178001

OPERATIONS REPORT
MARINE SEISMIC SURVEY
VIC. P16/T14/18P

for

BASS STRAIT OIL & GAS
17/23 QUEENSBRIDGE STREET
MELBOURNE. VIC. 3000

by

GEOPHYSICAL SERVICE INCORPORATED
P.O. BOX 106
NORTH RYDE. N.S.W. 2113

PARTY 2993: M/V "LADY VILMA"
RECORDING DATES: 31 MARCH, 1982 - 3 MAY, 1982.

T/18P PART

GSI-709

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SECTION I

INTRODUCTION

A Marine Seismic Survey was conducted by Geophysical Service Incorporated using the M/V "Lady Vilma" in the Vic. P16/T14/18P area offshore Victoria for Bass Strait Oil and Gas between 31 March, 1982 and 3 May, 1982.

The survey consisted of 548.665 kilometres of 48 fold reflection coverage utilising a 3200 metre streamer under continuous tow in conjunction with a Pneumatic Acoustic Energy Source (Airguns). Operations were generally conducted 24 hours a day.

A total of 548.665 kilometres of both magnetic and gravity data was also recorded.

Recordings were made using one set of DFS V instruments with two 10 inch tape transports. Records were made on 12.7mm magnetic tape in 9 track, 1600 B.P.I. SEG B digital format (See Section II - Instruments).

The ship's location was determined by Maxiran (See Section II - Survey).

SECTION I

A. SURVEY VESSEL - M/V "Lady Vilma

Flag	:	Australian
Homeport	:	Sydney
Trade	:	Foreign Going
Owners	:	Australian Offshore Services
Call Sign	:	VLVA
Length	:	57.9 metres L.O.A.
Breadth	:	13.2 metres
Depth	:	4.87 metres
Draft	:	4.20 metres
Official Number	:	355301
Gross Tonnage	:	1272.18
Net Tonnage	:	738.9
Main Engines	:	4 x 1095 BHP (8 cyc. Diahatsu Diesels)
Electrical Power	:	2 x 200 KW, 415V, 50HZ, 3 Phase (Cat. D343 Main Drives)

SECTION I

B. KEY PERSONNEL

Party Managers	:	A. Welfare
		K. Webber
Vessel Controller	:	M. Otter
Instrument Engineers	:	A. Cairns
		S. Muller
		K. Jeffery
System Operators	:	D. Liddle
		T. Drew
		S. Miller
		S. Joyce
		M. Wilson
		D. Mason
		S. Gilbertson
		R. Jones
		D. Johnson
		S. Recoskie
Survey Operators	:	T. Hennessey
		C. Thiemann
Compressor Engineers	:	A. Cattle
		T. Hughes
Airgun Mechanics	:	R. Barnes
		K. Billington
		G. Stokes
		J. Vickery
		D. Trundle
		P. McCabe
		P. Gusterson
		F. Campbell
Masters	:	D. Rowett
		F. Ewell
Boat Manager	:	I. Taylor
Boat Administrator	:	C. Orr

SECTION II
EQUIPMENT

A. INSTRUMENTS

One Texas Instruments DFS V system consisting of two analog modules, a controller module and two 10 inch tape transports were used for this survey. Recordings were made in SEG B format (See Plates 2 A, B, C.) at 1600 B.P.I.

Prior to the beginning of the survey, on 10 March, 1982, a full calibration and set of instrument performance tests as recommended by Texas Instruments were performed by onboard G.S.I. personnel. These tests, recorded on both magnetic tape and paper camera records, were couriered to Perth for immediate analysis. The instrument tests included dynamic range determination, equivalent input noise, gain accuracy, harmonic distortion, crossfeed and skew. All tests met with Texas Instrument standards.

The DFS V instruments were calibrated for 96 channel, 2 m/second sampling rate with a 128 HZ @ 72 db/octave High Cut Filter and a 8 HZ @ 18 db/octave Low Cut Filter.

Instrument tests were performed each day and the results examined in analog form onboard. These tests consisted of dynamic range determination, amplifier noise, automatic gain control, pulse test and skew checks.

Tapes recorded on each transport were frequently replayed on the other transport as a confirmation of readability.

All data was record on ½ inch Scotch brand magnetic tape. No problems were encountered resulting from

SECTION II

A. INSTRUMENTS

bad tapes.

No problems were encountered with the DFS V instruments with constant monitoring of daily test to ensure true calibration. A high performance capability was maintained at all times.

SECTION II

A. INSTRUMENTS - Instrument Details

Recording System	:	DFS V, Serial Number 705
Tape Format	:	SEG B, Phase Encoded, 1600 B.P.I.
Tape Speed	:	79.38 ips
No. Bytes/Data Scan	:	264
No. Words/Header (+ 16 from the Extender Header)	:	114 + 16
Channels (on tape)	:	96 Seismic + 4 Auxiliary Timing Word - Aux. Ch. 1 T/B Lengthened - Aux. Ch. 2 Waterbreak - Aux. Ch. 3
Gain Control Mode	:	I.F.P.
Sample Period	:	2 m/seconds
Record Length	:	6 seconds
Recording Delay	:	0 seconds
Gain Constants	:	24 db
Final Gain	:	114 db
Dynamic Range	:	84 db (Referred to input noise)
Filters - High Cut	:	128 HZ @ 72 db/octave
Low Cut	:	8 HZ @ 18 db/octave

SECTION II

B. ANCILLARY EQUIPMENT

SERVO PROFILER

Manufacturer	:	E.P.C. Labs.
Model	:	3210 S
Serial Number	:	355
Source	:	Trace Number 92
Record Length	:	4 seconds
Gain Mode (DFS V)	:	P.G.C.
Filters	:	Production Filters

SECTION II

B. ANCILLARY EQUIPMENT

FATHOMETER

Manufacturer	:	Simrad
Model	:	EA
Conversion Frequency	:	1478 m/sec
Transducer Position in Relation to Navigation Antenna	:	4 metres forward
Instrument Correction for Draft	:	4.5 metres
Calibrated	:	July, 1981 Port of Fremantle

The Fathometer data was collected on both analog chart and CMS navigation tape.

SECTION II

B. ANCILLARY EQUIPMENT

CAMERA

Manufacturer	:	S.I.E.
Model	:	10 C
Number of Channels	:	64
Polarity	:	G.S.I. Normal, Positive Pressure Downbreak

SECTION II

C. STREAMER

A G.S.I. manufactured 3187.8 metre (centre of group 96 to centre of group 1) streamer was utilised during this prospect. This streamer consisted of 48, 50 metre 'live' sections interspaced with 49, 16.6 metre 'extender' sections, all sections were connected together by quick coupling plugs. These groups were then connected at the instrument room patch panels to form 96, 33.3 metre 'live' groups. Each 'live' group contained 20 acceleration cancelling hydrophones connected in parallel.

Generally there were 6 nylon stretch sections located between group 96 and the vessel. These were used to attenuate the ship's generated noise. There were also 2 stretch sections connected between group 1 and the tailbuoy, these were used to attenuate tailbuoy 'jerk' noise. These stretch sections were connected to the tailbuoy by 250 metres of nylon rope.

Six depth transducers were positioned along the streamer at regular intervals. They were calibrated to the required streamer depth of 38 feet as the streamer was deployed.

Each transducer section contains a single hydrophone which is used as a waterbreak detector. Waterbreak returns from detector number six located between group 96 and the front end stretch, and waterbreak detector number five, located between groups 80 and 81 were recorded on both magnetic tape and camera records. The time measurement of the return was also recorded on the CMS tape and printer logs and was used to

SECTION II

C. STREAMER

calculate the streamer offset.

The streamer offset was also determined by the CMS streamer offset sensor. This sensor fired a single airgun located near the centre of the array between DFS records. The CMS measured the arrival time of this shot at waterbreaks five and six and used this time to calculate the streamer offset.

The streamer offset would change during the line by +/- several metres as a result of the varying sea states and currents which caused slight variations in the stretch length of the stretch sections. The offset used during this survey varied between a maximum of 360 metres to a minimum of 325 metres.

The streamer depth control was maintained by proper ballasting and the use of remote control 'Cole' depth controllers. During the survey the streamer was controlled to an operating depth of 38 feet.

Tailbuoy bearings were checked and logged at regular intervals during each line.

SECTION II

D. ENERGY SOURCE

G.S.I. airguns fitted with Pnu-con (Pneumatic Conservation) chambers were used as the energy source during this survey. The airgun unit consists of an upper air chamber and a lower air chamber, connected by an air passage through a movable shuttle. Another air passage links the upper chamber with the underside of the upper flange of the shuttle and this air passage is controlled by a solenoid valve. Air, at a pressure of 2000 P.S.I. (13.8 MPa) enters the upper chamber through its inlet forcing the shuttle closed. The shuttle is held firmly closed because the area of its upper flange is greater than the area of its lower flange. The main volume of air passes through the channel in the shuttle into the lower chamber. To fire the airgun, a command from the airgun control unit activates the solenoid and retracts a plunger, this permits air to pass through a port hole to the underside of the lower shuttle. This neutralises the downward pressure on the shuttle leaving only the upward pressure in the lower flange from the lower air chamber to the exhaust ports. The rapid expulsion of air creates the bubble and resultant pulse.

The Pnu-con chambers save a good deal of the air in the chamber instead of releasing it all, as did standard airguns. The Pnu-con chamber was developed after a mathematical model revealed that the airgun produces maximum acoustic output long before all its air escapes. The Pnu-con gun drops from 2000 P.S.I. to about 1000 P.S.I. when fired instead of dropping all the way to 200 P.S.I. as do standard guns.

SECTION II

D. ENERGY SOURCE

The energy source used by the M/V "Lady Vilma" was a tuned airgun array of 4075 cubic inches total capacity. The array was designed for deep penetration and good resolution. This array has a broadband frequency output that extends below the normal low frequency band for seismic energy sources.

Attached, plates 5A, 5B and 5C are the diagrams showing airgun utilisation, spacing and displays of the amplitude and energy spectra of the 4000 cubic inch Pnu-con gun array.

The array includes three low pressure open ended air lines each side of the array so that the depth of the array could be monitored by means of static air pressure at all times. The array was ballasted with the use of plastic buoys to ride at 21 feet, +/- 3 feet.

TIGER, the Texas Instruments automatic airgun controller, monitored the firing of each airgun in the array. Individual gun firing times were continuously controlled to give phasing within +/- one millisecond for maximum pulse amplitude and front to back ratio.

The TIGER also performed a quality control function, by indicating with individual gun L.E.D. displays, the status of a gun if it was not operating correctly, either self fire or no fire. The airgun performance was logged on both the CMS navigation tape and printer log. The TIGER operates in conjunction with the CMS II system.

SECTION II

D. ENERGY SOURCE

The airguns were maintained by G.S.I. personnel on line changes, so that throughout the survey the airgun array was up to specifications.

SECTION II

D. ENERGY SOURCE

4000 CUBIC INCH AIRGUN ARRAY

Operating Volume	:	4075 cubic inches
Total Spare Volume	:	770 cubic inches
Operating Pressure	:	1800-2000 P.S.I.
Operating Depth	:	21 feet, +/- 3 feet
Timing Control	:	TIGER
Firing Delay	:	51.2 m/seconds
Compressors	:	5 Chicago Pneumatic PB-44-300B 2 Sullair Screw Type
Setback (distance from Argo Antenna to Centre of Array)	:	61.45 metres
Distance from Stern to Centre of Array	:	29.27 metres

SECTION II

E. SURVEY

The prime navigation system used during the survey was Maxiran, a precise range to range system owned and operated by Offshore Navigation Australia (O.N.A.).

The Maxiran equipment was calibrated onshore before the start of the prospect. The accuracy of the survey net was verified at sea by baseline crossings and three way fixes.

The Maxiran mobile monitor was interfaced to G.S.I.'s Configurable Marine System II (CMS II). The CMS system consisted of a Texas Instruments 980B computer, two Texas Instruments 990 computers, a system co-ordinator, Tiger airgun controller, satellite receiver, two Houston trackplotters (one each in the instrument room and the bridge) and two digi-data, 800 B.P.I. ½ inch tape transports.

The CMS II function was survey control and navigation data recording. Shotpoint positioning was done in the 'distance' mode with the CMS II triggering the DFS V instruments and also the Tiger airgun controller unit to fire the airguns at every 33.3 metres of travel along the preplotted survey lines. Occasional changes to 'time' mode were made when the real time shotpoint became displaced with respect to the pre-plotted shotpoint.

The CMS II satellite navigation system was utilised as an onboard Q.C. check of the Maxiran positioning. This satellite data was recorded on the CMS navigation tape.

SECTION II

E. SURVEY

Navigation control was good throughout the prospect. Fixes were derived from ranges generated by the Maxiran system. Velocities were computed by the onboard CMS (Sonar) system.

O.N.A. will submit a separate navigation report.

SECTION II

E. SURVEY - Survey Details

Primary System	:	Maxiran
Type	:	Range to Range
Survey Company	:	O.N.A.
Operating Frequency	:	429 MHz
Ship's Antenna Height (above sea level)	:	23.62 metres (STB) 25.12 metres (PORT)
Antenna Location from Stern	:	29 metres

BASE STATION LOCATIONS

Mt. Chapple Base 1	Elev. 550 Lat. 038 39 49.92S Long. 143 27 01.07E
Liptrap Base 2	Elev. 170 Lat. 038 51 05.51S Long. 145 57 54.92E
Mary Base 3	Elev. 131 Lat. 039 58 30.06S Long. 143 55 24.48E
Mt. Cameron West Base 4	Elev. 168 Lat. 040 51 55.95S Long. 144 42 28.75E

SECTION II

F. GRAVITY

The La Coste & Romberg air sea gravimeter is essentially a spring gravimeter. Changes in dial readings (analog gravity counter readings) are caused by changes in the elongation of the gravimeter spring induced by variations in acceleration from point to point. The differences in analog gravity are converted to units of acceleration (milligals) by multiplying the dial units change by a calibration constant. The calibration constant is determined by the manufacturer by reading the gravimeter on 'bases' where the absolute value of gravity has been previously determined (by falling body measurements, by observations of pendulum periods or by differences in readings from previously calibrated gravimeters) and dividing the known difference in milligals by the observed difference in dial units to obtain a calibration factor (milligals/dial unit).

The deduction of gravity at sea is made by making a measurement at a known location (the dock for instance), subtracting this reading from the reading at sea, multiplying the difference by the calibration factor to convert it to milligals and adding the difference in milligals algebraically to the known dock value.

A 'K check' and still gravity readings were taken before the survey commenced while the vessel was alongside the main wharf at Stoney Point. Base gravity readings were also taken at this time using an independent gravity meter.

SECTION II

F. GRAVITY

All gravity was recorded on CMS tape at 10 second intervals and on analog strip chart recorders. Two analog strip chart recorders were utilised, one recording the acceleration forces (both along and across track) and the other recording gravity (green), spring tension (orange), cross coupling (red) and average beam position (black).

Gravity and spring tension readings along with the appropriate time (GMT) and shotpoint were logged on the stripcharts and CMS operator's logs at frequent intervals.

SECTION II

F. GRAVITY

GRAVIMETER

Manufacturer	:	La Coste & Romberg
Serial Number	:	S-48
Sample Period (onto tape)	:	10 seconds
Analog Time Marks	:	1 minute intervals
Analog Shotpoint Marks	:	10 shotpoints

SECTION II

G. MAGNETICS

G.S.I. uses Proton Precession Magnetometers to make total force measurements at sea. Electrons spinning around an atomic nucleus have properties of circular electric current and each electron acts as a tiny magnet. The spin axis of the electrons around the nucleus is oriented by the ambient earth's field. If earth's ambient field is over-ridden by a strong, artifical field transverse to it, the axis will be deflected towards the artifical field. When the artifical field is removed, the electrons will precess back towards earth's ambient field. The precession frequency is $f = F/2$ where F is earth's field and 2 is the Gyro-Magnetic ratio. The source of Protons is normally kerosene or JP-4 Jet fuel, each having a high concentration of hydrogen nuclie (Protons). The Gyro-Magnetic ratio of hydrogen is 23.4875 y/HZ.

Data was sampled every 6 seconds by the Magnetometer and recorded onto CMS tape every 10 seconds.

No analog strip chart was available for this survey but readings were logged at frequent intervals on the CMS operator's logs showing shotpoint, time (GMT) and Magnetometer reading during each line.

SECTION II

G. MAGNETICS

MAGNETOMETER

Manufacturer	:	Varian
Model Number	:	V4970
Tuner Serial Number	:	909670
Distance from Stern to Sensor	:	270 metres

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SECTION III

A. OPERATIONS DISCUSSION

This survey was conducted in three shooting periods, 31 March - 2 April, 20 April - 23 April and 2 May - 3 May, 1982. The breaks in production were due to either periods of bad weather or a continuation of another client's survey work in the same area.

Typical seasonal weather conditions for the Bass Strait area were experienced. Rough sea conditions caused 86 hours of weather downtime during the survey.

SECTION III

B. PROSPECT DETAILS

DATE	LINE	CHARGEABLE SP	CHARGEABLE KMS	COMMENTS
31 Mar	OMQ82-08	0495	16.500	Complete
1 Apr	OMQ82-04	0691	23.033	Complete
	OMQ82-02	0810	27.000	Complete
	OMQ82-15	0585	19.500	Complete
	OMQ82-13	0556	18.533	Complete
	OMQ82-11	0570	19.000	Complete
	OMQ82-09	0534	17.800	Complete
	OMQ82-07	0880	29.333	Complete
2 Apr	OMQ82-05	0716	23.867	Complete
	OMQ82-03	0540	18.000	Complete
	OMQ82-01	0391	13.033	Complete
		END PART OF P16		
20 Apr	BB82A-05	0303	10.100	Complete
	BB82A-03	0261	08.700	Incomplete
21 Apr	BB82A-01	0285	09.500	Complete
	BB82A-03A	0101	03.367	Complete
	BB82A-02	0708	23.600	Complete
	BB82A-07	0361	12.033	Complete
22 Apr	BB82A-09	0220	07.333	Complete
	BB82A-11	0315	10.500	Complete
	BB82A-13	0330	11.000	Complete
	BB82A-15	0366	12.200	Complete
	BB82A-04	0665	22.167	Complete
	BB82A-06	0426	14.200	Complete
		END OF 18P		
23 Apr	BC82A-05	0375	12.500	Complete
	BC82A-03	0362	12.067	Complete
	BC82A-01	0359	11.967	Complete
	BC82A-02	0657	21.900	Complete
	BC82A-07	0796	26.533	Complete
		END OF T14		

SECTION III

B. PROSPECT DETAILS

DATE	LINE	CHARGEABLE SP	CHARGEABLE KMS	COMMENTS
2 May	OMQ82-14	0781	26.033	Complete
	OMQ82-16	0360	12.000	Complete
	OMQ82-12	0585	19.500	Complete
3 May	OMQ82-10	0550	18.333	Complete
	OMQ82-06	0526	17.533	Complete

END OF P16

SECTION III

C. STATISTICS

First Recording Day	:	31 March, 1982
Last Recording Day	:	3 May, 1982
Number of Kilometres	:	548.665
Number of Lines	:	33
Number of Shotpoints	:	16460
Total Number of Tapes Used	:	282
Seismic Data Shipped To	:	G.S.I. Sydney
Navigation Data Shipped To	:	G.S.I. Dallas

SECTION III

D. PERMITTING

The Marine Operations Centre, Canberra was advised as to the ship's location throughout the survey to enable the necessary navigation warnings to be issued.

SECTION III

E. FIELD TAPE LOG INVENTORY

DATE	TAPE NO.	LINE NO.	SHOTPOINTS
31 MAR 82	637240	OMQ82-08	001-063
	637241		064-128
	637242		129-193
	637243		194-258
	637244		259-323
	637245		324-389
	637246		390-454
	637247		455-495
1 APR	637248	OMQ82-04	001-063
	637249		064-128
	637250		129-193
	637251		194-258
	637252		259-323
	637253		324-388
	637254		389-453
	637255		454-518
	637256		519-583
	637257		584-649
	637258		650-691
	637259	OMQ82-02	001-063
	637260		064-128
	637261		129-193
	637262		194-258
	637263		259-324
	637264		325-389
	637265		390-454
	637266		455-519
	637267		520-584
	637268		555-649
	637269		650-714

1 APR	637270	OMQ82-02	715-779
	637271		780-810
	637272	OMQ82-15	001-063
	637273		064-128
	637274		129-193
	637275		194-258
	637276		259-323
	637277		324-388
	637278		389-453
	637279		454-519
	637280		520-584
	637281		585-585
	637282	OMQ82-13	001-063
	637283		064-128
	637284		129-193
	637285		194-258
	637286		259-323
	637287		325-388
	637288		389-455
	637289		456-520
	637290		521-550
	637291	OMQ82-11	001-064
	637292		065-130
	637293		131-196
	637294		197-262
	637295		263-328
	637296		329-394
	637297		395-459
	637298		460-524
	637299		525-570

1 APR	637300	OMQ82-09	001-063
	637301		064-129
	637302		130-195
	637303		196-261
	637304		262-327
	637305		328-393
	637306		394-459
	637307		460-525
	637308	EOL	526-534
	637309	OMQ82-07	001-064
	637310		065-130
	637311		131-196
	637312		194-262
	637313		263-328
	637314		329-394
	637315		395-411
	637316		412-477
	637317		478-543
	637318		544-609
	637319		610-675
	637320		676-741
	637321		742-806
	637322		807-871
	637323	EOL	872-880
2 APR	637324	OMQ82-05	001-064
	637325		065-129
	637326		130-194
	637327		195-259
	637328		260-324
	637329		325-390

2 APRIL	637330	OMQ82-05	391-456
	637331		457-522
	637332		523-588
	637333		589-654
	637334		655-716
	637335	OMQ82-03	001-064
	637336		065-129
	637337		130-194
	637338		195-259
	637339		260-324
	637340		325-390
	637341		391-455
	637342		456-520
	637343		521-540
	637344	OMQ82-01	001-064
	637345		065-129
	637346		130-194
	637347		195-259
	637348		260-324
	637349		325-390
	637350		391-391

DATE	TAPE NO.	LINE NO.	SHOTPOINTS
20 APR 82	646575	BB82A-5	001-063
	646576		064-127
	646577		128-193
	646578		194-259
	646579		260-303
	646580	BB82A-3	001-063
	646581		064-129
21 APR	646582		130-195
	646583		196-261
	646584		NO RECORD
	646585		271-335
	646586		336-361
	646587	BB82A-1	001-063
	646588		064-129
	646589		130-195
	646590		196-260
	646591		261-285
	646592	BB82A-3A	202-265
	646593		266-331
	646594		332-362
	646595	BB82A-2	001-
	646596		
	646597		68-134
	646598		135-200
	646599		201-266
	646600		267-331
	646601		332-396

21 APR	646602	BB82A-2	317-461
	646603		462-526
	646604		527-592
	646605	BB82A-2	593-658
	646606		659-708
	646607		DO NOT PROCESS
	646608		
	646609		
	646610		
	646611		
	646612		
22 APR	646613	BB82A-7B	001-063
	646614		064-129
	646615		130-195
	646616		196-261
	646617		262-327
	646618		328-361
	646619	BB82A-9	001-063
	646620		064-128
	646621		129-194
	646622		195-220
	646623	BB82A-11	001-063
	646624		064-129
	646625		130-195
	646626		196-261
	646627		262-315
	646628	BB82A-13	001-063
	646629		064-129
	646630		130-195
	646631		196-261
	646632		262-327
	646633		328-330
	646634	BB82A-15	001-064

22 APR	646635	BB82A-15	065-130
	646636		131-196
	646637		197-263
	646638		263-328
	646639		329-366
	646640	BB82A-4	001-064
	646641		065-130
	646642		131-196
	646643		197-262
	646644		263-328
	646645		329-394
	646646		395-460
	646647		461-512
	646648		513-579
	646649		580-645
	646650		647-665
	646651	BB82A-6	001-064
	646652		065-130
	646653		131-196
	646654		197-262
	646655		263-328
	646656		329-394
	646657		395-426
23 APR	646658	BB82A-5	001-063
	646659		064-129
	646660		130-195
	646661		196-261
	646662		262-327
	646663		328-375
	646664	BB82A-3	001-063

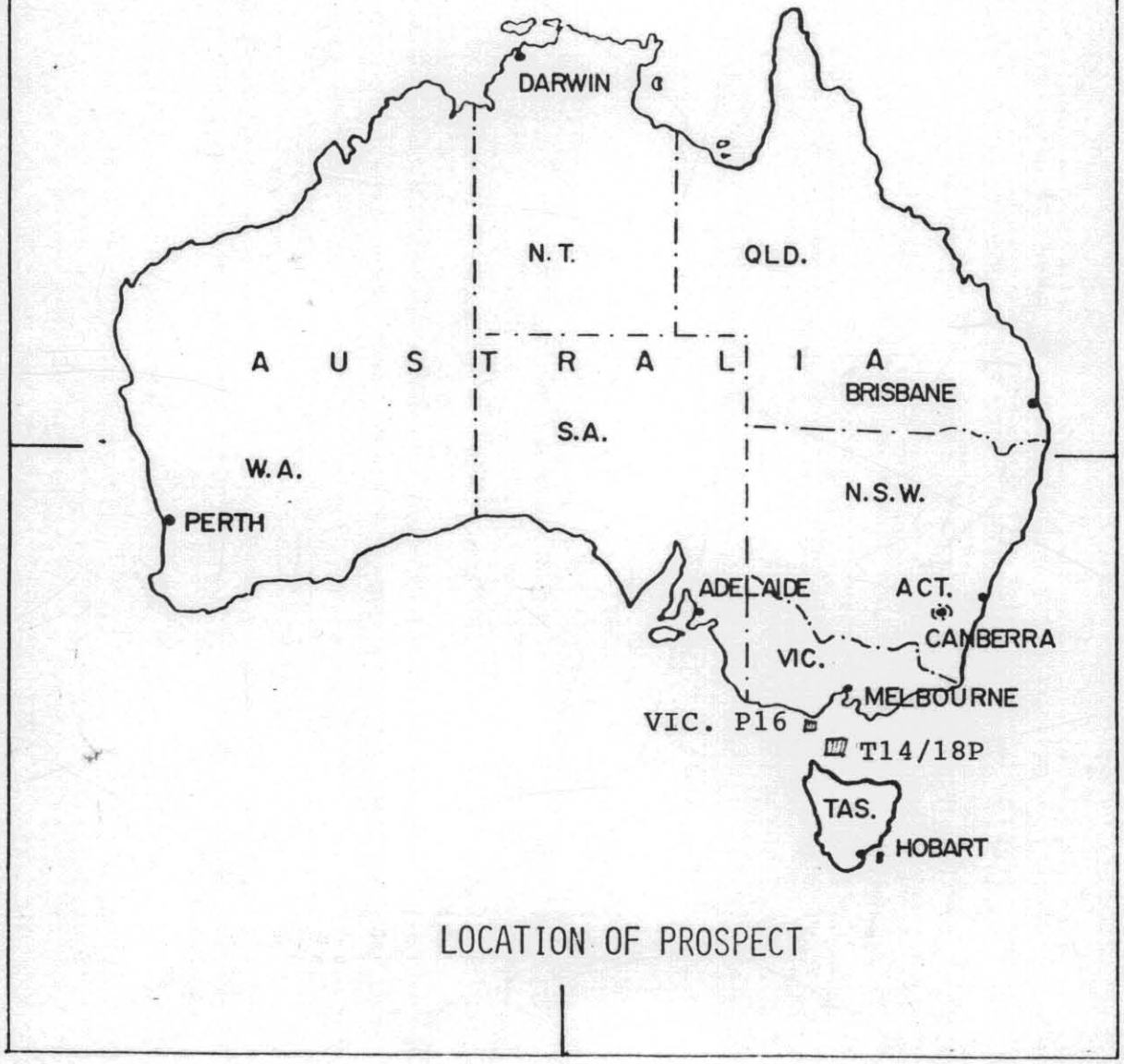
23 APRIL	646665	BC82A-3	064-129
	646666		130-195
	646667		196-261
	646668		262-327
	646669		328-362
	646670	BC82A-1	001-063
	646671		064-129
	646672		130-195
	646673		196-261
	646674		262-327
	646675		328-359
	646676	BC82A-2	001-063
	646677		064-129
	646678		NO RECORDS
	646679		133-198
	646680		199-264
	646681		265-330
	646682		331-395
	646683		396-460
	646684		461-525
	646685		526-591
	646686		592-657
	646687	BC82A-7	001-065
	646688		066-131
	646689		132-190
	646690		191-256
	646691		257-322
	646692		323-388
	646693		389-454
	646694		455-520
	646695		521-586
	646696		587-652
	646697		563-718
	646698		719-770
	646699		771-796

2 MAY	646988	OMQ82-14	001-062
	646989		066-131
	646990		132-197
	646991		198-263
	646992		264-329
	646993		330-395
	646994		396-461
	646995		462-527
	646996		528-593
	646997		594-659
	646998		660-725
	646999		726-781
	647000	OMQ82-16	001-064
	647001		065-130
	647002		131-196
	647003		197-262
	647004		263-323
	647005		324-360
	647006	OMQ82-12	001-064
	647007		065-130
	647008		131-196
	647009		197-261
	647010		262-326
	647011		327-391
	647012		392-456
	647013		457-521
	647014		522-582
	647015		583-585
3 MAY	647016	OMQ82-10	001-063
	647017		064-129

3 MAY	647018	OMQ82-10	130-195
	647019		196-261
	647020		262-327
	647021		328-393
	647022		394-459
	647023		460-525
	647024		526-550
	647025	OMQ82-6	001-063
	647026		064-129
	647027		130-195
	647028		196-261
	647029		262-327
	647030		328-393
	647031		394-459
	647032		460-325
	647033		526-526

PLATE 1

17804



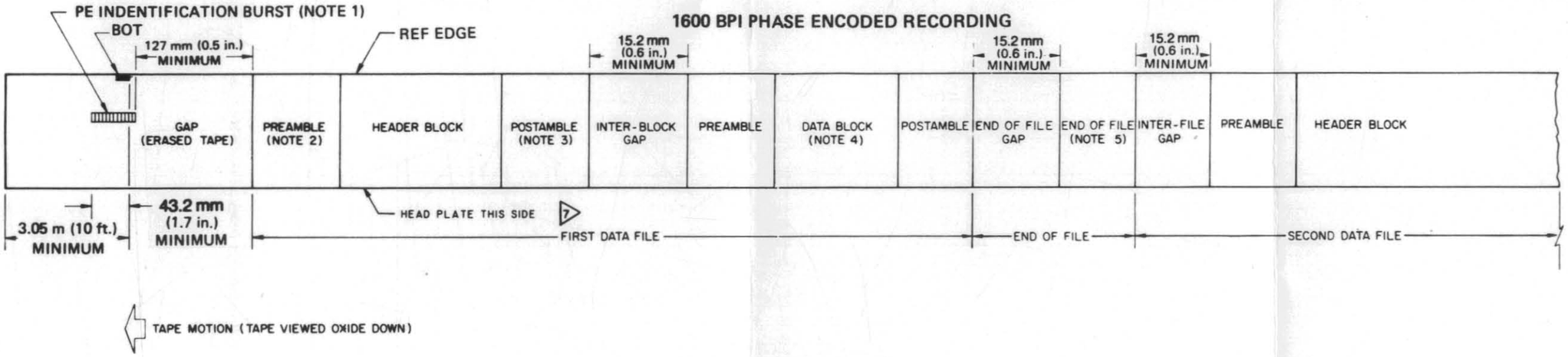
LOCATION OF PROSPECT

5 cm

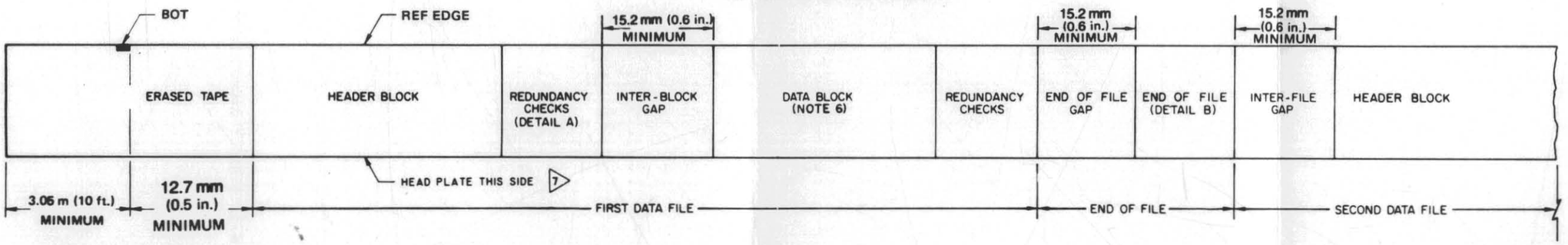
GSI—709

5 cm

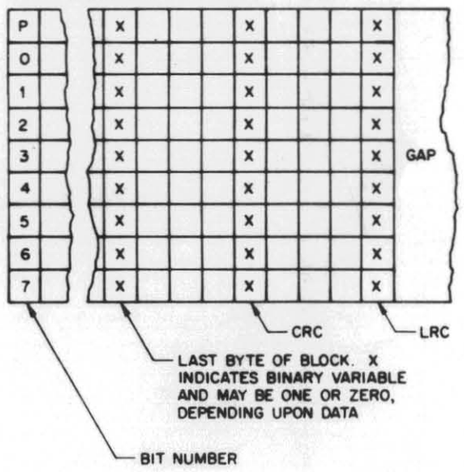
1600 BPI PHASE ENCODED RECORDING



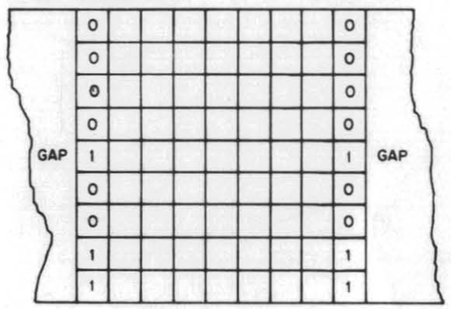
800 BPI NRZI RECORDING



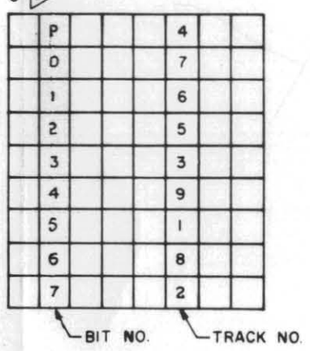
A. NRZI REDUNDANCY CHECKS



B. NRZI END OF FILE



C 7



NOTES

1 - PE identification burst consists of 1600 flux reversals per inch in track P, all other tracks dc erased.

2 - Preamble consists of forty characters with 0-bits in all tracks followed by one character with 1-bits in all tracks. (Includes the parity track).

3 - Postamble consists of one character with 1-bits in all tracks followed by forty characters with 0-bits in all tracks. (Includes the parity track.)

4 - Synchronous recording, inter-block gap is extended until timebreak is received. Data is stored in a buffer memory while the preamble is being written. First start of scan is written immediately after the preamble.

5 - PE end of file consists of 80 flux reversals at 3200 FCI in bits P, 0, 2, 5, 6, and 7. Bits 1, 3, and 4 are dc-erased.

6 - Synchronous data recording: inter-block gap is erased until timebreak. First start of scan is then written.

7 Order and location of tracks on tape, direction of magnetization and all other applicable specifications in accordance with IBM file S360-19, form A22-6862-4. The track number for each bit is shown in detail C. Track numbers are the same for 800 BPI NRZI and 1600 BPI PE. Tracks are numbered consecutively with track 1 the maximum distance from the head plate and track 9 adjacent to the head plate. See C below.

178044

LEGEND

F_1-F_4 File number - 4 BCD digits

Y_1-Y_4 Format Code - 4 BCD digits 0200 for SEG–B (with no header extension)

K_1-K_{12} General constants entered from panel switches - 12 BCD digits

B_1-B_3 Bytes per multiplexer scan in data block - 3 BCD digits. Bytes per scan = 2.5 x no. of channels +14

M_1-M_6 Instrument serial number - 6 BCD digits.

R_1,R_2 Record length in multiples of 1.024 seconds. 00 if manual stop is selected.

J Amplifier gain control mode 1001 is recorded to designate floating point gain control system.

LC_1,LC_2 Low-cut filter frequency (Hz) - 2 BCD digits. 00 (out), 03, 05, 08, 12, 18, or 27.
NOTE: 03 is actually 3.56Hz.
05 is actually 5.33Hz.

LS Low-cut filter slope in multiples of 6 dB/octave - 1 BCD digit. Normally 3, (18dB octave) for DFS-V.

S_1,S_2 Notch (rejection) filter frequency - 2 BCD digits. 00 (out) 50, or 60 (for 60 or 16 2/3).

A Alias filter frequency:

1 - 256Hz	4 - 64Hz
2 - 128Hz	8 - 32Hz

D Channel identification code:

BIT 0	1	2	TYPE CHANNEL
0	0	0	Unused channel
1	0	0	Waterbreak channel
0	1	0	Timebreak channel
0	0	1	Seis channel
0	1	1	Uphold channel
1	0	1	Time counter
1	1	1	Other

Z Record type:
8 - normal shot 4 } Not used
2 - test record 1 }

W_N Ones recorded for normal field timebreak recording. Zeros record if system operated from internal timebreak.

T_1-T_{14} 14 bit binary timing word

T_{14} - 1 millisecond

T_1 - 8,192 seconds

Q_N Digitized output of A/D converter

Q_s - sign (note 4)

Q_1 - 4096 millivolts

Q_{14} - 0.50 millivolt

G_N Binary gain code for channel N. Least significant bit (6dB) is always 0 for quaternary coded IFP gain.

P Vertical (byte) parity. Bit P is one if bits 0 - 7 of the same byte contains an even number of ones.

CH Number of channels. Bit 6 of the four sync group bytes, indicates number of seismic data channels.

BYTE	1	2	3	4
24 CH	0	0	0	0
36 CH	0	1	0	0
48 CH	0	0	0	1
Other	1	1	1	1

See B, bytes per scan.

