25	7472934.32	0.0	3.7	3020.4	0.0
203690	Trav	569666.25	7469224.24	569666.25	7472934.09	0.0	3.7	3024.1	0.0
203700	Trav	569716.25	7469224.00	569716.25	7472933.85	0.0	3.7	3027.8	0.0
203710	Trav	569766.25	7469223.76	569766.25	7472933.61	0.0	3.7	3031.5	0.0
203720	Trav	569816.25	7469223.51	569816.25	7472933.37	0.0	3.7	3035.2	0.0
203730	Trav	569866.25	7469223.27	569866.25	7472933.14	0.0	3.7	3038.9	0.0
203740	Trav	569916.25	7469223.03	569916.25	7472932.90	0.0	3.7	3042.6	0.0
203750	Trav	569966.25	7469222.79	569966.25	7472932.66	0.0	3.7	3046.3	0.0
203760	Trav	570016.25	7469222.55	570016.25	7472932.42	0.0	3.7	3050.0	0.0
203770	Trav	570066.25	7469222.31	570066.25	7472932.19	0.0	3.7	3053.8	0.0
203780	Trav	570116.25	7469222.07	570116.25	7472931.95	0.0	3.7	3057.5	0.0
203790	Trav	570166.25	7469221.83	570166.25	7472931.71	0.0	3.7	3061.2	0.0
203800	Trav	570216.25	7469221.59	570216.25	7472931.48	0.0	3.7	3064.9	0.0
203810	Trav	570266.25	7469221.35	570266.25	7472931.24	0.0	3.7	3068.6	0.0
203820	Trav	570316.25	7469221.11	570316.25	7472931.00	0.0	3.7	3072.3	0.0
203830	Trav	570366.25	7469220.87	570366.25	7472930.76	0.0	3.7	3076.0	0.0
203840	Trav	570416.25	7469220.63	570416.25	7472930.88	0.0	3.7	3079.7	0.0
203850	Trav	570466.25	7469220.39	570466.25	7472930.88	0.0	3.7	3083.4	0.0
203860	Trav	570516.25	7469220.15	570516.25	7472930.88	0.0	3.7	3087.1	0.0
203870	Trav	570566.25	7469219.91	570566.25	7472930.88	0.0	3.7	3090.9	0.0
203880	Trav	570616.25	7469219.67	570616.25	7472930.88	0.0	3.7	3094.6	0.0
203890	Trav	570666.25	7469219.43	570666.25	7472930.88	0.0	3.7	3098.3	0.0
203900	Trav	570716.25	7469219.19	570716.25	7472930.88	0.0	3.7	3102.0	0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
203910	Trav	570766.25	7469218.95	570766.25	7472930.88	0.0	3.7	3105.7	0.0
203920	Trav	570816.25	7469218.71	570816.25	7472930.88	0.0	3.7	3109.4	0.0
203930	Trav	570866.25	7469218.47	570866.25	7472930.88	0.0	3.7	3113.1	0.0
203940	Trav	570916.25	7469218.23	570916.25	7472930.88	0.0	3.7	3116.8	0.0
203950	Trav	570966.25	7469217.99	570966.25	7472930.88	0.0	3.7	3120.6	0.0
203960	Trav	571016.25	7469217.75	571016.25	7472930.88	0.0	3.7	3124.3	0.0
203970	Trav	571066.25	7469217.51	571066.25	7472930.88	0.0	3.7	3128.0	0.0
203980	Trav	571116.25	7469217.27	571116.25	7472930.88	0.0	3.7	3131.7	0.0
203990	Trav	571166.25	7469217.03	571166.25	7472930.88	0.0	3.7	3135.4	0.0
204000	Trav	571216.25	7469216.79	571216.25	7472930.88	0.0	3.7	3139.1	0.0
204010	Trav	571266.25	7469216.54	571266.25	7472930.88	0.0	3.7	3142.8	0.0
204020	Trav	571316.25	7469216.30	571316.25	7472930.88	0.0	3.7	3146.5	0.0
204030	Trav	571366.25	7469216.06	571366.25	7472930.88	0.0	3.7	3150.3	0.0
204040	Trav	571416.25	7469215.82	571416.25	7472930.88	0.0	3.7	3154.0	0.0
204050	Trav	571466.25	7469215.58	571466.25	7472930.88	0.0	3.7	3157.7	0.0
204060	Trav	571516.25	7469215.34	571516.25	7472930.88	0.0	3.7	3161.4	0.0
204070	Trav	571566.25	7469215.10	571566.25	7472930.88	0.0	3.7	3165.1	0.0
204080	Trav	571616.25	7469214.86	571616.25	7472930.88	0.0	3.7	3168.8	0.0
204090	Trav	571666.25	7469214.62	571666.25	7472930.88	0.0	3.7	3172.6	0.0
204100	Trav	571716.25	7469214.38	571716.25	7472930.88	0.0	3.7	3176.3	0.0
204110	Trav	571766.25	7469214.14	571766.25	7472930.88	0.0	3.7	3180.0	0.0
204120	Trav	571816.25	7469213.90	571816.25	7472930.88	0.0	3.7	3183.7	0.0
204130	Trav	571866.25	7469213.66	571866.25	7472930.88	0.0	3.7	3187.4	0.0
204140	Trav	571916.25	7469213.42	571916.25	7472930.88	0.0	3.7	3191.1	0.0
204150	Trav	571966.25	7469213.18	571966.25	7472930.88	0.0	3.7	3194.9	0.0
204160	Trav	572016.25	7469212.94	572016.25	7472930.88	0.0	3.7	3198.6	0.0
204170	Trav	572066.25	7469212.70	572066.25	7472930.88	0.0	3.7	3202.3	0.0
204180	Trav	572116.25	7469212.46	572116.25	7472930.88	0.0	3.7	3206.0	0.0
204190	Trav	572166.25	7469212.22	572166.25	7472930.88	0.0	3.7	3209.7	0.0