No. of data channels =

$$\frac{\text{Bytes per scan-14}}{2.5}$$

Format conforms to the SEG standard specific values shown, such as filter settings, etc, are those of the DFS–V.

I Sample interval recorded according to the following table:

BIT 4	5	6	7	SAMPLE INTERVAL
0	0	0	1	1 millisecond
0	0	1	0	2 milliseconds
0	1	0	0	4 milliseconds
1	0	0	0	8 milliseconds
1	0	0	1	0.5 milliseconds
1	0	1	0	1 millisecond
1	1	0	0	2 milliseconds

All zeros for other sample intervals

GC Gain constant (fixed gain) recorded as a 4 - bit binary code. The most significant bit has a gain value of 2^3 (48dB): the least significant bit has a gain value of 2^1 (6dB). The least significant bit is recorded as a zero for the DFS–V.

GW Gain word recorded as a 4-bit binary code. 0000 is recorded when operating in floating point gain control. When operating in manual gain control, the most significant bit has a gain value of 2 (48dB) and the least significant bit has a gain value of 2^1 (6dB). The least significant bit is recorded as a zero for the DFS–V.

NOTES

1 - Auxiliary channel identification code assignments are as follows unless otherwise specified:
AUX 1 will always be the timing counter.

28 or 60 Seis channels	Number of seis Channels other than 28 or 60
AUX 2 unused •	AUX 2 uphole
AUX 3 unused •	AUX 3 timebreak
AUX 4 uphold	AUX 4 unused
AUX 5 timebreak	AUX 5 unused

• These AUX channels are not available for data and will always be recorded as zero in the data record.

2 - Additional externally supplied digital data may be recorded in the header block following byte 36+2n.

3 - Negative values are recorded in 1's complement code (standard) or 2's complement (optional).

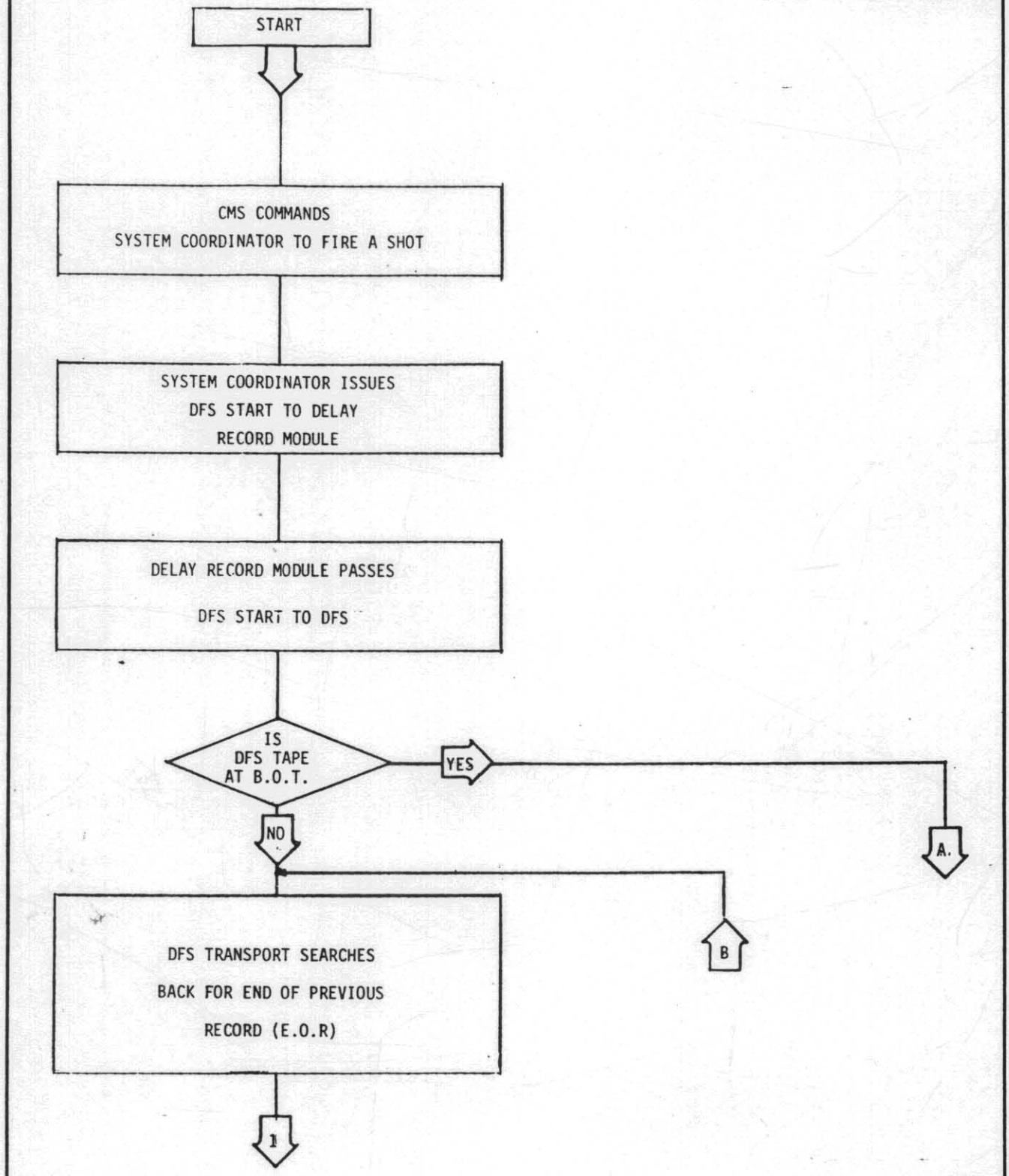
HEADER BLOCK

BIT NUMBER (SCHEMATIC)				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					24 + 2n																36 + 2n (NOTE 3)	
P			P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
0			8	F_1	F_3	Y_1	Y_3	K_1	K_3	K_5	K_7	K_9	K_{11}	B_1	B_3	0	M_3	M_5	M_7	R_1	J	LC_1	LS	0	0	S_1	A	0	0	0	0	0	0	0	1	0	D	0	D	0	D	0	D	0	0	0
1			4	F_1	F_3	Y_1	Y_3	K_1	K_3	K_5	K_7	K_9	K_{11}	B_1	B_3	0	M_3	M_5	M_7	R_1	J	LC_1	LS	0	0	S_1	A	0	0	0	0	0	0	0	0	0	D	0	D	0	D	0	D	0	0	0
2			2	F_1	F_3	Y_1	Y_3	K_1	K_3	K_5	K_7	K_9	K_{11}	B_1	B_3	0	M_3	M_5	M_7	R_1	J	LC_1	LS	0	0	S_1	A	1	0	1	0	1	0	1	0	1	D	0	D	0	D	0	D	0	0	0
3			1	F_1	F_3	Y_1	Y_3	K_1	K_3	K_5	K_7	K_9	K_{11}	B_1	B_3	1	M_3	M_5	M_7	R_1	J	LC_1	LS	0	0	S_1	A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4			8	F_2	F_4	Y_2	Y_4	K_2	K_4	K_6	K_8	K_{10}	K_{12}	B_2	I	0	M_4	M_6	M_8	R_2	Z	LC_2	0	0	0	S_2	0	GC	GW	GC	GW	GC	GW	GC	GW	0	0	0	0	0	0	0	0	0	0	0	0
5			4	F_2	F_4	Y_2	Y_4	K_2	K_4	K_6	K_8	K_{10}	K_{12}	B_2	I	1	M_4	M_6	M_8	R_2	Z	LC_2	0	0	0	S_2	0	GC	GW	GC	GW	GC	GW	GC	GW	0	0	0	0	0	0	0	0	0	0	0	0
6			2	F_2	F_4	Y_2	Y_4	K_2	K_4	K_6	K_8	K_{10}	K_{12}	B_2	I	0	M_4	M_6	M_8	R_2	Z	LC_2	0	0	0	S_2	0	GC	GW	GC	GW	GC	GW	GC	GW	0	0	0	0	0	0	0	0	0	0	0	0
7			1	F_2	F_4	Y_2	Y_4	K_2	K_4	K_6	K_8	K_{10}	K_{12}	B_2	I	1	M_4	M_6	M_8	R_2	Z	LC_2	0	0	0	S_2	0	GC	GW	GC	GW	GC	GW	GC	GW	0	0	0	0	0	0	0	0	0	0	0	0
		TYPICAL PACKED BCD VALUE		FILE NUMBER		FORMAT CODE		GENERAL CONSTANTS						BYTES/SCAN (B) SAMPLE INTERVAL (I)		TEXAS INSTRUMENTS IDENTIFICATION (15)	INSTRUMENT SERIAL NUMBER			RECORD LENGTH (R) GAIN MODE (J) RECORD TYPE (Z)			LOW-CUT FILTER			RESERVED FOR HIGH-CUT FILTER		NOTCH FILTER (S) ALIAS FILTER (A)		SEIS CHANNEL 1 FIXED & EARLY GAIN (NOTE 1) (F) (E)				SEIS CHANNEL 2 GAIN		SEIS CHANNEL n-1 GAIN		SEIS CHANNEL n GAIN		AUXILIARY CHANNEL 1 TIMING COUNTER (NOTE 1)		AUXILIARY CHANNEL 2 (NOTE 1)		AUXILIARY CHANNEL 3 (NOTE 1)		AUXILIARY CHANNEL 4 (NOTE 1)		AUXILIARY CHANNEL 5 (NOTE 1)		ZERO DATA 2 BYTES	

DATA BLOCK

| BIT NUMBER (SCHEMATIC) | | | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P

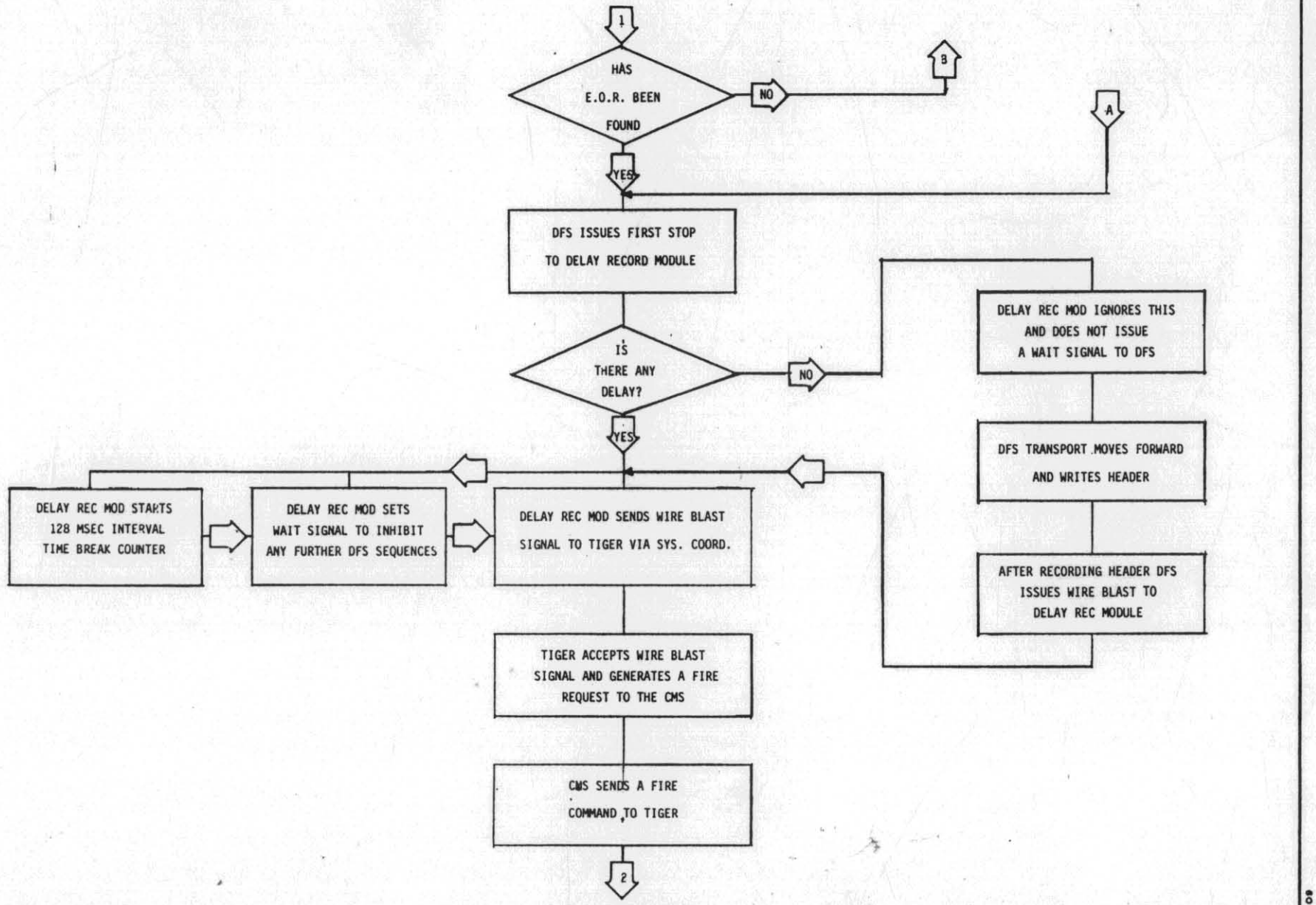
178046



GSI-709

PLATE 3B

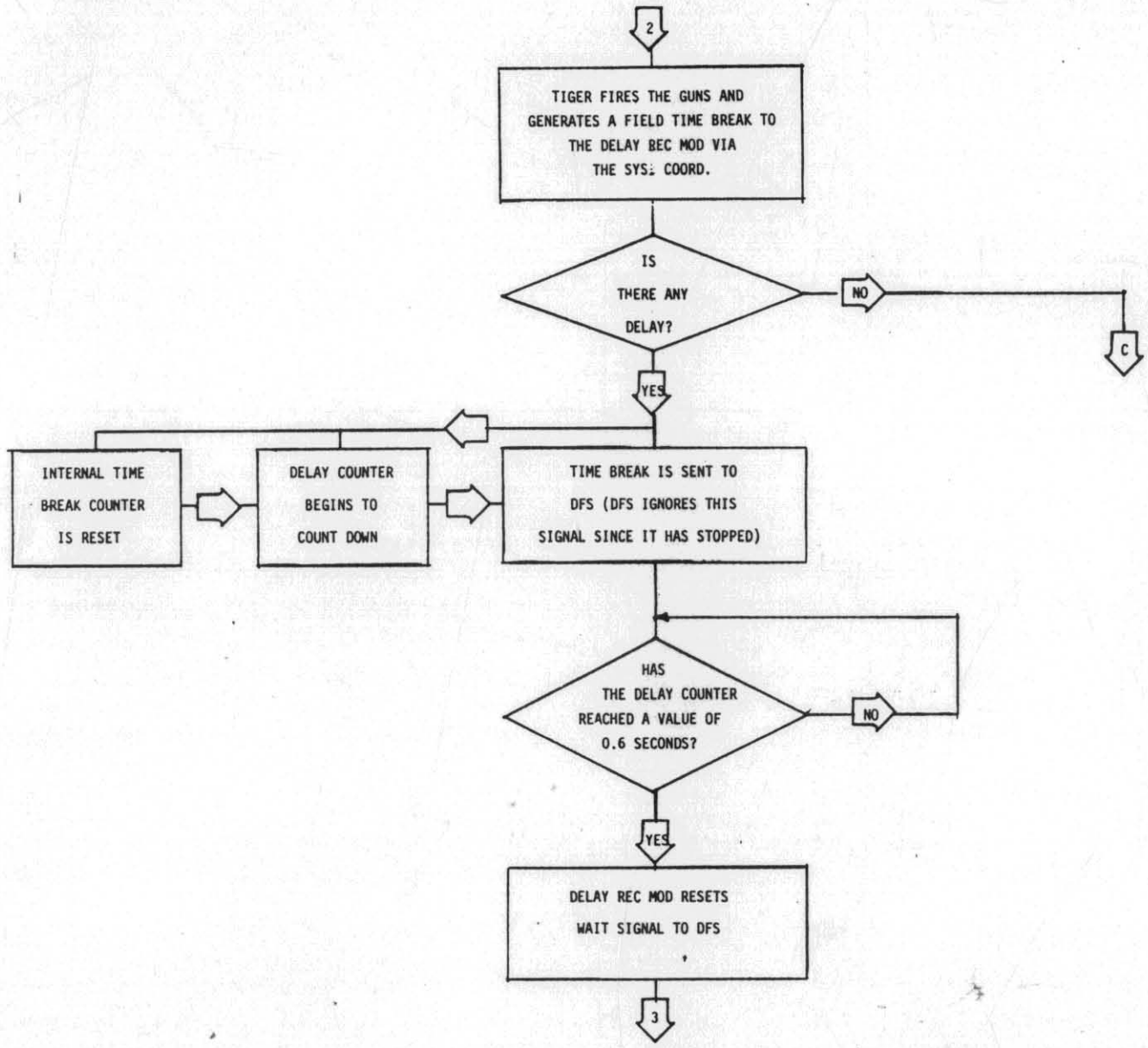
178047



GSI-709

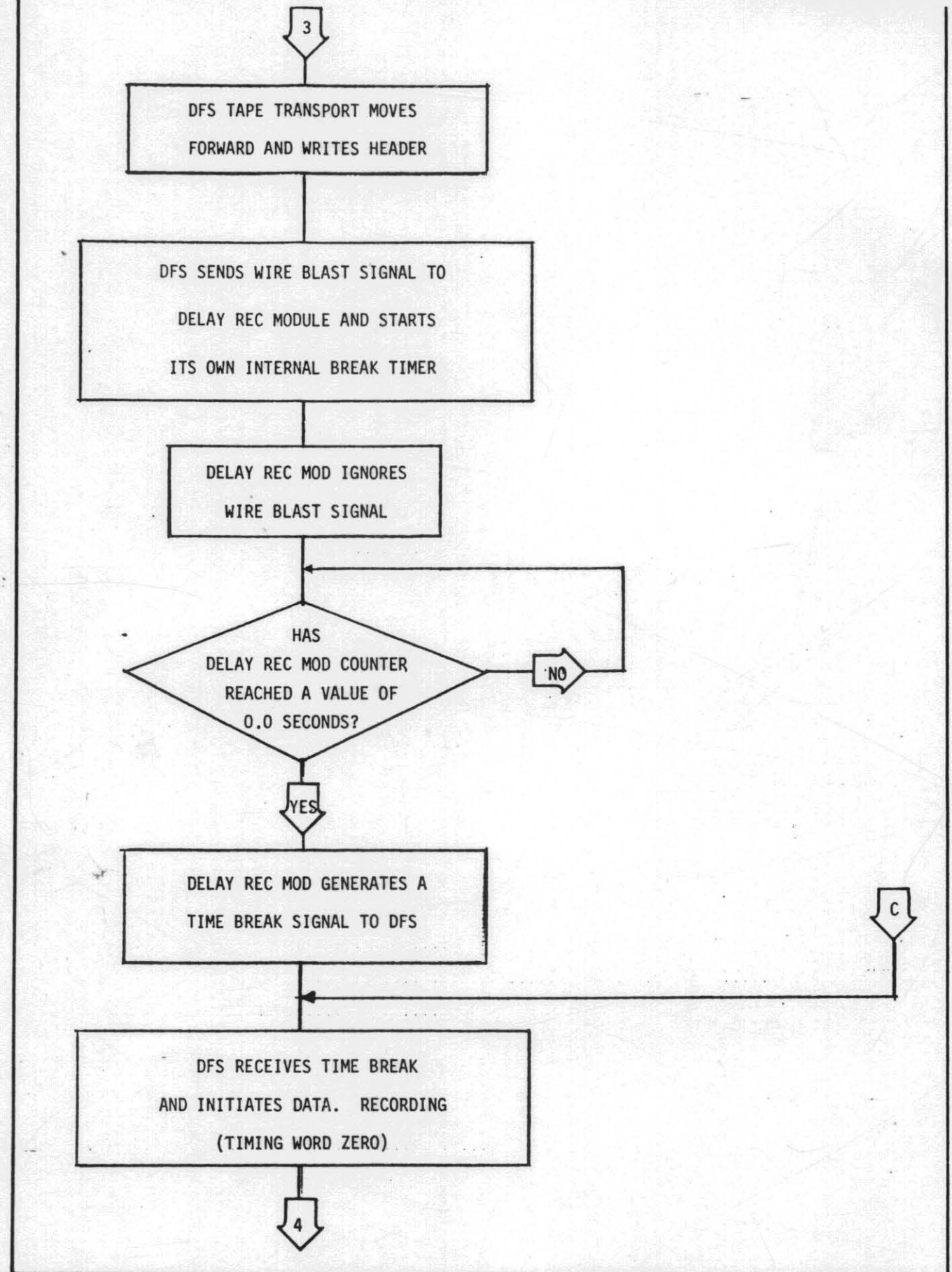
1780048

PLATE 3C



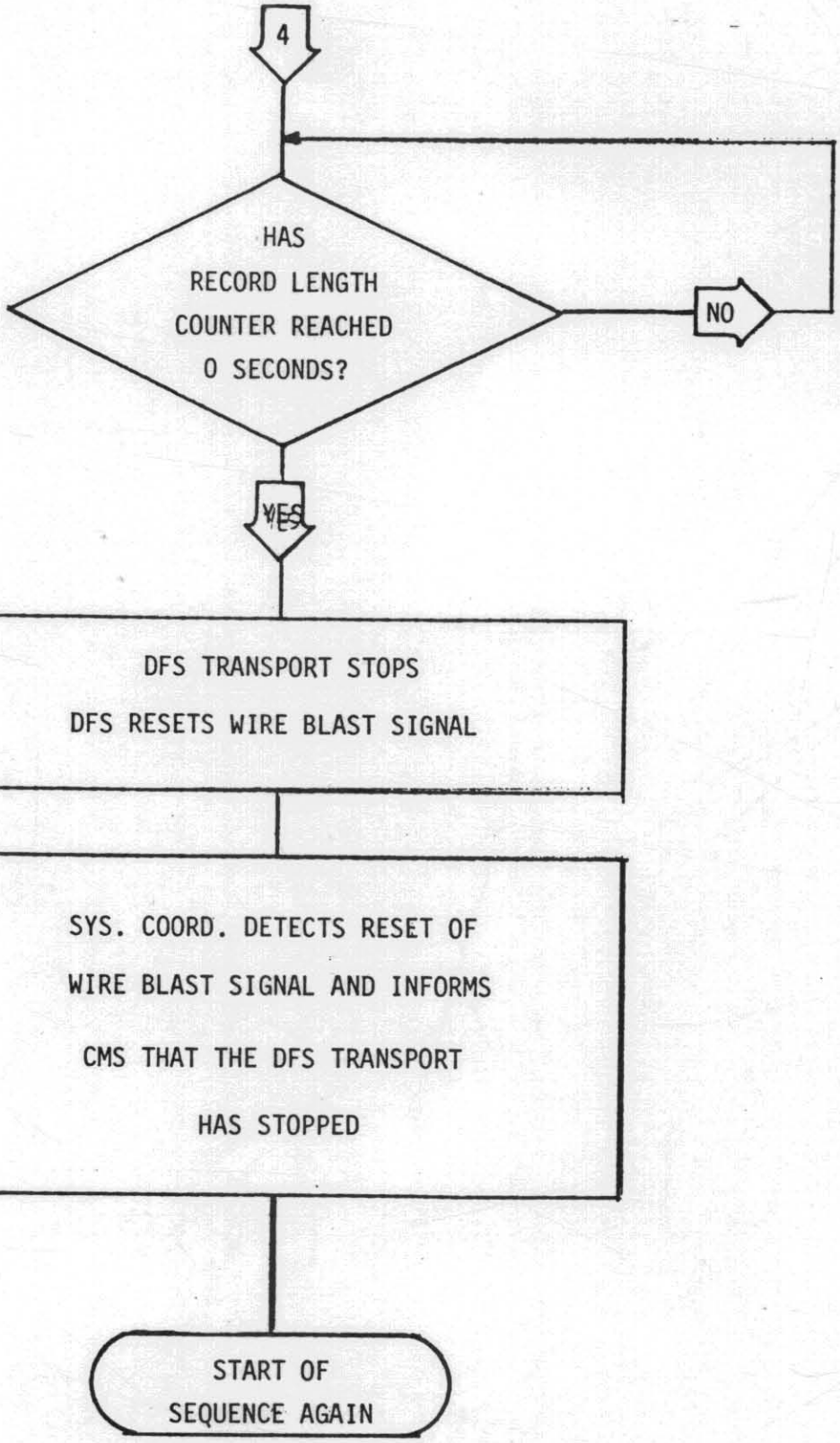
GSI-705-180

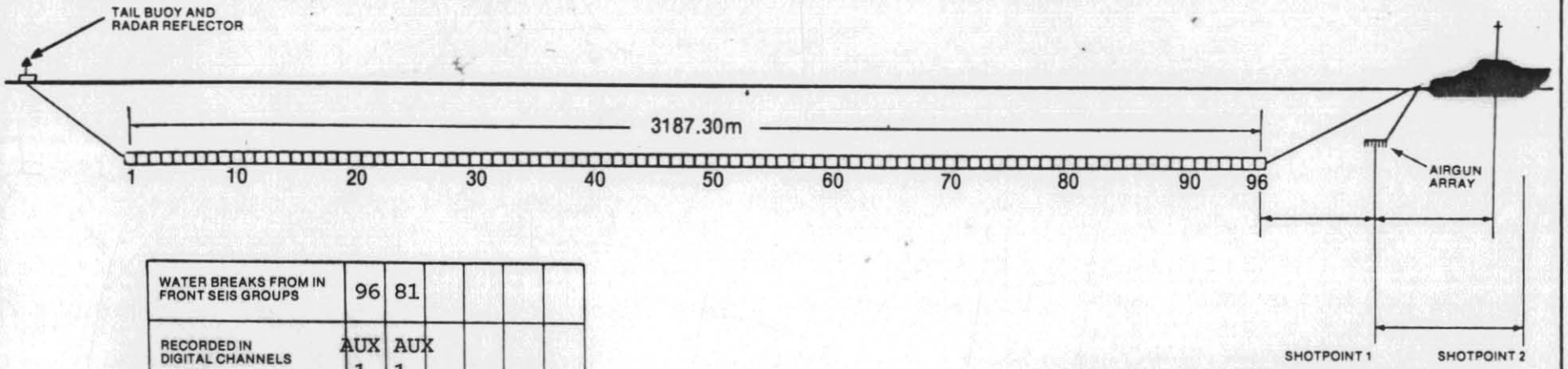
178049



GSI-709

178050


4
HAS
RECORD LENGTH
COUNTER REACHED
0 SECONDS?
NO
YES
DFS TRANSPORT STOPS
DFS RESETS WIRE BLAST SIGNAL
SYS. COORD. DETECTS RESET OF
WIRE BLAST SIGNAL AND INFORMS
CMS THAT THE DFS TRANSPORT
HAS STOPPED
START OF
SEQUENCE AGAIN



WATER BREAKS FROM IN FRONT SEIS GROUPS	96	81				
RECORDED IN DIGITAL CHANNELS	AUX 1	AUX 1				
DISPLAYED ON SEISMOGRAPH TRACES	61	61				

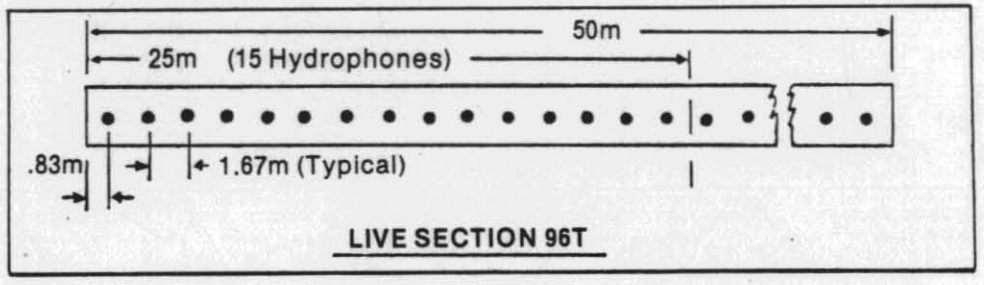
DEPTH TRANSDUCER NUMBERS	6	5	4	3	2	1
AT/NEAR SEIS GROUP NUMBERS	FE/96	82/81	62/61	42/41	22/21	3/2

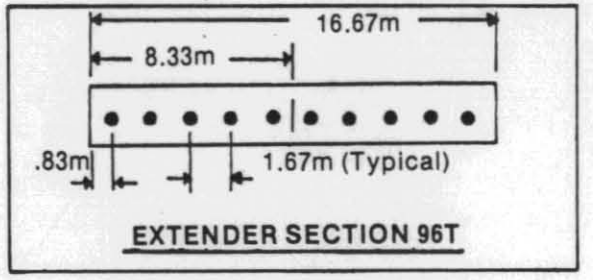
DEPTH CONTROLLER AT SEIS GROUP NUMBERS	

Located on all Depth Transducers

NYLON STRETCH	6 Front End
PIG SECTIONS	None

6 TRANSDUCER SECTIONS 4M LONG





MARINE CABLE DIAGRAM

3200 METRES

(OFFEND SPREAD — 96 GROUPS)

G.S.I. PARTY: 2993

SHIP: M/V "LADY VILMA"

CLIENT: BASS STRAIT OIL & GAS

AREA: VIC. P16/T14/18P

DATE: 31 MARCH - 3 MAY, 1982

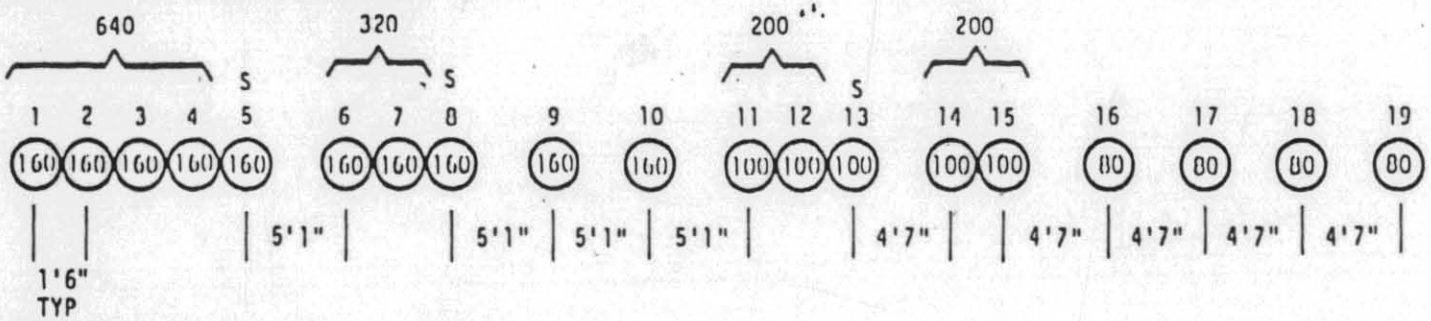
5 cm

PLATE 4

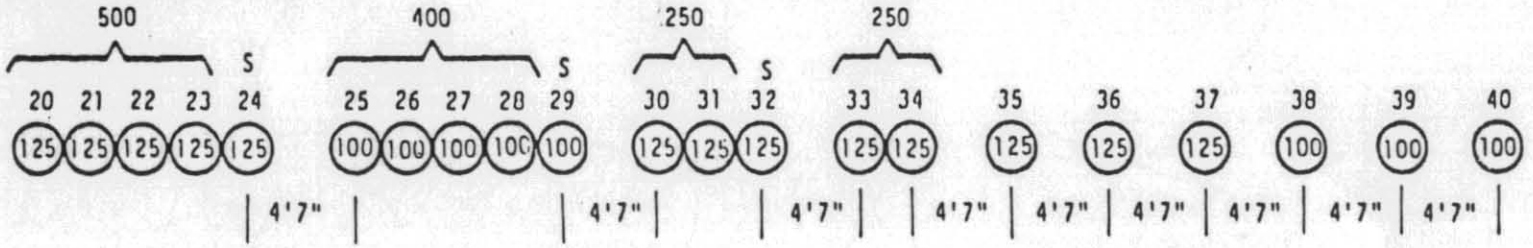
1780 51

4000-CUBIC-INCH AIR GUN ARRAY

STARBOARD STRING (56'9",19 GUNS)



PORT STRING (57'9", 21 GUNS)



25'-30'

NOTES:

1. GUN SIZE IN CUBIC INCHES
2. GUN SPACING IN FEET AND INCHES; CENTERLINE-TO-CENTERLINE SPACING OF ALL COALESCED GUNS IS 1'6"
3. SPARE GUNS DENOTED BY "S"
4. GUNS 1-10 ARE MOD III PC, GUNS 11-40 ARE MOD II PC
5. MEASURED AVERAGE PERFORMANCE:

   P_a = 80 BAR-M (P-P, 0-125 HZ)

   P_a/P_b = 10

ARRAY COMPOSITION

1 X 640	2 X 160
1 X 500	2 X 125
1 X 400	2 X 100
1 X 320	770 SPARE
2 X 250	
2 X 200	
2 X 160	
3 X 125	
3 X 100	
4 X 80	

4075 ACTIVE

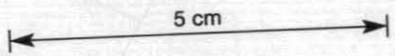
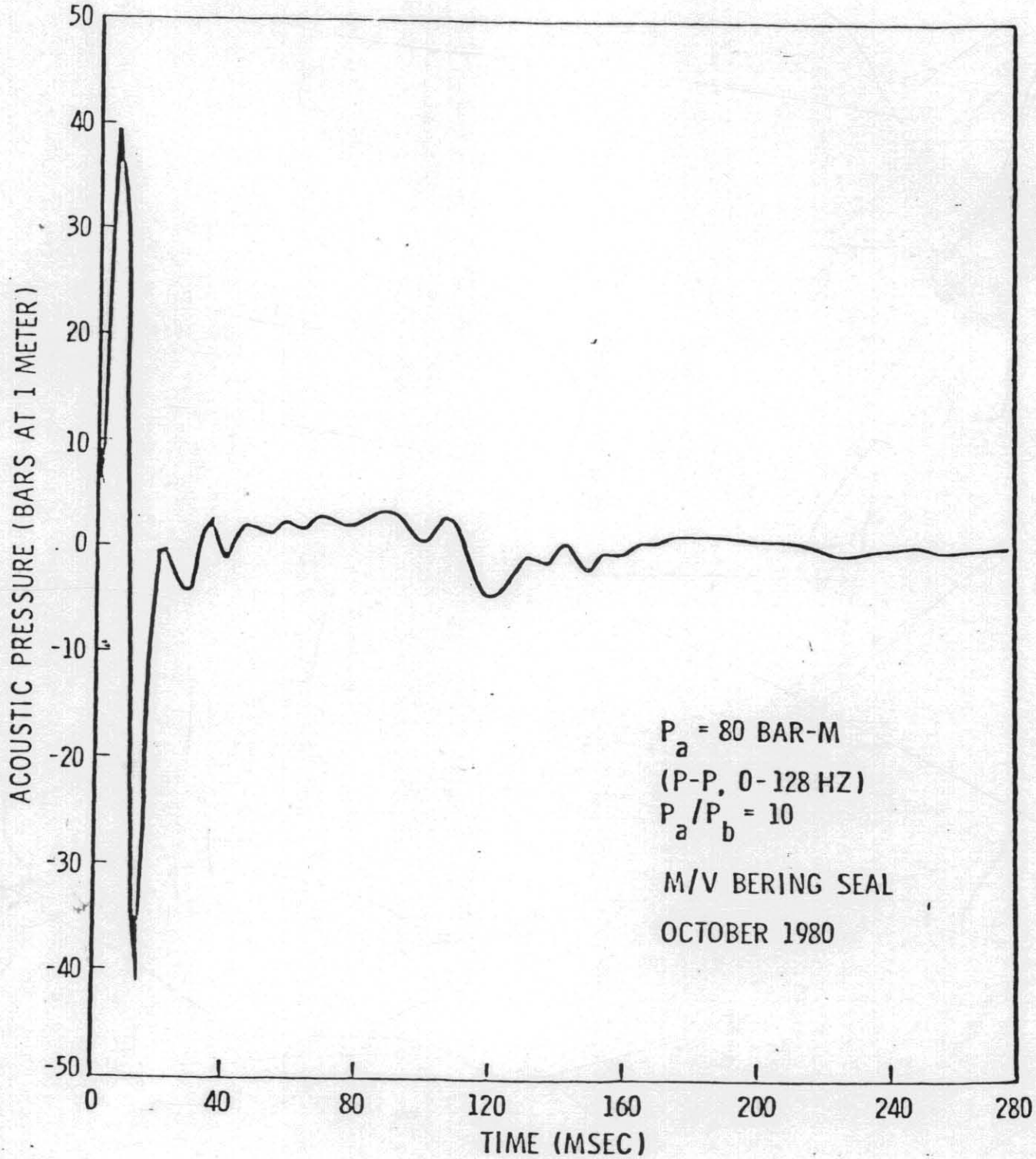