204200	Trav	572216.25	7469211.98	572216.25	7472930.88	0.0	3.7	3213.5	0.0
204210	Trav	572266.25	7469211.74	572266.25	7472930.88	0.0	3.7	3217.2	0.0
204220	Trav	572316.25	7469211.50	572316.25	7472930.88	0.0	3.7	3220.9	0.0
204230	Trav	572366.25	7469211.26	572366.25	7472930.88	0.0	3.7	3224.6	0.0
204240	Trav	572416.25	7469211.02	572416.25	7472930.88	0.0	3.7	3228.3	0.0
204250	Trav	572466.25	7469210.78	572466.25	7472930.88	0.0	3.7	3232.0	0.0
204260	Trav	572516.25	7469210.54	572516.25	7472930.88	0.0	3.7	3235.8	0.0
204270	Trav	572566.25	7469210.30	572566.25	7472930.88	0.0	3.7	3239.5	0.0
204280	Trav	572616.25	7469210.06	572616.25	7472930.88	0.0	3.7	3243.2	0.0
204290	Trav	572666.25	7469209.81	572666.25	7472930.88	0.0	3.7	3246.9	0.0
204300	Trav	572716.25	7469209.57	572716.25	7472930.88	0.0	3.7	3250.7	0.0
204310	Trav	572766.25	7469209.33	572766.25	7472930.88	0.0	3.7	3254.4	0.0
204320	Trav	572816.25	7469209.09	572816.25	7472930.88	0.0	3.7	3258.1	0.0
204330	Trav	572866.25	7469208.85	572866.25	7472930.88	0.0	3.7	3261.8	0.0
204340	Trav	572916.25	7469208.61	572916.25	7472930.88	0.0	3.7	3265.5	0.0
204350	Trav	572966.25	7469208.37	572966.25	7472930.88	0.0	3.7	3269.3	0.0
204360	Trav	573016.25	7469208.13	573016.25	7472930.88	0.0	3.7	3273.0	0.0
204370	Trav	573066.25	7469207.89	573066.25	7472930.88	0.0	3.7	3276.7	0.0
204380	Trav	573116.25	7469207.65	573116.25	7472930.88	0.0	3.7	3280.4	0.0
204390	Trav	573166.25	7469207.41	573166.25	7472930.88	0.0	3.7	3284.2	0.0
204400	Trav	573216.25	7469207.17	573216.25	7472930.88	0.0	3.7	3287.9	0.0
204410	Trav	573266.25	7469206.93	573266.25	7472930.88	0.0	3.7	3291.6	0.0
204420	Trav	573316.25	7469206.69	573316.25	7472930.88	0.0	3.7	3295.3	0.0
204430	Trav	573366.25	7469206.45	573366.25	7472930.88	0.0	3.7	3299.1	0.0
204440	Trav	573416.25	7469206.21	573416.25	7472930.88	0.0	3.7	3302.8	0.0
204450	Trav	573466.25	7469205.97	573466.25	7472930.88	0.0	3.7	3306.5	0.0
204460	Trav	573516.25	7469205.73	573516.25	7472930.88	0.0	3.7	3310.2	0.0
204470	Trav	573566.25	7469205.49	573566.25	7472930.88	0.0	3.7	3314.0	0.0
204480	Trav	573616.25	7469205.25	573616.25	7472930.88	0.0	3.7	3317.7	0.0
204490	Trav	573666.25	7469205.01	573666.25	7472930.88	0.0	3.7	3321.4	0.0
204500	Trav	573716.25	7469204.77	573716.25	7472930.88	0.0	3.7	3325.1	0.0
204510	Trav	573766.25	7469204.53	573766.25	7472930.88	0.0	3.7	3328.9	0.0
204520	Trav	573816.25	7469204.29	573816.25	7472930.88	0.0	3.7	3332.6	0.0
204530	Trav	573866.25	7469204.05	573866.25	7472930.88	0.0	3.7	3336.3	0.0
204540	Trav	573916.25	7469203.81	573916.25	7472930.88	0.0	3.7	3340.0	0.0
204550	Trav	573966.25	7469203.57	573966.25	7472930.88	0.0	3.7	3343.8	0.0



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
204560	Trav	574016.25	7469203.33	574016.25	7472930.88	0.0	3.7	3347.5	0.0
204570	Trav	574066.25	7469203.08	574066.25	7472930.88	0.0	3.7	3351.2	0.0
204580	Trav	574116.25	7469202.84	574116.25	7472930.88	0.0	3.7	3354.9	0.0
204590	Trav	574166.25	7469202.60	574166.25	7472930.88	0.0	3.7	3358.7	0.0
204600	Trav	574216.25	7469202.36	574216.25	7472930.88	0.0	3.7	3362.4	0.0
204610	Trav	574266.25	7469202.12	574266.25	7472930.88	0.0	3.7	3366.1	0.0
204620	Trav	574316.25	7469201.88	574316.25	7472930.88	0.0	3.7	3369.9	0.0
204630	Trav	574366.25	7469201.64	574366.25	7472930.88	0.0	3.7	3373.6	0.0
204640	Trav	574416.25	7469201.40	574416.25	7472930.88	0.0	3.7	3377.3	0.0
204650	Trav	574466.25	7469201.16	574466.25	7472930.88	0.0	3.7	3381.1	0.0
204660	Trav	574516.25	7469200.92	574516.25	7472930.88	0.0	3.7	3384.8	0.0
204670	Trav	574566.25	7469200.68	574566.25	7472930.88	0.0	3.7	3388.5	0.0
204680	Trav	574616.25	7469200.44	574616.25	7472930.88	0.0	3.7	3392.2	0.0
204690	Trav	574666.25	7469200.20	574666.25	7472930.88	0.0	3.7	3396.0	0.0
204700	Trav	574716.25	7469199.96	574716.25	7472930.88	0.0	3.7	3399.7	0.0
204710	Trav	574766.25	7469199.72	574766.25	7472930.88	0.0	3.7	3403.4	0.0