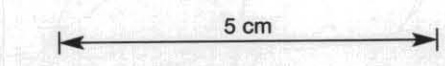
PLATE 5A

1780552

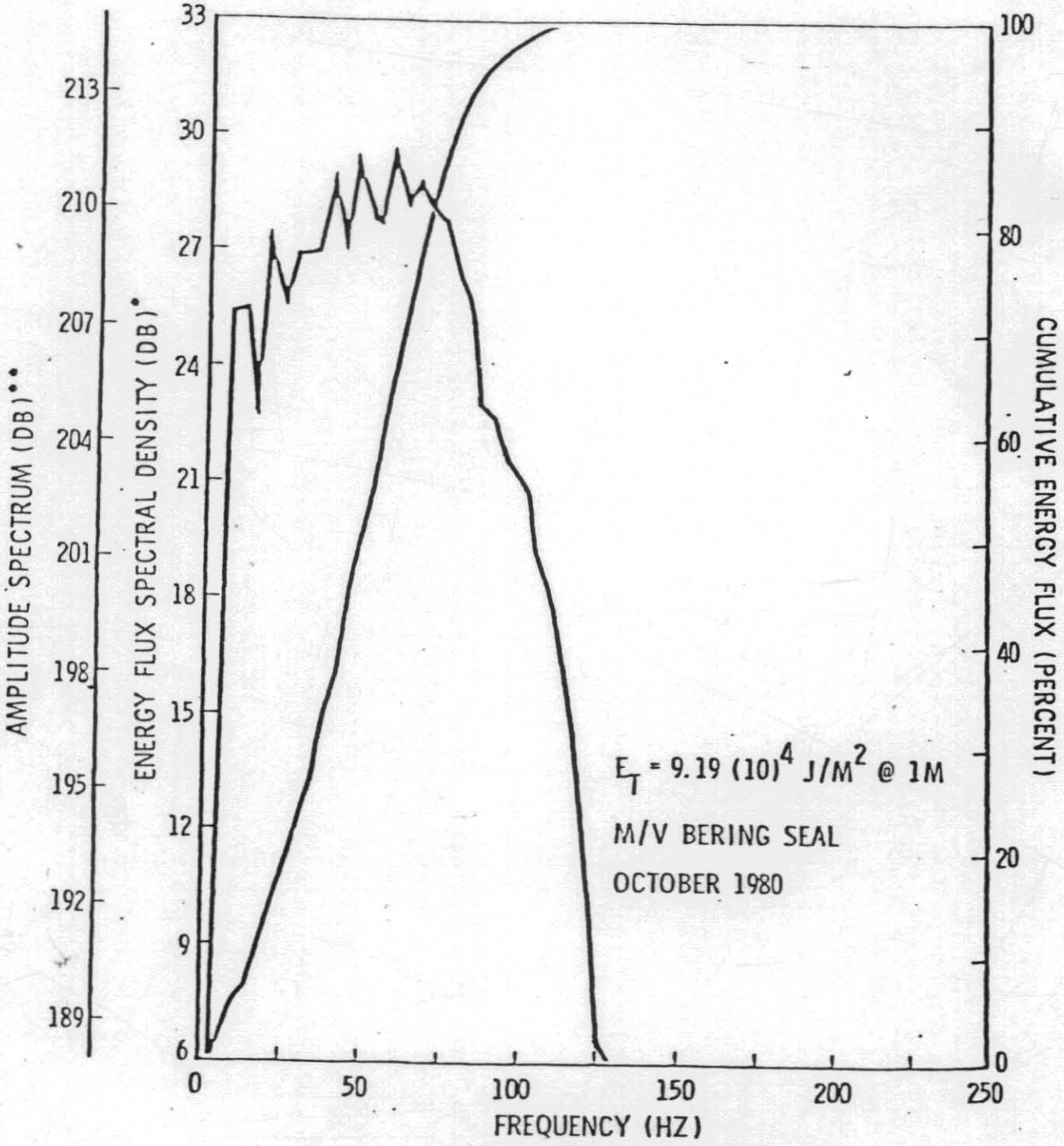
178053



Farfield Signature of 4000 PNU-CON Array



178654



* DB REFERRED TO 1 JOULE/M** 2/HZ AT 1 METER

** DB REFERRED TO 1 MICROPASCAL/HZ AT 1 METER

Amplitude and Energy Spectra of 4000 PNU-CON Array

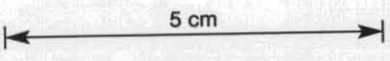


PLATE 6

OFFSET DETERMINATION (SEE NOTE)

PHYSICAL MEASUREMENT

1.	Length of stretch sections with 9% stretch factor (4 x 50) x 9% (measured from stern)	:	218 metres
2.	Total Length of Transducer Section in front of Group No. 96	:	4 metres
3.	One Half of Group No. 96 (25 metre groups)	:	12.5 metres
4.	Distance from Stern to Centre of Array	:	26.5 metres
5.	Offset (1+ 2+ 3) - 4 = 234.5 - 26.5	:	208.0 metres

TIME MEASUREMENT

(From Camera Records)

1.	Measured time from timing word zero to shot arrival on transducer number six waterbreak geophone	:	180 sec.
2.	Tiger Time Delay	:	51.2 m seconds
3.	Speed of Sound in Water (CMS Value)	:	1500 metre/second.
4.	Calculate (1-2) x 3	:	193.2 metres
5.	Distance from Gun fired to centre of array	:	0 metres
6.	Distance from Transducer Number Six waterbreak geophone to centre of group Number 96 (25 metre groups)	:	14.8 metres
7.	Offset = 4 - 5 + 6 = 193.2 - 0 + 14.8	:	208 metres

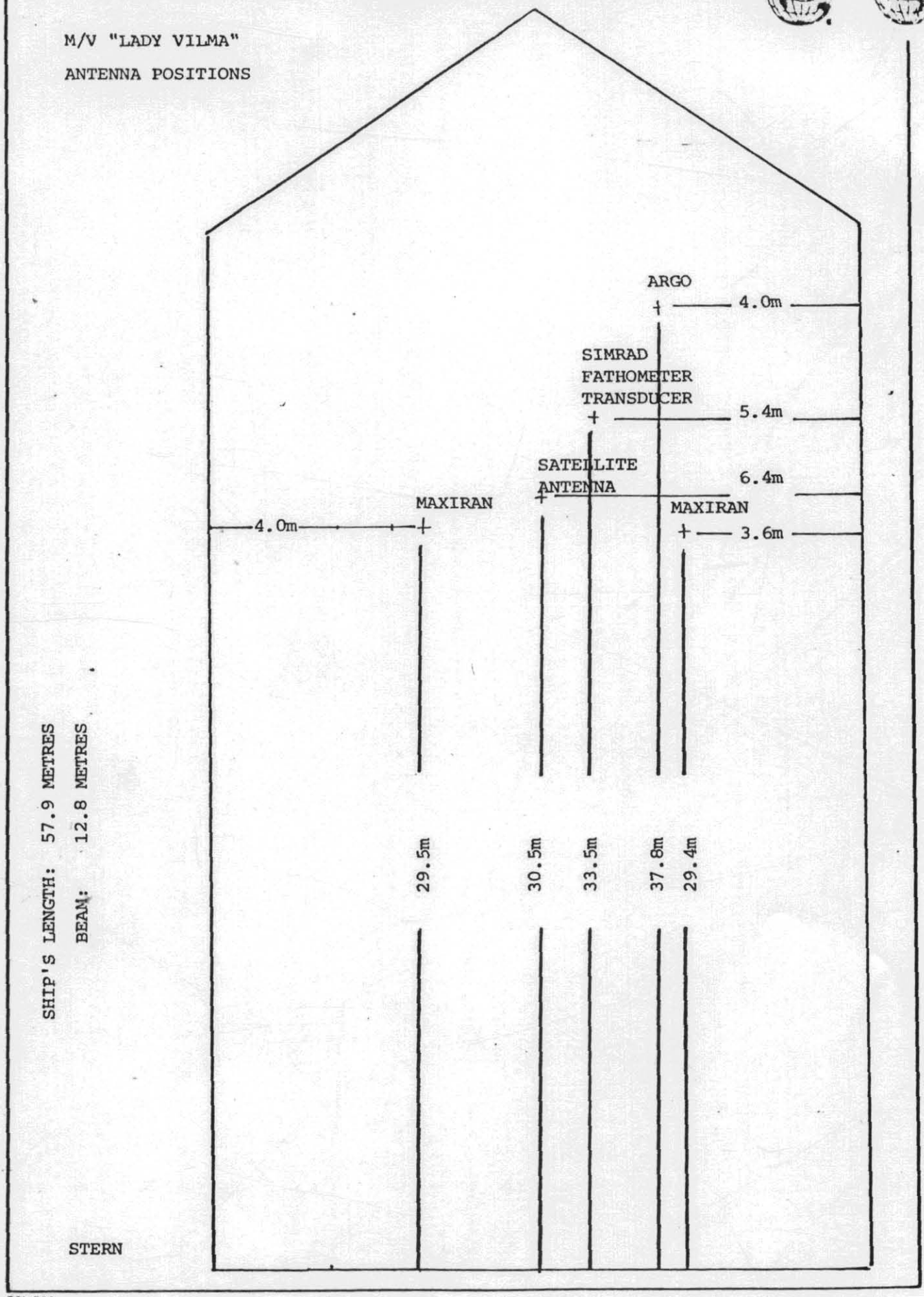
NOTE: This example is unrelated to production covered by this report and is intended only to show the components of the offset measurements.

178056

PLATE 7

M/V "LADY VILMA"

ANTENNA POSITIONS

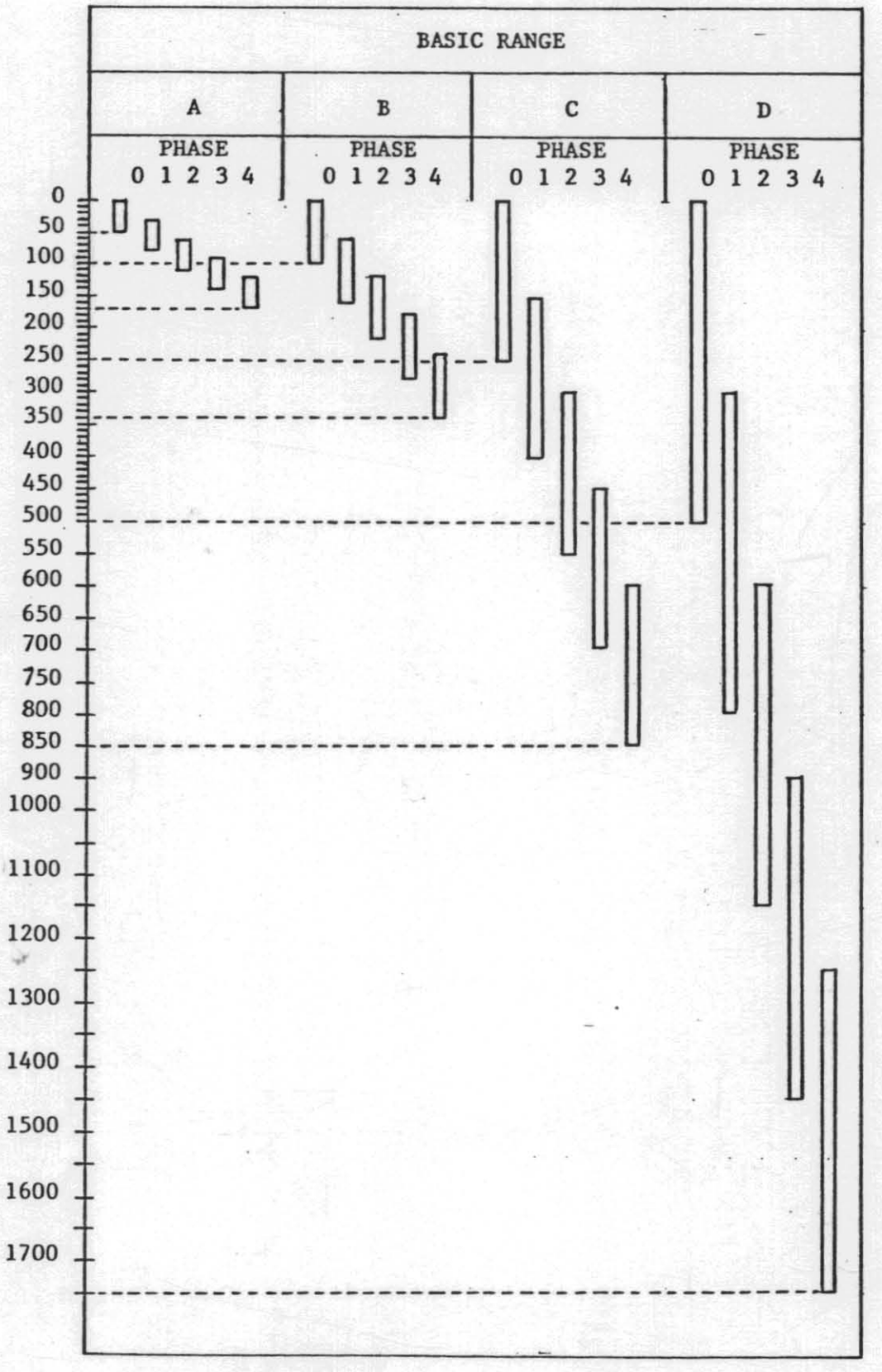


GSI-709

5 cm

178057

SIMRAD MODEL EA FATHOMETER SCALE



GSI-709

5 cm

178058

FINAL REPORT

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

PROJECT 1392

GEOPHYSICAL SERVICE INTERNATIONAL
PARTY 2993

FOR

BASS STRAIT OIL & GAS

VICTORIA, AUSTRALIA

OTWAY BASIN SURVEY
BASS STRAIT T18P SURVEY

MARCH - MAY 1982

OFFSHORE NAVIGATION
(AUSTRALIA) PTY. LTD.

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APPENDIX A - Daily Operations Logs

APPENDIX B - The Maxiran Radiopositioning System

FIGURES

1. Typical Maxiran System
2. System with Two Beacons
3. Uncertainty with Two Beacons
4. System with Three Beacons
5. Uncertainty with Three Beacons

178030

I. INTRODUCTION

Offshore Navigation (Australia) Pty. Ltd. (ONA), under contract to Geophysical Service International (GSI), provided a Maxiran Radiopositioning System to a marine seismic survey that was conducted off the coast of Australia, in the Bass Strait. The survey was located between Victoria, on the Australian mainland and Tasmania. The survey was conducted for Bass Strait Oil & Gas (B.S.O.G.). A portion of the survey was conducted in Otway Basin, and this operation was designated as the Otway Basin Prospect. The remaining operation was conducted in Bass Strait, and was designated as the Bass Strait T18P Prospect. The survey extended up to approximately 80 miles offshore. The operation was designated by ONA as Project 1392.

The ONA base of operation for this survey was established at Lakes Entrance, Victoria on 6 March 1982. The base of operation was moved to Melbourne, Victoria on 1 April 1982.

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

II. FIELD OPERATIONS RECAP

ONA personnel and the Maxiran system was in the operational area prior to the commencement of this survey for a survey being conducted by GSI for another principal. The Maxiran base station equipment was installed, manned and operational for that other survey. The Maxiran mobile equipment had been installed on board the recording vessel, M/V LADY VILMA.

Geophysical operations for the other principal were discontinued at 1217 hours 29 March 1982. The M/V LADY VILMA proceeded to Westernport Bay, Stony Point Pier to pick up supplies and drop data. The vessel departed Westernport Bay at 1610 hours 30 March, and proceeded to the B.S.O.G. Otway Basin Prospect area. Geophysical operations in this area began at 2240 hours 31 March. The survey was terminated at 1400 hours 6 April 1982 due to swell noise on the seismic cable exceeding the specified level.

The M/V LADY VILMA arrived in the Bass Strait T 18 P Prospect at 2100 hours 20 April 1982. Geophysical operations

II. FIELD OPERATIONS RECAP (continued)

in this area began at 2121 hours 20 April, and were discontinued at 2130 hours 24 April 1982.

The M/V LADY VILMA returned to the Otway Basin Prospect on 2 May 1982. Geophysical operations in this prospect resumed at 1416 hours 2 May, and were completed at 0908 hours 3 May 1982. See Appendix A of this report for details of operations.

The Maxiran system was secured on completion of this survey. The Maxiran base stations were dismantled by 4 May 1982. The M/V LADY VILMA arrived at Stony Point, Westernport Bay at 2245 hours 3 May. The Maxiran electronics were removed from this vessel on 4 May. The Maxiran towers, cabling, etc. remained installed on board. The Maxiran system was packaged on 5 May, and shipped to the ONA office in Perth, W.A., via surface freight, on 6 May 1982.

All ONA personnel assigned to this operation were released by GSI on 6 May 1982.

III. GENERAL INFORMATION

A. Maxiran frequencies used were:

Mobile Transmitter	429 MHz
Base Transmitter	429 MHz

B. Satisfactory radiotelephone communications between all Maxiran installations were maintained on the frequencies of 4637.5 and 7840.0 (SSB) kilocycles.

C. The Maxiran field data accumulated during this survey was turned over to Mr. S. Mueller, the GSI representative, on 3 May 1982.

D. Four Maxiran base station installations were provided by ONA for this survey.

E. Four Maxiran base station sites were occupied during this operation. They were:

STATION LIPTRAP

STATION MARY (ST 462)

STATION MT. CAMERON WEST

STATION MT. CHAPPLE

III. GENERAL INFORMATION (continued)

F. The maximum range observed by the Maxiran system during this survey was 280 kilometers.

G. The Maxiran mobile equipment was checked daily for a proper delay setting of 9221 meters, a setting determined by the Maxiran calibration conducted on 8 March 1982.

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IV. MAXIRAN CALIBRATION

The Maxiran system was calibrated on 8 March 1982. For this calibration, the Maxiran mobile equipment was installed at Station Seacombe, and the Maxiran base station equipment was installed at Station Blackwarri. The Maxiran system was checked over a computed Stations Seacombe/Blackwarri baseline of 77.592 kilometers.

The following pages consist of the field report of this calibration.

PAGE No1

OFFSHORE NAVIGATION, INC.

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7.

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWARRI		
OPERATOR: TAYLOR, D			OPERATOR: HENNESSY, A.		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM 01	026	BEACON	NTL 02	014 CODE 2
INTERROGATOR	NTM 02	009	CONTROL BOX	NCL 01	136
AMPLIFIER	NTU 01	014	AMPLIFIER	NTU 01	015
AMPLIFIER P/S	014NPU 01	014	AMPLIFIER P/S	015NPU 01	015
ARREAMP	173SAU 12	173	PREAMP	176SAU 12	176
TYPE COAX / LENGTH	SEE OVER		TYPE COAX / LENGTH	SEE OVER	
TYPE ANTENNA / HEIGHT	QUAD 2PL's	40'	TYPE ANTENNA / HEIGHT	QUAD 2PL's	40'
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 MHZ		TX. FREQUENCY	429 MHZ	
RX. FREQUENCY	429 MHZ		RX. FREQUENCY	429 MHZ	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD, RAIN.		WEATHER CONDITIONS	OVERCAST, COLD, RAIN	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9.221 KM

OBSERVED RANGE IN OPERATE: 77.591 KM TIME: 1355 hrs.

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
3. Each report will be complete in itself. Do not refer to other reports for information.
4. Use the reverse side of this report for any additional comments deemed necessary or advisable for completeness and clarity.

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.8

SEACOMBE

BLACKWARRI

MOBILE STATION	BASE STATION
NAMES:	NAMES:
1. D. TAYLOR	1. A. HENNESSY.
LAT: 38-07-59.47365	LAT: 38-24-15.075
2. LON: 147-27-51.5482E	2. LON 146-38-49.24E
E 540692.379 METERS	E. 469179 METERS
3. N 5779290.938 METERS	3. N. 5749264 METERS
ELEV 27.98 METERS	ELEV 640 METERS

UTM AUST NAT SPHEROID 1966 ZONE 55 CM 147°E AGD.

COMMENTS:

MOBILE

TX
8' STACKING
BALUN
12'
74' ANDREWS
8'
BALUN
8'
LINEAR
8'

RX
8'
BALUN
1'
PREAMP
82'
BALUN
8'
DC BLOCK
3' RG58

BASE

TX
8' STACKING
BALUN
8'
74' ANDREWS
LINEAR
8'

RX
8'
BALUN
PREAMP
82'
DC BLOCK
3' RG58

Page No 2

OFFSHORE NAVIGATION, INC.

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9

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWARRI		
OPERATOR: D. TAYLOR			OPERATOR: A. HENNESSY		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	033 CODE 4
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	173 SAU-12	173	PREAMP	176 SAU-12	176
COAX TYPE	LENGTH TYPE	LENGTH	COAX TYPE	LENGTH TYPE	LENGTH
	SEE BACK of PAGE	SEE BACK of PAGE		SEE BACK of PAGE	SEE BACK of PAGE No.1
ANTENNA TYPE	HEIGHT TYPE	HEIGHT	ANTENNA TYPE	HEIGHT TYPE	HEIGHT
	QUAD LPL'S	40'		QUAD LPL'S	40'
INPUT VOLTAGE	115 V		INPUT VOLTAGE	115 V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429 Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD, RAIN		WEATHER CONDITIONS	OVERCAST, COLD, RAIN	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9.221 KM

OBSERVED RANGE IN OPERATE: 77.592 KM TIME: 1410 hrs.

adjusted 8m down.

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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OFFSHORE NAVIGATION, INC.

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MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWARRI		
OPERATOR: D. TAYLOR			OPERATOR: A. HENNESSY		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	024 CODE 1
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	SAU-12	173	PREAMP	SAU-12	176
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	SEE BACK of	PAGE No.1		SEE BACK of	PAGE No
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	QUAD LPL'S	40'		QUAD LPL'S	40'
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429 Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD, RAIN		WEATHER CONDITIONS	OVERCAST, COLD RAIN.	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9.221 KM

OBSERVED RANGE IN OPERATE: 77.591 KM TIME: 1430 Lo.

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

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OFFSHORE NAVIGATION, INC.

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11

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACK WARRI		
OPERATOR: D. TAYLOR			OPERATOR: A. HENNESSY		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	028 CODE 4
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	SAU-12	173	PREAMP	SAU-12	176
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	SEE BACK of PAGE No 1			SEE BACK of PAGE No	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	QUAD LPL'S	40'		QUAD LPL'S	40'
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429 Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD, RAIN.		WEATHER CONDITIONS	OVERCAST, COLD, RAIN	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9.221 KM

OBSERVED RANGE IN OPERATE: 77.591 KM TIME: 1440 hrs.

adjusted 2M down.

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

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2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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OFFSHORE NAVIGATION, INC.

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12

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWARRI		
OPERATOR: TAYLOR, D.			OPERATOR: HENNESSY, A		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	029 CODE 2
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	SAU-12	173	PREAMP	SAU-12	176
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	SEE BACK of PAGE No1			SEE BACK of PAGE No1	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	QUAD LPL's	40'		QUAD LPL's	40'
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429 Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD RAIN		WEATHER CONDITIONS	OVERCAST, COLD RAIN.	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77592 KM

∴ MOBILE ZERO SETTING IS: 9221 KM

OBSERVED RANGE IN OPERATE: 77.592 KM TIME: 1455 hrs

Adusted 6M up.

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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OFFSHORE NAVIGATION, INC.

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13

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWALL		
OPERATOR: D. TAYLOR			OPERATOR: A. HENNESSY.		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	026 CODE
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	SAU-12	173	PREAMP	SAU12	176
COAX TYPE	COAX LENGTH		COAX TYPE	COAX LENGTH	
SEE BACK of	PAGE No 1		SEE BACK of	PAGE No	
ANTENNA TYPE	HEIGHT		ANTENNA TYPE	HEIGHT	
QUAD LDL3	40'		QUAD LDL3	40'	
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429 Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST, COLD, RAIN		WEATHER CONDITIONS	OVERCAST, COL RAIN.	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9.221 KM

OBSERVED RANGE IN OPERATE: 77.591 KM TIME: 1520 hrs.

adusted 4m down

SIGNED: D Taylor

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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Page No. 7

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OFFSHORE NAVIGATION, INC.

14

MAXIRAN CALIBRATION REPORT

DATE: 8-3-82

MOBILE STATION			BASE STATION		
LOCATION: SEACOMBE			LOCATION: BLACKWATTLI		
OPERATOR: D. TAYLOR			OPERATOR: HENNESSY, A.		
UNIT	MODEL	SERIAL No.	UNIT	MODEL	SERIAL No.
MONITOR	NMM-01	026	BEACON	NTL-02	030 CODE 5
INTERROGATOR	NTM-02	009	CONTROL BOX	NCL-01	136
AMPLIFIER	NTU-01	014	AMPLIFIER	NTU-01	015
AMPLIFIER P/S	NPU-01	014	AMPLIFIER P/S	NPU-01	015
PREAMP	SAU-12	173	PREAMP	SAU-12	176
COAX	TYPE	LENGTH	COAX	TYPE	LENGTH
	SEE BACK of PAGE No.1			SEE BACK of PAGE No.	
ANTENNA	TYPE	HEIGHT	ANTENNA	TYPE	HEIGHT
	QUAD LPL'S	40'		QUAD LPL'S	40'
INPUT VOLTAGE	115V		INPUT VOLTAGE	115V	
TX. FREQUENCY	429 Mhz		TX. FREQUENCY	429Mhz	
RX. FREQUENCY	429 Mhz		RX. FREQUENCY	429 Mhz	
RX. GAIN SETTING	MIN		RX. GAIN SETTING	MIN	
WEATHER CONDITIONS	OVERCAST COLD RAIN		WEATHER CONDITIONS	OVERCAST, COLD RAIN.	

OBSERVED RANGE IN CALIBRATE: 86.813 KM

COMPUTED SLANT RANGE: 77.592 KM

∴ MOBILE ZERO SETTING IS: 9221 KM

OBSERVED RANGE IN OPERATE: 77.592 KM TIME: 1530 hrs.

SIGNED: D Lee

NOTES REGARDING CALIBRATION PROCEDURES:

1. All equipment will be allowed to warm up for at least 30 minutes prior to calibrating.
2. All readings entered hereon will be final readings for the item in question, not preliminary or intermediate readings.
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178074

V. MAPPING

Maxiran preplots of the survey were generated on board the M/V LADY VILMA by GSI personnel. The interval between shotpoint locations was constant at 33.33 meters.

No final mapping was accomplished by ONA on this survey. The Maxiran field data accumulated during this survey was turned over to Mr. S. Mueller, the GSI representative, on 3 May 1982.

VI. BASIC CONTROL

The source of the coordinates listed below are indicated on the individual descriptions of the four Maxiran base stations occupied during this survey period, and have been made part of this report.

Universal Transverse Mercator Projection
Australian National Spheroid
Zone 55
Central Meridian 147° East
AUSTRALIAN GEODETIC DATUM

STATION LIPTRAP:

Latitude	38°51'05"51 S	N = 5,699,175 meters
Longitude	145°57'54"92 E	E = 410,211 meters
Elevation	170 meters	

STATION MARY (ST 462):

Latitude	39°58'30"06 S	N = 5,570,466 meters
Longitude	143°55'24"48 E	E = 237,239 meters
Elevation	131 meters	

STATION MT. CAMERON WEST:

Latitude	40°51'55"95 S	N = 5,473,625 meters
Longitude	144°42'28"75 E	E = 306,839 meters
Elevation	168 meters	

STATION MT. CHAPPLE:

Latitude	38°39'49"92 S	N = 5,714,527 meters
Longitude	143°27'01"07 E	E = 191,131 meters
Elevation	548 meters	

VII. PERSONNEL

NAME	POSITION
Heaverlo, D.	Party Chief
Russell, D.	Party Chief
Hennessy, A.	Mobile Operator
Thiemann, C.	Mobile Operator
Hassett, B.	Base Operator
Lehmann, J.	Base Operator
Owens, R.	Base Operator
Ramos, E.	Base Operator

VIII. DISTRIBUTION

Geophysical Service International
25 Barrack Street
Perth, W.A. 6000
AUSTRALIA

Attention: Mr. Ian Taylor — Four copies

Offshore Navigation, Inc.
Post Office Box 23504
Harahan, LA 70183
U.S.A. — Two copies

Offshore Navigation, Inc.
Post Office Box 291
Cloverdale, W.A. 6105
AUSTRALIA — One copy

BASE STATION DESCRIPTION AND PLATES

STATION: LIPTRAP

LOCATED: Station Liptrap is located approximately 15 miles from the township of Tarwin Lower, Victoria, Australia, and 5 miles north of the Cape Liptrap Lighthouse. The station site is 170 meters above sea level, and surrounded on three sides by the sea. The land around the base station is undulating sand hills, covered by low mallee scrub with areas of secondary growth consisting of ferns and prickly bush. Also, some livestock grazing areas are within a mile radius of the site.

The station is located within a triangle of dirt roads, the northern side being the apex leading to the township of Tarwin Lower. The two southern apexes lead to beaches, one at Cape Liptrap, and the other at Walker Ville. The immediate area at the trig marker is covered by scrub 1 to 2 feet high, growing on white and yellow sand. The trig marker is approximately 200 feet east of the dirt road. The area, for approximately 200 feet around the marker, is reasonably flat.

This station is accessible by any type of vehicle.

MARKER: The original marker, placed in 1863, was about 3/4 mile south-southwest from the present marker, but could not be recovered. A second marker, about 1 mile north-northeast of the present marker, was placed in 1920. The beacon on this marker disappeared during the 1950's.

The present marker consists of a 3-foot square slab of concrete, that is flush with ground level. A brass plaque, inscribed "AUST. TRIANGULATION STN., SURVEY CORPS.", is imbedded in the concrete. A 15-foot steel quadripod, with 2-foot vanes on top, has been constructed over the marker. The quadripod and vanes are painted black.

There are no prominent features in the immediate vicinity of the marker that could be used as

STATION: LIPTRAP (continued)

reference, with the exception of the roads. (See Sketch.)

GENERAL: Local labor, food, fuel, oil, and drinking water can be obtained from the towns of Fish Creek (15 miles) or Tarwin Lowers (14 miles). If the operator has no transportation, the local Lands Department will be only too willing to get water and/or supplies for the operator.

Permission to occupy the site should be obtained from the Victorian Crown Lands and Surveys. Permission can be obtained from Mr. Ken McMahon, P.O. Box 349, Traralgon 3844, Victoria. Telephone (051) 745244. No rental fee is charged. However, conditions of occupancy are on a "LEFT AS FOUND" basis.

Rain and wind, mainly from the west and east, will be the main discomfort experienced on this station. It would be advisable to double-tie the tents down. The station should never be left unmanned, due to the heavy tourist traffic in the area.

A minimum tower height of 40 feet is required to clear surrounding obstructions. Clear vista is from 120° to 290°. Six-foot steel star stakes are used to secure the tower.

ELEVATION: 170 meters

SKETCH: See next page.

Coordinates of the station markers were obtained from a Department of Crown Lands and Survey, Victoria summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

Lat. 38°51'05".51 S N = 5,699,175 meters
Long. 145°57'54".92 E E = 410,211 meters

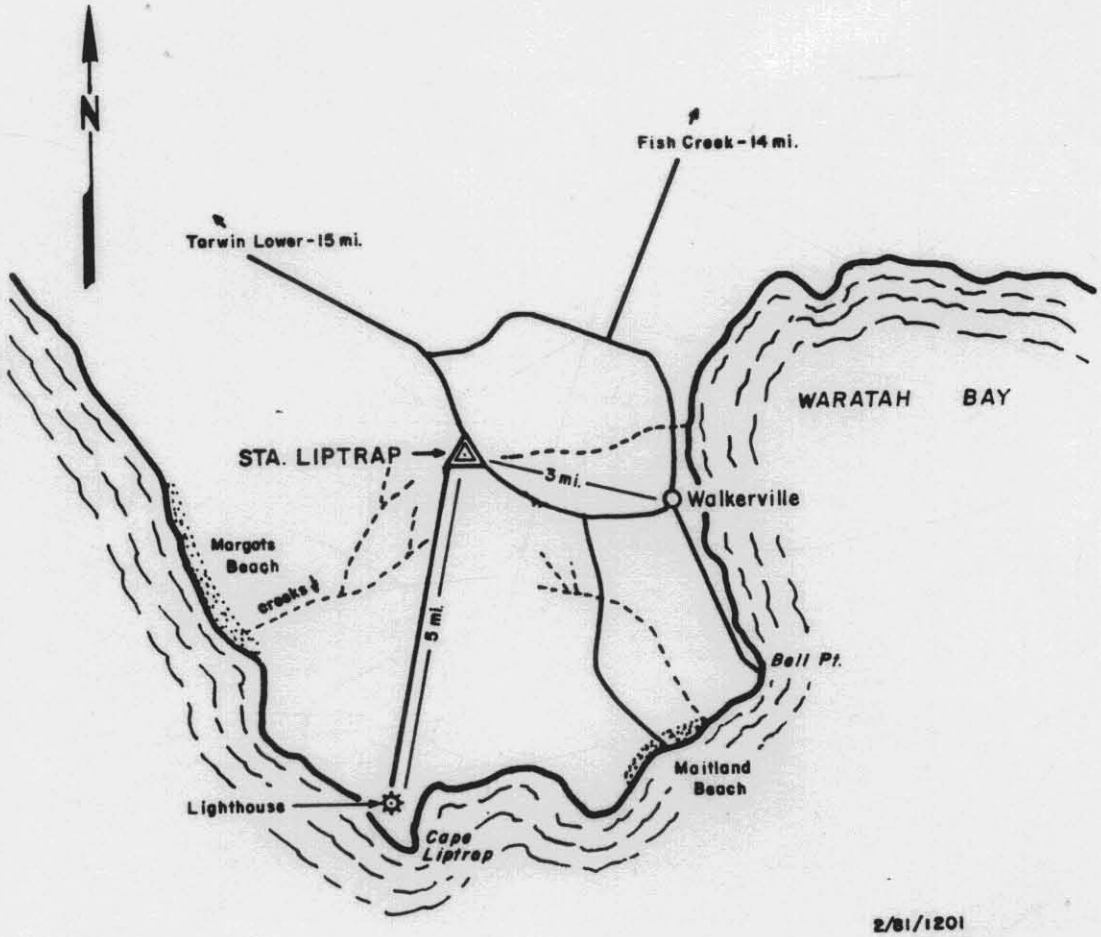
178079

STA. LIPTRAP——————————AUSTRALIA

LAT. 38°51'05".51 S
LONG. 145°57'54".92 E
ELEV. 170 meters

N 5,699,175 meters
E 410,211 meters

UTM PROJECTION, AUST. NATIONAL SPHEROID
ZONE 55 C.M. 147° E
AUSTRALIAN GEODETIC DATUM



2/81/1201

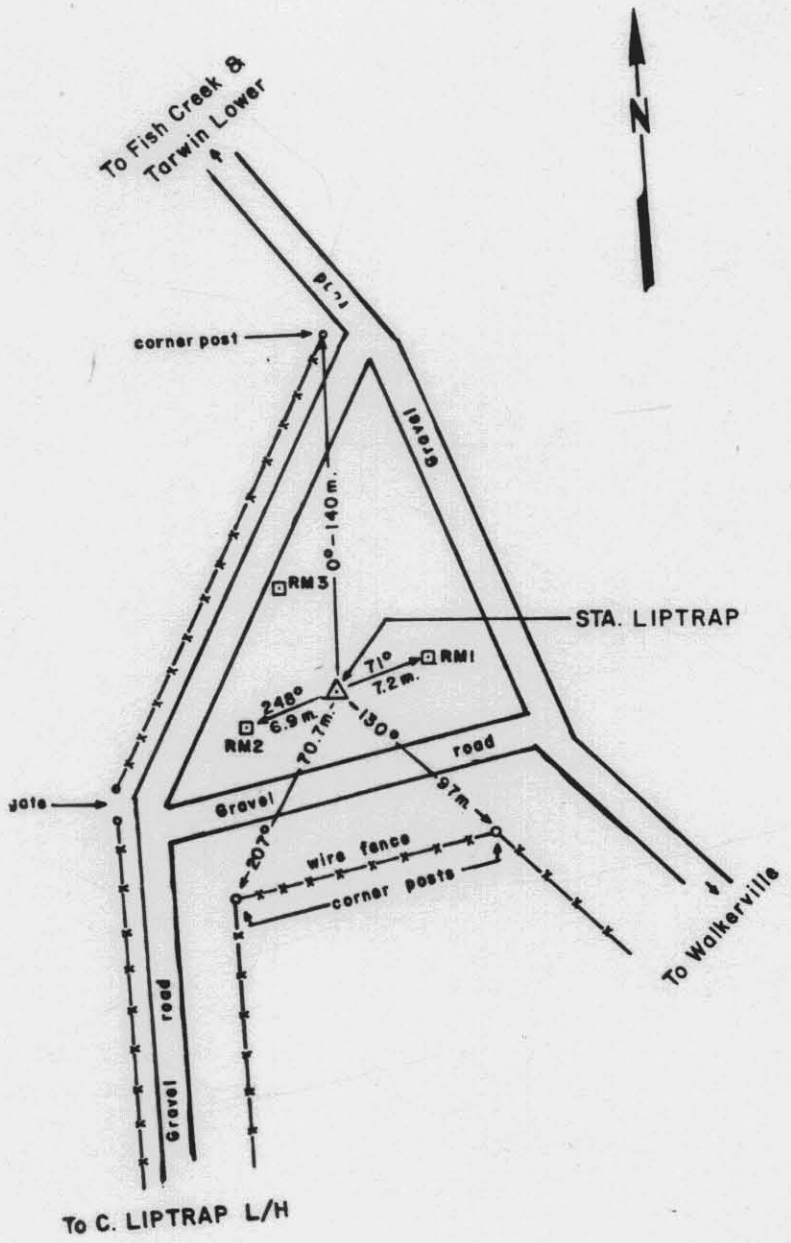
5 cm

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

178080

STA. LIPTRAP ——————— AUSTRALIA

STATION DETAILS



2/81/1201

5 cm

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

178081

STATION LIPTRAP
MARKER

OFFSHORE NAVIGATION
(AUSTRALIA) PTY. LTD.

STATION: MARY (ST 462)

LOCATED: Station Mary (ST 462) is located on Mary Hill, a sand dune covered with marram grass in an area of undulating sand dunes, approximately 8 to 9 kilometers southeast of the town of Currie, on the southwest coast of King Island, Tasmania, Australia. It consists of a steep prominent peak, with a lower peak to the north. A wind direction/velocity recording station is located on the lower peak. A 30-foot guyed wooden pole structure, with a cat walk near its top, is located at this recording station and is easily seen from a distance. A small aluminum shed is located to the east of the pole.

The trig station cannot be easily seen from a distance, as the vanes have collapsed from the top of the pole.

An area of swamp and scrub, known as the "Dead Sea", is located to the northeast, and at the base of the Mary Hill. Mount Stanley, with a 250-foot communications tower, can be easily seen 12 to 13 kilometers northeast of the station. The eastern side of Mary Hill is quite steep, and falls away into a "punch bowl".

ACCESS: From the township of Currie, travel southeast for 4.5 kilometers along the grassy road (bitumen) to a "Y" junction. Turn right at this junction onto an old grassy road (bitumen), and travel for 19 kilometers to a second "Y" junction. Keep to the right at this junction, and proceed along an old grassy road (gravel) for about 1.9 kilometers, stopping at a weldmesh gate located alongside cattle yards on the right. Go through this gate, and follow a wheel track for 1.1 kilometers to the top of Mary Hill, and the station marker. Access is by a circulating sand track located between the "Dead Sea" and "punch bowl". The site can be driven to easily, and an adequate turn-around is located on the summit of the hill. However, a four-wheel drive vehicle would be required to

STATION: MARY (ST 462) (continued)

reach this station during the winter months. Vehicles can be obtained through Mr. R. Robertson at the Boomerang Motel, telephone 62-1288.

MARKER: The station marker consists of a 2-inch square galvanized pipe driven into the ground, with 12 feet of the pipe protruding above ground level. The square vanes that were once secured to the top of this pipe have fallen down onto a 3-foot high rock cairn which supports the base of the pipe. No inscriptions are detectable. The black paint on the marker is eroded.

Due to the shape and steepness of the hill, it is necessary to offset the tower 5 feet, at a bearing of 270°, from the marker.

GENERAL: The town of Currie has the only shopping center on King Island. Food supplies can be obtained in this shopping center. Fuel supplies can be obtained from the Shell Depot on Hickmott Street, or B.P. Depot on Meech Street in Currie. Water and camping supplies can be arranged through the Boomerang Motel. Workshop facilites are available on request from Howell's Service Station, located at the corner of Meech and George Streets, in Currie. Supplies not available on the island can be flown in by Ansett Cargo via Tullermarine, or Australian Air Charter via Moorabin (Depot K.J. at K.I. Co-op.) Labor is in short supply during good weather, as most available labor is working on fishing boats. Mr. P. Robertson, at the Boomerang Motel, can assist in obtaining labor.

Extreme weather conditions can be experienced on King Island. Violent rain squalls, with wind velocity of up to 70 knots, seem to come from the southwest.

As most roads on the island are not signposted, it is suggested that a Broadbents map, No. 340, be purchased to assist in locating roads, etc.

STATION: MARY (ST 462) (continued)

A 40-foot Maxiran tower was erected at this site, the minimum height required to clear surrounding obstructions. Clear vista is 360°. Star stakes were used to secure the tower.

The station site property is owned by a Mr. McClasson. Permission to occupy the site was obtained from Mr. R. Payne. Mr. Payne can be contacted in Currie, telephone number 004-631188. No rent was paid for the use of this land.

ELEVATION: 131 meters

SKETCH: See next page.

Coordinates of the station marker were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

Lat. 39°58'30".06 S N = 5,570,466 meters
Long. 143°55'24".48 E E = 237,239 meters

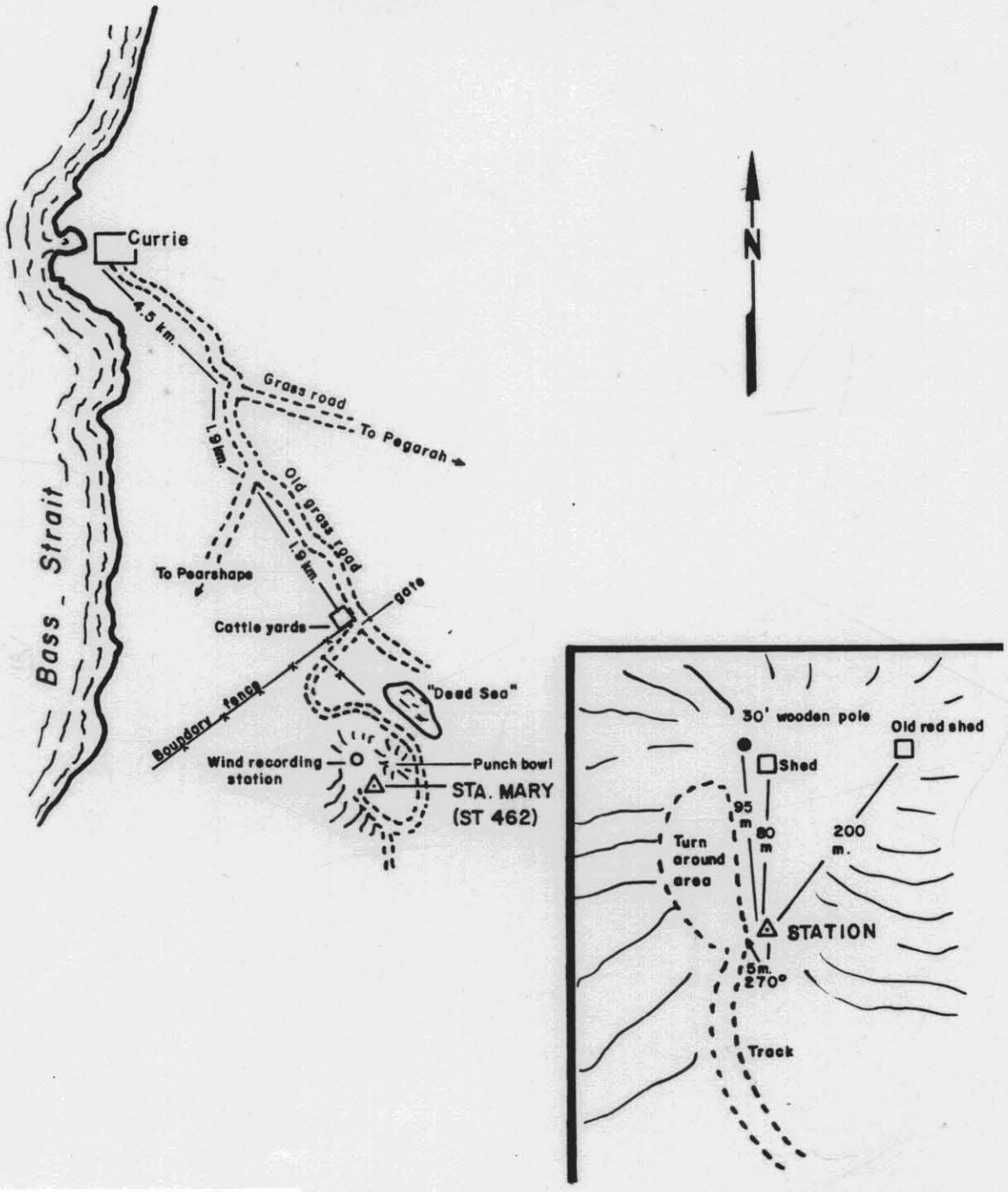
178085

STA. MARY (ST 462)——————AUSTRALIA

LAT. 39° 58' 30".06 S
LONG. 143° 55' 24".48 E
ELEV. 131 meters

N 5,570,466 meters
E 237,239 meters

UTM PROJECTION, AUST. NATIONAL SPHEROID
ZONE 55 C.M. 147° E
AUSTRALIAN GEODETIC DATUM



5 cm

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

STATION: MT. CAMERON WEST

LOCATED: Station Mt. Cameron West is located near the township of Marrawah, Tasmania, Australia. The station site is located on the summit of a hill, in an area of swamp and sand. The summit of the hill is devoid of any plant life, except for short and high grass, and some shrub. Ann Bay, and a beach bordering the water, is visible from the station. The terrain between the station and beach is hilly, and covered with high grass and scrub. Domestic cattle wander around this area.

ACCESS: From the township of Smithton, travel west for 35 kilometers to the Redpa turnoff. Travel 2 kilometers to a "T" junction, and turn left. Turn right onto a gravel road, 8 kilometers past the "T" junction. Cross a cattle grid at 11.3 kilometers. Continue on this gravel and sand track, and turn hard left at 16.2 kilometers, onto a track leading to a gate in a fence. Go through this gate and follow the track. At 19.5 kilometers, you will be at the base of the hill leading to the station.

The track to the top of the hill is steep, and should be attempted only in a four-wheel drive vehicle. Be VERY careful driving on this track. In the morning and evening, the hill is covered in a heavy dew, making the track very slippery. It is best to wait until the sun has dried the track and hill before attempting the climb. Go up this track in low-low 2nd gear, and come down the hill in low-low 1st gear. During periods of rains, this station site is not accessible by vehicle. A helicopter would have to be utilized to set the station.

MARKER: The station marker consists of a brass mushroom, inscribed "ST 556", embedded in the center of a 12-inch square concrete block.

Four star stake bars, set in the concrete blocks, and protruding about 1 inch above ground level, are used as references.

STATION: MT. CAMERON WEST (continued)

GENERAL: Labor, fuel, oil, drinking water, and a limited food supply can be obtained in Marrawah. Mail and phone service can be obtained in Marrawah. Food and camping supplies should be obtained in Smithton, where a better selection is available. Rental cars and drivers can be obtained in Wynard from Transline, which is also the Shell Service Station. The company's address is 13 Bass Highway East, Wynyard, Tasmania 7325; telephone 422240. Vehicles can also be booked through Transline at Green Road, Dandenong, Victoria; telephone 7922900.

Strong winds, rain and cold weather are frequent at the station site. Star stakes for tents should be driven in deeply and firmly. Snakes and scorpions are predominate at this station during warm weather.

A 20-foot tower was erected at this station, the minimum tower height required to clear surrounding obstructions. Clear vista is from 150° to 060°. Star stakes, driven in firmly, were used to secure the tower.

The station property is owned by the Van Dieman Land Company. Permission to occupy the station was obtained from the owner of the company. The company's telephone number is listed in the local telephone book.

ELEVATION: 168 meters

SKETCH: See next page.

Coordinates of the station marker were obtained from a Lands Department, Tasmania, Division of National Mapping summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

Lat. 40°51'55"95 S N = 5,473,625 meters
Long. 144°42'28"75 E E = 306,839 meters

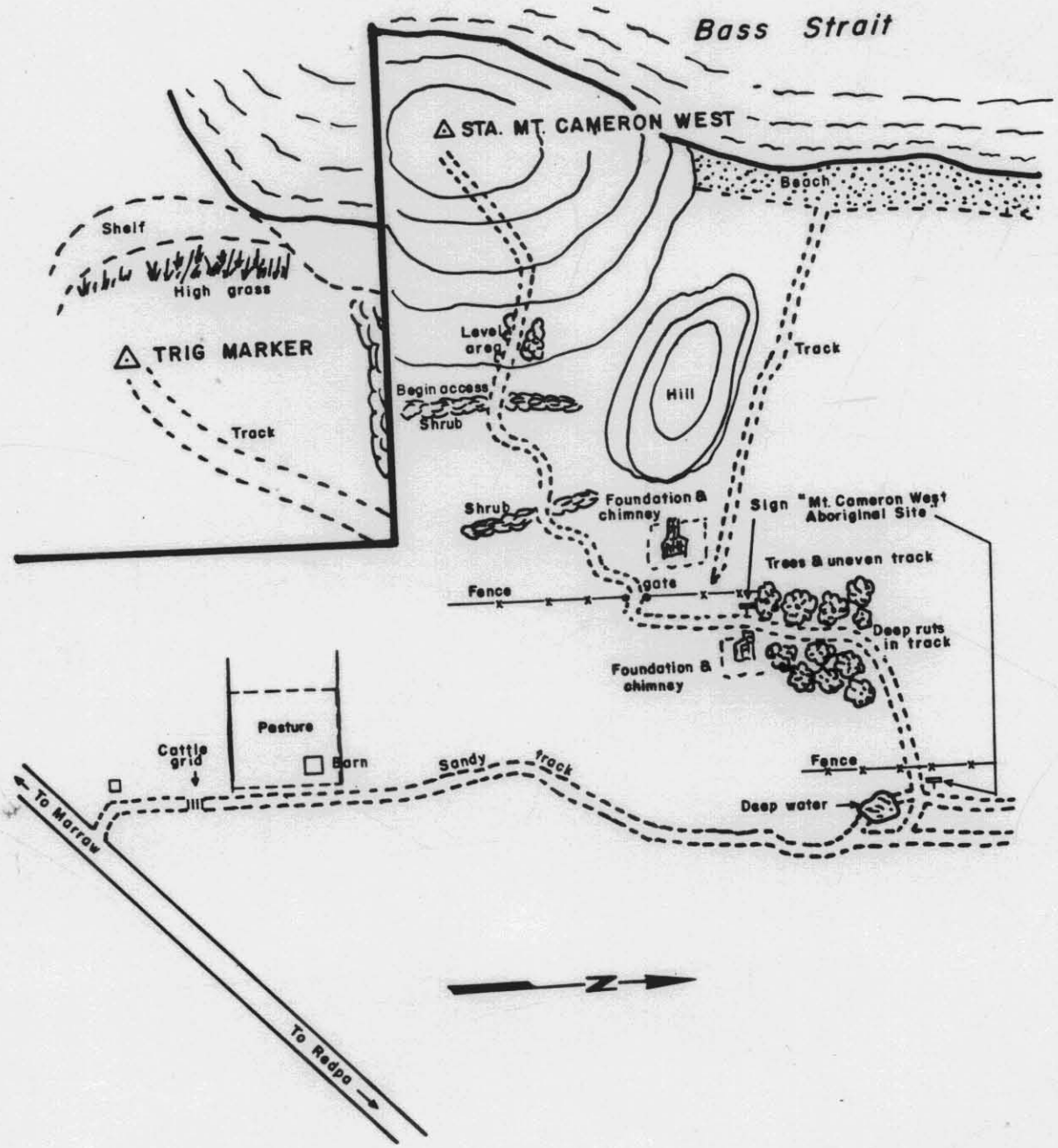
178088

STA. MT. CAMERON WEST——————AUSTRALIA

LAT. 40° 51' 55".95 S
LONG. 144° 42' 28".75 E
ELEV. 168 meters

N 5,473,625 meters
E 306,839 meters

UTM PROJECTION, AUST. NATIONAL SPHEROID
ZONE 55 C.M. 147° E
AUSTRALIAN GEODETIC DATUM



5 cm

5/82/1392

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

STATION: MT. CHAPPLE

LOCATED: Station Mt. Chapple is located in the Otway Ranges, approximately mid-way between the village of Ferguson and the small town of Lavers Hill, on the south coast of Victoria, Australia. There is approximately 15 kilometers of land path between the station and the closest point of the coastline bordering Bass Strait, located south of the site.

The station site is on the verge between the paved roadway and the boundary fence of the property of Mrs. Flower (refer to photo). The general surrounding area is undulating farmland, falling away gradually to the coast, from southeast to southwest of the station.

ACCESS: From Melbourne, take the Princes Highway (Highway 1) through Geelong (the highway is of a freeway condition from Melbourne to Geelong) to Colac, a distance of approximately 148 kilometers. Proceed into the town of Colac through the center of town, passing school traffic lights, continuing through the first intersection of traffic lights encountered. Pass the park on the right and go up a slight hill to a road junction (cross roads). At this intersection, there is the Austrar Hotel on the right, and the Bank of New South Wales on the right. The Commonwealth Bank will be on the opposite corner. There is a sign on the left, indicating 47 kilometers to Beech Forest, and 26 kilometers to Cellibrand. A hospital pointer is located underneath this sign. Turn left at this sign, and follow this winding (narrow in parts) sealed road for 41 kilometers, passing through Gellibrand River, to the end of the road at a "T" junction at the small village of Ferguson. A large galvanized iron shed is located on the right at this junction. Turn right, and follow this sealed road for 8 kilometers to the station site, located on the left hand side of the road. Approximately 300 meters before reaching the station, there is a road to the left. A fingerboard opposite the road reads "Wait Awhile Rd".

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

STATION: MT. CHAPPLE (continued)

Just short of the station, a white red-roofed house, with a number of pine trees (the old Wyelangta Post Office) will be seen. Just past the station site is a galvanized-roofed house (the Flower resident) almost surrounded by tall pine trees. The two houses described above are only approximately 100 meters apart.

A two-wheel drive vehicle is sufficient to reach this site year-round.

MARKER: The station marker consists of a standard survey plaque, inscribed "AUSTRALIAN SURVEY CORPS", set in a 100mm diameter concrete base. The base is covered by thick grass. Two 25mm diameter galvanized pipes, .75 meter apart and .60 meter high, are driven into the ground on the approximate east and west sides of the cement base. A steel quadripod, with a "ball" top .80 meter in diameter, is located over the trig marker. The quadripod is painted black, and has an overall height of approximately 4.2 meters. The station marker is located approximately 5 meters from the sealed road.

There are numerous reference markers in the area consisting of houses, trees, fences, etc., but the marker itself is unmistakable.

GENERAL: Food, fuel, oil, and most camping equipment, can be obtained in Colac. Fuel, oil, and supplementry food supplies are also available in the small town of Lavers Hill, approximately 7 kilometers from the station. Water is available from Mrs. Flower's residence, next to the station site, but should be kept to a minimum usage.

Labor could be difficult to obtain in the local area. During the station occupation of March and April 1982, no effort was made to obtain local labor. However, it is suggested that any

STATION: MT. CHAPPLE (continued)

required labor be obtained from Melbourne or Colac.

A 60-foot tower was erected at this site, the minimum height required to clear surrounding obstructions. Clear vista is from 120° to 260°. (NOTE: There is land path in all directions outside of the above bearings. A careful study of a topographical map of the area would be required to determine if this site would be suitable for operations to be conducted at other bearings.) Star stakes were used to secure the tower.

The station site is on property owned by the Victorian County Roads Board. The Shire Clerk, Otway Shire Council should be contacted before attempting to occupy the station. No rent was paid for the use of the site.

ELEVATION: 548 meters

SKETCH: See next page.

Coordinates of the station markers were obtained from a Department of Crown Lands and Survey, Victoria summary sheet.

UTM PROJECTION, AUSTRALIAN NATIONAL SPHEROID
ZONE 55, C.M. 147° EAST - - A.G.D.

Lat. 38°39'49".92 S N = 5,714,527 meters
Long. 143°27'01".07 E E = 191,131 meters

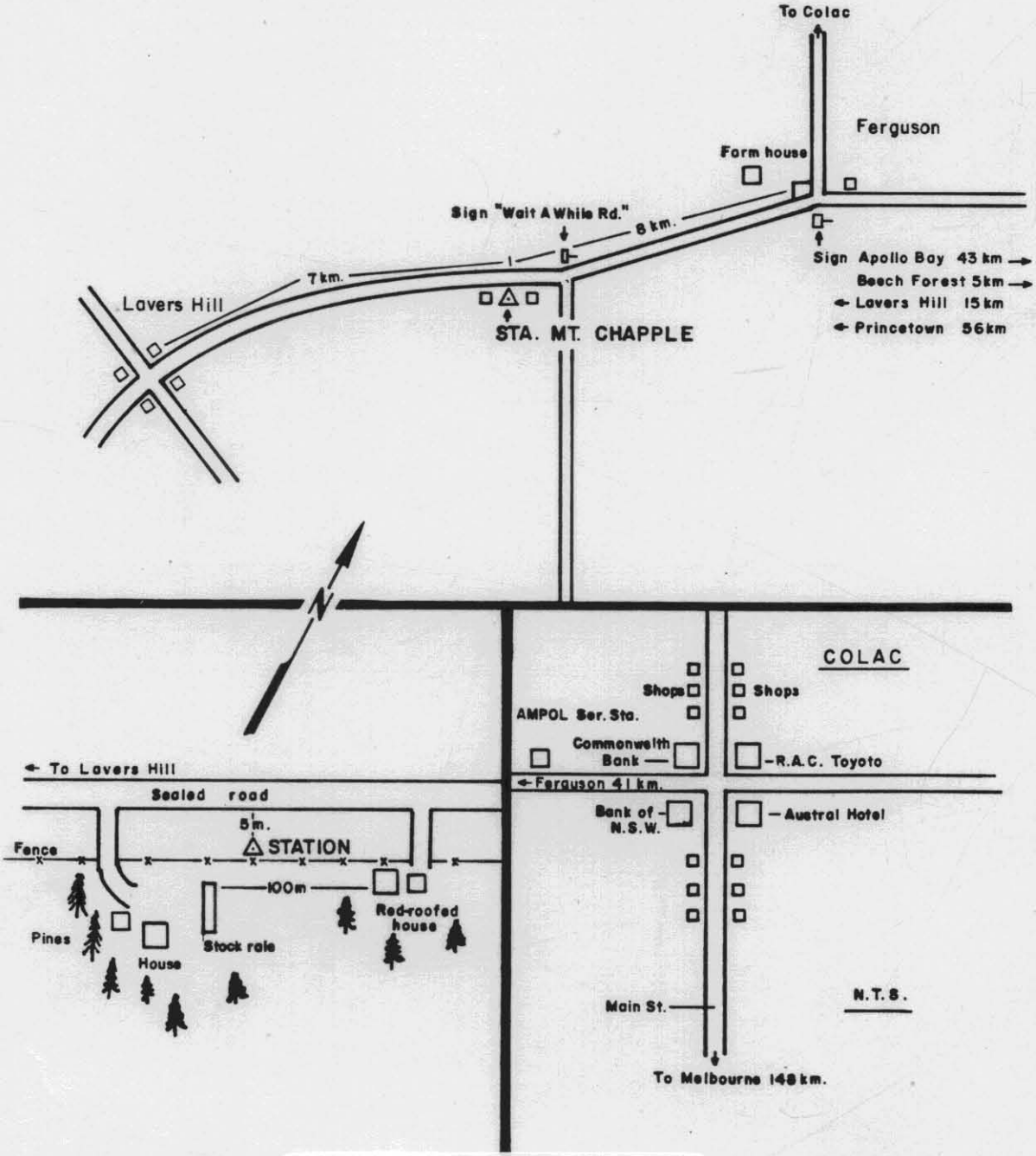
178092

STA. MT. CHAPPLE ——————— AUSTRALIA

LAT. 38°39'49."92 S
LONG. 143°27'01."07 E
ELEV. 548 meters

N 5,714,527 meters
E 191, 131 meters

UTM PROJECTION, AUST. NATIONAL SPHEROID
ZONE 55 C.M. 147° E
AUSTRALIAN GEODETIC DATUM

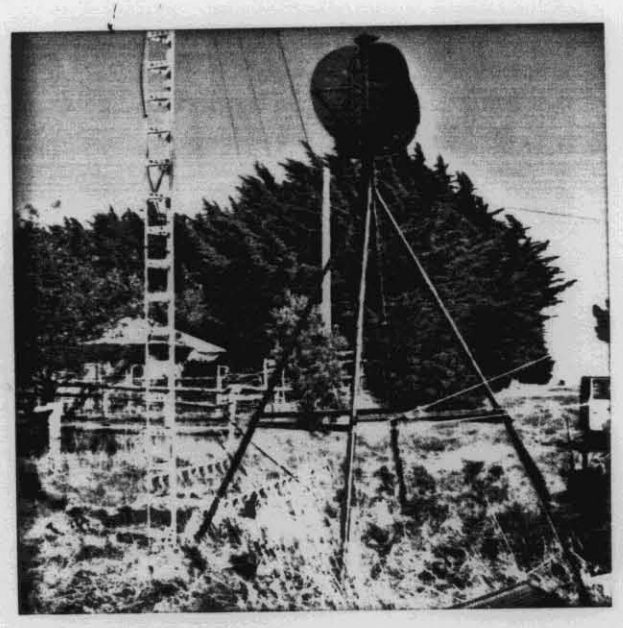


5/82/1392

5 cm

OFFSHORE NAVIGATION (AUSTRALIA) PTY. LTD.

178093

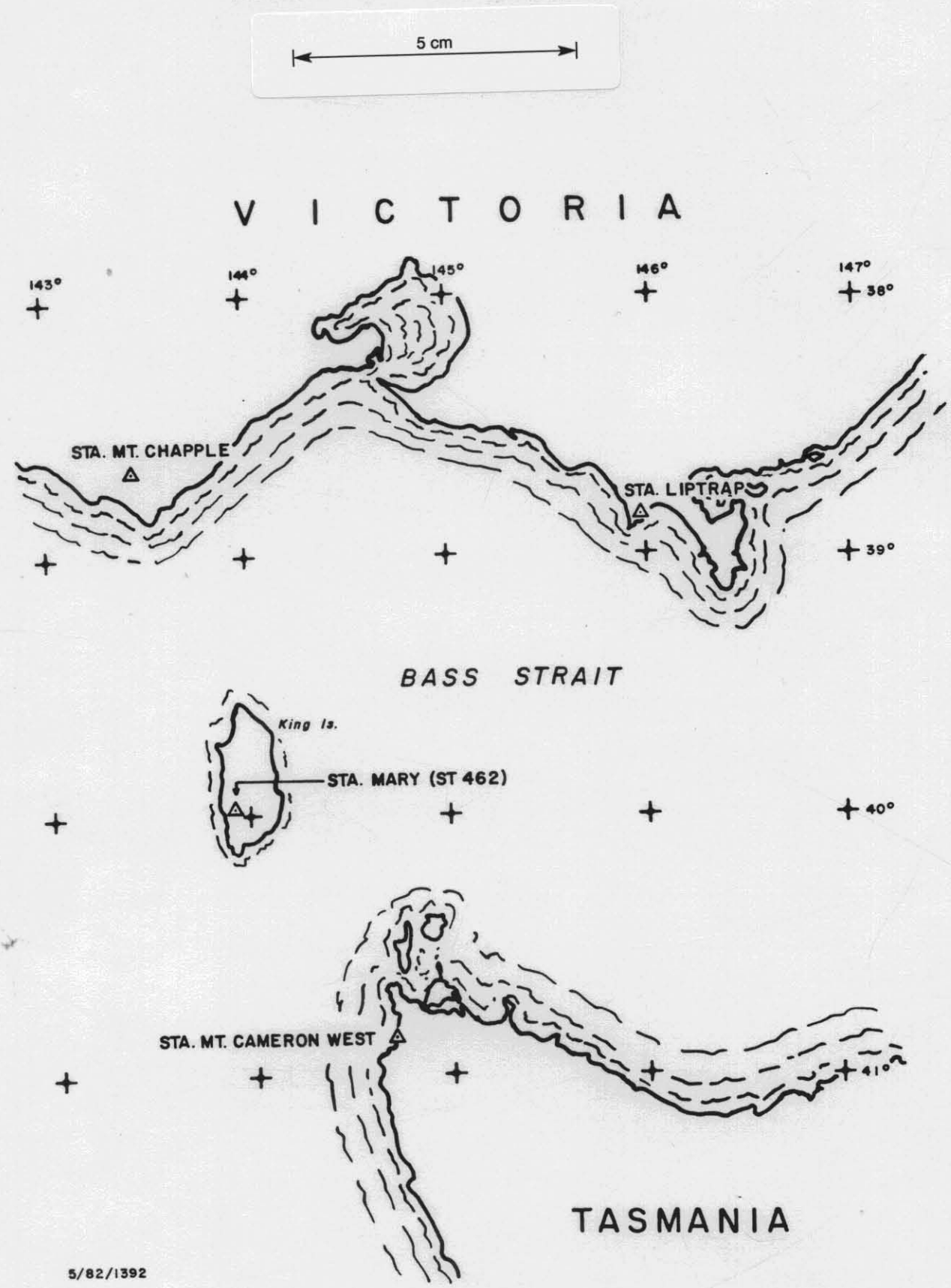


STATION MT. CHAPPLE
TRIG MARKER

178094

35

AREA OF OPERATIONS



OFFSHORE NAVIGATION
(AUSTRALIA) PTY. LTD.

178095

APPENDIX A

DAILY OPERATIONS LOGS

178096

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392. Date 31 MARCH 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHZ
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33½ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009	011	014 - 014	DUPLEX L.P.L

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429MHz	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
"MARY" KING Is.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON-W	R. OWENS	"	030	010	3	9221.

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	K. WEBBER	STANDING BY - LAYING CABLE
			PRIME NAV - SEISMIC SURVEY

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)
0000			

Brief Operations Log & Remarks

0000 - 2100 LAYING, BALLASTING CABLE
2111 - 2230 HEADING FOR LINE# 00M-82-8.
2240 - 2400 LINE# 0M082-8 DIR 217° FSP# 001 TO LSP# 495 COMPLETE

USING STATION "LIPTRAP", "CHAPPLE", "MARY"
3 way FIXES, CHAPPLE 034°·036 MARY 129°·470 LIPTRAP 235°·211 = 3m/RMS
" 045°·042 " 124°·746 " 242°·127 = 2m/RMS.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. HEAVERLO.

Form N-1A SEE INSTRUCTIONS ON REVERSE

178097

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 1ST APRIL 1992 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHZ
Country AUSTRALIA Area/ Prospect OTWAY BASIN Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009.	011	014 - 014	DUPLEX LPL

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY - KING Is.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON · W.	R. OWENS	"	030	010	3	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	K. WEBBER.	PRIME NAV. - SEISMIC SURVEY.

O/T Requested By — Total System - Hours Operation for Client 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 0145. LINE CHANGE
0213 - 0417 LINE# OMQ82-4 DIR 216° FSP# 0001 TO LSP# 0691 COMPLETE
0520 - 0753 LINE# " -2 DIR 037° FSP# 0001 TO LSP# 0810 COMPLETE
0955 - 1136 LINE# " -15 DIR 124° FSP# 0001 TO LSP 0585 COMPLETE
1255 - 1435 LINE# " -13 DIR 302° FSP# 0001 TO LSP# 0556 COMPLETE
1553 - 1737 LINE# " -11 DIR 123° FSP# 0001 TO LSP# 0570 COMPLETE
1839 - 2005 LINE# " -9 DIR 302° FSP# 0001 TO LSP# 0534 COMPLETE
2112 - 2338 LINE# " -7 DIR 124° FSP# 0001 TO LSP# 0880 COMPLETE
- 2400 LINE CHANGE - HEADING FOR LINE OMQ82-5.

NOTE: MT CAMERON WEST. IN RADIO + MAXIMAN STANDBY.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. HEAVERLO.

Form N-1A SEE INSTRUCTIONS ON REVERSE

178098

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392. Date 2nd April 1982. Boat M.V. LADY VILMA. Client Party Number 2993

Geophysical Company G.S.I. Oil Company B.S.O.G. Radio Frequency 7840 KHz

Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009	011	014 - 014	DUPLEX L.P.C.

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE. LIPTRAP	B. HASSETT	429 MHZ	024	013	1	9221
MT. CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
"MARY" KING IS.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON W.	R. OWENS	"	030	010	3	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	K. WEBBER	PRIME NAV. - SEISMIC SURVEY.

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0034 - 0242 OMQ82 - 5. DIR 304° FSP# 0001. TO LSP# 0716 COMPLETE
0355 - 0529. " - 3. DIR 126° FSP# 0001. TO LSP# 0540 COMPLETE
" - 3. LOST SIGNALS - SAT/SONAR SP# 0046 TO SP# 0101.
0650 - 0803 " - 1. DIR 312° FSP# 0001 TO LSP# 0391 COMPLETE
0912 ATTEMPTED LINE OMQ82 - 6 TERMINATED - SWELL NOISE
1220 - ATTEMPTED LINE " - 6 " SWELL NOISE
1445 - 2254. ATTEMPTED LINE " 14 BOTH DIRECTIONS SWELL NOISE
- 2400 ATTEMPTING LINE " 14 DIR 038° TERM. SWELL NOISE

Mobile Operators C. THIEMANN
T. HENNESSY

Party Chief D. HEAVERLO.

Form N-1A

SEE INSTRUCTIONS ON REVERSE

178099

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 3RD APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993.
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHz
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33⅓ MTRS.

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHz	009.	011	014 - 014	DUPLEX L.P.L

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429 MHz	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY - KING Is	J. LEAHMAN	"	130	056	2	9221
MT CAMERON - W.	R. OWENS	"	030	010	3.	9221.

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	K. WEBBER.	PRIME NAV - SEISMIC SURVEY.

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 0340 ATTEMPTING LINE # OMQ82-14 DIR 038° TERMINATED ON RUN IN - TOO MUCH NOISE ON CABLE.

0340 - 2400 ATTEMPTING LINES IN VARIOUS DIRECTIONS, ALL TERMINATED ON RUN IN DUE TO SWELL NOISE

Mobile Operators C. THIEMANN
T. HEWNESSY
Party Chief D. HEAVERLO.

Form N-1A SEE INSTRUCTIONS ON REVERSE

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

178100

Project Number 1392 Date 4 APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G Radio Frequency 7840 KHZ
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429MHZ	009	011	014 - 014	DUPLEX L.P.L

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY. KING Is.	J. LEHMAN	"	130	056	2	9221
MT CAMERON W.	R. OWENS	"	030	010	3	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	K. WEBBER.	PRIME NAVIGATIONAL AID

O/T Requested By — Total System - Hours Operation for Client 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 0520. ATTEMPTING LINE# OMQ82-14 BOTH DIRECTIONS 038° - 218° SWELL NOISE ON CABLE IS OVER THE SPECIFIED LIMIT.
0520 - 1500 WORKING ON CABLE (FIXED OPEN TRACES).
1700 - 2400 ATTEMPTED LINE# OMQ82-14 AGAIN, WITH SAME RESULTS.

Mobile Operators C. THIEMANN
T. HENNESSY.
Party Chief D. HEAVERLO

Form N-1A SEE INSTRUCTIONS ON REVERSE

178101

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 5 APRIL 1982 Boat M.V. LADY VILMA. Client Party Number 2993
Geophysical Company G.S.I. Oil Company B.S.O.G. Radio Frequency 7840 KHZ.
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33⅓ MTRS.

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009.	011	014 - 014	DUPEX L PL

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE. LIPTRAP	B. HASSETT.	429 MHZ	024	013	1	9221
MT. CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY. KING IS.	J. LEAHMAN	"	130	056	2	9221
MT. CAMERON. W.	R. OWENS.	"	030	010	3	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000-	2400	K. WEBBER.	PRIME NAV AID - .

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 1500 CIRCLING, DUE TO WEATHER. THE SWELL NOISE ON CABLE, IS OUTSIDE THE SPECIFIED LEVEL.

1500 - 2400 WORKING ON CABLE. - MAXIRAN STANDBY.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. HEAVERLO.

Form N-1A

SEE INSTRUCTIONS ON REVERSE

178102

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 6 APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G Radio Frequency 7840 KHZ
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 37½ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009.	011	014-014	DUPLEX L.P.L

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE NIPTRAP	B. HASSETT.	429 MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY-KING Is.	J. LEAMAN	"	130	056	2	9221
MT CAMERON	R. OWENS	"	030	010	3	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	1400	K. WEBBER.	PRIME NAV AID

O/T Requested By — Total System - Hours Operation for Client: 14 HOURS

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 1030 WORKING ON CABLE
1030 - 1345 HEADING FOR LINE # OMQ82-14 DIR 218°
TERMINATED. SWELL NOISE ON CABLE
EXCEEDING SPECIFIED LEVEL.

TERMINATED B.S.O.G PROSPECT. 1400.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. HEAVERLO

Form N-1A SEE INSTRUCTIONS ON REVERSE

178103

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 20 APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company PETRACON - BSOG Radio Frequency 7840 KHZ
Country AUSTRALIA Area/Prospect BASS STRAIT T.18.P Stepback Shot Point Interval 33½ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009	011	014 - 014	DUPLEX LPC

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429 MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY KING Is.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON W.	R. OWENS	"	030	010	5	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0100	2400	A. WELFARE	PRIME NAVIGATIONAL AID SEISMIC SURVEY.

O/T Requested By — Total System - Hours Operation for Client: 23 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0100 - HEADING FOR BASS STRAIT OIL + GAS PROSPECT T18P.
1309 CROSSED MT CAMERON W. MARY BASELINE - COMP = 119·210 Km
MAXIRAN RANGE = 119·246 Km
BASELINE READS + 36 METRES
2100 ARRIVED PROSPECT.
2121 - 2214 LINE# BB 82A-5 DIR 059° FSP# 0001 TO LSP# 0303 COMPLETE
2335 - 2400 LINE# BB 82A-3 DIR 234° FSP# 0001 TO M/SP# 0141 CONTINUING

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. RUSSELL

Form N-1A

SEE INSTRUCTIONS ON REVERSE

178104

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 21 APRIL 1982 Boat M-V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company BSOG - PETRACON Radio Frequency 7840 KHZ
Country AUSTRALIA Area/ Prospect BASS STRAIT T18P Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009	011	014 - 014	DUPLEX LPC

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429 MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY - KING Is.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON W.	R. OWENS	"	030	010	5	9221.

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	A. WELFARE.	PRIME NAVIGATIONAL AID
			SEISMIC SURVEY

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 0036 LINE# BB82A-3 DIR 234° FSP# 0141 TO SP# 0361 TERM - BAD NAV.
0155 - 0242 LINE# " -1 DIR 049° FSP# 0001 TO LSP# 0285 COMPLETE
0400 - 0428 LINE# " -3A DIR 234° FSP# 0202 TO LSP# 0362 COMPLETE
0700 - 0852 LINE# " -2 DIR 310° FSP# 0001 TO LSP# 0708 COMPLETE
1028 - 1119 LINE# " -7 DIR 058° BSP# 0001 TO SP# 0285 TERM - BAD NAV.
1130 - 1845 WORKING ON CABLE.
2043 - LINE# BB82A-7A DIR 238° FSP# TEAM C.M.S IDLE.
2050 - 2400 C.M.S MALFUNCTION

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. RUSSELL.

Form N-1A SEE INSTRUCTIONS ON REVERSE

178105

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 22 APRIL 1982 Boat M.V. LADY VILMA. Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHz
Country AUSTRALIA Area/Prospect BASS STRAIT-T18P Stepback Shot Point Interval 33 1/3 MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	009-006*	011	014-014	DUPLEX L.P.L

BASE STATIONS

Position	Operator	Frequency	Beacon	Amplifier	Code	Delay
CAPE LIPTRAP	B. HASSETT	429MHZ	024	013	1	9221
MT CHAPPLE	CAPT. RAMOS	"	028	007	4	9221
MARY. KING Is.	J. LEAHMAN	"	130	056	2	9221
MT CAMERON·W·	R. OWENS	"	030	010	5	9221

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	AL. WELFARE	PRIME NAVIGATIONAL AID
			SEISMIC SURVEY.