204720	Trav	574816.25	7469199.48	574816.25	7472930.88	0.0	3.7	3407.2	0.0
204730	Trav	574866.25	7469199.24	574866.25	7472930.88	0.0	3.7	3410.9	0.0
204740	Trav	574916.25	7469199.00	574916.25	7472930.88	0.0	3.7	3414.6	0.0
204750	Trav	574966.25	7469198.76	574966.25	7472930.88	0.0	3.7	3418.4	0.0
204760	Trav	575016.25	7469198.52	575016.25	7472930.88	0.0	3.7	3422.1	0.0
204770	Trav	575066.25	7469198.28	575066.25	7472930.88	0.0	3.7	3425.8	0.0
204780	Trav	575116.25	7469198.04	575116.25	7472930.88	0.0	3.7	3429.6	0.0
204790	Trav	575166.25	7469197.80	575166.25	7472930.88	0.0	3.7	3433.3	0.0
204800	Trav	575216.25	7469197.56	575216.25	7472930.88	0.0	3.7	3437.0	0.0
204810	Trav	575266.25	7469197.32	575266.25	7472930.88	0.0	3.7	3440.8	0.0
204820	Trav	575316.25	7469197.08	575316.25	7472930.88	0.0	3.7	3444.5	0.0
204830	Trav	575366.25	7469196.84	575366.25	7472930.88	0.0	3.7	3448.2	0.0
204840	Trav	575416.25	7469196.60	575416.25	7472930.88	0.0	3.7	3452.0	0.0
204850	Trav	575466.25	7469196.36	575466.25	7472930.88	0.0	3.7	3455.7	0.0
204860	Trav	575516.25	7469196.11	575516.25	7472930.88	0.0	3.7	3459.4	0.0
204870	Trav	575566.25	7469195.87	575566.25	7472930.88	0.0	3.7	3463.2	0.0
204880	Trav	575616.25	7469195.63	575616.25	7472930.88	0.0	3.7	3466.9	0.0
204890	Trav	575666.25	7469195.39	575666.25	7472930.88	0.0	3.7	3470.6	0.0
204900	Trav	575716.25	7469195.15	575716.25	7472930.88	0.0	3.7	3474.4	0.0
204910	Trav	575766.25	7469194.91	575766.25	7472930.88	0.0	3.7	3478.1	0.0
204920	Trav	575816.25	7469194.67	575816.25	7472930.88	0.0	3.7	3481.8	0.0
204930	Trav	575866.25	7469194.43	575866.25	7472930.88	0.0	3.7	3485.6	0.0
204940	Trav	575916.25	7469194.19	575916.25	7472930.88	0.0	3.7	3489.3	0.0
204950	Trav	575966.25	7469193.95	575966.25	7472930.88	0.0	3.7	3493.1	0.0
204960	Trav	576016.25	7469193.71	576016.25	7472930.88	0.0	3.7	3496.8	0.0
204970	Trav	576066.25	7469193.47	576066.25	7472930.88	0.0	3.7	3500.5	0.0
204980	Trav	576116.25	7469193.23	576116.25	7472930.88	0.0	3.7	3504.3	0.0
204990	Trav	576166.25	7469192.99	576166.25	7472930.88	0.0	3.7	3508.0	0.0
205000	Trav	576216.25	7469192.75	576216.25	7472930.88	0.0	3.7	3511.7	0.0
205010	Trav	576266.25	7469192.51	576266.25	7472930.88	0.0	3.7	3515.5	0.0
205020	Trav	576316.25	7469192.27	576316.25	7472930.88	0.0	3.7	3519.2	0.0
205030	Trav	576366.25	7469192.03	576366.25	7472930.88	0.0	3.7	3523.0	0.0
205040	Trav	576416.25	7469191.79	576416.25	7472930.88	0.0	3.7	3526.7	0.0
205050	Trav	576466.25	7469191.55	576466.25	7472930.88	0.0	3.7	3530.4	0.0
205060	Trav	576516.25	7469191.31	576516.25	7472930.88	0.0	3.7	3534.2	0.0
205070	Trav	576566.25	7469191.07	576566.25	7472930.88	0.0	3.7	3537.9	0.0
205080	Trav	576616.25	7469190.83	576616.25	7472930.88	0.0	3.7	3541.7	0.0
205090	Trav	576666.25	7469190.59	576666.25	7472930.88	0.0	3.7	3545.4	0.0
205100	Trav	576716.25	7469190.35	576716.25	7472930.88	0.0	3.7	3549.1	0.0
205110	Trav	576766.25	7469190.11	576766.25	7472930.88	0.0	3.7	3552.9	0.0
205120	Trav	576816.25	7469189.87	576816.25	7472930.88	0.0	3.7	3556.6	0.0
205130	Trav	576866.25	7469189.63	576866.25	7472930.88	0.0	3.7	3560.4	0.0
205140	Trav	576916.25	7469189.38	576916.25	7472930.88	0.0	3.7	3564.1	0.0
205150	Trav	576966.25	7469189.14	576966.25	7472930.88	0.0	3.7	3567.8	0.0
290010	Tie	559738.13	7467480.53	568497.15	7467480.53	90.0	8.8	3567.8	8.8
290020	Tie	559738.12	7467881.11	568496.71	7467881.11	90.0	8.8	3567.8	17.5
290030	Tie	559738.12	7468381.11	568496.71	7468381.11	90.0	8.8	3567.8	26.3
290040	Tie	559738.12	7468881.11	568496.71	7468881.11	90.0	8.8	3567.8	35.0
290050	Tie	568318.36	7469276.43	577046.53	7469236.36	90.3	8.7	3567.8	43.8



Bruce (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv Cumul	Ti Cumul
290060	Tie	551188.12	7469381.11	577046.71	7469381.11	90.0	25.9	3567.8	69.6
290070	Tie	551188.12	7469881.11	577046.71	7469881.11	90.0	25.9	3567.8	95.5