O/T Requested By — Total System · Hours Operation for Client 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks 0000-0230 C·M·S MALFUNCTION
0332-0439 LINE# BB82A-7B DIR 237° FSP# 0001 TO LSP# 0361 COMPLETE
0625-0704 LINE# " -9 DIR 049° FSP# 0001 TO LSP# 0220 COMPLETE
0830-0925 LINE# " -11 DIR 225° FSP# 0001 TO LSP# 0315 COMPLETE
* CHANGED BEACONS 009 TO 006 3WAH FIXES SAME WITH BOTH i & BETWEEN 3.85m
1048-1152 LINE# BB82A -13 DIR 049° FSP# 0001 TO LSP# 0330 COMPLETE
1319-1424 LINE# " -15 DIR 243° FSP# 0001 TO LSP# 0366 COMPLETE
1619-1809. LINE# " -4 DIR 131° FSP# 0001 TO LSP# 0665 COMPLETE
1939-2053 LINE# " -6 DIR 313° FSP# 0001 TO LSP# 0426 COMPLETE
2100-2400 HEADING FOR B·S·O·G - T14P AREA

P.T.O.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. RUSSELL

Form N-1A SEE INSTRUCTIONS ON REVERSE

178106

Operations Log & Remarks (con'd.)

BASELINE CAM LIFTRAP 1'H CAMERON.W. COMP = 245·144 Km.
14 · · · - 111·47 MEASURED = 248·182 Km.
151·621 · 111·150 MEASURED = 247·151 K..

BASELINE READING 33n. LONG.

THERE IS NO PRE PLOTS WITH CAMERON.W. RANGE.
WHEN NAVIGATING WITH CAMERON - MARY THE PRE PLOTTED RANGE FOR LIFTRAP IS OUT CONSISTANTLY 50-40 UNITS.
WHEN NAVIGATING MARY- LIFTRAP THE RANGE IS CONSISTANT WITH PRE PLOTTED LINE

*NOTE PREVIOUS BASELINE CAMERON.W. - MARY 36n. LONG.

INSTRUCTIONS

1. This form is to be filled out **completely** for each day that the crew, or any member thereof, is in a work status.
2. It is intended to provide a concise but complete log of one day's activity on an operating radiopositioning crew. Completeness is more important than brevity.
3. If more space is needed in order to make a complete report, use supplemental sheets.
4. In addition to providing an operational log, it also provides information required for billing purposes, particularly as it lists operating days, lost time, overtime, etc.
5. It has been specifically modified from previous forms to provide (under Operating Time) for a notation as to what the system is being used for during a specific period. This is particularly important (1) in case of overtime operations; (2) when the system is being used for other than the client's normal, day to day, operations; and (3) when the system is kept on the air but no production is being realized.
6. Under "Operating Time", the name of the client's representative requesting that the system be turned on or off or requesting overtime (O/T) operations should be noted. Notations such as "Client" or "Client Rep." are not sufficient.
7. Mobile operators should ascertain from their Party Chief if overtime charges are applicable on a particular operation (Party Chiefs are normally furnished with a copy of the applicable contract). If overtime is applicable to the operation, it should not be incurred without the client representative being fully aware of it and specifically authorizing it. In brief, if the system is not required, it should be turned off. If the client will not permit its being turned off to eliminate unnecessary overtime, that should be noted on this form, including all pertinent particulars.
8. The client, or his representative, always has the final decision as to whether the system should be turned on or off.

178107

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 23 APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHZ
Country AUSTRALIA Area/ Prospect BASS STRAIT. T14P Stepback Shot Point Interval 33 1/3 MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHz	006	011	014.	DUPLEX LPL

BASE STATIONS

Position	Operator	Frequency	Beacon	DELAY ~~Control Box~~	Amplifier	Code
CAPE LIPTRAP	B. HASSETT	429 MHz	024	9221	013	1
MT CHAPPLE	CAPT. RAMOS	"	028	9221	007	4
MARY KING Is.	J. LEAHMAN	"	130	9221	056	2
MT CAMERON. W	R. OWENS	"	030	9221	010	5

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2400	A. WELFARE	PRIME NAVIGATIONAL AID SEISMIC SURVEY.

O/T Requested By — Total System - Hours Operation for Client: 24 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks HEADING FOR T14P AREA FROM T18P.

0221 - 0336 LINE# BC82A-5 DIR 056° FSP# 0001 TO LSP# 0375 COMP.
0527 - 0630 LINE# " -3 DIR 237° FSP# 0001 TO LSP# 0362 COMP.
0740 - 0844 LINE# " -1 DIR 057° FSP# 0001 TO LSP# 0359 COMP.
*1024 - 1219 LINE# " -2 DIR 312° FSP# 0001 TO LSP# 0657 COMP.
1326 - 1741 LINE# " -7 DIR 030° FSP# 0001 TO LSP# 0796 COMP.
* COMPLETED LINE#2 ON SAT/SONAR FROM SP# 500.

1800 - 2400 HEADING FOR B.S.O.G PROSPECT - P16.

CROSSING BASELINE ON THE WAY TO P16 - T17P.

P.T.O

Mobile Operators C. THIEMANN
T. HENNESSY. Party Chief D. RUSSELL

Form N-1A SEE INSTRUCTIONS ON REVERSE

178108

Operations Log & Remarks (con'd.)

CAMERON W + LIPTRAP BASELINE COMPUTED = 248 · 149
164 · 339 + 083 · 848 + 38 mtrs MEASURED = 248 · 187
165 · 340 + 082 · 845 + 36 m. MEASURED = 248 · 185
166 · 346 + 081 · 846 = +43 m. MEASURED = 248 · 192

SIGNALS JUMPING ± 20 METRES
INTERROGATOR # 006.

INSTRUCTIONS

1. This form is to be filled out **completely** for each day that the crew, or any member thereof, is in a work status.
2. It is intended to provide a concise but complete log of one day's activity on an operating radiopositioning crew. Completeness is more important than brevity.
3. If more space is needed in order to make a complete report, use supplemental sheets.
4. In addition to providing an operational log, it also provides information required for billing purposes, particularly as it lists operating days, lost time, overtime, etc.
5. It has been specifically modified from previous forms to provide (under Operating Time) for a notation as to what the system is being used for during a specific period. This is particularly important (1) in case of overtime operations; (2) when the system is being used for other than the client's normal, day to day, operations; and (3) when the system is kept on the air but no production is being realized.
6. Under "Operating Time", the name of the client's representative requesting that the system be turned on or off or requesting overtime (O/T) operations should be noted. Notations such as "Client" or "Client Rep." are not sufficient.
7. Mobile operators should ascertain from their Party Chief if overtime charges are applicable on a particular operation (Party Chiefs are normally furnished with a copy of the applicable contract). If overtime is applicable to the operation, it should not be incurred without the client representative being fully aware of it and specifically authorizing it. In brief, if the system is not required, it should be turned off. If the client will not permit its being turned off to eliminate unnecessary overtime, that should be noted on this form, including all pertinent particulars.
8. The client, or his representative, always has the final decision as to whether the system should be turned on or off.

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

178109

Project Number 1392 Date 24 APRIL 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHz
Country AUSTRALIA Area/Prospect BASS STRAIT P16. Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHz	006 - 009	011	014	DUPLEX LPL

BASE STATIONS — DELAY

Position	Operator	Frequency	Beacon	~~Control Box~~	Amplifier	Code
CAPE LIPTRAP	B. HASSETT	429mHz	024	~~2~~9221	013	1
MT CHAPPLE	CAPT. RAMOS	"	028	9221	007	4
MARY KING Is.	J. LEAHMAN	"	130	9221	056	2
MT CAMERON-W	R. OWENS	"	030	9221	010	5

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	2130	A. WELFARE	PRIME NAVIGATIONAL AID

O/T Requested By — Total System - Hours Operation for Client 21½ HOURS

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000-0410 CROSSING BASELINES ON WAY TO PROSPECT P16.
MARY + LIPTRAP BASELINE COMPUTED = 215.586
+20m. LONG { WITH INTERROGATOR # 006 MEASURED = 215.604
" " " " = 215.605
-2m. SHORT { WITH INTERROGATOR # 009 " 215.584
" " " " 215.584
" " " " 215.584
MARY + MT CHAPPLE BASELINE COMPUTED = 151.177
+9m LONG { 053.492 + 097.694 MEASURED = 151.186
WITH INTERROGATOR # 006
2127 TEAM RUN IN TO LINE # OM082-16 EXCESSIVE SWELL NOISE
HEADING FOR B.M.R. PROSPECT.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. RUSSELL

Form N-1A SEE INSTRUCTIONS ON REVERSE

178110

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 2 MAY 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHz
Country AUSTRALIA Area/Prospect OTWAY BASIN Stepback Shot Point Interval 33½ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	006	011	014	DUPLEX LPL

BASE STATIONS

Position	Operator	Frequency	Beacon	DELAY ~~Control Box~~	Amplifier	Code
CAPE LIPTRAP	B. HASSETT.	429 MHZ	024	9221	013	1
MT CHAPPLE	CAPT. RAMOS	"	028	9221	007	4
MARY-KINGS Is	J. LEAHMAN	"	130	9221	056	2

OPERATING TIME

Time On	Time Off	Requested By	System Used For
1000	2400	A. WELFARE	PRIME NAVIGATION AID - SEISMIC SURVEY

O/T Requested By — Total System - Hours Operation for Client: 14 HOURS.

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

1000 HEADING FOR OTWAY BASIN - "P16" LINE# OM082-14.
1416-1651 LINE# OM082-14 DIR 218° FSP# 0001 TO LSP# 0781
1825-1929 LINE# OM082-16 DIR 038° FSP# 0001 TO LSP# 0360
2111-2255 LINE# OM082-12 DIR 217° FSP# 0001 TO LSP# 0585
2340-2400 SHIPS POWER FAILED - HEADING FOR LINE# OM082-10.

Mobile Operators C. THIEMANN
T. HENNESSY
Party Chief D. RUSSELL

Form N-1A

SEE INSTRUCTIONS ON REVERSE

178111

OFFSHORE NAVIGATION INC.
MAXIRAN DAILY OPERATIONS LOG

Project Number 1392 Date 3RD MAY 1982 Boat M.V. LADY VILMA Client Party Number 2993
Geophysical Company G.S.I Oil Company B.S.O.G. Radio Frequency 7840 KHZ
Country AUSTRALIA Area/ Prospect OTWAY BASIN P16 Stepback Shot Point Interval 33⅓ MTRS

Mobile Station	FREQUENCY	INTERROGATOR	MONITOR	AMPLIFIER	ANTENNA SYSTEM
	429 MHZ	006	011	014	DUPLEX LPL

BASE STATIONS

Position	Operator	Frequency	Beacon	DELAY ~~Control Box~~	Amplifier	Code
CAPE LIPTRAP	B. HASSETT.	429 MHZ	024	9221	013	1
MT CHAPPLE	CAPT. RAMOS.	"	028	9221	007	4
MARY KING Is.	J. LEAHMAN	"	130	9221	056	2

OPERATING TIME

Time On	Time Off	Requested By	System Used For
0000	1330	A. WELFARE	PRIME NAVIGATION AID — SEISMIC SURVEY

O/T Requested By — Total System - Hours Operation for Client: 13½ HOURS

LOST TIME

From	To	Hours Lost	Reason(s)

Brief Operations Log & Remarks

0000 - 0200 HEADING FOR LINE# OMQ82-10
0225 TERMINATED LINE# 10 - GYRO OUT AFTER POWER FAILED.
0434 - 0613 LINE# OMQ82-10 DIR 037° FSP# 0001 TO LSP# 0550 COMPLETE.
0736 - 0908 LINE# OMQ82-6 DIR 217° FSP# 0001 TO LSP# 0526 COMPLETE

B.S.O.G OTWAY BASIN P16 PROSPECT COMPLETED.

1015 - 1215 PULLING CABLE - CABLE ON BOARD.
1330 MAXIRAN SECURED.
2245 ARRIVED STONY PT. - WESTERNPORT BAY.

Mobile Operators C. THIEMANN
T. HENNESSY Party Chief D. RUSSELL

Form N-1A SEE INSTRUCTIONS ON REVERSE

178112

APPENDIX B

THE MAXIRAN RADIOPOSITIONING SYSTEM

I. THE MAXIRAN RADIOPOSITIONING SYSTEM

The Maxiran Radiopositioning System is a precision electronic ranging system, capable of both manual and automatic tracking of range. It is especially useful for measuring distances across bodies of water.

The use of the Maxiran requires three or more electronic installations. For the purposes of this discussion, one of these installations is assumed to be aboard a ship (see Figure 1). This installation consists of the Maxiran Monitor and Interrogator. The other installations are located onshore. Each of these installations consist of a Maxiran Beacon and a Control Box. There are two or more of the Beacon Control Box installations situated at appropriate locations onshore.

In operation, the Monitor/Interrogator installation transmits a radio signal (containing a Beacon-Select code which addresses a selected Beacon) which is picked up by all of the Beacon/Control Box installations. Each Beacon decodes the received signal and decides whether the Beacon-Select code transmitted corresponds to that Beacon. If the Beacon-Select code is correct for a

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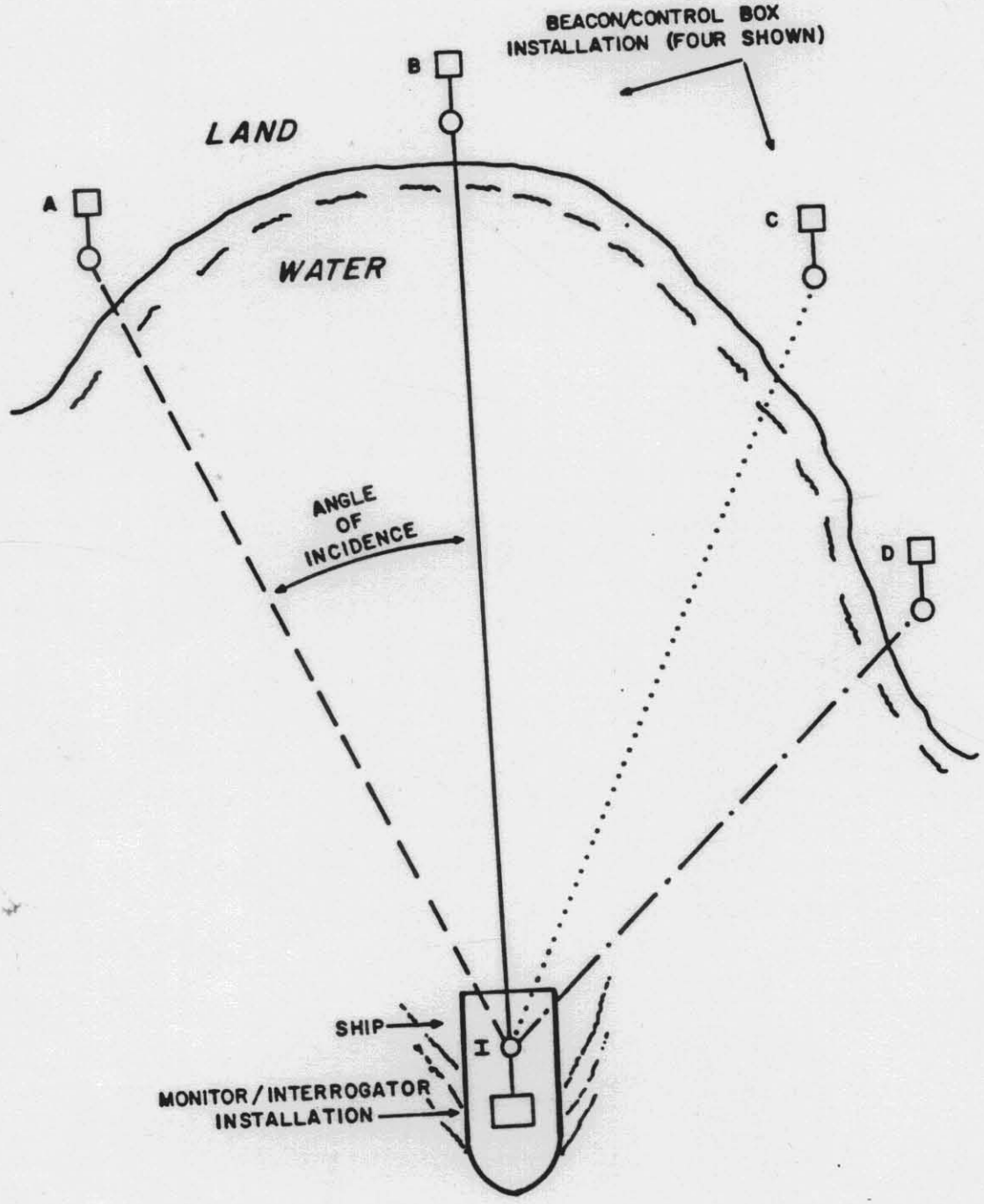
FIGURE-1. TYPICAL MAXIRAN SYSTEM



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(AUSTRALIA) PTY. LTD.

178114

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

Beacon, it responds by transmitting a radio signal reply. The Monitor measures the amount of time elapsed between the Interrogator's transmission and the received reply sent by the Beacon. Since, for all practical purposes, radio signals travel at a known speed, the time elapsed between transmission and response is a measure of the distance the radio signal travelled. The elapsed time is converted by the Monitor into distance and then displayed. Knowing the location of the land stations and the current distance from the ship to each of them, the position of the ship can be readily calculated.

For the purposes of this discussion, let us first assume that only two Beacons are being utilized. They are the Beacons marked "A" and "B" in Figure 1. Since the distance from Beacon "A" to the Interrogator (call it distance A1), and the distance from Beacon "B" to the Interrogator (call it distance B1) are now known (these distances are the distances displayed on the Monitor front panel), we can use some geometry to calculate the position of the ship with reference to Beacons "A" and "B".

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I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

As illustrated in Figure 2, the distances of A1 and B1 define two intersecting circles, one with a radius of length A1 centered about Beacon "A", the other with radius of length B1 centered about Beacon "B". The two circles intersect at two points (marked I and I' in Figure 2). Obviously, the ship can only be located at one of the points. Since point I' happens to be located on land, we can safely assume that the ship is located at Point I.

There is always some uncertainty associated with the exact measurements of the Beacons. This is illustrated in Figure 3. Figure 3 illustrates an enlarged view of the intersection of the circles shown in Figure 2. If the tolerance of the measurements of Beacon "B" is plus-or-minus 5 meters, then the two solid lines in Figure 3 are 10 meters apart. The tolerance of the measurements of Beacon "A" should be the same as that of Beacon "B", but this is not always the case due to differences in geographical location. Under the above conditions, we only know that the ship is located somewhere in the shaded area of Figure 3.

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(AUSTRALIA) PTY. LTD.

FIGURE-2. SYSTEM WITH TWO BEACONS

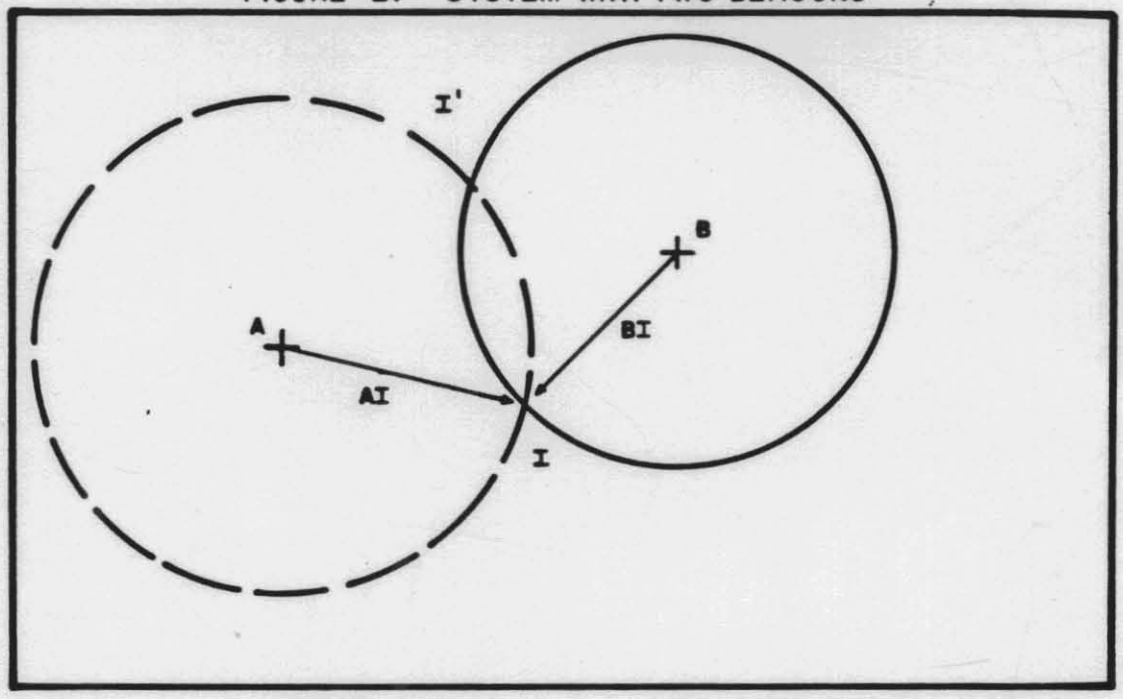
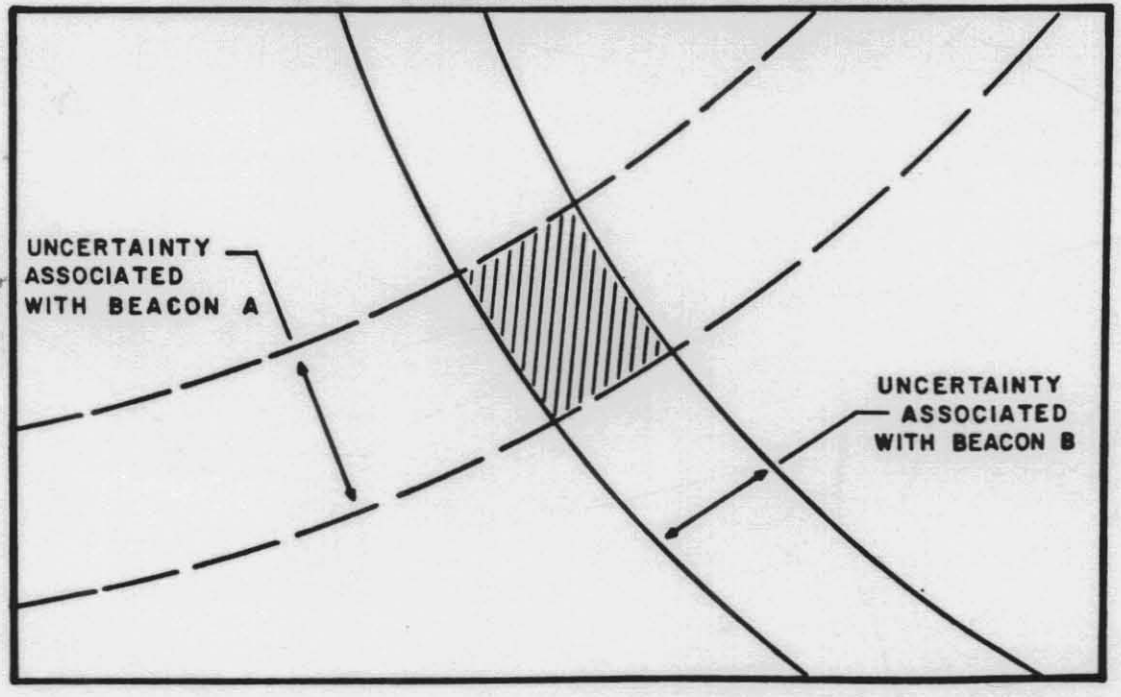


FIGURE-3. UNCERTAINTY WITH TWO BEACONS



178117

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

For the purposes of the following discussion, it is assumed that there are now three Beacons utilized. Now three circles are defined, instead of the two from the discussion above. The third distance, from Beacon "C" to the Interrogator (call it distance Cl), defines a circle of radius length CI centered about Beacon "C". The new situation is illustrated in Figure 4. Notice that with the three circles, there is only one location where all three circles can intersect. This eliminates the ambiguity associated with using only two Beacons. Now there is no I' to worry about. An additional advantage of using three Beacons is illustrated in Figure 5. Now the area of uncertainty has been reduced even though the tolerance of Beacon "C"'s measurement isn't any better than that of the other Beacons.

As the ship moves along, one or more of the Beacons may become unusable for various reasons; out of range, too small or too great an operating angle, etc. If additional Beacons are situated on shore, they may be interrogated, as desired, to greatly expand the range and usability of the system.

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FIGURE-4. SYSTEM WITH THREE BEACONS

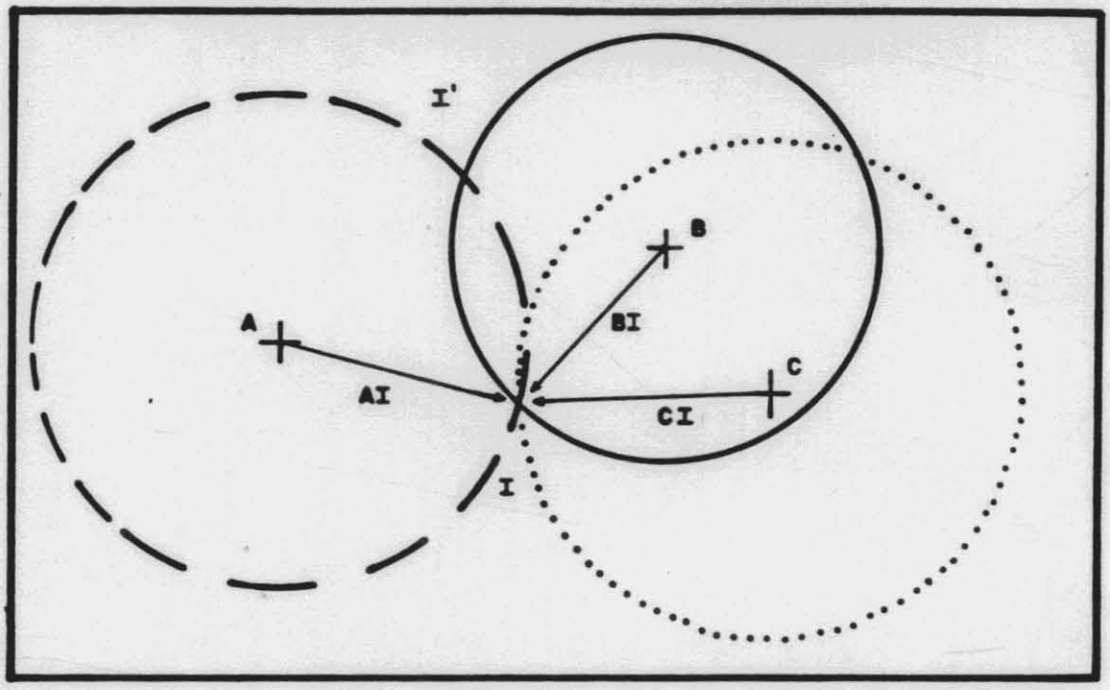
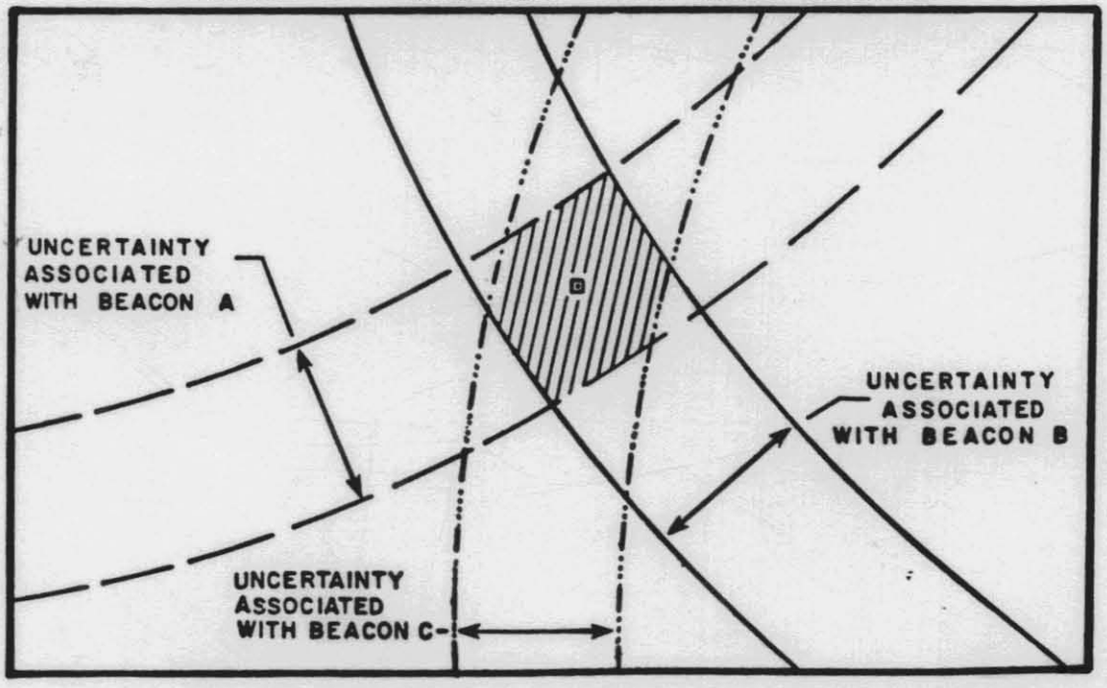


FIGURE-5. UNCERTAINTY WITH THREE BEACONS



178119

I. THE MAXIRAN RADIOPOSITIONING SYSTEM (continued)

As many as three different Beacons may be selected at one time by the proper setting of the Monitor's Beacon-Select switches.

OFFSHORE NAVIGATION
(AUSTRALIA) PTY. LTD.

T/18P Part 9

178120

TPR OR-170 Vol 3

Part 9.

T/18P

D of M	A.O.	C.G.	E.O.	D.S.M.E
				Registrar
Received / Answered	19 OCT 1982			E & IL
DEPT. OF MINES REF. No. 8590/82				

DATA PROCESSING REPORT

SURVEY:- BASS BASIN

T 18P

COMPANY:- BASS STRAIT OIL, GAS N.L.

COMPANY ADDRESS:- 17,QUEENSBRIDGE STR.,
S.MELBOURNE.

BY

GEOPHYSICAL SERVICE INTERNATIONAL
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PARTY 6860

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SECTION I.

INTRODUCTION

A seismic reflection survey was conducted by the M/V Lady Vilma in the Bass Basin off the South coast of Victoria Australia (see Plate I) between 20th April and 8th May.

The survey covered 146 KM using the following shooting parameters:-

- Streamer configuration	- 3200m cable with 96 groups equally spaced.
- Group length	- 33.3m (20 hydrophones at 1.67 m)
- Shot interval	- 33.3m (48 fold)
- Record length	- 5 secs
- Sample period	- 2 ms
- Cable depth	- 13 m average
- Filter settings	- High cut and slope 128hz @ 72db/oct - Low cut and slope 8 hz @ 18db/oct
- Navigation	- Maxiran by O.N.I. Geonav by GSI
- Airguns	- 4075 cu.in. operating at 2000 p.s.i. (-51.2ms delay)
- Recording	- DFS V, 9track, 96tr, 127 chnl,SEG B
- Shotpoints	- Annotated at source position

Processing was carried out in G.S.I.'s Sydney office on an IBM computer.

SECTION II

EXPERIMENTAL WORK

Field data was received in May 1982 soon after which analytical work commenced. The standard suite of tests as listed below were conducted on Line BB82A-4, SP Range 310-410

PREPROCESSING TESTS:

- True Amplitude Recovery Test on 2 field records with 5 recovery rates of Alpha - 3,4,5,6,7db/sec with t2 at 3.5 secs.

- F-K noise analysis on one field record:-
  a) TAR only applied 6.0db/sec, T2 3.5secs.
  b) TAR + VEF with +ve cut of 7ms/trace -ve cut of 4ms/trace.
  c) " " 9 4
  d) " " 11 4
  e) " " 13 4
  f) " " 15 4

- F-K noise analysis on one field record
  Tar + pre deconvolution ramp as below

Offset(m)	419	449	1979	3179
Start time(ms)	0	350	1650	2450

- A velocity analysis was run to determine the stacking velocity for the following tests.

The central function was supplied by the client as

Velocity(m/sec)	Time(secs)
1500	0
1500	100
2050	700
2300	1600
4300	5000

- Deconvolution pre stack test Sp 310-410
  Comparison of stacked sections produced with the following:-
  a) Designature (V4) standard marine wavelet.
  b) Whitening Deconvolution 2 filters 236 ms operators
  c) Gapped Deconvolution 2 filters 216 ms op + 24 ms gap.
  d) Gapped Deconvolution 2 filters 176 ms op + 64 ms gap.

- Cable Configuration test - Stacked sections were produced using the following trace configurations:-
  a) 48 trace 48 fold using 2:1 mix (no VEF)
  b) 48 trace 48 fold using alternate traces + VEF (+11,-4ms/tr)
  Here the Vef is performed on the 96 traces for maximum effect before decimating to 48 traces.
  c) 96 trace 48 fold + VEF (+11,-4ms/tr)
  Designature was used on all these versions

- Demult Test comparing stacked data with and without its application.

POST PROCESSING TESTS

- Post Stack Deconvolution comparison over 100 Depthpoints between
  - a) No deconvolution
  - b) Gapped deconvolution 2 filters, length 216 ms + 24ms gap
  - c) Gapped deconvolution 2 filters, length 208 ms + 32ms gap
  - d) Gapped deconvolution 2 filters, length 180 ms + 60ms gap
  - e) Gapped deconvolution 1 filters, length 216 ms + 24ms gap
  - f) Gapped deconvolution 3 filters, length 216 ms + 24ms gap

- Filter Analyses - SP 310-410

Passband (hz)	Passband (hz)
	30-60
out-out	35-70
10 -60	40-80
0 -10	45-90
10 -20	50-100
15 -30	55-110
20 -40	60-120
25 -50	20-60

- Scaling test with 3 sets of parameters SP 310-410
  - a) 200 ms gates start time 200ms
  - b) 500 ms gates "
  - c) 1000 ms gates "
  - d) 1500 ms gates "
  - e) 2000 ms gates "
  - f) 4700 ms gates "

SECTION III

PRODUCTION PROCESSING

RESAMPLE Minimum phase resample 2 to 4 ms.

TAR Inelastic attenuation parameter alpha = 7 db/sec (exponential factor)
T2 (cut off time for alpha) = 5.0 secs.

STATIC - 51.2 ms airgun delay
+ 13 ms shot and streamer static correction.

PDR

Offset(m)	496	529	1896	3495
Ramp length(ms)	0	500	1900	3000

DSG V4 Standard Marine Wavelet

NTG A near trace gather section was produced at this stage as an internal QC and also to assist in the velocity interpretation stage.

VELSCANS 5 Depthpoint Velocity Analyses to determine the stacking function (1 per 3.0km) using the following parameters:-

stack ramp -

Offset(m)	400	467	1670	3479
No.Traces	2	3	21	48
Start Time	0	500	1800	3400

Filter

Passband(hz)	10-60
Time (Secs)	0-5.0

Central Function for velocity fan

Velocity(m/s)	1480	2000	2500	3700	4800
Time (secs)	80	400	1700	2500	5000

Scan Gates	Time(sec)	Smash(dps)	+/-dip(ms/tr)
	0-400	3	3
	400-800	3	4
	800-1200	5	6
	1200-1800	5	8
	1800-2500	5	8
	2500-3500	5	8
	3500-5000	5	8

NMO — Normal Moveout application using stacking functions derived from velscans above

RAMP — First break suppression application

Ramp on

Time (secs.)	Trace	Offset (metres)
0	2	394
0.5	3	464
1.8	21	1670
3.4	48	3479

TVD — Deconvolution Post Stack - gapped, non-whitening

Start time of the first gate = 200 msec

Maximum time of the last gate =4900 msec

Number of gates with 25% overlap = 2

Operator = 212 ms

+32 ms gap

TVF Time Variant Filtering

All lines were filtered with the following passband

Time(secs)	Passband(hz)
0.0	15-65
0.8	15-60
1.5	12-50
2.2	10-45
3.0	10-40
5.0	10-35

TVS Time Variant Scaling

The lines were scaled with 3 x 2000msec gates using 50% overlap, start time 200ms

MSTK All lines were migrated using Kirchoff's F-K wave equation migration - wide angle. Input was the raw stack data. The same TVD/TVF/TVS applied to the final stack traces were also applied post migration.

DISPLAY

Horiz. Scale	24 trace / inch	(1:101590)
Vert. Scale	5.0 in/ sec	
Mode	WTVAR	10% Bias

TAPES Field tapes and raw stack tapes were shipped Geomagnetics Sydney.

All paper data from field operations was shipped to PETRECON in Hobart, Tasmania, during September 1982.

Respectfully submitted,

C. Wilkins

Cherry Wilkins

Processing Party Chief

APPENDIX A

TRUE AMPLITUDE RECOVERY (TAR)

The TAR process is applied to digital field records to produce output records on which relative amplitudes of reflections on each trace are approximately true and traces evenly modulated. This consists of removing the gain imposed on the field records by the DFS V binary Gain control system and correcting for inelastic attentuation and spherical divergence losses.

VELOCITY FILTERING (VEF)

Velocity filtering is a multichannel process. Multichannel filtering is a two-dimensional frequency-wavenumber filtering operation that can be used to discriminate against specified velocities on pre-stacked data or against specified dips on stacked data.

Velocity filtering processes transform the data from the space time (X-T) domain to the frequency-wavenumber (F-K, where K = reciprocal of wavelength) domain where the filter is applied. After filter application the process transforms back to the X-T domain for further conventional process applications.

The apparent velocity of noise must be adequately separated from the primary signal for the process to be effective. Examples of noise alignment that can be removed are hard bottom refraction, mud roll and cable jerk. These types of noise alignments have a velocity slower than primary signal or have a dip opposite from the primary.

A window of primary dip zones to keep is specified and dips outside this window are rejected.

A linear event in the X-T domain (implying constant velocity) appear as a linear event in the F-K domain where lines of constant velocity pass through the origin. Thus, a multitude of noise events, with the same velocity, at various times on the input record join on the F-K plane into a single event. In general seismic reflections (signal) have higher apparent velocities than noise propogating horizontally in a direct path from source to receiver; therefore, recorded signal appears in a different region of the F-K plane from the noise.

This provides the basis for signal-to-noise enhancement used in velocity filtering. The process is analogous to muting in X-T.

Aliasing both in the frequency and wavenumber axes can be predicted from the time sampling period and the spatial sampling (or group interval) of the input data. Spatial sampling determines, to a large extent, the effectiveness of the process. Velocity filtering attenuates some portions of aliased events. However, when aliased noise overlays signal, velocity filtering loses its discriminating power.

DESIGNATURE (DESIG 4*)

Designature is a generic name for processes which attempt to replace an arbitrary source wavelet convolved with the reflection sequence with a shorter wavelet of improved resolving capability.

DESIG 4 is the particular designature process in the current VELFILT program and provides an alternative to conventional pre-CDP stack deconvolution (TVD). DESIG 4 is a multichannel process, like VELFILT that can use the entire record to estimate the wavelet, whereas TVD is a single channel process that only uses a portion of a trace to design an operator. While TVD is time and offset-variant DESIG 4 is not time-variant.

DESIG 4 can better account for the source and receiver ghosts found in marine data than TVD can.

Once the signal-to-noise ratio of the primary events is improved by velocity filtering, designature is applied in the common source point domain. Designature estimates the source wavelet from the seismic traces and attempts to collapse it to a zero phase pulse.

The source domain is chosen since all traces originate from the same source.

PREDECONVOLUTION RAMP (PDR)

PDR is the process whereby first arrival unwanted noise at the front end of seismic records is removed. This is applied prior to deconvolution design.

TIME VARIANT DECONVOLUTION (TVD)

The purpose of TVD is to take reverberating series of wavelets and reduce them to the time domain spike and this implies normalising the frequency spectrum. At the same time TVD is desirable to collapse and stabilise wavelet shapes from broad or variable input wavelets.

TVD is accomplised by the application of one or more filters designed from individual data trace autocorrelation functions.

Gapped TVD is the process of deconvolution without total spectral whitening. This is opposed to Spike TVD which gives total spectral whitening. This means the frequency spectrum in Gapped deconvolution will show that the high frequency noise area is not amplified.

* Trademark of Texas Instrument Inc.

VELOCITY ANALYSIS- VELSCAN

As part of any velocity analysis routine, static corrections to compensate for shot and cable depth, and multiplexor delays are applied.

GSI's VELSCAN Velocity Module is a discrete Velocity Analysis mode making use of advanced picking logic to generate events as functions of time, amplitude, moveout and dip. The event picking proceeds in the following manner:

- NMO corrections corresponding to a series of moveout functions are applied to a set of depth point traces. For each moveout function, the NMO-corrected traces are stacked. The resulting traces consist of amplitudes as functions of time and moveout.
- Identical operations are applied to adjacent depth points, adding the dimension of space.
- Dip is applied and for each value of dip, the traces are stacked across depth points. The result is a set of amplitudes as functions of time, moveout and dip.
- An event is located by searching for an amplitude extremum in the time, moveout and dip domains. An extremum may be either a maximum or minimum; that is, both peaks and troughs are picked. The event attributes of time, amplitude, moveout and dip are assigned to the centre depth point.

NORMAL MOVEOUT CORRECTIONS (NMO)

Reflection arrival times at the surface, from a horizontal reflecting interface, increase with offset from seismic source in a predictable manner known as the normal moveout effect. NMO at a given location is a function of offset, depth to the reflector and the velocity of the medium between the reflector and the surface.

NMO corrections remove the NMO increase in reflection times with offset (or spread geometry) and reduce all reflection times to the value they would have if source and receiver were coincident.

NMO corrections involve some stretching of the data. This is greatest at early record times but decreases with increasing record time. In order to avoid gross distortion at early record time ramps are applied to zero out the early part of the traces where NMO is excessive and to phase in the NMO corrections gradually.

COMMON DEPTH POINT STACK (CDP)

The common depth-point stack is the summation of all the traces of a common depth point into one stacked output trace for each depth point. This summation is performed after the application of NMO and static corrections to each of the individual traces. If these corrections are appropriate then trace signals will reinforce whilst random noise will fail to reinforce. The improvement in signal-to-noise (S/N) ratio of a stacked trace compared to the input traces is theoretically equal to the square root of N, where N is the number of traces summed together. Thus, if the fold of stack is 48 fold, then the improvement is approximately 7.

In addition to improving the S/N ratio, stacking can also attenuate or suppress undesired reflection events such as multiple reflections. This is because an appropriately applied NMO correction will only partially correct multiple reflections so that they will not reinforce when summed but will suffer destructive interference to some degree.

In practice, the early live portion of the NMO output traces have more distortion than is acceptable. For this and possibly other reasons, a ramp function is applied to the input traces before summation. Each trace may have up to three ramps applied to it to accept or reject portions of the input trace as desired. Quite commonly short offset traces are rejected at depth to improve multiple attenuation.

To accommodate the varying summation, or fold, implicit in this ramping a recovery scaler is applied to normalise the energy output level to that of the full fold stack.

TIME VARIANT FILTERING (TVF)

Filtering is commonly applied in a time variant manner to take account of the higher frequency content of the shallow seismic signal and the lower frequency content at depth when rejecting unwanted frequencies, or noise.

By appropriate filter design, unwanted frequencies may be attenuated, or removed, the most common application is the band-pass filter which discriminates against the high and low frequency spectrum of the input trace where no significant signal energy is present.

TIME VARIANT SCALING (TVS)

Time Variant Scaling (TVS) produces amplitude equalisation in a time variant manner down the seismic trace as well as from trace to trace. Several time gates with variable overlap can be used to compute time variant scalers for each gate to raise all gates to the same energy level.

Scalers computed for each gate are applied at the gate centre, with linear interpolation between gate centres.

Gate amplitudes are measured for a set of continuous gates on each trace and scalers are computed for each gate to make the amplitude constant or proportional to the amplitudes. The scalers are applied in a continuously time-varying manner.

MSTACK

GSI F-K domain migration routine uses the kirchoff integral solution to the scalar wave equation and equates to the final solution of the downward continuation finite difference method. This method will migrate data correctly in the presence of a lateral velocity field. In the 'wide' angle mode it has a practical dip limit, approaching 90 degrees. On sections with events with 'true' structural dip of less than 20 degrees it is recommended to use the 'dip' limited option. This option helps to prevent excessive wave front noise on low S/N ratio data. The 'dip' limited option emulates finite difference migration in F-K space without the dispersive effect associated with the Z* term.

APPENDIX B : TAPE INVENTORY

PROSPECT: BSOG LENGTH IN SECONDS: 5.0 SAMPLE RATE: 4 MSEC

LINE NUMBER	SHOTPOINT RANGE	DEPTHPOINT RANGE	DATA TYPE	VSN NUMBER
BB82A-1	1 - 285	1001 - 1664	STKTRS	500308
BB82A-2	1 - 708	1001 - 2510	STKTRS	500308
BB82A-3	1 - 261	1001 - 1616	STKTRS	500308
BB82A-3A	202 - 362	1001 - 1416	STKTRS	500308
BB82A-4	1 - 665	1001 - 2424	STKTRS	500308
BB82A-5	1 - 303	1001 - 1700	STKTRS	500308
BB82A-6	1 - 426	1001 - 1946	STKTRS	500567
BB82A-7B	1 - 361	1001 - 1816	STKTRS	500567
BB82A-9	1 - 220	1001 - 1534	STKTRS	500567
BB82A-11	1 - 315	1001 - 1724	STKTRS	500567
BB82A-13	1 - 330	1001 - 1754	STKTRS	500567
BB82A-15	1 - 366	1001 - 1826	STKTRS	500567

LOCATION MAP

178137

TAKEN FROM:
AUSTRALIA
PETROLEUM EXPLORATION PERMITS"
1ST MAY 1982.

5 cm

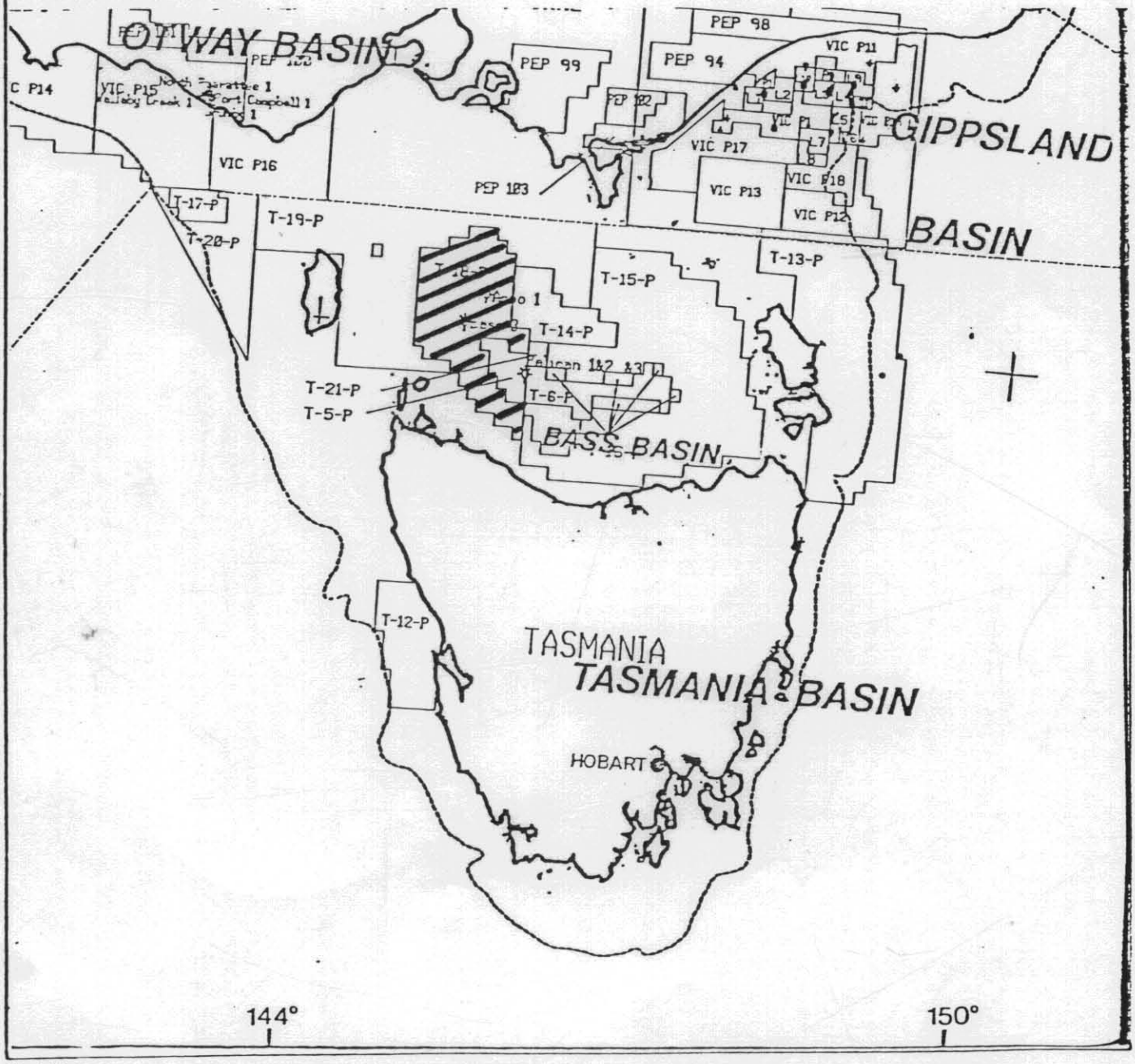

PLATE I

PROCESSING FLOW DIAGRAM - BB82

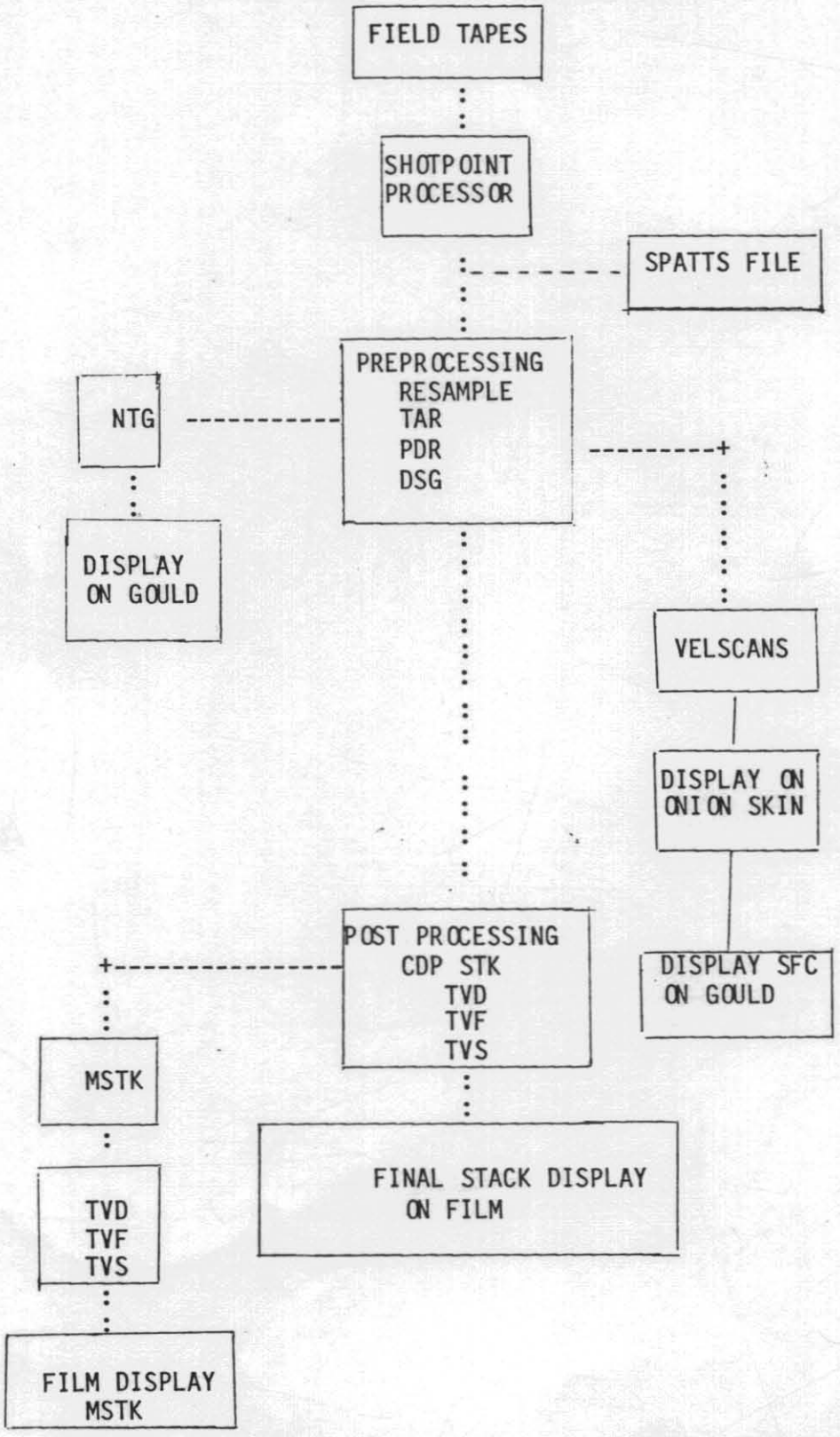

PLATE II

178139

RECORDING MEDIUM : DATA IS RECORDED ON A 9 TRACK, HALF INCH MAGNETIC TAPE AT DENSITY 1600 BPI

GROSS FORMAT: RECORDS ARE RECORDED IN THE FIXED BLOCKED FORMAT (FB). THE LOGICAL RECORD LENGTH IS 80 BYTES (LRECL = 80). THE BLOCK LENGTH IS 8000 BYTES (BLKSIZE = 8000). THE DATA IS NOT LABELED (LABEL=(1,NL))

DATA ORGANISATION: THE DATASET IS STARTED BY FOUR HEADER RECORDS, FORMATTED 10A8, CONTAINING:

1. NAME OF SURVEY, AREA LICENCE BLOCK NUMBER
2. CLIENT, CONTRACTOR, MONTH, YEAR
3. SOURCE, POSITIONING SYSTEM, OFFSET, INDICATION OF 24 HR. OPERATION
4. SPHEROID,PROJECTION, CENTRAL MERIDIAN OR STANDARD PARALLELS

EACH SHOTPOINT IS REPRESENTED BY AN EBCDIC CODED RECORD IN THE DATASET. THE FORMAT AND CONTENT OF EACH RECORD IS AS FOLLOWS:

COLUMNS	FORM	CONTENTS
1-16	4A4	LINE NAME - LEFT JUSTIFIED
17-24	2A4	SHOTPOINT NAME - RIGHT JUSTIFIED
25-34	I3,I2,F4.1,A1	LATITUDE - DEGREES,MINUTES,SECONDS WITH N OR S
35-44	I3,I2,F4.1,A1	LONGITUDE - DEGREES,MINUTES,SECONDS WITH E OR W
45-52	I8	MAP GRID EASTING
53-60	I8	MAP GRID NORTHING
61-65	I5	WATER DEPTH - IF AVAILABLE
66-68	I3	JULIAN DAY
69-74	3I2	TIME - HOURS,MINUTES,SECONDS
75-80	6A1	BLANK

178140

TOTAL OF 4401 TAPE RECORDS READ IN

4401 RECORDS WRITTEN ON OUTPUT TAPE

AREA: BASS STRAIT
CLIENT:BSOG CONTRACTOR: G.S.I.
POSITION: ENERGY SOURCE OFFSET: 60.7M
SPH:AUSTRALIAN PROJ:UTMS,CM:147EAST, UNITS:METRES,SCALEFACTOR:0.9996

178141

178142

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-1	1	40 19 48.7 S	145 25 33.6 E	366290	5534390	48	110	155532
BB82A-1	2	40 19 48.0 S	145 25 34.7 E	366316	5534411	48	110	155542
BB82A-1	3	40 19 47.3 S	145 25 35.8 E	366342	5534432	49	110	155552
BB82A-1	4	40 19 46.7 S	145 25 37.0 E	366368	5534453	48	110	1556 2
BB82A-1	5	40 19 46.0 S	145 25 38.1 E	366394	5534474	48	110	155612
BB82A-1	6	40 19 45.3 S	145 25 39.2 E	366420	5534495	48	110	155622
BB82A-1	7	40 19 44.7 S	145 25 40.3 E	366446	5534516	48	110	155632
BB82A-1	8	40 19 44.0 S	145 25 41.4 E	366472	5534537	48	110	155642
BB82A-1	9	40 19 43.3 S	145 25 42.5 E	366498	5534558	48	110	155652
BB82A-1	10	40 19 42.7 S	145 25 43.7 E	366525	5534579	48	110	1557 2
BB82A-1	11	40 19 42.0 S	145 25 44.8 E	366551	5534601	48	110	155712
BB82A-1	12	40 19 41.3 S	145 25 45.9 E	366577	5534622	48	110	155722
BB82A-1	13	40 19 40.6 S	145 25 47.1 E	366604	5534644	47	110	155732
BB82A-1	14	40 19 40.0 S	145 25 48.2 E	366630	5534665	48	110	155742
BB82A-1	15	40 19 39.3 S	145 25 49.3 E	366656	5534686	48	110	155752
BB82A-1	16	40 19 38.6 S	145 25 50.5 E	366683	5534708	47	110	1558 2
BB82A-1	17	40 19 37.9 S	145 25 51.6 E	366709	5534729	47	110	155812
BB82A-1	18	40 19 37.3 S	145 25 52.7 E	366735	5534750	48	110	155822
BB82A-1	19	40 19 36.6 S	145 25 53.9 E	366762	5534772	47	110	155832
BB82A-1	20	40 19 35.9 S	145 25 55.0 E	366788	5534793	47	110	155842
BB82A-1	21	40 19 35.2 S	145 25 56.2 E	366815	5534814	47	110	155852
BB82A-1	22	40 19 34.5 S	145 25 57.3 E	366841	5534836	47	110	1559 2
BB82A-1	23	40 19 33.9 S	145 25 58.4 E	366868	5534857	47	110	155912
BB82A-1	24	40 19 33.2 S	145 25 59.6 E	366894	5534878	47	110	155922
BB82A-1	25	40 19 32.5 S	145 26 00.7 E	366921	5534900	47	110	155932
BB82A-1	26	40 19 31.8 S	145 26 01.9 E	366948	5534921	48	110	155942
BB82A-1	27	40 19 31.2 S	145 26 03.0 E	366974	5534942	47	110	155952
BB82A-1	28	40 19 30.5 S	145 26 04.2 E	367001	5534964	47	110	16 0 2
BB82A-1	29	40 19 29.8 S	145 26 05.3 E	367028	5534985	48	110	16 012
BB82A-1	30	40 19 29.1 S	145 26 06.5 E	367055	5535006	47	110	16 022
BB82A-1	31	40 19 28.4 S	145 26 07.6 E	367081	5535028	47	110	16 032
BB82A-1	32	40 19 27.8 S	145 26 08.8 E	367108	5535049	48	110	16 042
BB82A-1	33	40 19 27.1 S	145 26 09.9 E	367135	5535070	47	110	16 052
BB82A-1	34	40 19 26.4 S	145 26 11.1 E	367162	5535091	48	110	16 1 2
BB82A-1	35	40 19 25.8 S	145 26 12.2 E	367189	5535112	48	110	16 112
BB82A-1	36	40 19 25.1 S	145 26 13.4 E	367216	5535133	48	110	16 122
BB82A-1	37	40 19 24.5 S	145 26 14.6 E	367243	5535154	48	110	16 132
BB82A-1	38	40 19 23.8 S	145 26 15.7 E	367270	5535175	48	110	16 142
BB82A-1	39	40 19 23.1 S	145 26 16.9 E	367297	5535196	48	110	16 152
BB82A-1	40	40 19 22.5 S	145 26 18.0 E	367324	5535217	48	110	16 2 3
BB82A-1	41	40 19 21.8 S	145 26 19.2 E	367351	5535238	48	110	16 213
BB82A-1	42	40 19 21.1 S	145 26 20.4 E	367379	5535259	48	110	16 223
BB82A-1	43	40 19 20.5 S	145 26 21.5 E	367406	5535280	48	110	16 233
BB82A-1	44	40 19 19.8 S	145 26 22.7 E	367433	5535301	48	110	16 243
BB82A-1	45	40 19 19.1 S	145 26 23.9 E	367460	5535322	48	110	16 253
BB82A-1	46	40 19 18.4 S	145 26 25.0 E	367487	5535344	48	110	16 3 3
BB82A-1	47	40 19 17.8 S	145 26 26.2 E	367514	5535365	48	110	16 313
BB82A-1	48	40 19 17.1 S	145 26 27.3 E	367541	5535386	48	110	16 323
BB82A-1	49	40 19 16.4 S	145 26 28.5 E	367568	5535407	48	110	16 333
BB82A-1	50	40 19 15.8 S	145 26 29.7 E	367595	5535428	48	110	16 343
BB82A-1	51	40 19 15.1 S	145 26 30.8 E	367622	5535449	48	110	16 353
BB82A-1	52	40 19 14.4 S	145 26 32.0 E	367649	5535470	48	110	16 4 3
BB82A-1	53	40 19 13.8 S	145 26 33.1 E	367676	5535491	48	110	16 413
BB82A-1	54	40 19 13.1 S	145 26 34.3 E	367702	5535513	48	110	16 423

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-1	55	40 19 12.4 S	145 26 35.4 E	367729	5535534	48	110	16 433
BB82A-1	56	40 19 11.7 S	145 26 36.6 E	367756	5535555	48	110	16 443
BB82A-1	57	40 19 11.1 S	145 26 37.7 E	367783	5535576	48	110	16 453
BB82A-1	58	40 19 10.4 S	145 26 38.9 E	367809	5535598	48	110	16 5 3
BB82A-1	59	40 19 09.7 S	145 26 40.0 E	367836	5535619	48	110	16 513
BB82A-1	60	40 19 09.0 S	145 26 41.2 E	367863	5535640	48	110	16 523
BB82A-1	61	40 19 08.4 S	145 26 42.3 E	367889	5535662	48	110	16 533
BB82A-1	62	40 19 07.7 S	145 26 43.5 E	367916	5535683	49	110	16 543
BB82A-1	63	40 19 07.0 S	145 26 44.6 E	367942	5535705	49	110	16 553
BB82A-1	64	40 19 06.3 S	145 26 45.7 E	367968	5535726	48	110	16 6 3
BB82A-1	65	40 19 05.6 S	145 26 46.8 E	367995	5535748	49	110	16 613
BB82A-1	66	40 19 05.0 S	145 26 48.0 E	368021	5535769	49	110	16 623
BB82A-1	67	40 19 04.3 S	145 26 49.1 E	368047	5535791	49	110	16 633
BB82A-1	68	40 19 03.6 S	145 26 50.2 E	368074	5535812	49	110	16 643
BB82A-1	69	40 19 02.9 S	145 26 51.4 E	368100	5535834	49	110	16 653
BB82A-1	70	40 19 02.2 S	145 26 52.5 E	368126	5535855	49	110	16 7 3
BB82A-1	71	40 19 01.5 S	145 26 53.6 E	368152	5535877	49	110	16 713
BB82A-1	72	40 19 00.9 S	145 26 54.8 E	368179	5535898	49	110	16 723
BB82A-1	73	40 19 00.2 S	145 26 55.9 E	368205	5535919	49	110	16 733
BB82A-1	74	40 18 59.5 S	145 26 57.0 E	368231	5535941	49	110	16 743
BB82A-1	75	40 18 58.8 S	145 26 58.1 E	368257	5535962	49	110	16 753
BB82A-1	76	40 18 58.1 S	145 26 59.3 E	368284	5535984	49	110	16 8 3
BB82A-1	77	40 18 57.5 S	145 27 00.4 E	368310	5536005	49	110	16 813
BB82A-1	78	40 18 56.8 S	145 27 01.5 E	368336	5536026	49	110	16 823
BB82A-1	79	40 18 56.1 S	145 27 02.7 E	368363	5536048	49	110	16 833
BB82A-1	80	40 18 55.4 S	145 27 03.8 E	368389	5536069	49	110	16 843
BB82A-1	81	40 18 54.8 S	145 27 04.9 E	368415	5536090	49	110	16 853
BB82A-1	82	40 18 54.1 S	145 27 06.0 E	368442	5536112	50	110	16 9 3
BB82A-1	83	40 18 53.4 S	145 27 07.2 E	368468	5536133	50	110	16 913
BB82A-1	84	40 18 52.7 S	145 27 08.3 E	368495	5536154	49	110	16 923
BB82A-1	85	40 18 52.1 S	145 27 09.4 E	368521	5536175	50	110	16 933
BB82A-1	86	40 18 51.4 S	145 27 10.6 E	368548	5536196	50	110	16 943
BB82A-1	87	40 18 50.7 S	145 27 11.8 E	368575	5536217	50	110	16 953
BB82A-1	88	40 18 50.1 S	145 27 12.9 E	368601	5536237	51	110	1610 3
BB82A-1	89	40 18 49.4 S	145 27 14.0 E	368628	5536258	51	110	161013
BB82A-1	90	40 18 48.8 S	145 27 15.2 E	368655	5536279	50	110	161023
BB82A-1	91	40 18 48.1 S	145 27 16.4 E	368682	5536299	50	110	161033
BB82A-1	92	40 18 47.5 S	145 27 17.5 E	368709	5536320	51	110	161043
BB82A-1	93	40 18 46.8 S	145 27 18.7 E	368736	5536340	51	110	161053
BB82A-1	94	40 18 46.2 S	145 27 19.9 E	368764	5536361	51	110	1611 3
BB82A-1	95	40 18 45.6 S	145 27 21.0 E	368791	5536381	51	110	161113
BB82A-1	96	40 18 44.9 S	145 27 22.2 E	368818	5536402	51	110	161123
BB82A-1	97	40 18 44.3 S	145 27 23.4 E	368846	5536422	51	110	161133
BB82A-1	98	40 18 43.6 S	145 27 24.5 E	368873	5536442	51	110	161143
BB82A-1	99	40 18 43.0 S	145 27 25.7 E	368901	5536463	51	110	161153
BB82A-1	100	40 18 42.3 S	145 27 26.9 E	368928	5536483	51	110	1612 3
BB82A-1	101	40 18 41.7 S	145 27 28.1 E	368956	5536503	51	110	161213
BB82A-1	102	40 18 41.1 S	145 27 29.3 E	368984	5536523	51	110	161223
BB82A-1	103	40 18 40.4 S	145 27 30.5 E	369011	5536543	51	110	161233
BB82A-1	104	40 18 39.8 S	145 27 31.7 E	369039	5536563	51	110	161243
BB82A-1	105	40 18 39.2 S	145 27 32.9 E	369067	5536583	52	110	161253
BB82A-1	106	40 18 38.5 S	145 27 34.1 E	369095	5536603	51	110	1613 3
BB82A-1	107	40 18 37.9 S	145 27 35.3 E	369123	5536623	51	110	161313
BB82A-1	108	40 18 37.3 S	145 27 36.4 E	369150	5536643	52	110	161323

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-1	109	40 18 36.6 S	145 27 37.6 E	369178	5536663	52	110	161333
BB82A-1	110	40 18 36.0 S	145 27 38.8 E	369206	5536683	52	110	161343
BB82A-1	111	40 18 35.4 S	145 27 40.0 E	369234	5536703	52	110	161353
BB82A-1	112	40 18 34.7 S	145 27 41.2 E	369262	5536723	52	110	1614 3
BB82A-1	113	40 18 34.1 S	145 27 42.4 E	369289	5536743	52	110	161413
BB82A-1	114	40 18 33.5 S	145 27 43.6 E	369317	5536763	52	110	161423
BB82A-1	115	40 18 32.8 S	145 27 44.8 E	369345	5536783	52	110	161433
BB82A-1	116	40 18 32.2 S	145 27 46.0 E	369373	5536804	53	110	161443
BB82A-1	117	40 18 31.5 S	145 27 47.1 E	369400	5536824	53	110	161453
BB82A-1	118	40 18 30.9 S	145 27 48.3 E	369428	5536844	53	110	1615 3
BB82A-1	119	40 18 30.2 S	145 27 49.5 E	369455	5536865	52	110	161513
BB82A-1	120	40 18 29.6 S	145 27 50.7 E	369483	5536885	52	110	161523
BB82A-1	121	40 18 29.0 S	145 27 51.9 E	369510	5536905	53	110	161533
BB82A-1	122	40 18 28.3 S	145 27 53.0 E	369537	5536926	53	110	161543
BB82A-1	123	40 18 27.7 S	145 27 54.2 E	369564	5536946	53	110	161553
BB82A-1	124	40 18 27.0 S	145 27 55.3 E	369591	5536967	53	110	1616 3
BB82A-1	125	40 18 26.4 S	145 27 56.5 E	369618	5536987	53	110	161613
BB82A-1	126	40 18 25.7 S	145 27 57.7 E	369645	5537008	53	110	161623
BB82A-1	127	40 18 25.0 S	145 27 58.8 E	369672	5537029	53	110	161633
BB82A-1	128	40 18 24.4 S	145 28 00.0 E	369699	5537049	53	110	161643
BB82A-1	129	40 18 23.7 S	145 28 01.1 E	369725	5537070	54	110	161653
BB82A-1	130	40 18 23.1 S	145 28 02.3 E	369752	5537091	54	110	1617 3
BB82A-1	131	40 18 22.4 S	145 28 03.4 E	369778	5537112	54	110	161713
BB82A-1	132	40 18 21.7 S	145 28 04.5 E	369804	5537133	54	110	161723
BB82A-1	133	40 18 21.1 S	145 28 05.6 E	369830	5537154	54	110	161733
BB82A-1	134	40 18 20.4 S	145 28 06.7 E	369856	5537175	54	110	161743
BB82A-1	135	40 18 19.7 S	145 28 07.8 E	369882	5537196	54	110	161753
BB82A-1	136	40 18 19.1 S	145 28 09.0 E	369908	5537217	54	110	1618 3
BB82A-1	137	40 18 18.4 S	145 28 10.1 E	369934	5537238	54	110	161813
BB82A-1	138	40 18 17.7 S	145 28 11.2 E	369960	5537259	55	110	161823
BB82A-1	139	40 18 17.1 S	145 28 12.3 E	369985	5537280	54	110	161833
BB82A-1	140	40 18 16.4 S	145 28 13.3 E	370010	5537301	54	110	161843
BB82A-1	141	40 18 15.7 S	145 28 14.4 E	370036	5537322	55	110	161853
BB82A-1	142	40 18 15.1 S	145 28 15.6 E	370062	5537343	54	110	1619 2
BB82A-1	143	40 18 14.4 S	145 28 16.6 E	370087	5537364	55	110	161912
BB82A-1	144	40 18 13.7 S	145 28 17.7 E	370112	5537385	55	110	161921
BB82A-1	145	40 18 13.1 S	145 28 18.8 E	370138	5537406	55	110	161930
BB82A-1	146	40 18 12.4 S	145 28 19.9 E	370163	5537427	55	110	161940
BB82A-1	147	40 18 11.8 S	145 28 21.0 E	370188	5537447	55	110	161949
BB82A-1	148	40 18 11.1 S	145 28 22.0 E	370213	5537468	55	110	161959
BB82A-1	149	40 18 10.4 S	145 28 23.1 E	370238	5537489	55	110	1620 8
BB82A-1	150	40 18 09.8 S	145 28 24.2 E	370263	5537510	55	110	162017
BB82A-1	151	40 18 09.1 S	145 28 25.3 E	370288	5537530	55	110	162027
BB82A-1	152	40 18 08.5 S	145 28 26.3 E	370312	5537551	56	110	162036
BB82A-1	153	40 18 07.8 S	145 28 27.4 E	370337	5537571	55	110	162046
BB82A-1	154	40 18 07.2 S	145 28 28.4 E	370362	5537592	56	110	162055
BB82A-1	155	40 18 06.5 S	145 28 29.5 E	370387	5537612	55	110	1621 4
BB82A-1	156	40 18 05.9 S	145 28 30.6 E	370412	5537632	55	110	162114
BB82A-1	157	40 18 05.2 S	145 28 31.6 E	370436	5537653	56	110	162123
BB82A-1	158	40 18 04.6 S	145 28 32.7 E	370461	5537673	56	110	162132
BB82A-1	159	40 18 04.0 S	145 28 33.8 E	370486	5537693	55	110	162141
BB82A-1	160	40 18 03.3 S	145 28 34.8 E	370511	5537713	56	110	162151
BB82A-1	161	40 18 02.7 S	145 28 35.9 E	370536	5537732	56	110	1622 0
BB82A-1	162	40 18 02.1 S	145 28 37.0 E	370561	5537752	56	110	1622 9

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-1	163	40 18 01.5 S	145 28 38.1 E	370586	5537772	56	110	162219
BB82A-1	164	40 18 00.9 S	145 28 39.1 E	370611	5537791	56	110	162228
BB82A-1	165	40 18 00.2 S	145 28 40.2 E	370636	5537811	56	110	162237
BB82A-1	166	40 17 59.6 S	145 28 41.3 E	370661	5537830	56	110	162247
BB82A-1	167	40 17 59.0 S	145 28 42.4 E	370686	5537850	56	110	162256
BB82A-1	168	40 17 58.4 S	145 28 43.4 E	370710	5537869	57	110	1623 5
BB82A-1	169	40 17 57.8 S	145 28 44.5 E	370735	5537889	56	110	162314
BB82A-1	170	40 17 57.1 S	145 28 45.5 E	370760	5537908	56	110	162324
BB82A-1	171	40 17 56.5 S	145 28 46.6 E	370785	5537928	56	110	162333
BB82A-1	172	40 17 55.9 S	145 28 47.7 E	370810	5537946	57	110	162342
BB82A-1	173	40 17 55.3 S	145 28 48.8 E	370835	5537965	57	110	162352
BB82A-1	174	40 17 54.7 S	145 28 49.8 E	370860	5537985	57	110	1624 1
BB82A-1	175	40 17 54.1 S	145 28 50.9 E	370885	5538004	57	110	162410
BB82A-1	176	40 17 53.5 S	145 28 52.0 E	370910	5538024	57	110	162419
BB82A-1	177	40 17 52.9 S	145 28 53.0 E	370935	5538042	57	110	162429
BB82A-1	178	40 17 52.3 S	145 28 54.1 E	370960	5538061	57	110	162438
BB82A-1	179	40 17 51.7 S	145 28 55.2 E	370985	5538080	57	110	162447
BB82A-1	180	40 17 51.1 S	145 28 56.3 E	371010	5538100	57	110	162457
BB82A-1	181	40 17 50.5 S	145 28 57.3 E	371035	5538118	57	110	1625 6
BB82A-1	182	40 17 49.9 S	145 28 58.4 E	371060	5538138	57	110	162515
BB82A-1	183	40 17 49.3 S	145 28 59.5 E	371085	5538157	57	110	162525
BB82A-1	184	40 17 48.6 S	145 29 00.5 E	371110	5538177	58	110	162534
BB82A-1	185	40 17 48.1 S	145 29 01.6 E	371135	5538195	57	110	162543
BB82A-1	186	40 17 47.4 S	145 29 02.7 E	371160	5538214	58	110	162552
BB82A-1	187	40 17 46.8 S	145 29 03.8 E	371185	5538234	57	110	1626 2
BB82A-1	188	40 17 46.2 S	145 29 04.8 E	371209	5538253	57	110	162611
BB82A-1	189	40 17 45.6 S	145 29 05.9 E	371234	5538272	58	110	162620
BB82A-1	190	40 17 45.0 S	145 29 06.9 E	371259	5538292	58	110	162630
BB82A-1	191	40 17 44.4 S	145 29 08.0 E	371284	5538311	57	110	162639
BB82A-1	192	40 17 43.7 S	145 29 09.1 E	371309	5538331	58	110	162648
BB82A-1	193	40 17 43.1 S	145 29 10.1 E	371333	5538350	58	110	162658
BB82A-1	194	40 17 42.5 S	145 29 11.2 E	371358	5538370	58	110	1627 7
BB82A-1	195	40 17 41.9 S	145 29 12.3 E	371383	5538390	57	110	162716
BB82A-1	196	40 17 41.3 S	145 29 13.3 E	371408	5538409	58	110	162725
BB82A-1	197	40 17 40.6 S	145 29 14.4 E	371433	5538429	58	110	162735
BB82A-1	198	40 17 40.0 S	145 29 15.5 E	371458	5538449	58	110	162744
BB82A-1	199	40 17 39.4 S	145 29 16.6 E	371483	5538469	58	110	162753
BB82A-1	200	40 17 38.7 S	145 29 17.6 E	371508	5538489	58	110	1628 3
BB82A-1	201	40 17 38.1 S	145 29 18.7 E	371533	5538509	58	110	162812
BB82A-1	202	40 17 37.5 S	145 29 19.8 E	371558	5538529	58	110	162821
BB82A-1	203	40 17 36.8 S	145 29 20.8 E	371583	5538549	58	110	162831
BB82A-1	204	40 17 36.2 S	145 29 21.9 E	371608	5538569	58	110	162840
BB82A-1	205	40 17 35.6 S	145 29 23.0 E	371633	5538589	58	110	162849
BB82A-1	206	40 17 34.9 S	145 29 24.1 E	371658	5538609	58	110	162858
BB82A-1	207	40 17 34.3 S	145 29 25.1 E	371683	5538629	58	110	1629 8
BB82A-1	208	40 17 33.6 S	145 29 26.2 E	371708	5538649	58	110	162917
BB82A-1	209	40 17 33.0 S	145 29 27.3 E	371733	5538669	59	110	162926
BB82A-1	210	40 17 32.4 S	145 29 28.4 E	371758	5538689	58	110	162936
BB82A-1	211	40 17 31.7 S	145 29 29.4 E	371783	5538709	58	110	162945
BB82A-1	212	40 17 31.1 S	145 29 30.5 E	371809	5538729	58	110	162954
BB82A-1	213	40 17 30.4 S	145 29 31.6 E	371834	5538750	58	110	1630 3
BB82A-1	214	40 17 29.8 S	145 29 32.7 E	371860	5538770	58	110	163013
BB82A-1	215	40 17 29.2 S	145 29 33.8 E	371885	5538790	58	110	163022
BB82A-1	216	40 17 28.5 S	145 29 34.9 E	371911	5538810	59	110	163032