290080	Tie	551188.12	7470381.11	577046.71	7470381.11	90.0	25.9	3567.8	121.3
290090	Tie	551188.12	7470881.11	577046.71	7470881.11	90.0	25.9	3567.8	147.2
290100	Tie	551188.12	7471381.11	577046.71	7471381.11	90.0	25.9	3567.8	173.1
290110	Tie	551188.12	7471881.11	577046.71	7471881.11	90.0	25.9	3567.8	198.9
290120	Tie	551188.12	7472381.11	577046.71	7472381.11	90.0	25.9	3567.8	224.8
290130	Tie	551188.12	7472881.11	577046.71	7472881.11	90.0	25.9	3567.8	250.6
290140	Tie	551188.12	7473381.11	566796.71	7473381.11	90.0	15.6	3567.8	266.2
290150	Tie	551188.12	7473881.11	566796.71	7473881.11	90.0	15.6	3567.8	281.8
290160	Tie	551188.12	7474381.11	566796.71	7474381.11	90.0	15.6	3567.8	297.5
290170	Tie	551187.70	7474784.11	556473.28	7474784.11	90.0	5.3	3567.8	302.7
290180	Tie	556338.12	7474881.11	566796.71	7474881.11	90.0	10.5	3567.8	313.2
290190	Tie	556338.12	7475381.11	566796.71	7475381.11	90.0	10.5	3567.8	323.7
290200	Tie	556338.12	7475881.11	566796.71	7475881.11	90.0	10.5	3567.8	334.1
290210	Tie	556338.12	7476381.11	566796.71	7476381.11	90.0	10.5	3567.8	344.6
290220	Tie	556338.12	7476881.11	566796.71	7476881.11	90.0	10.5	3567.8	355.0
290230	Tie	556338.12	7477381.11	566796.25	7477381.11	90.0	10.5	3567.8	365.5
290240	Tie	556338.12	7477881.11	566796.25	7477881.11	90.0	10.5	3567.8	376.0
290250	Tie	556338.12	7478381.11	566796.25	7478381.11	90.0	10.5	3567.8	386.4



Box Hole

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
300010	Trav	581749.38	7525481.39	583076.02	7525836.89	75.0	1.4		1.4		0.0
300020	Trav	580303.88	7525145.85	583064.55	7525885.57	75.0	2.9		4.2		0.0
300030	Trav	578834.25	7524803.83	583053.07	7525934.26	75.0	4.4		8.6		0.0
300040	Trav	578538.36	7524776.32	583041.59	7525982.96	75.0	4.7		13.3		0.0
300050	Trav	578524.63	7524824.41	583030.12	7526031.65	75.0	4.7		17.9		0.0
300060	Trav	578512.40	7524872.89	583018.67	7526080.34	75.0	4.7		22.6		0.0
300070	Trav	578500.18	7524921.38	583007.18	7526129.02	75.0	4.7		27.3		0.0
300080	Trav	578487.96	7524969.87	582995.71	7526177.72	75.0	4.7		31.9		0.0
300090	Trav	578475.74	7525018.36	582984.24	7526226.41	75.0	4.7		36.6		0.0
300100	Trav	578463.52	7525066.86	582972.76	7526275.11	75.0	4.7		41.3		0.0
300110	Trav	578451.30	7525115.34	582961.29	7526323.79	75.0	4.7		45.9		0.0
300120	Trav	578439.08	7525163.83	582949.82	7526372.48	75.0	4.7		50.6		0.0
300130	Trav	578426.86	7525212.32	582938.34	7526421.17	75.0	4.7		55.3		0.0
300140	Trav	578414.64	7525260.81	582926.86	7526469.85	75.0	4.7		59.9		0.0
300150	Trav	578402.41	7525309.29	582915.40	7526518.54	75.0	4.7		64.6		0.0
300160	Trav	578390.19	7525357.79	582903.93	7526567.24	75.0	4.7		69.3		0.0
300170	Trav	578377.97	7525406.27	582892.46	7526615.92	75.0	4.7		74.0		0.0
300180	Trav	578365.75	7525454.77	582880.99	7526664.62	75.0	4.7		78.6		0.0
300190	Trav	578353.53	7525503.25	582869.51	7526713.30	75.0	4.7		83.3		0.0
300200	Trav	578341.31	7525551.74	582858.04	7526761.99	75.0	4.7		88.0		0.0
300210	Trav	578329.09	7525600.23	582846.57	7526810.68	75.0	4.7		92.7		0.0
300220	Trav	578316.87	7525648.72	582835.09	7526859.37	75.0	4.7		97.3		0.0
300230	Trav	578304.65	7525697.20	582823.62	7526908.05	75.0	4.7		102.0		0.0
300240	Trav	578292.42	7525745.70	582812.15	7526956.76	75.0	4.7		106.7		0.0
300250	Trav	578280.20	7525794.18	582800.68	7527005.44	75.0	4.7		111.4		0.0
300260	Trav	578267.98	7525842.68	582789.21	7527054.14	75.0	4.7		116.1		0.0
300270	Trav	578255.76	7525891.16	582777.73	7527102.82	75.0	4.7		120.7		0.0
300280	Trav	578243.54	7525939.65	582766.26	7527151.51	75.0	4.7		125.4		0.0
300290	Trav	578231.32	7525988.14	582754.79	7527200.20	75.0	4.7		130.1		0.0
300300	Trav	578219.10	7526036.63	582743.31	7527248.89	75.0	4.7		134.8		0.0
300310	Trav	578206.87	7526085.13	582731.84	7527297.59	75.0	4.7		139.5		0.0
300320	Trav	578194.65	7526133.61	582720.37	7527346.27	75.0	4.7		144.2		0.0