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BB82A-1	217	40 17 27.9 S	145 29 36.0 E	371937	5538830	58	110	163042
BB82A-1	218	40 17 27.3 S	145 29 37.2 E	371963	5538850	58	110	163052
BB82A-1	219	40 17 26.6 S	145 29 38.3 E	371989	5538871	59	110	1631 2
BB82A-1	220	40 17 26.0 S	145 29 39.4 E	372015	5538891	58	110	163112
BB82A-1	221	40 17 25.3 S	145 29 40.5 E	372041	5538911	58	110	163122
BB82A-1	222	40 17 24.7 S	145 29 41.6 E	372067	5538931	58	110	163132
BB82A-1	223	40 17 24.1 S	145 29 42.7 E	372093	5538951	59	110	163142
BB82A-1	224	40 17 23.4 S	145 29 43.9 E	372120	5538971	59	110	163152
BB82A-1	225	40 17 22.8 S	145 29 45.0 E	372146	5538992	59	110	1632 2
BB82A-1	226	40 17 22.1 S	145 29 46.1 E	372172	5539012	58	110	163212
BB82A-1	227	40 17 21.5 S	145 29 47.3 E	372199	5539032	59	110	163222
BB82A-1	228	40 17 20.9 S	145 29 48.4 E	372225	5539052	59	110	163232
BB82A-1	229	40 17 20.2 S	145 29 49.5 E	372252	5539072	59	110	163242
BB82A-1	230	40 17 19.6 S	145 29 50.7 E	372279	5539092	59	110	163252
BB82A-1	231	40 17 18.9 S	145 29 51.8 E	372305	5539113	59	110	1633 2
BB82A-1	232	40 17 18.3 S	145 29 53.0 E	372332	5539133	59	110	163312
BB82A-1	233	40 17 17.7 S	145 29 54.1 E	372359	5539153	59	110	163322
BB82A-1	234	40 17 17.0 S	145 29 55.3 E	372386	5539173	60	110	163332
BB82A-1	235	40 17 16.4 S	145 29 56.5 E	372413	5539194	59	110	163342
BB82A-1	236	40 17 15.7 S	145 29 57.6 E	372440	5539214	59	110	163352
BB82A-1	237	40 17 15.1 S	145 29 58.8 E	372467	5539234	60	110	1634 2
BB82A-1	238	40 17 14.4 S	145 29 59.9 E	372494	5539255	59	110	163412
BB82A-1	239	40 17 13.8 S	145 30 01.1 E	372521	5539275	59	110	163422
BB82A-1	240	40 17 13.2 S	145 30 02.2 E	372548	5539295	60	110	163432
BB82A-1	241	40 17 12.5 S	145 30 03.4 E	372575	5539316	59	110	163442
BB82A-1	242	40 17 11.9 S	145 30 04.6 E	372602	5539336	59	110	163452
BB82A-1	243	40 17 11.2 S	145 30 05.7 E	372629	5539357	60	110	1635 2
BB82A-1	244	40 17 10.5 S	145 30 06.9 E	372656	5539378	60	110	163512
BB82A-1	245	40 17 09.9 S	145 30 08.0 E	372683	5539398	60	110	163522
BB82A-1	246	40 17 09.2 S	145 30 09.2 E	372710	5539419	60	110	163532
BB82A-1	247	40 17 08.6 S	145 30 10.3 E	372737	5539440	60	110	163542
BB82A-1	248	40 17 07.9 S	145 30 11.5 E	372764	5539461	60	110	163552
BB82A-1	249	40 17 07.2 S	145 30 12.6 E	372790	5539482	60	110	1636 2
BB82A-1	250	40 17 06.6 S	145 30 13.8 E	372817	5539503	60	110	163612
BB82A-1	251	40 17 05.9 S	145 30 14.9 E	372844	5539524	60	110	163622
BB82A-1	252	40 17 05.2 S	145 30 16.1 E	372871	5539545	60	110	163632
BB82A-1	253	40 17 04.6 S	145 30 17.2 E	372897	5539566	60	110	163642
BB82A-1	254	40 17 03.9 S	145 30 18.4 E	372924	5539588	60	110	163652
BB82A-1	255	40 17 03.2 S	145 30 19.5 E	372951	5539609	60	110	1637 2
BB82A-1	256	40 17 02.5 S	145 30 20.6 E	372977	5539630	60	110	163712
BB82A-1	257	40 17 01.8 S	145 30 21.8 E	373004	5539652	60	110	163722
BB82A-1	258	40 17 01.2 S	145 30 22.9 E	373030	5539673	61	110	163732
BB82A-1	259	40 17 00.5 S	145 30 24.1 E	373057	5539695	60	110	163742
BB82A-1	260	40 16 59.8 S	145 30 25.2 E	373083	5539716	60	110	163752
BB82A-1	261	40 16 59.1 S	145 30 26.3 E	373109	5539738	61	110	1638 2
BB82A-1	262	40 16 58.4 S	145 30 27.5 E	373136	5539760	61	110	163812
BB82A-1	263	40 16 57.7 S	145 30 28.6 E	373162	5539781	60	110	163822
BB82A-1	264	40 16 57.0 S	145 30 29.7 E	373188	5539803	60	110	163832
BB82A-1	265	40 16 56.3 S	145 30 30.8 E	373214	5539825	61	110	163842
BB82A-1	266	40 16 55.6 S	145 30 31.9 E	373240	5539847	60	110	163852
BB82A-1	267	40 16 54.9 S	145 30 33.1 E	373267	5539869	61	110	1639 2
BB82A-1	268	40 16 54.3 S	145 30 34.2 E	373293	5539891	61	110	163912
BB82A-1	269	40 16 53.6 S	145 30 35.3 E	373319	5539913	61	110	163922
BB82A-1	270	40 16 52.9 S	145 30 36.4 E	373345	5539935	61	110	163932

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-1	271	40 16 52.2 S	145 30 37.6 E	373371	5539957	61	110	163942
BB82A-1	272	40 16 51.5 S	145 30 38.7 E	373398	5539979	61	110	163952
BB82A-1	273	40 16 50.8 S	145 30 39.8 E	373424	5540001	61	110	1640 2
BB82A-1	274	40 16 50.1 S	145 30 40.9 E	373450	5540022	61	110	164012
BB82A-1	275	40 16 49.4 S	145 30 42.1 E	373476	5540044	61	110	164022
BB82A-1	276	40 16 48.7 S	145 30 43.2 E	373503	5540066	61	110	164032
BB82A-1	277	40 16 48.0 S	145 30 44.3 E	373529	5540088	61	110	164042
BB82A-1	278	40 16 47.3 S	145 30 45.5 E	373555	5540110	61	110	164052
BB82A-1	279	40 16 46.6 S	145 30 46.6 E	373582	5540132	61	110	1641 2
BB82A-1	280	40 16 45.9 S	145 30 47.7 E	373608	5540153	62	110	164113
BB82A-1	281	40 16 45.2 S	145 30 48.9 E	373635	5540175	61	110	164123
BB82A-1	282	40 16 44.5 S	145 30 50.0 E	373661	5540197	62	110	164133
BB82A-1	283	40 16 43.9 S	145 30 51.2 E	373688	5540218	62	110	164143
BB82A-1	284	40 16 43.2 S	145 30 52.3 E	373715	5540240	62	110	164153
BB82A-1	285	40 16 42.5 S	145 30 53.4 E	373741	5540261	62	110	1642 3

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	1	40 17 50.9 S	145 29 39.7 E	372035	5538121	59	110	205913
BB82A-2	2	40 17 50.3 S	145 29 38.6 E	372010	5538142	0	110	205921
BB82A-2	3	40 17 49.5 S	145 29 37.6 E	371985	5538164	59	110	205929
BB82A-2	4	40 17 48.8 S	145 29 36.5 E	371959	5538185	59	110	205940
BB82A-2	5	40 17 48.1 S	145 29 35.4 E	371933	5538207	59	110	205950
BB82A-2	6	40 17 47.4 S	145 29 34.3 E	371907	5538229	59	110	21 0 0
BB82A-2	7	40 17 46.6 S	145 29 33.2 E	371881	5538251	59	110	21 010
BB82A-2	8	40 17 45.9 S	145 29 32.2 E	371855	5538273	59	110	21 020
BB82A-2	9	40 17 45.2 S	145 29 31.1 E	371830	5538295	58	110	21 034
BB82A-2	10	40 17 44.5 S	145 29 30.0 E	371804	5538317	59	110	21 046
BB82A-2	11	40 17 43.7 S	145 29 29.0 E	371778	5538339	59	110	21 056
BB82A-2	12	40 17 43.0 S	145 29 27.9 E	371752	5538361	60	110	21 1 7
BB82A-2	13	40 17 42.3 S	145 29 26.8 E	371726	5538383	59	110	21 117
BB82A-2	14	40 17 41.6 S	145 29 25.7 E	371701	5538404	59	110	21 127
BB82A-2	15	40 17 40.9 S	145 29 24.7 E	371675	5538426	59	110	21 137
BB82A-2	16	40 17 40.2 S	145 29 23.6 E	371649	5538447	59	110	21 146
BB82A-2	17	40 17 39.4 S	145 29 22.5 E	371623	5538469	59	110	21 156
BB82A-2	18	40 17 38.8 S	145 29 21.4 E	371597	5538489	58	110	21 2 6
BB82A-2	19	40 17 38.0 S	145 29 20.3 E	371571	5538511	59	110	21 215
BB82A-2	20	40 17 37.4 S	145 29 19.3 E	371546	5538531	59	110	21 225
BB82A-2	21	40 17 36.7 S	145 29 18.2 E	371520	5538552	59	110	21 235
BB82A-2	22	40 17 36.0 S	145 29 17.1 E	371494	5538574	59	110	21 244
BB82A-2	23	40 17 35.3 S	145 29 16.0 E	371468	5538594	58	110	21 254
BB82A-2	24	40 17 34.6 S	145 29 14.9 E	371442	5538615	59	110	21 3 4
BB82A-2	25	40 17 33.9 S	145 29 13.8 E	371416	5538635	59	110	21 313
BB82A-2	26	40 17 33.2 S	145 29 12.8 E	371390	5538656	59	110	21 323
BB82A-2	27	40 17 32.6 S	145 29 11.7 E	371364	5538676	59	110	21 333
BB82A-2	28	40 17 31.9 S	145 29 10.6 E	371338	5538696	59	110	21 342
BB82A-2	29	40 17 31.3 S	145 29 09.5 E	371313	5538716	59	110	21 352
BB82A-2	30	40 17 30.6 S	145 29 08.4 E	371287	5538736	59	110	21 4 2
BB82A-2	31	40 17 29.9 S	145 29 07.4 E	371261	5538756	58	110	21 412
BB82A-2	32	40 17 29.3 S	145 29 06.3 E	371235	5538776	59	110	21 421
BB82A-2	33	40 17 28.6 S	145 29 05.2 E	371209	5538796	59	110	21 431
BB82A-2	34	40 17 27.9 S	145 29 04.1 E	371183	5538816	58	110	21 441
BB82A-2	35	40 17 27.3 S	145 29 03.0 E	371157	5538835	58	110	21 450
BB82A-2	36	40 17 26.7 S	145 29 02.0 E	371132	5538855	58	110	21 5 0
BB82A-2	37	40 17 26.0 S	145 29 00.9 E	371106	5538874	59	110	21 510
BB82A-2	38	40 17 25.4 S	145 28 59.8 E	371080	5538894	59	110	21 519
BB82A-2	39	40 17 24.7 S	145 28 58.7 E	371054	5538913	59	110	21 529
BB82A-2	40	40 17 24.1 S	145 28 57.6 E	371028	5538932	59	110	21 539
BB82A-2	41	40 17 23.4 S	145 28 56.5 E	371002	5538952	59	110	21 548
BB82A-2	42	40 17 22.8 S	145 28 55.5 E	370977	5538971	58	110	21 558
BB82A-2	43	40 17 22.2 S	145 28 54.4 E	370951	5538990	59	110	21 6 8
BB82A-2	44	40 17 21.5 S	145 28 53.3 E	370925	5539010	59	110	21 617
BB82A-2	45	40 17 20.9 S	145 28 52.2 E	370899	5539029	58	110	21 627
BB82A-2	46	40 17 20.3 S	145 28 51.2 E	370874	5539048	58	110	21 637
BB82A-2	47	40 17 19.6 S	145 28 50.1 E	370848	5539068	58	110	21 647
BB82A-2	48	40 17 19.0 S	145 28 49.0 E	370822	5539087	58	110	21 656
BB82A-2	49	40 17 18.3 S	145 28 48.0 E	370797	5539107	59	110	21 7 6
BB82A-2	50	40 17 17.7 S	145 28 46.9 E	370771	5539126	59	110	21 716
BB82A-2	51	40 17 17.0 S	145 28 45.8 E	370746	5539146	59	110	21 725
BB82A-2	52	40 17 16.4 S	145 28 44.8 E	370720	5539165	58	110	21 735
BB82A-2	53	40 17 15.7 S	145 28 43.7 E	370694	5539185	58	110	21 745
BB82A-2	54	40 17 15.0 S	145 28 42.6 E	370669	5539205	58	110	21 754

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	55	40 17 14.4 S	145 28 41.5 E	370643	5539224	59	110	21 8 4
BB82A-2	56	40 17 13.8 S	145 28 40.5 E	370618	5539244	59	110	21 814
BB82A-2	57	40 17 13.1 S	145 28 39.4 E	370592	5539264	58	110	21 823
BB82A-2	58	40 17 12.4 S	145 28 38.4 E	370567	5539284	58	110	21 833
BB82A-2	59	40 17 11.8 S	145 28 37.3 E	370542	5539304	58	110	21 843
BB82A-2	60	40 17 11.1 S	145 28 36.2 E	370516	5539324	59	110	21 852
BB82A-2	61	40 17 10.4 S	145 28 35.2 E	370491	5539345	58	110	21 9 2
BB82A-2	62	40 17 09.7 S	145 28 34.1 E	370466	5539365	58	110	21 912
BB82A-2	63	40 17 09.0 S	145 28 33.1 E	370440	5539386	58	110	21 922
BB82A-2	64	40 17 08.4 S	145 28 32.0 E	370415	5539406	58	110	21 931
BB82A-2	65	40 17 07.7 S	145 28 31.0 E	370390	5539427	58	110	21 941
BB82A-2	66	40 17 07.0 S	145 28 29.9 E	370365	5539447	59	110	21 951
BB82A-2	67	40 17 06.3 S	145 28 28.9 E	370340	5539468	58	110	2110 0
BB82A-2	68	40 17 05.6 S	145 28 27.8 E	370315	5539489	58	110	211010
BB82A-2	69	40 17 05.0 S	145 28 26.8 E	370290	5539509	58	110	211020
BB82A-2	70	40 17 04.3 S	145 28 25.8 E	370265	5539531	59	110	211029
BB82A-2	71	40 17 03.6 S	145 28 24.7 E	370240	5539551	59	110	211039
BB82A-2	72	40 17 02.9 S	145 28 23.7 E	370215	5539572	58	110	211049
BB82A-2	73	40 17 02.2 S	145 28 22.6 E	370190	5539593	58	110	211058
BB82A-2	74	40 17 01.5 S	145 28 21.6 E	370165	5539614	58	110	2111 8
BB82A-2	75	40 17 00.8 S	145 28 20.5 E	370140	5539635	58	110	211118
BB82A-2	76	40 17 00.1 S	145 28 19.5 E	370115	5539656	58	110	211127
BB82A-2	77	40 16 59.4 S	145 28 18.5 E	370090	5539677	58	110	211137
BB82A-2	78	40 16 58.7 S	145 28 17.4 E	370065	5539698	58	110	211147
BB82A-2	79	40 16 58.0 S	145 28 16.4 E	370040	5539720	58	110	211156
BB82A-2	80	40 16 57.3 S	145 28 15.4 E	370016	5539740	58	110	2112 6
BB82A-2	81	40 16 56.6 S	145 28 14.3 E	369991	5539762	59	110	211216
BB82A-2	82	40 16 55.9 S	145 28 13.3 E	369966	5539783	58	110	211225
BB82A-2	83	40 16 55.2 S	145 28 12.2 E	369941	5539805	59	110	211235
BB82A-2	84	40 16 54.5 S	145 28 11.2 E	369917	5539825	58	110	211244
BB82A-2	85	40 16 53.8 S	145 28 10.2 E	369892	5539847	58	110	211254
BB82A-2	86	40 16 53.1 S	145 28 09.2 E	369867	5539867	58	110	2113 4
BB82A-2	87	40 16 52.4 S	145 28 08.2 E	369843	5539888	58	110	211313
BB82A-2	88	40 16 51.7 S	145 28 07.1 E	369818	5539909	58	110	211323
BB82A-2	89	40 16 51.1 S	145 28 06.1 E	369793	5539930	58	110	211332
BB82A-2	90	40 16 50.4 S	145 28 05.1 E	369769	5539951	58	110	211342
BB82A-2	91	40 16 49.6 S	145 28 04.0 E	369744	5539973	58	110	211351
BB82A-2	92	40 16 49.0 S	145 28 03.0 E	369719	5539993	58	110	2114 1
BB82A-2	93	40 16 48.3 S	145 28 02.0 E	369695	5540014	58	110	211411
BB82A-2	94	40 16 47.6 S	145 28 00.9 E	369670	5540034	58	110	211420
BB82A-2	95	40 16 46.9 S	145 27 59.9 E	369645	5540055	57	110	211430
BB82A-2	96	40 16 46.2 S	145 27 58.9 E	369621	5540076	58	110	211439
BB82A-2	97	40 16 45.6 S	145 27 57.8 E	369596	5540096	58	110	211449
BB82A-2	98	40 16 44.9 S	145 27 56.8 E	369571	5540117	58	110	211459
BB82A-2	99	40 16 44.2 S	145 27 55.8 E	369547	5540137	57	110	2115 8
BB82A-2	100	40 16 43.5 S	145 27 54.8 E	369522	5540158	58	110	211518
BB82A-2	101	40 16 42.8 S	145 27 53.7 E	369497	5540178	57	110	211527
BB82A-2	102	40 16 42.1 S	145 27 52.7 E	369472	5540199	58	110	211537
BB82A-2	103	40 16 41.5 S	145 27 51.7 E	369448	5540219	58	110	211547
BB82A-2	104	40 16 40.8 S	145 27 50.6 E	369423	5540239	58	110	211556
BB82A-2	105	40 16 40.1 S	145 27 49.6 E	369398	5540260	57	110	2116 6
BB82A-2	106	40 16 39.5 S	145 27 48.5 E	369373	5540280	57	110	211615
BB82A-2	107	40 16 38.8 S	145 27 47.5 E	369348	5540300	58	110	211625
BB82A-2	108	40 16 38.1 S	145 27 46.5 E	369323	5540320	58	110	211635

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	109	40 16 37.4 S	145 27 45.4 E	369298	5540341	57	110	211644
BB82A-2	110	40 16 36.8 S	145 27 44.4 E	369273	5540361	58	110	211654
BB82A-2	111	40 16 36.1 S	145 27 43.3 E	369248	5540381	58	110	2117 3
BB82A-2	112	40 16 35.5 S	145 27 42.3 E	369223	5540401	58	110	211713
BB82A-2	113	40 16 34.8 S	145 27 41.2 E	369198	5540422	57	110	211723
BB82A-2	114	40 16 34.1 S	145 27 40.2 E	369173	5540442	56	110	211732
BB82A-2	115	40 16 33.4 S	145 27 39.1 E	369147	5540462	58	110	211742
BB82A-2	116	40 16 32.7 S	145 27 38.1 E	369122	5540483	58	110	211752
BB82A-2	117	40 16 32.1 S	145 27 37.0 E	369097	5540503	58	110	2118 2
BB82A-2	118	40 16 31.4 S	145 27 35.9 E	369071	5540523	58	110	211812
BB82A-2	119	40 16 30.7 S	145 27 34.9 E	369046	5540544	57	110	211821
BB82A-2	120	40 16 30.1 S	145 27 33.9 E	369021	5540564	57	110	211831
BB82A-2	121	40 16 29.4 S	145 27 32.8 E	368995	5540585	57	110	211841
BB82A-2	122	40 16 28.7 S	145 27 31.7 E	368970	5540605	57	110	211851
BB82A-2	123	40 16 28.0 S	145 27 30.6 E	368944	5540626	57	110	2119 1
BB82A-2	124	40 16 27.3 S	145 27 29.6 E	368919	5540647	57	110	211910
BB82A-2	125	40 16 26.6 S	145 27 28.5 E	368893	5540667	57	110	211920
BB82A-2	126	40 16 26.0 S	145 27 27.4 E	368867	5540688	57	110	211930
BB82A-2	127	40 16 25.3 S	145 27 26.3 E	368841	5540709	57	110	211940
BB82A-2	128	40 16 24.6 S	145 27 25.3 E	368816	5540729	57	110	211950
BB82A-2	129	40 16 23.9 S	145 27 24.2 E	368790	5540751	57	110	211959
BB82A-2	130	40 16 23.2 S	145 27 23.1 E	368764	5540771	56	110	2120 9
BB82A-2	131	40 16 22.5 S	145 27 22.0 E	368738	5540793	57	110	212019
BB82A-2	132	40 16 21.8 S	145 27 21.0 E	368712	5540813	57	110	212029
BB82A-2	133	40 16 21.1 S	145 27 19.9 E	368686	5540835	56	110	212038
BB82A-2	134	40 16 20.4 S	145 27 18.8 E	368660	5540856	56	110	212048
BB82A-2	135	40 16 19.7 S	145 27 17.7 E	368634	5540877	56	110	212058
BB82A-2	136	40 16 19.0 S	145 27 16.6 E	368608	5540899	57	110	2121 8
BB82A-2	137	40 16 18.3 S	145 27 15.5 E	368582	5540920	56	110	212118
BB82A-2	138	40 16 17.5 S	145 27 14.4 E	368556	5540942	56	110	212127
BB82A-2	139	40 16 16.8 S	145 27 13.4 E	368530	5540963	56	110	212137
BB82A-2	140	40 16 16.1 S	145 27 12.3 E	368504	5540985	56	110	212147
BB82A-2	141	40 16 15.4 S	145 27 11.2 E	368478	5541006	56	110	212157
BB82A-2	142	40 16 14.7 S	145 27 10.1 E	368452	5541028	56	110	2122 7
BB82A-2	143	40 16 14.0 S	145 27 09.0 E	368425	5541049	56	110	212216
BB82A-2	144	40 16 13.3 S	145 27 07.9 E	368399	5541071	56	110	212226
BB82A-2	145	40 16 12.5 S	145 27 06.8 E	368373	5541093	56	110	212236
BB82A-2	146	40 16 11.8 S	145 27 05.7 E	368347	5541114	56	110	212246
BB82A-2	147	40 16 11.1 S	145 27 04.6 E	368321	5541136	56	110	212256
BB82A-2	148	40 16 10.4 S	145 27 03.5 E	368294	5541157	55	110	2123 5
BB82A-2	149	40 16 09.7 S	145 27 02.4 E	368268	5541179	56	110	212315
BB82A-2	150	40 16 09.0 S	145 27 01.3 E	368242	5541201	56	110	212325
BB82A-2	151	40 16 08.3 S	145 27 00.3 E	368216	5541222	56	110	212335
BB82A-2	152	40 16 07.5 S	145 26 59.1 E	368189	5541244	56	110	212345
BB82A-2	153	40 16 06.8 S	145 26 58.1 E	368163	5541265	55	110	212354
BB82A-2	154	40 16 06.1 S	145 26 57.0 E	368137	5541287	55	110	2124 4
BB82A-2	155	40 16 05.4 S	145 26 55.9 E	368111	5541308	56	110	212414
BB82A-2	156	40 16 04.7 S	145 26 54.8 E	368085	5541330	56	110	212424
BB82A-2	157	40 16 04.0 S	145 26 53.7 E	368058	5541351	56	110	212434
BB82A-2	158	40 16 03.3 S	145 26 52.6 E	368032	5541373	55	110	212443
BB82A-2	159	40 16 02.6 S	145 26 51.5 E	368006	5541394	55	110	212453
BB82A-2	160	40 16 01.9 S	145 26 50.4 E	367980	5541415	55	110	2125 3
BB82A-2	161	40 16 01.2 S	145 26 49.3 E	367954	5541437	55	110	212513
BB82A-2	162	40 16 00.5 S	145 26 48.2 E	367927	5541457	55	110	212523

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	163	40 15 59.8 S	145 26 47.1 E	367901	5541479	55	110	212532
BB82A-2	164	40 15 59.1 S	145 26 46.0 E	367875	5541499	56	110	212542
BB82A-2	165	40 15 58.4 S	145 26 45.0 E	367849	5541520	55	110	212552
BB82A-2	166	40 15 57.7 S	145 26 43.9 E	367823	5541541	55	110	2126 2
BB82A-2	167	40 15 57.0 S	145 26 42.8 E	367797	5541562	55	110	212612
BB82A-2	168	40 15 56.3 S	145 26 41.7 E	367771	5541583	55	110	212621
BB82A-2	169	40 15 55.6 S	145 26 40.6 E	367745	5541604	55	110	212631
BB82A-2	170	40 15 54.9 S	145 26 39.5 E	367719	5541626	55	110	212641
BB82A-2	171	40 15 54.2 S	145 26 38.4 E	367693	5541646	56	110	212651
BB82A-2	172	40 15 53.5 S	145 26 37.4 E	367667	5541667	55	110	2127 1
BB82A-2	173	40 15 52.9 S	145 26 36.3 E	367641	5541687	55	110	212710
BB82A-2	174	40 15 52.2 S	145 26 35.2 E	367615	5541708	55	110	212720
BB82A-2	175	40 15 51.5 S	145 26 34.1 E	367589	5541729	55	110	212730
BB82A-2	176	40 15 50.8 S	145 26 33.0 E	367563	5541749	55	110	212740
BB82A-2	177	40 15 50.1 S	145 26 31.9 E	367537	5541770	54	110	212750
BB82A-2	178	40 15 49.5 S	145 26 30.8 E	367511	5541790	55	110	212759
BB82A-2	179	40 15 48.8 S	145 26 29.8 E	367485	5541810	54	110	2128 9
BB82A-2	180	40 15 48.1 S	145 26 28.7 E	367459	5541831	54	110	212819
BB82A-2	181	40 15 47.4 S	145 26 27.6 E	367433	5541851	54	110	212829
BB82A-2	182	40 15 46.8 S	145 26 26.5 E	367407	5541871	55	110	212839
BB82A-2	183	40 15 46.1 S	145 26 25.4 E	367381	5541892	54	110	212848
BB82A-2	184	40 15 45.4 S	145 26 24.3 E	367355	5541912	54	110	212858
BB82A-2	185	40 15 44.7 S	145 26 23.3 E	367329	5541932	54	110	2129 8
BB82A-2	186	40 15 44.1 S	145 26 22.2 E	367303	5541952	55	110	212918
BB82A-2	187	40 15 43.4 S	145 26 21.1 E	367277	5541973	54	110	212928
BB82A-2	188	40 15 42.7 S	145 26 20.0 E	367252	5541993	54	110	212937
BB82A-2	189	40 15 42.1 S	145 26 19.0 E	367226	5542013	54	110	212947
BB82A-2	190	40 15 41.4 S	145 26 17.9 E	367200	5542033	54	110	212957
BB82A-2	191	40 15 40.7 S	145 26 16.8 E	367174	5542053	54	110	2130 7
BB82A-2	192	40 15 40.0 S	145 26 15.7 E	367148	5542074	54	110	213017
BB82A-2	193	40 15 39.4 S	145 26 14.6 E	367122	5542094	55	110	213026
BB82A-2	194	40 15 38.7 S	145 26 13.5 E	367096	5542114	54	110	213036
BB82A-2	195	40 15 38.1 S	145 26 12.5 E	367071	5542134	54	110	213046
BB82A-2	196	40 15 37.4 S	145 26 11.4 E	367045	5542154	54	110	213056
BB82A-2	197	40 15 36.7 S	145 26 10.3 E	367019	5542175	54	110	2131 5
BB82A-2	198	40 15 36.0 S	145 26 09.2 E	366993	5542195	54	110	213115
BB82A-2	199	40 15 35.4 S	145 26 08.1 E	366967	5542215	53	110	213125
BB82A-2	200	40 15 34.7 S	145 26 07.1 E	366941	5542235	54	110	213135
BB82A-2	201	40 15 34.0 S	145 26 06.0 E	366915	5542256	54	110	213145
BB82A-2	202	40 15 33.3 S	145 26 04.9 E	366889	5542276	54	110	213154
BB82A-2	203	40 15 32.7 S	145 26 03.8 E	366863	5542296	55	110	2132 4
BB82A-2	204	40 15 32.0 S	145 26 02.7 E	366837	5542317	54	110	213214
BB82A-2	205	40 15 31.3 S	145 26 01.6 E	366811	5542337	54	110	213224
BB82A-2	206	40 15 30.7 S	145 26 00.5 E	366785	5542357	53	110	213234
BB82A-2	207	40 15 30.0 S	145 25 59.5 E	366759	5542378	54	110	213243
BB82A-2	208	40 15 29.3 S	145 25 58.4 E	366733	5542398	54	110	213253
BB82A-2	209	40 15 28.6 S	145 25 57.3 E	366707	5542418	54	110	2133 3
BB82A-2	210	40 15 27.9 S	145 25 56.2 E	366680	5542439	53	110	213313
BB82A-2	211	40 15 27.3 S	145 25 55.1 E	366654	5542459	54	110	213323
BB82A-2	212	40 15 26.6 S	145 25 54.0 E	366628	5542479	54	110	213332
BB82A-2	213	40 15 25.9 S	145 25 52.9 E	366602	5542500	54	110	213342
BB82A-2	214	40 15 25.3 S	145 25 51.8 E	366576	5542520	54	110	213352
BB82A-2	215	40 15 24.6 S	145 25 50.7 E	366550	5542541	54	110	2134 2
BB82A-2	216	40 15 23.9 S	145 25 49.7 E	366524	5542561	54	110	213412

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	217	40 15 23.2 S	145 25 48.5 E	366497	5542581	53	110	213421
BB82A-2	218	40 15 22.5 S	145 25 47.4 E	366471	5542602	54	110	213431
BB82A-2	219	40 15 21.9 S	145 25 46.4 E	366445	5542622	53	110	213441
BB82A-2	220	40 15 21.2 S	145 25 45.3 E	366419	5542643	53	110	213451
BB82A-2	221	40 15 20.5 S	145 25 44.2 E	366393	5542663	54	110	2135 1
BB82A-2	222	40 15 19.8 S	145 25 43.1 E	366366	5542684	54	110	213510
BB82A-2	223	40 15 19.2 S	145 25 42.0 E	366340	5542704	54	110	213520
BB82A-2	224	40 15 18.5 S	145 25 40.9 E	366314	5542725	53	110	213530
BB82A-2	225	40 15 17.8 S	145 25 39.8 E	366288	5542745	54	110	213540
BB82A-2	226	40 15 17.1 S	145 25 38.7 E	366261	5542766	54	110	213550
BB82A-2	227	40 15 16.4 S	145 25 37.6 E	366235	5542786	53	110	213559
BB82A-2	228	40 15 15.7 S	145 25 36.5 E	366209	5542807	54	110	2136 9
BB82A-2	229	40 15 15.1 S	145 25 35.4 E	366182	5542827	53	110	213619
BB82A-2	230	40 15 14.4 S	145 25 34.3 E	366156	5542848	54	110	213629
BB82A-2	231	40 15 13.7 S	145 25 33.2 E	366130	5542869	53	110	213639
BB82A-2	232	40 15 13.0 S	145 25 32.1 E	366104	5542889	54	110	213648
BB82A-2	233	40 15 12.3 S	145 25 31.0 E	366077	5542910	53	110	213658
BB82A-2	234	40 15 11.7 S	145 25 29.9 E	366051	5542930	53	110	2137 8
BB82A-2	235	40 15 11.0 S	145 25 28.8 E	366025	5542951	53	110	213718
BB82A-2	236	40 15 10.3 S	145 25 27.7 E	365999	5542972	53	110	213728
BB82A-2	237	40 15 09.6 S	145 25 26.6 E	365972	5542992	53	110	213737
BB82A-2	238	40 15 08.9 S	145 25 25.5 E	365946	5543014	53	110	213747
BB82A-2	239	40 15 08.2 S	145 25 24.5 E	365920	5543034	53	110	213757
BB82A-2	240	40 15 07.5 S	145 25 23.4 E	365894	5543055	53	110	2138 7
BB82A-2	241	40 15 06.9 S	145 25 22.3 E	365868	5543075	53	110	213817
BB82A-2	242	40 15 06.1 S	145 25 21.2 E	365842	5543097	53	110	213826
BB82A-2	243	40 15 05.5 S	145 25 20.1 E	365815	5543117	53	110	213836
BB82A-2	244	40 15 04.8 S	145 25 19.0 E	365789	5543138	53	110	213846
BB82A-2	245	40 15 04.1 S	145 25 17.9 E	365763	5543159	53	110	213856
BB82A-2	246	40 15 03.4 S	145 25 16.8 E	365737	5543180	52	110	2139 6
BB82A-2	247	40 15 02.6 S	145 25 15.7 E	365711	5543202	52	110	213915
BB82A-2	248	40 15 02.0 S	145 25 14.6 E	365685	5543222	52	110	213925
BB82A-2	249	40 15 01.3 S	145 25 13.6 E	365659	5543244	52	110	213935
BB82A-2	250	40 15 00.6 S	145 25 12.5 E	365633	5543265	52	110	213945
BB82A-2	251	40 14 59.8 S	145 25 11.4 E	365607	5543287	52	110	213955
BB82A-2	252	40 14 59.1 S	145 25 10.3 E	365581	5543308	52	110	2140 4
BB82A-2	253	40 14 58.4 S	145 25 09.2 E	365555	5543329	52	110	214014
BB82A-2	254	40 14 57.7 S	145 25 08.1 E	365529	5543350	52	110	214024
BB82A-2	255	40 14 57.0 S	145 25 07.1 E	365503	5543372	53	110	214034
BB82A-2	256	40 14 56.3 S	145 25 06.0 E	365477	5543393	52	110	214043
BB82A-2	257	40 14 55.6 S	145 25 04.9 E	365451	5543415	52	110	214053
BB82A-2	258	40 14 54.9 S	145 25 03.8 E	365425	5543437	52	110	2141 3
BB82A-2	259	40 14 54.2 S	145 25 02.8 E	365400	5543458	52	110	214112
BB82A-2	260	40 14 53.4 S	145 25 01.7 E	365374	5543480	52	110	214122
BB82A-2	261	40 14 52.7 S	145 25 00.6 E	365348	5543502	52	110	214132
BB82A-2	262	40 14 52.0 S	145 24 59.5 E	365322	5543523	52	110	214141
BB82A-2	263	40 14 51.3 S	145 24 58.4 E	365296	5543545	52	110	214151
BB82A-2	264	40 14 50.6 S	145 24 57.3 E	365270	5543567	52	110	2142 1
BB82A-2	265	40 14 49.8 S	145 24 56.3 E	365245	5543589	52	110	214210
BB82A-2	266	40 14 49.1 S	145 24 55.2 E	365219	5543611	52	110	214220
BB82A-2	267	40 14 48.4 S	145 24 54.1 E	365193	5543633	52	110	214230
BB82A-2	268	40 14 47.6 S	145 24 53.1 E	365167	5543655	52	110	214240
BB82A-2	269	40 14 46.9 S	145 24 52.0 E	365142	5543677	52	110	214249
BB82A-2	270	40 14 46.2 S	145 24 50.9 E	365116	5543699	52	110	214259