300330	Trav	578182.43	7526182.09	582708.90	7527394.95	75.0	4.7		148.8		0.0
300340	Trav	578170.21	7526230.60	582697.43	7527443.66	75.0	4.7		153.5		0.0
300350	Trav	578157.99	7526279.08	582685.95	7527492.34	75.0	4.7		158.2		0.0
300360	Trav	578145.77	7526327.56	582674.48	7527541.02	75.0	4.7		162.9		0.0
300370	Trav	578133.55	7526376.06	582663.00	7527589.72	75.0	4.7		167.6		0.0
300380	Trav	578121.33	7526424.54	582651.53	7527638.40	75.0	4.7		172.3		0.0
300390	Trav	578109.10	7526473.04	582640.05	7527687.10	75.0	4.7		177.0		0.0
300400	Trav	578096.88	7526521.52	582628.59	7527735.79	75.0	4.7		181.7		0.0
300410	Trav	578084.66	7526570.01	582617.12	7527784.48	75.0	4.7		186.4		0.0
300420	Trav	578072.44	7526618.50	582605.64	7527833.17	75.0	4.7		191.1		0.0
300430	Trav	578060.22	7526666.99	582594.17	7527881.86	75.0	4.7		195.7		0.0
300440	Trav	578048.00	7526715.47	582582.70	7527930.54	75.0	4.7		200.4		0.0
300450	Trav	578035.78	7526763.97	582571.22	7527979.23	75.0	4.7		205.1		0.0
300460	Trav	578023.56	7526812.46	582559.75	7528027.93	75.0	4.7		209.8		0.0
300470	Trav	578011.33	7526860.96	582548.27	7528076.63	75.0	4.7		214.5		0.0
300480	Trav	577999.11	7526909.43	582536.82	7528125.30	75.0	4.7		219.2		0.0
300490	Trav	577986.89	7526957.92	582525.33	7528173.99	75.0	4.7		223.9		0.0
300500	Trav	577974.67	7527006.42	582513.86	7528222.69	75.0	4.7		228.6		0.0
300510	Trav	577962.45	7527054.90	582502.39	7528271.37	75.0	4.7		233.3		0.0
300520	Trav	577950.22	7527103.40	582490.91	7528320.07	75.0	4.7		238.0		0.0
300530	Trav	577938.01	7527151.88	582479.43	7528368.75	75.0	4.7		242.7		0.0
300540	Trav	577925.79	7527200.37	582467.97	7528417.44	75.0	4.7		247.4		0.0
300550	Trav	577913.56	7527248.87	582456.49	7528466.14	75.0	4.7		252.1		0.0
300560	Trav	577901.34	7527297.35	582445.03	7528514.82	75.0	4.7		256.8		0.0
300570	Trav	577889.12	7527345.83	582433.55	7528563.50	75.0	4.7		261.5		0.0
300580	Trav	577876.90	7527394.33	582422.08	7528612.21	75.0	4.7		266.2		0.0
300590	Trav	577864.68	7527442.81	582410.61	7528660.89	75.0	4.7		271.0		0.0
300600	Trav	577852.45	7527491.32	582399.13	7528709.60	75.0	4.7		275.7		0.0
300610	Trav	577840.24	7527539.79	582387.66	7528758.27	75.0	4.7		280.4		0.0
300620	Trav	577828.02	7527588.28	582376.19	7528806.96	75.0	4.7		285.1		0.0
300630	Trav	577815.79	7527636.77	582364.72	7528855.65	75.0	4.7		289.8		0.0
300640	Trav	577803.57	7527685.26	582353.25	7528904.34	75.0	4.7		294.5		0.0
300650	Trav	577791.35	7527733.74	582341.77	7528953.02	75.0	4.7		299.2		0.0



Box Hole (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
300660	Trav	577779.13	7527782.24	582330.30	7529001.72	75.0	4.7		303.9		0.0
300670	Trav	577766.91	7527830.73	582318.82	7529050.41	75.0	4.7		308.6		0.0
300680	Trav	577754.68	7527879.23	582307.36	7529099.11	75.0	4.7		313.3		0.0
300690	Trav	577742.47	7527927.71	582295.88	7529147.79	75.0	4.7		318.1		0.0
300700	Trav	577730.25	7527976.19	582284.42	7529196.47	75.0	4.7		322.8		0.0
300710	Trav	577718.02	7528024.69	582272.94	7529245.17	75.0	4.7		327.5		0.0
300720	Trav	577705.80	7528073.17	582261.46	7529293.85	75.0	4.7		332.2		0.0
300730	Trav	577693.58	7528121.68	582249.99	7529342.56	75.0	4.7		336.9		0.0
300740	Trav	577681.36	7528170.15	582238.52	7529391.24	75.0	4.7		341.6		0.0
300750	Trav	577669.14	7528218.64	582227.05	7529439.93	75.0	4.7		346.4		0.0
300760	Trav	577656.91	7528267.14	582215.58	7529488.63	75.0	4.7		351.1		0.0
300770	Trav	577644.70	7528315.62	582204.10	7529537.31	75.0	4.7		355.8		0.0
300780	Trav	577632.48	7528364.11	582192.62	7529585.99	75.0	4.7		360.5		0.0
300790	Trav	577620.25	7528412.60	582181.16	7529634.69	75.0	4.7		365.2		0.0
300800	Trav	577608.03	7528461.08	582169.68	7529683.37	75.0	4.7		370.0		0.0
300810	Trav	577595.81	7528509.59	582158.21	7529732.08	75.0	4.7		374.7		0.0
300820	Trav	577583.59	7528558.07	582146.74	7529780.76	75.0	4.7		379.4		0.0
300830	Trav	577571.37	7528606.55	582135.27	7529829.44	75.0	4.7		384.1		0.0
300840	Trav	577559.15	7528655.05	582123.79	7529878.14	75.0	4.7		388.9		0.0
300850	Trav	577546.93	7528703.53	582112.32	7529926.82	75.0	4.7		393.6		0.0
300860	Trav	577534.71	7528752.02	582100.85	7529975.51	75.0	4.7		398.3		0.0
300870	Trav	577522.48	7528800.51	582089.38	7530024.20	75.0	4.7		403.0		0.0
300880	Trav	577510.26	7528849.00	582077.90	7530072.89	75.0	4.7		407.8		0.0
300890	Trav	577498.04	7528897.50	582066.42	7530121.59	75.0	4.7		412.5		0.0
300900	Trav	577485.82	7528945.98	582054.96	7530170.27	75.0	4.7		417.2		0.0
300910	Trav	577473.60	7528994.46	582043.49	7530218.96	75.0	4.7		422.0		0.0
300920	Trav	577461.38	7529042.96	582032.01	7530267.66	75.0	4.7		426.7		0.0
300930	Trav	577449.16	7529091.45	582020.54	7530316.34	75.0	4.7		431.4		0.0
300940	Trav	577436.93	7529139.95	582009.06	7530365.05	75.0	4.7		436.2		0.0
300950	Trav	577424.71	7529188.42	581997.60	7530413.72	75.0	4.7		440.9		0.0
300960	Trav	577412.49	7529236.91	581986.12	7530462.41	75.0	4.7		445.6		0.0
300970	Trav	577400.27	7529285.42	581974.64	7530511.12	75.0	4.7		450.4		0.0
300980	Trav	577388.05	7529333.89	581963.18	7530559.79	75.0	4.7		455.1		0.0
300990	Trav	577375.83	7529382.38	581951.71	7530608.48	75.0	4.7		459.8		0.0
301000	Trav	577363.61	7529430.87	581940.23	7530657.17	75.0	4.7		464.6		0.0
301010	Trav	577351.39	7529479.36	581928.76	7530705.86	75.0	4.7		469.3		0.0
301020	Trav	577339.16	7529527.86	581917.28	7530754.56	75.0	4.7		474.1		0.0
301030	Trav	577326.94	7529576.34	581905.80	7530803.24	75.0	4.7		478.8		0.0
301040	Trav	577314.72	7529624.82	581894.34	7530851.92	75.0	4.7		483.5		0.0
301050	Trav	577302.50	7529673.32	581882.87	7530900.62	75.0	4.7		488.3		0.0
301060	Trav	577290.28	7529721.80	581871.40	7530949.31	75.0	4.7		493.0		0.0
301070	Trav	577278.06	7529770.29	581859.93	7530998.00	75.0	4.7		497.8		0.0
301080	Trav	577265.84	7529818.78	581848.45	7531046.69	75.0	4.7		502.5		0.0
301090	Trav	577253.62	7529867.27	581836.99	7531095.38	75.0	4.7		507.3		0.0
301100	Trav	577241.39	7529915.78	581825.50	7531144.09	75.0	4.7		512.0		0.0
301110	Trav	577229.17	7529964.25	581814.03	7531192.76	75.0	4.7		516.8		0.0
301120	Trav	577216.95	7530012.73	581802.56	7531241.44	75.0	4.7		521.5		0.0
301130	Trav	577204.73	7530061.23	581791.09	7531290.14	75.0	4.7		526.2		0.0
301140	Trav	577192.51	7530109.72	581779.62	7531338.83	75.0	4.7		531.0		0.0
301150	Trav	577180.29	7530158.20	581768.14	7531387.51	75.0	4.7		535.7		0.0
301160	Trav	577168.07	7530206.70	581756.67	7531436.21	75.0	4.8		540.5		0.0
301170	Trav	577155.85	7530255.18	581745.20	7531484.89	75.0	4.8		545.2		0.0
301180	Trav	577143.62	7530303.69	581733.73	7531533.60	75.0	4.8		550.0		0.0
301190	Trav	577131.40	7530352.16	581722.25	7531582.27	75.0	4.8		554.8		0.0
301200	Trav	577119.18	7530400.65	581710.78	7531630.96	75.0	4.8		559.5		0.0
301210	Trav	577106.96	7530449.14	581699.31	7531679.65	75.0	4.8		564.3		0.0
301220	Trav	577094.74	7530497.63	581687.84	7531728.35	75.0	4.8		569.0		0.0
301230	Trav	577082.51	7530546.14	581676.36	7531777.06	75.0	4.8		573.8		0.0
301240	Trav	577070.30	7530594.61	581664.89	7531825.72	75.0	4.8		578.5		0.0
301250	Trav	577058.08	7530643.10	581653.42	7531874.42	75.0	4.8		583.3		0.0
301260	Trav	577045.85	7530691.60	581641.95	7531923.12	75.0	4.8		588.0		0.0
301270	Trav	577033.63	7530740.07	581630.47	7531971.79	75.0	4.8		592.8		0.0
301280	Trav	577021.41	7530788.56	581619.00	7532020.48	75.0	4.8		597.6		0.0
301290	Trav	577009.19	7530837.06	581607.53	7532069.18	75.0	4.8		602.3		0.0
301300	Trav	576996.97	7530885.54	581596.06	7532117.86	75.0	4.8		607.1		0.0



Box Hole (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
301310	Trav	576984.74	7530934.05	581584.57	7532166.57	75.0	4.8		611.8		0.0
301320	Trav	576972.53	7530982.52	581573.11	7532215.24	75.0	4.8		616.6		0.0
301330	Trav	576960.31	7531031.01	581561.64	7532263.93	75.0	4.8		621.4		0.0
301340	Trav	576948.08	7531079.50	581550.16	7532312.62	75.0	4.8		626.1		0.0
301350	Trav	576935.86	7531127.99	581538.69	7532361.31	75.0	4.8		630.9		0.0
301360	Trav	576923.64	7531176.47	581527.22	7532409.99	75.0	4.8		635.7		0.0
301370	Trav	576911.42	7531224.97	581515.75	7532458.69	75.0	4.8		640.4		0.0
301380	Trav	576899.20	7531273.45	581504.27	7532507.37	75.0	4.8		645.2		0.0
301390	Trav	576886.97	7531321.96	581492.79	7532556.08	75.0	4.8		650.0		0.0
301400	Trav	576874.76	7531370.44	581481.33	7532604.76	75.0	4.8		654.7		0.0
301410	Trav	576862.54	7531418.92	581469.86	7532653.45	75.0	4.8		659.5		0.0
301420	Trav	576850.31	7531467.41	581458.38	7532702.14	75.0	4.8		664.3		0.0
301430	Trav	576838.09	7531515.90	581446.91	7532750.83	75.0	4.8		669.1		0.0
301440	Trav	576825.87	7531564.41	581435.43	7532799.54	75.0	4.8		673.8		0.0
301450	Trav	576813.65	7531612.88	581423.97	7532848.21	75.0	4.8		678.6		0.0
301460	Trav	576801.43	7531661.37	581412.49	7532896.90	75.0	4.8		683.4		0.0
301470	Trav	576789.20	7531709.87	581401.01	7532945.60	75.0	4.8		688.1		0.0
301480	Trav	576776.99	7531758.35	581389.55	7532994.28	75.0	4.8		692.9		0.0
301490	Trav	576764.77	7531806.83	581378.08	7533042.96	75.0	4.8		697.7		0.0
301500	Trav	576752.54	7531855.33	581366.60	7533091.66	75.0	4.8		702.5		0.0
301510	Trav	576740.32	7531903.81	581355.14	7533140.34	75.0	4.8		707.3		0.0
301520	Trav	576728.10	7531952.32	581343.65	7533189.05	75.0	4.8		712.0		0.0
301530	Trav	576715.88	7532000.79	581332.19	7533237.73	75.0	4.8		716.8		0.0
301540	Trav	576703.66	7532049.28	581320.71	7533286.41	75.0	4.8		721.6		0.0
301550	Trav	576691.44	7532097.77	581309.24	7533335.10	75.0	4.8		726.4		0.0
301560	Trav	576679.22	7532146.26	581297.77	7533383.80	75.0	4.8		731.2		0.0
301570	Trav	576667.00	7532194.75	581286.30	7533432.48	75.0	4.8		735.9		0.0
301580	Trav	576654.77	7532243.24	581274.82	7533481.18	75.0	4.8		740.7		0.0
301590	Trav	576642.55	7532291.72	581263.35	7533529.86	75.0	4.8		745.5		0.0
301600	Trav	576630.33	7532340.24	581251.87	7533578.58	75.0	4.8		750.3		0.0
301610	Trav	576618.11	7532388.71	581240.40	7533627.25	75.0	4.8		755.1		0.0
301620	Trav	576605.89	7532437.19	581228.93	7533675.93	75.0	4.8		759.9		0.0
301630	Trav	576593.67	7532485.69	581217.46	7533724.63	75.0	4.8		764.6		0.0
301640	Trav	576581.45	7532534.17	581205.99	7533773.31	75.0	4.8		769.4		0.0
301650	Trav	576569.22	7532582.68	581194.52	7533822.02	75.0	4.8		774.2		0.0
301660	Trav	576557.00	7532631.15	581183.04	7533870.69	75.0	4.8		779.0		0.0
301670	Trav	576544.78	7532679.64	581171.57	7533919.38	75.0	4.8		783.8		0.0
301680	Trav	576532.56	7532728.15	581160.10	7533968.09	75.0	4.8		788.6		0.0
301690	Trav	576520.34	7532776.62	581148.62	7534016.76	75.0	4.8		793.4		0.0
301700	Trav	576508.12	7532825.10	581137.15	7534065.44	75.0	4.8		798.2		0.0
301710	Trav	576495.90	7532873.60	581125.68	7534114.14	75.0	4.8		803.0		0.0
301720	Trav	576483.68	7532922.09	581114.21	7534162.84	75.0	4.8		807.8		0.0
301730	Trav	576471.45	7532970.60	581102.73	7534211.55	75.0	4.8		812.6		0.0
301740	Trav	576459.23	7533019.06	581091.26	7534260.21	75.0	4.8		817.3		0.0
301750	Trav	576447.01	7533067.55	581079.79	7534308.90	75.0	4.8		822.1		0.0
301760	Trav	576434.79	7533116.05	581068.32	7534357.60	75.0	4.8		826.9		0.0
301770	Trav	576422.57	7533164.53	581056.84	7534406.28	75.0	4.8		831.7		0.0
301780	Trav	576410.35	7533213.02	581045.37	7534454.97	75.0	4.8		836.5		0.0
301790	Trav	576398.13	7533261.51	581033.90	7534503.66	75.0	4.8		841.3		0.0
301800	Trav	576385.91	7533310.00	581022.43	7534552.35	75.0	4.8		846.1		0.0
301810	Trav	576373.68	7533358.51	581010.94	7534601.06	75.0	4.8		850.9		0.0
301820	Trav	576361.46	7533406.98	580999.48	7534649.73	75.0	4.8		855.7		0.0
301830	Trav	576349.24	7533455.46	580988.01	7534698.41	75.0	4.8		860.5		0.0
301840	Trav	576337.02	7533503.96	580976.53	7534747.11	75.0	4.8		865.3		0.0
301850	Trav	576324.80	7533552.44	580965.06	7534795.79	75.0	4.8		870.2		0.0
301860	Trav	576312.57	7533600.95	580953.58	7534844.50	75.0	4.8		875.0		0.0
301870	Trav	576300.36	7533649.43	580942.12	7534893.18	75.0	4.8		879.8		0.0
301880	Trav	576288.14	7533697.91	580930.65	7534941.86	75.0	4.8		884.6		0.0
301890	Trav	576275.91	7533746.42	580919.16	7534990.57	75.0	4.8		889.4		0.0
301900	Trav	576263.69	7533794.89	580907.70	7535039.25	75.0	4.8		894.2		0.0
301910	Trav	576251.47	7533843.38	580896.23	7535087.94	75.0	4.8		899.0		0.0
301920	Trav	576239.25	7533891.87	580884.75	7535136.63	75.0	4.8		903.8		0.0
301930	Trav	576227.03	7533940.36	580873.28	7535185.32	75.0	4.8		908.6		0.0
301940	Trav	576214.80	7533988.87	580861.80	7535234.03	75.0	4.8		913.4		0.0
301950	Trav	576202.59	7534037.34	580850.34	7535282.70	75.0	4.8		918.2		0.0

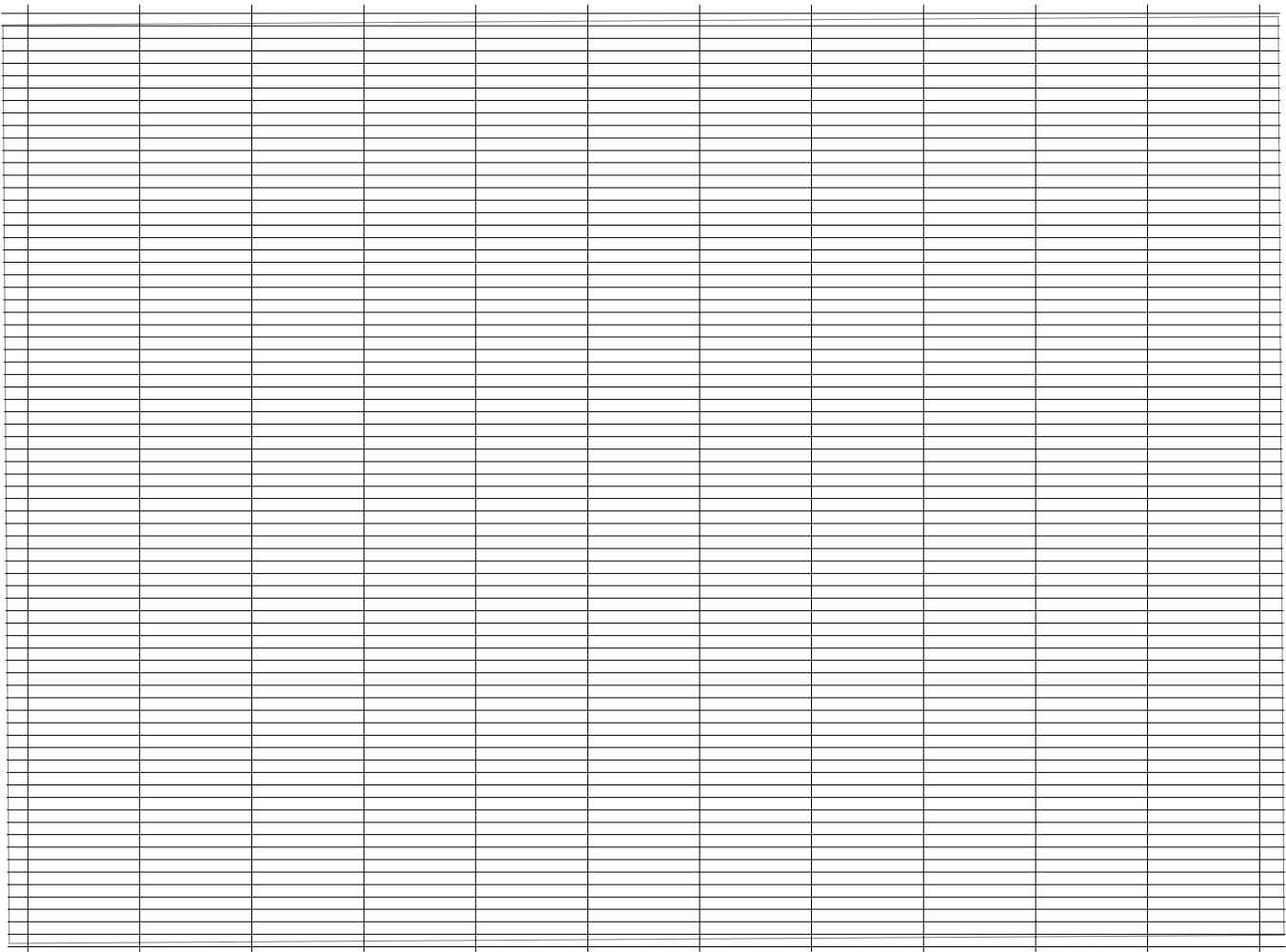


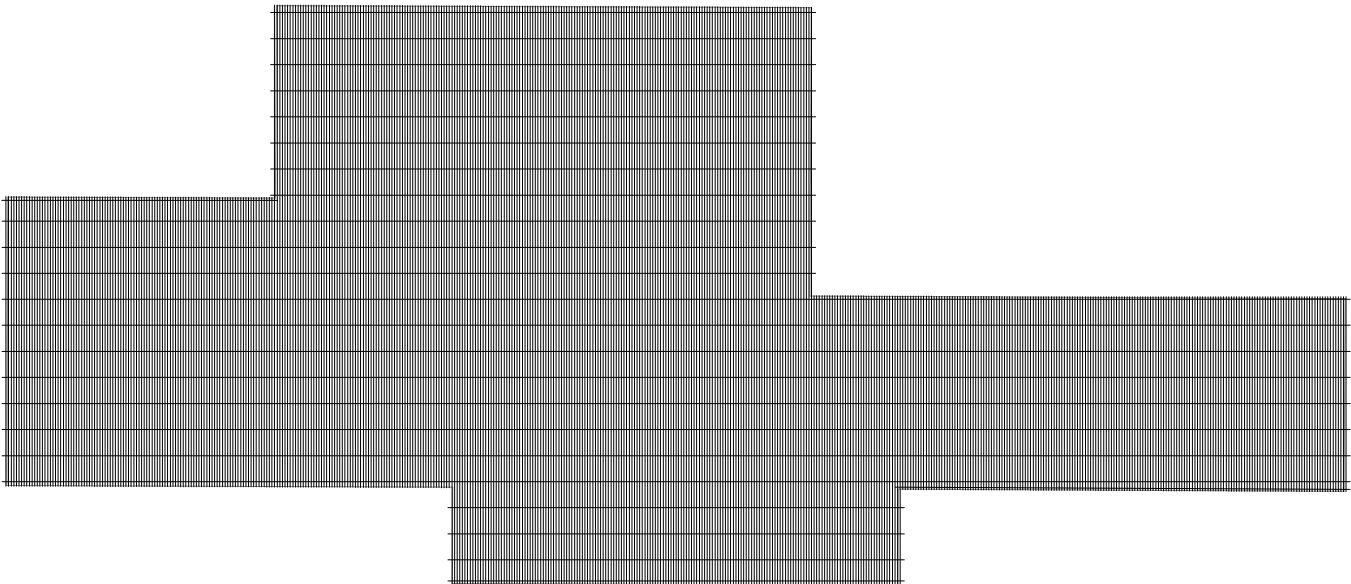
Box Hole (Cont)

Line	Type	Easting	Northing	Easting	Northing	Direc	Length	Tv	Cumul	Ti	Cumul
301960	Trav	576190.37	7534085.82	580838.87	7535331.38	75.0	4.8		923.0		0.0
301970	Trav	576178.14	7534134.32	580827.39	7535380.08	75.0	4.8		927.9		0.0
301980	Trav	576165.92	7534182.80	580815.92	7535428.76	75.0	4.8		932.7		0.0
301990	Trav	576153.70	7534231.29	580804.45	7535477.45	75.0	4.8		937.5		0.0
302000	Trav	576141.48	7534279.78	580792.97	7535526.14	75.0	4.8		942.3		0.0
302010	Trav	576129.26	7534328.27	580781.50	7535574.83	75.0	4.8		947.1		0.0
302020	Trav	576117.03	7534376.78	580770.02	7535623.54	75.0	4.8		951.9		0.0
302030	Trav	576104.82	7534425.25	580758.56	7535672.21	75.0	4.8		956.8		0.0
302040	Trav	576092.60	7534473.74	580747.08	7535720.90	75.0	4.8		961.6		0.0
302050	Trav	576080.37	7534522.23	580735.61	7535769.60	75.0	4.8		966.4		0.0
302060	Trav	576068.15	7534570.72	580724.13	7535818.28	75.0	4.8		971.2		0.0
302070	Trav	576055.93	7534619.23	580712.67	7535867.00	75.0	4.8		976.0		0.0
302080	Trav	576043.71	7534667.70	580701.19	7535915.67	75.0	4.8		980.9		0.0
302090	Trav	576031.49	7534716.18	580689.72	7535964.35	75.0	4.8		985.7		0.0
302100	Trav	576019.26	7534764.69	580678.25	7536013.06	75.0	4.8		990.5		0.0
302110	Trav	576007.05	7534813.16	580666.78	7536061.73	75.0	4.8		995.3		0.0
302120	Trav	575994.83	7534861.65	580655.30	7536110.42	75.0	4.8		1000.2		0.0
302130	Trav	575982.60	7534910.14	580643.83	7536159.11	75.0	4.8		1005.0		0.0
302140	Trav	575970.38	7534958.63	580632.36	7536207.80	75.0	4.8		1009.8		0.0
302150	Trav	575958.16	7535007.14	580620.89	7536256.51	75.0	4.8		1014.6		0.0
302160	Trav	575945.94	7535055.61	580604.09	7536303.75	75.0	4.8		1019.5		0.0
302170	Trav	575933.72	7535104.09	579658.35	7536102.10	75.0	3.9		1023.3		0.0
302180	Trav	575921.50	7535152.59	578209.83	7535765.74	75.0	2.4		1025.7		0.0
302190	Trav	575909.28	7535201.08	577221.77	7535552.71	75.0	1.4		1027.0		0.0
390010	Tie	580520.17	7536355.47	583019.88	7525748.71	166.7	10.9		1027.0		10.9
390020	Tie	580034.52	7536225.12	582853.79	7525703.48	165.0	10.9		1027.0		21.8
390030	Tie	579538.56	7536144.24	582370.83	7525574.08	165.0	10.9		1027.0		32.7
390040	Tie	579055.66	7536014.59	581887.91	7525444.47	165.0	10.9		1027.0		43.7
390050	Tie	578572.69	7535885.18	581391.96	7525363.55	165.0	10.9		1027.0		54.6
390060	Tie	578076.70	7535804.30	580908.97	7525234.13	165.0	10.9		1027.0		65.5
390070	Tie	577593.83	7535674.66	580426.09	7525104.53	165.0	10.9		1027.0		76.5
390080	Tie	577098.06	7535593.04	579930.13	7525023.61	165.0	10.9		1027.0		87.4
390090	Tie	576614.96	7535464.14	579447.17	7524894.21	165.0	10.9		1027.0		98.3
390100	Tie	576131.99	7535334.73	578964.25	7524764.60	165.0	10.9		1027.0		109.3
390110	Tie	575963.17	7535289.26	578625.92	7524725.88	165.9	10.9		1027.0		120.2



Edwards Creek





Box Hole