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	271	40 14 45.5 S	145 24 49.8 E	365090	5543721	51	110	2143 9
BB82A-2	272	40 14 44.7 S	145 24 48.8 E	365065	5543743	52	110	214318
BB82A-2	273	40 14 44.0 S	145 24 47.7 E	365039	5543765	52	110	214328
BB82A-2	274	40 14 43.3 S	145 24 46.6 E	365013	5543787	52	110	214338
BB82A-2	275	40 14 42.5 S	145 24 45.6 E	364987	5543809	52	110	214347
BB82A-2	276	40 14 41.8 S	145 24 44.5 E	364962	5543831	51	110	214357
BB82A-2	277	40 14 41.1 S	145 24 43.4 E	364936	5543853	52	110	2144 7
BB82A-2	278	40 14 40.4 S	145 24 42.4 E	364910	5543875	52	110	214416
BB82A-2	279	40 14 39.6 S	145 24 41.3 E	364885	5543897	51	110	214426
BB82A-2	280	40 14 38.9 S	145 24 40.2 E	364859	5543919	51	110	214436
BB82A-2	281	40 14 38.2 S	145 24 39.1 E	364833	5543941	51	110	214445
BB82A-2	282	40 14 37.5 S	145 24 38.1 E	364808	5543962	52	110	214455
BB82A-2	283	40 14 36.8 S	145 24 37.0 E	364782	5543984	52	110	2145 5
BB82A-2	284	40 14 36.0 S	145 24 35.9 E	364756	5544006	51	110	214515
BB82A-2	285	40 14 35.3 S	145 24 34.9 E	364730	5544028	51	110	214524
BB82A-2	286	40 14 34.6 S	145 24 33.8 E	364705	5544050	52	110	214534
BB82A-2	287	40 14 33.9 S	145 24 32.7 E	364679	5544071	51	110	214544
BB82A-2	288	40 14 33.1 S	145 24 31.6 E	364653	5544093	51	110	214553
BB82A-2	289	40 14 32.4 S	145 24 30.6 E	364627	5544115	51	110	2146 3
BB82A-2	290	40 14 31.7 S	145 24 29.5 E	364602	5544136	51	110	214613
BB82A-2	291	40 14 31.0 S	145 24 28.4 E	364576	5544158	51	110	214622
BB82A-2	292	40 14 30.3 S	145 24 27.4 E	364550	5544179	51	110	214632
BB82A-2	293	40 14 29.6 S	145 24 26.3 E	364524	5544201	51	110	214642
BB82A-2	294	40 14 28.9 S	145 24 25.2 E	364499	5544222	51	110	214651
BB82A-2	295	40 14 28.1 S	145 24 24.1 E	364473	5544244	51	110	2147 1
BB82A-2	296	40 14 27.4 S	145 24 23.1 E	364447	5544265	51	110	214711
BB82A-2	297	40 14 26.8 S	145 24 22.0 E	364421	5544286	51	110	214720
BB82A-2	298	40 14 26.0 S	145 24 20.9 E	364395	5544308	51	110	214730
BB82A-2	299	40 14 25.4 S	145 24 19.8 E	364370	5544328	50	110	214740
BB82A-2	300	40 14 24.7 S	145 24 18.8 E	364344	5544349	50	110	214750
BB82A-2	301	40 14 24.0 S	145 24 17.7 E	364318	5544370	51	110	214759
BB82A-2	302	40 14 23.3 S	145 24 16.6 E	364292	5544391	51	110	2148 9
BB82A-2	303	40 14 22.6 S	145 24 15.5 E	364266	5544412	51	110	214819
BB82A-2	304	40 14 21.9 S	145 24 14.5 E	364241	5544433	51	110	214828
BB82A-2	305	40 14 21.2 S	145 24 13.4 E	364215	5544455	51	110	214838
BB82A-2	306	40 14 20.5 S	145 24 12.3 E	364189	5544475	51	110	214848
BB82A-2	307	40 14 19.8 S	145 24 11.2 E	364163	5544497	51	110	214857
BB82A-2	308	40 14 19.1 S	145 24 10.1 E	364137	5544517	51	110	2149 7
BB82A-2	309	40 14 18.4 S	145 24 09.1 E	364112	5544538	51	110	214917
BB82A-2	310	40 14 17.7 S	145 24 08.0 E	364086	5544558	51	110	214926
BB82A-2	311	40 14 17.0 S	145 24 06.9 E	364060	5544579	51	110	214936
BB82A-2	312	40 14 16.3 S	145 24 05.8 E	364034	5544600	51	110	214946
BB82A-2	313	40 14 15.6 S	145 24 04.8 E	364009	5544621	52	110	214955
BB82A-2	314	40 14 15.0 S	145 24 03.7 E	363983	5544641	52	110	2150 5
BB82A-2	315	40 14 14.3 S	145 24 02.6 E	363957	5544662	51	110	215015
BB82A-2	316	40 14 13.6 S	145 24 01.5 E	363931	5544682	51	110	215025
BB82A-2	317	40 14 12.9 S	145 24 00.5 E	363906	5544703	51	110	215034
BB82A-2	318	40 14 12.3 S	145 23 59.4 E	363880	5544723	52	110	215044
BB82A-2	319	40 14 11.6 S	145 23 58.3 E	363854	5544744	51	110	215054
BB82A-2	320	40 14 10.9 S	145 23 57.3 E	363829	5544764	51	110	2151 3
BB82A-2	321	40 14 10.2 S	145 23 56.2 E	363803	5544785	51	110	215113
BB82A-2	322	40 14 09.5 S	145 23 55.1 E	363777	5544805	51	110	215123
BB82A-2	323	40 14 08.9 S	145 23 54.1 E	363752	5544826	51	110	215132
BB82A-2	324	40 14 08.2 S	145 23 53.0 E	363726	5544846	51	110	215142

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	325	40 14 07.5 S	145 23 52.0 E	363701	5544867	51	110	215152
BB82A-2	326	40 14 06.8 S	145 23 50.9 E	363675	5544887	50	110	2152 1
BB82A-2	327	40 14 06.1 S	145 23 49.8 E	363650	5544908	51	110	215211
BB82A-2	328	40 14 05.5 S	145 23 48.7 E	363624	5544928	51	110	215221
BB82A-2	329	40 14 04.8 S	145 23 47.7 E	363599	5544949	51	110	215230
BB82A-2	330	40 14 04.1 S	145 23 46.6 E	363573	5544969	51	110	215240
BB82A-2	331	40 14 03.4 S	145 23 45.6 E	363548	5544990	51	110	215250
BB82A-2	332	40 14 02.8 S	145 23 44.5 E	363523	5545010	51	110	2153 0
BB82A-2	333	40 14 02.1 S	145 23 43.5 E	363497	5545031	50	110	2153 9
BB82A-2	334	40 14 01.4 S	145 23 42.4 E	363472	5545051	50	110	215319
BB82A-2	335	40 14 00.7 S	145 23 41.3 E	363446	5545072	51	110	215329
BB82A-2	336	40 14 00.0 S	145 23 40.3 E	363421	5545093	51	110	215338
BB82A-2	337	40 13 59.3 S	145 23 39.2 E	363396	5545113	52	110	215347
BB82A-2	338	40 13 58.6 S	145 23 38.2 E	363370	5545134	51	110	215357
BB82A-2	339	40 13 58.0 S	145 23 37.1 E	363345	5545154	51	110	2154 6
BB82A-2	340	40 13 57.3 S	145 23 36.1 E	363320	5545175	51	110	215416
BB82A-2	341	40 13 56.6 S	145 23 35.0 E	363294	5545196	52	110	215425
BB82A-2	342	40 13 55.9 S	145 23 33.9 E	363269	5545216	51	110	215434
BB82A-2	343	40 13 55.2 S	145 23 32.9 E	363243	5545238	51	110	215444
BB82A-2	344	40 13 54.5 S	145 23 31.8 E	363218	5545258	51	110	215453
BB82A-2	345	40 13 53.8 S	145 23 30.8 E	363193	5545279	50	110	2155 3
BB82A-2	346	40 13 53.2 S	145 23 29.7 E	363167	5545299	51	110	215512
BB82A-2	347	40 13 52.4 S	145 23 28.7 E	363142	5545321	51	110	215521
BB82A-2	348	40 13 51.8 S	145 23 27.6 E	363117	5545341	51	110	215531
BB82A-2	349	40 13 51.1 S	145 23 26.5 E	363091	5545362	51	110	215540
BB82A-2	350	40 13 50.4 S	145 23 25.5 E	363066	5545382	51	110	215549
BB82A-2	351	40 13 49.7 S	145 23 24.4 E	363040	5545403	51	110	215559
BB82A-2	352	40 13 49.0 S	145 23 23.4 E	363015	5545424	51	110	2156 8
BB82A-2	353	40 13 48.4 S	145 23 22.3 E	362989	5545444	51	110	215618
BB82A-2	354	40 13 47.6 S	145 23 21.2 E	362964	5545466	52	110	215627
BB82A-2	355	40 13 47.0 S	145 23 20.2 E	362938	5545486	51	110	215636
BB82A-2	356	40 13 46.3 S	145 23 19.1 E	362913	5545507	51	110	215646
BB82A-2	357	40 13 45.6 S	145 23 18.0 E	362887	5545527	51	110	215655
BB82A-2	358	40 13 44.9 S	145 23 17.0 E	362862	5545548	52	110	2157 5
BB82A-2	359	40 13 44.2 S	145 23 15.9 E	362836	5545569	51	110	215714
BB82A-2	360	40 13 43.5 S	145 23 14.9 E	362811	5545590	51	110	215723
BB82A-2	361	40 13 42.9 S	145 23 13.8 E	362785	5545610	52	110	215733
BB82A-2	362	40 13 42.2 S	145 23 12.7 E	362759	5545631	52	110	215742
BB82A-2	363	40 13 41.5 S	145 23 11.7 E	362734	5545651	51	110	215752
BB82A-2	364	40 13 40.8 S	145 23 10.6 E	362708	5545672	52	110	2158 1
BB82A-2	365	40 13 40.1 S	145 23 09.5 E	362682	5545692	51	110	215810
BB82A-2	366	40 13 39.5 S	145 23 08.4 E	362657	5545713	51	110	215820
BB82A-2	367	40 13 38.8 S	145 23 07.4 E	362631	5545733	51	110	215829
BB82A-2	368	40 13 38.1 S	145 23 06.3 E	362605	5545754	52	110	215838
BB82A-2	369	40 13 37.4 S	145 23 05.2 E	362579	5545774	51	110	215848
BB82A-2	370	40 13 36.7 S	145 23 04.2 E	362554	5545795	52	110	215857
BB82A-2	371	40 13 36.1 S	145 23 03.1 E	362528	5545815	51	110	2159 7
BB82A-2	372	40 13 35.4 S	145 23 02.0 E	362502	5545835	51	110	215916
BB82A-2	373	40 13 34.7 S	145 23 00.9 E	362476	5545855	51	110	215925
BB82A-2	374	40 13 34.0 S	145 22 59.8 E	362450	5545876	51	110	215935
BB82A-2	375	40 13 33.4 S	145 22 58.8 E	362425	5545896	52	110	215944
BB82A-2	376	40 13 32.7 S	145 22 57.7 E	362399	5545917	51	110	215954
BB82A-2	377	40 13 32.0 S	145 22 56.6 E	362373	5545937	51	110	22 0 3
BB82A-2	378	40 13 31.4 S	145 22 55.5 E	362347	5545957	51	110	22 012

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	379	40 13 30.7 S	145 22 54.4 E	362321	5545977	52	110	22 022
BB82A-2	380	40 13 30.0 S	145 22 53.4 E	362295	5545998	51	110	22 031
BB82A-2	381	40 13 29.3 S	145 22 52.3 E	362270	5546018	52	110	22 041
BB82A-2	382	40 13 28.7 S	145 22 51.2 E	362244	5546038	51	110	22 050
BB82A-2	383	40 13 28.0 S	145 22 50.1 E	362218	5546058	51	110	22 059
BB82A-2	384	40 13 27.3 S	145 22 49.1 E	362192	5546078	51	110	22 1 9
BB82A-2	385	40 13 26.7 S	145 22 48.0 E	362167	5546098	52	110	22 118
BB82A-2	386	40 13 26.0 S	145 22 46.9 E	362141	5546119	51	110	22 128
BB82A-2	387	40 13 25.3 S	145 22 45.8 E	362115	5546139	52	110	22 137
BB82A-2	388	40 13 24.7 S	145 22 44.8 E	362089	5546159	51	110	22 146
BB82A-2	389	40 13 24.0 S	145 22 43.7 E	362064	5546179	51	110	22 156
BB82A-2	390	40 13 23.3 S	145 22 42.6 E	362038	5546199	52	110	22 2 5
BB82A-2	391	40 13 22.7 S	145 22 41.6 E	362013	5546219	52	110	22 214
BB82A-2	392	40 13 22.0 S	145 22 40.5 E	361987	5546240	51	110	22 224
BB82A-2	393	40 13 21.3 S	145 22 39.4 E	361961	5546260	51	110	22 233
BB82A-2	394	40 13 20.6 S	145 22 38.4 E	361936	5546280	52	110	22 243
BB82A-2	395	40 13 20.0 S	145 22 37.3 E	361911	5546300	52	110	22 252
BB82A-2	396	40 13 19.3 S	145 22 36.3 E	361885	5546321	52	110	22 3 1
BB82A-2	397	40 13 18.6 S	145 22 35.2 E	361860	5546341	52	110	22 311
BB82A-2	398	40 13 18.0 S	145 22 34.1 E	361834	5546361	52	110	22 320
BB82A-2	399	40 13 17.3 S	145 22 33.1 E	361809	5546381	51	110	22 330
BB82A-2	400	40 13 16.6 S	145 22 32.1 E	361784	5546402	52	110	22 339
BB82A-2	401	40 13 15.9 S	145 22 31.0 E	361759	5546422	52	110	22 348
BB82A-2	402	40 13 15.3 S	145 22 29.9 E	361733	5546442	52	110	22 358
BB82A-2	403	40 13 14.6 S	145 22 28.9 E	361708	5546463	52	110	22 4 7
BB82A-2	404	40 13 13.9 S	145 22 27.8 E	361683	5546483	52	110	22 417
BB82A-2	405	40 13 13.2 S	145 22 26.8 E	361658	5546504	52	110	22 426
BB82A-2	406	40 13 12.6 S	145 22 25.8 E	361633	5546524	52	110	22 435
BB82A-2	407	40 13 11.9 S	145 22 24.7 E	361608	5546545	52	110	22 445
BB82A-2	408	40 13 11.2 S	145 22 23.7 E	361583	5546565	52	110	22 454
BB82A-2	409	40 13 10.5 S	145 22 22.6 E	361558	5546586	52	110	22 5 4
BB82A-2	410	40 13 09.8 S	145 22 21.6 E	361533	5546606	52	110	22 513
BB82A-2	411	40 13 09.1 S	145 22 20.6 E	361508	5546627	51	110	22 522
BB82A-2	412	40 13 08.4 S	145 22 19.5 E	361483	5546648	51	110	22 532
BB82A-2	413	40 13 07.8 S	145 22 18.5 E	361458	5546668	52	110	22 541
BB82A-2	414	40 13 07.1 S	145 22 17.4 E	361433	5546689	52	110	22 550
BB82A-2	415	40 13 06.4 S	145 22 16.4 E	361408	5546710	52	110	22 6 0
BB82A-2	416	40 13 05.7 S	145 22 15.4 E	361384	5546730	52	110	22 6 9
BB82A-2	417	40 13 05.0 S	145 22 14.3 E	361359	5546751	52	110	22 619
BB82A-2	418	40 13 04.3 S	145 22 13.3 E	361334	5546773	52	110	22 628
BB82A-2	419	40 13 03.6 S	145 22 12.3 E	361309	5546793	52	110	22 637
BB82A-2	420	40 13 02.9 S	145 22 11.2 E	361284	5546814	52	110	22 647
BB82A-2	421	40 13 02.3 S	145 22 10.2 E	361259	5546834	52	110	22 656
BB82A-2	422	40 13 01.6 S	145 22 09.1 E	361234	5546856	52	110	22 7 6
BB82A-2	423	40 13 00.9 S	145 22 08.1 E	361209	5546876	52	110	22 715
BB82A-2	424	40 13 00.2 S	145 22 07.1 E	361184	5546897	52	110	22 724
BB82A-2	425	40 12 59.5 S	145 22 06.0 E	361159	5546918	52	110	22 734
BB82A-2	426	40 12 58.8 S	145 22 05.0 E	361134	5546939	52	110	22 743
BB82A-2	427	40 12 58.1 S	145 22 03.9 E	361109	5546960	52	110	22 753
BB82A-2	428	40 12 57.4 S	145 22 02.9 E	361084	5546981	53	110	22 8 2
BB82A-2	429	40 12 56.7 S	145 22 01.8 E	361058	5547002	52	110	22 811
BB82A-2	430	40 12 56.0 S	145 22 00.8 E	361033	5547023	52	110	22 821
BB82A-2	431	40 12 55.3 S	145 21 59.7 E	361008	5547044	52	110	22 830
BB82A-2	432	40 12 54.6 S	145 21 58.7 E	360983	5547065	53	110	22 839

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	433	40 12 53.9 S	145 21 57.6 E	360957	5547086	52	110	22 849
BB82A-2	434	40 12 53.2 S	145 21 56.6 E	360932	5547107	52	110	22 858
BB82A-2	435	40 12 52.5 S	145 21 55.5 E	360906	5547128	52	110	22 9 8
BB82A-2	436	40 12 51.8 S	145 21 54.4 E	360881	5547150	52	110	22 917
BB82A-2	437	40 12 51.1 S	145 21 53.4 E	360855	5547170	52	110	22 926
BB82A-2	438	40 12 50.4 S	145 21 52.3 E	360830	5547192	52	110	22 936
BB82A-2	439	40 12 49.7 S	145 21 51.2 E	360804	5547213	52	110	22 945
BB82A-2	440	40 12 49.0 S	145 21 50.2 E	360778	5547235	52	110	22 955
BB82A-2	441	40 12 48.3 S	145 21 49.1 E	360753	5547255	51	110	2210 4
BB82A-2	442	40 12 47.6 S	145 21 48.0 E	360727	5547277	51	110	221013
BB82A-2	443	40 12 46.9 S	145 21 46.9 E	360701	5547297	52	110	221023
BB82A-2	444	40 12 46.2 S	145 21 45.9 E	360675	5547318	52	110	221032
BB82A-2	445	40 12 45.5 S	145 21 44.8 E	360649	5547339	52	110	221042
BB82A-2	446	40 12 44.8 S	145 21 43.7 E	360623	5547360	52	110	221051
BB82A-2	447	40 12 44.1 S	145 21 42.6 E	360597	5547381	51	110	2211 0
BB82A-2	448	40 12 43.4 S	145 21 41.5 E	360571	5547403	52	110	221110
BB82A-2	449	40 12 42.8 S	145 21 40.4 E	360545	5547423	52	110	221119
BB82A-2	450	40 12 42.0 S	145 21 39.4 E	360519	5547445	52	110	221129
BB82A-2	451	40 12 41.4 S	145 21 38.2 E	360492	5547465	52	110	221138
BB82A-2	452	40 12 40.7 S	145 21 37.2 E	360466	5547486	51	110	221148
BB82A-2	453	40 12 40.0 S	145 21 36.1 E	360440	5547506	52	110	221158
BB82A-2	454	40 12 39.3 S	145 21 35.0 E	360414	5547528	52	110	2212 7
BB82A-2	455	40 12 38.6 S	145 21 33.9 E	360387	5547548	52	110	221217
BB82A-2	456	40 12 37.9 S	145 21 32.8 E	360361	5547569	51	110	221226
BB82A-2	457	40 12 37.2 S	145 21 31.7 E	360335	5547591	52	110	221236
BB82A-2	458	40 12 36.5 S	145 21 30.6 E	360309	5547611	52	110	221245
BB82A-2	459	40 12 35.8 S	145 21 29.5 E	360282	5547632	52	110	221255
BB82A-2	460	40 12 35.2 S	145 21 28.4 E	360256	5547652	52	110	2213 5
BB82A-2	461	40 12 34.4 S	145 21 27.3 E	360230	5547674	52	110	221314
BB82A-2	462	40 12 33.8 S	145 21 26.2 E	360204	5547694	52	110	221324
BB82A-2	463	40 12 33.1 S	145 21 25.1 E	360177	5547715	52	110	221333
BB82A-2	464	40 12 32.3 S	145 21 24.0 E	360151	5547737	52	110	221343
BB82A-2	465	40 12 31.7 S	145 21 22.9 E	360125	5547757	52	110	221353
BB82A-2	466	40 12 31.0 S	145 21 21.9 E	360099	5547778	52	110	2214 2
BB82A-2	467	40 12 30.3 S	145 21 20.8 E	360073	5547798	53	110	221412
BB82A-2	468	40 12 29.6 S	145 21 19.7 E	360047	5547820	51	110	221421
BB82A-2	469	40 12 28.9 S	145 21 18.6 E	360021	5547840	52	110	221431
BB82A-2	470	40 12 28.2 S	145 21 17.5 E	359995	5547862	52	110	221441
BB82A-2	471	40 12 27.5 S	145 21 16.4 E	359969	5547882	51	110	221450
BB82A-2	472	40 12 26.8 S	145 21 15.4 E	359943	5547903	52	110	2215 0
BB82A-2	473	40 12 26.2 S	145 21 14.3 E	359917	5547923	53	110	2215 9
BB82A-2	474	40 12 25.4 S	145 21 13.2 E	359891	5547945	52	110	221519
BB82A-2	475	40 12 24.8 S	145 21 12.1 E	359865	5547965	51	110	221529
BB82A-2	476	40 12 24.0 S	145 21 11.0 E	359839	5547987	52	110	221538
BB82A-2	477	40 12 23.4 S	145 21 10.0 E	359813	5548007	53	110	221548
BB82A-2	478	40 12 22.7 S	145 21 08.9 E	359788	5548028	52	110	221557
BB82A-2	479	40 12 22.0 S	145 21 07.8 E	359762	5548048	52	110	2216 7
BB82A-2	480	40 12 21.3 S	145 21 06.7 E	359736	5548070	52	110	221617
BB82A-2	481	40 12 20.6 S	145 21 05.7 E	359711	5548090	52	110	221626
BB82A-2	482	40 12 19.9 S	145 21 04.6 E	359685	5548111	52	110	221636
BB82A-2	483	40 12 19.2 S	145 21 03.6 E	359660	5548132	52	110	221645
BB82A-2	484	40 12 18.5 S	145 21 02.5 E	359634	5548153	53	110	221655
BB82A-2	485	40 12 17.8 S	145 21 01.5 E	359609	5548175	53	110	2217 5
BB82A-2	486	40 12 17.1 S	145 21 00.4 E	359583	5548195	52	110	221714

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	487	40 12 16.5 S	145 20 59.3 E	359558	5548216	51	110	221724
BB82A-2	488	40 12 15.8 S	145 20 58.2 E	359532	5548236	53	110	221733
BB82A-2	489	40 12 15.1 S	145 20 57.2 E	359507	5548258	52	110	221743
BB82A-2	490	40 12 14.4 S	145 20 56.2 E	359482	5548278	52	110	221752
BB82A-2	491	40 12 13.7 S	145 20 55.1 E	359456	5548300	53	110	2218 2
BB82A-2	492	40 12 13.0 S	145 20 54.0 E	359431	5548320	52	110	221812
BB82A-2	493	40 12 12.3 S	145 20 53.0 E	359405	5548342	52	110	221821
BB82A-2	494	40 12 11.6 S	145 20 51.9 E	359380	5548362	52	110	221831
BB82A-2	495	40 12 10.9 S	145 20 50.8 E	359354	5548384	53	110	221840
BB82A-2	496	40 12 10.2 S	145 20 49.8 E	359329	5548404	52	110	221850
BB82A-2	497	40 12 09.5 S	145 20 48.7 E	359303	5548425	52	110	2219 0
BB82A-2	498	40 12 08.9 S	145 20 47.7 E	359278	5548445	52	110	2219 9
BB82A-2	499	40 12 08.1 S	145 20 46.6 E	359252	5548467	52	110	221919
BB82A-2	500	40 12 07.5 S	145 20 45.5 E	359226	5548487	52	110	221928
BB82A-2	501	40 12 06.7 S	145 20 44.5 E	359201	5548509	53	110	221938
BB82A-2	502	40 12 06.1 S	145 20 43.4 E	359175	5548529	53	110	221948
BB82A-2	503	40 12 05.4 S	145 20 42.3 E	359149	5548550	52	110	221957
BB82A-2	504	40 12 04.7 S	145 20 41.3 E	359124	5548570	52	110	2220 7
BB82A-2	505	40 12 04.0 S	145 20 40.2 E	359098	5548592	52	110	222016
BB82A-2	506	40 12 03.3 S	145 20 39.1 E	359072	5548613	52	110	222026
BB82A-2	507	40 12 02.6 S	145 20 38.0 E	359046	5548633	53	110	222036
BB82A-2	508	40 12 01.9 S	145 20 36.9 E	359020	5548654	53	110	222045
BB82A-2	509	40 12 01.3 S	145 20 35.8 E	358994	5548674	53	110	222055
BB82A-2	510	40 12 00.6 S	145 20 34.8 E	358968	5548695	52	110	2221 4
BB82A-2	511	40 11 59.9 S	145 20 33.7 E	358942	5548716	52	110	222114
BB82A-2	512	40 11 59.2 S	145 20 32.6 E	358916	5548736	53	110	222124
BB82A-2	513	40 11 58.5 S	145 20 31.5 E	358889	5548758	52	110	222133
BB82A-2	514	40 11 57.8 S	145 20 30.4 E	358863	5548778	52	110	222143
BB82A-2	515	40 11 57.1 S	145 20 29.3 E	358836	5548799	53	110	222152
BB82A-2	516	40 11 56.5 S	145 20 28.2 E	358810	5548819	53	110	2222 2
BB82A-2	517	40 11 55.8 S	145 20 27.1 E	358783	5548840	52	110	222212
BB82A-2	518	40 11 55.1 S	145 20 26.0 E	358757	5548861	53	110	222221
BB82A-2	519	40 11 54.4 S	145 20 24.8 E	358730	5548881	53	110	222231
BB82A-2	520	40 11 53.7 S	145 20 23.8 E	358704	5548902	53	110	222240
BB82A-2	521	40 11 53.0 S	145 20 22.6 E	358677	5548923	52	110	222250
BB82A-2	522	40 11 52.3 S	145 20 21.6 E	358651	5548943	52	110	222259
BB82A-2	523	40 11 51.6 S	145 20 20.4 E	358623	5548964	52	110	2223 9
BB82A-2	524	40 11 50.9 S	145 20 19.3 E	358597	5548985	52	110	222319
BB82A-2	525	40 11 50.3 S	145 20 18.2 E	358570	5549005	53	110	222328
BB82A-2	526	40 11 49.6 S	145 20 17.1 E	358544	5549026	53	110	222338
BB82A-2	527	40 11 48.9 S	145 20 15.9 E	358516	5549047	53	110	222347
BB82A-2	528	40 11 48.2 S	145 20 14.8 E	358489	5549067	52	110	222357
BB82A-2	529	40 11 47.5 S	145 20 13.7 E	358463	5549089	52	110	2224 7
BB82A-2	530	40 11 46.8 S	145 20 12.6 E	358436	5549109	53	110	222416
BB82A-2	531	40 11 46.1 S	145 20 11.5 E	358410	5549130	52	110	222426
BB82A-2	532	40 11 45.5 S	145 20 10.3 E	358382	5549150	52	110	222435
BB82A-2	533	40 11 44.7 S	145 20 09.3 E	358356	5549172	53	110	222445
BB82A-2	534	40 11 44.1 S	145 20 08.1 E	358328	5549192	52	110	222455
BB82A-2	535	40 11 43.4 S	145 20 07.0 E	358302	5549213	53	110	2225 4
BB82A-2	536	40 11 42.7 S	145 20 05.9 E	358275	5549234	52	110	222514
BB82A-2	537	40 11 42.0 S	145 20 04.8 E	358249	5549255	53	110	222523
BB82A-2	538	40 11 41.3 S	145 20 03.7 E	358222	5549276	53	110	222533
BB82A-2	539	40 11 40.6 S	145 20 02.6 E	358195	5549297	53	110	222543
BB82A-2	540	40 11 39.9 S	145 20 01.5 E	358169	5549319	52	110	222552

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	541	40 11 39.2 S	145 20 00.4 E	358142	5549339	53	110	2226 2
BB82A-2	542	40 11 38.5 S	145 19 59.3 E	358116	5549361	52	110	222611
BB82A-2	543	40 11 37.8 S	145 19 58.1 E	358089	5549382	53	110	222621
BB82A-2	544	40 11 37.1 S	145 19 57.1 E	358063	5549403	52	110	222631
BB82A-2	545	40 11 36.3 S	145 19 56.0 E	358037	5549425	52	110	222640
BB82A-2	546	40 11 35.6 S	145 19 54.9 E	358011	5549446	53	110	222650
BB82A-2	547	40 11 34.9 S	145 19 53.8 E	357985	5549468	52	110	222659
BB82A-2	548	40 11 34.2 S	145 19 52.7 E	357959	5549489	52	110	2227 9
BB82A-2	549	40 11 33.5 S	145 19 51.7 E	357933	5549511	52	110	222719
BB82A-2	550	40 11 32.8 S	145 19 50.6 E	357907	5549532	52	110	222728
BB82A-2	551	40 11 32.1 S	145 19 49.5 E	357881	5549554	52	110	222738
BB82A-2	552	40 11 31.3 S	145 19 48.4 E	357855	5549576	53	110	222747
BB82A-2	553	40 11 30.6 S	145 19 47.3 E	357829	5549597	53	110	222757
BB82A-2	554	40 11 29.9 S	145 19 46.3 E	357804	5549619	53	110	2228 6
BB82A-2	555	40 11 29.2 S	145 19 45.2 E	357778	5549641	53	110	222816
BB82A-2	556	40 11 28.4 S	145 19 44.1 E	357752	5549663	52	110	222826
BB82A-2	557	40 11 27.7 S	145 19 43.1 E	357727	5549684	53	110	222835
BB82A-2	558	40 11 27.0 S	145 19 42.0 E	357701	5549706	52	110	222845
BB82A-2	559	40 11 26.3 S	145 19 41.0 E	357676	5549728	52	110	222854
BB82A-2	560	40 11 25.6 S	145 19 39.9 E	357650	5549750	52	110	2229 4
BB82A-2	561	40 11 24.8 S	145 19 38.8 E	357625	5549772	53	110	222914
BB82A-2	562	40 11 24.1 S	145 19 37.8 E	357600	5549794	52	110	222923
BB82A-2	563	40 11 23.4 S	145 19 36.7 E	357574	5549816	52	110	222933
BB82A-2	564	40 11 22.6 S	145 19 35.7 E	357549	5549838	52	110	222942
BB82A-2	565	40 11 21.9 S	145 19 34.6 E	357524	5549860	52	110	222952
BB82A-2	566	40 11 21.2 S	145 19 33.6 E	357498	5549882	52	110	2230 2
BB82A-2	567	40 11 20.5 S	145 19 32.5 E	357473	5549904	52	110	223011
BB82A-2	568	40 11 19.7 S	145 19 31.5 E	357448	5549926	53	110	223021
BB82A-2	569	40 11 19.0 S	145 19 30.4 E	357422	5549947	52	110	223030
BB82A-2	570	40 11 18.3 S	145 19 29.4 E	357397	5549969	52	110	223040
BB82A-2	571	40 11 17.6 S	145 19 28.3 E	357372	5549991	52	110	223050
BB82A-2	572	40 11 16.9 S	145 19 27.2 E	357346	5550013	52	110	223059
BB82A-2	573	40 11 16.1 S	145 19 26.2 E	357321	5550035	52	110	2231 9
BB82A-2	574	40 11 15.4 S	145 19 25.1 E	357295	5550057	52	110	223118
BB82A-2	575	40 11 14.7 S	145 19 24.1 E	357270	5550078	52	110	223128
BB82A-2	576	40 11 14.0 S	145 19 23.0 E	357244	5550100	53	110	223138
BB82A-2	577	40 11 13.2 S	145 19 22.0 E	357219	5550122	52	110	223147
BB82A-2	578	40 11 12.5 S	145 19 20.9 E	357193	5550143	52	110	223157
BB82A-2	579	40 11 11.8 S	145 19 19.8 E	357167	5550165	52	110	2232 6
BB82A-2	580	40 11 11.1 S	145 19 18.7 E	357141	5550187	52	110	223216
BB82A-2	581	40 11 10.4 S	145 19 17.6 E	357115	5550208	53	110	223226
BB82A-2	582	40 11 09.7 S	145 19 16.5 E	357089	5550230	52	110	223235
BB82A-2	583	40 11 09.0 S	145 19 15.5 E	357063	5550251	53	110	223245
BB82A-2	584	40 11 08.2 S	145 19 14.3 E	357036	5550273	52	110	223254
BB82A-2	585	40 11 07.5 S	145 19 13.3 E	357010	5550294	52	110	2233 4
BB82A-2	586	40 11 06.8 S	145 19 12.1 E	356983	5550316	52	110	223314
BB82A-2	587	40 11 06.1 S	145 19 11.1 E	356957	5550337	52	110	223323
BB82A-2	588	40 11 05.4 S	145 19 09.9 E	356930	5550359	52	110	223333
BB82A-2	589	40 11 04.7 S	145 19 08.8 E	356904	5550379	52	110	223343
BB82A-2	590	40 11 04.0 S	145 19 07.7 E	356876	5550401	52	110	223353
BB82A-2	591	40 11 03.3 S	145 19 06.6 E	356850	5550422	53	110	2234 2
BB82A-2	592	40 11 02.6 S	145 19 05.4 E	356822	5550444	53	110	223412
BB82A-2	593	40 11 01.9 S	145 19 04.3 E	356796	5550464	53	110	223422
BB82A-2	594	40 11 01.2 S	145 19 03.2 E	356768	5550486	53	110	223431

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	595	40 11 00.5 S	145 19 02.1 E	356741	5550506	53	110	223441
BB82A-2	596	40 10 59.8 S	145 19 00.9 E	356713	5550527	52	110	223451
BB82A-2	597	40 10 59.1 S	145 18 59.8 E	356686	5550548	53	110	2235 0
BB82A-2	598	40 10 58.4 S	145 18 58.6 E	356658	5550569	53	110	223510
BB82A-2	599	40 10 57.7 S	145 18 57.5 E	356631	5550590	53	110	223520
BB82A-2	600	40 10 57.0 S	145 18 56.3 E	356603	5550611	52	110	223529
BB82A-2	601	40 10 56.3 S	145 18 55.1 E	356575	5550632	52	110	223539
BB82A-2	602	40 10 55.6 S	145 18 54.0 E	356548	5550653	53	110	223549
BB82A-2	603	40 10 54.9 S	145 18 52.9 E	356520	5550674	53	110	223558
BB82A-2	604	40 10 54.2 S	145 18 51.7 E	356492	5550695	53	110	2236 8
BB82A-2	605	40 10 53.5 S	145 18 50.5 E	356464	5550716	53	110	223618
BB82A-2	606	40 10 52.8 S	145 18 49.4 E	356436	5550737	52	110	223628
BB82A-2	607	40 10 52.1 S	145 18 48.2 E	356408	5550758	52	110	223637
BB82A-2	608	40 10 51.4 S	145 18 47.0 E	356380	5550779	53	110	223647
BB82A-2	609	40 10 50.7 S	145 18 45.9 E	356353	5550800	52	110	223657
BB82A-2	610	40 10 50.0 S	145 18 44.7 E	356325	5550821	53	110	2237 6
BB82A-2	611	40 10 49.3 S	145 18 43.6 E	356297	5550842	53	110	223716
BB82A-2	612	40 10 48.6 S	145 18 42.4 E	356269	5550863	53	110	223726
BB82A-2	613	40 10 47.9 S	145 18 41.3 E	356242	5550884	52	110	223735
BB82A-2	614	40 10 47.2 S	145 18 40.1 E	356214	5550906	53	110	223745
BB82A-2	615	40 10 46.5 S	145 18 39.0 E	356187	5550926	53	110	223755
BB82A-2	616	40 10 45.8 S	145 18 37.8 E	356159	5550948	52	110	2238 4
BB82A-2	617	40 10 45.1 S	145 18 36.7 E	356132	5550969	53	110	223814
BB82A-2	618	40 10 44.4 S	145 18 35.5 E	356104	5550991	53	110	223824
BB82A-2	619	40 10 43.7 S	145 18 34.4 E	356078	5551011	53	110	223833
BB82A-2	620	40 10 43.0 S	145 18 33.3 E	356050	5551032	53	110	223843
BB82A-2	621	40 10 42.3 S	145 18 32.1 E	356023	5551054	52	110	223853
BB82A-2	622	40 10 41.6 S	145 18 31.0 E	355996	5551075	52	110	2239 3
BB82A-2	623	40 10 40.9 S	145 18 29.9 E	355970	5551097	52	110	223912
BB82A-2	624	40 10 40.2 S	145 18 28.8 E	355942	5551117	52	110	223922
BB82A-2	625	40 10 39.5 S	145 18 27.7 E	355916	5551139	52	110	223932
BB82A-2	626	40 10 38.8 S	145 18 26.6 E	355889	5551160	53	110	223941
BB82A-2	627	40 10 38.0 S	145 18 25.5 E	355863	5551182	53	110	223951
BB82A-2	628	40 10 37.3 S	145 18 24.4 E	355837	5551203	52	110	2240 1
BB82A-2	629	40 10 36.6 S	145 18 23.3 E	355811	5551224	53	110	224010
BB82A-2	630	40 10 35.9 S	145 18 22.2 E	355785	5551245	53	110	224019
BB82A-2	631	40 10 35.2 S	145 18 21.2 E	355760	5551267	53	110	224029
BB82A-2	632	40 10 34.5 S	145 18 20.1 E	355734	5551288	53	110	224038
BB82A-2	633	40 10 33.8 S	145 18 19.0 E	355708	5551310	53	110	224047
BB82A-2	634	40 10 33.1 S	145 18 18.0 E	355683	5551331	52	110	224056
BB82A-2	635	40 10 32.4 S	145 18 17.0 E	355658	5551353	53	110	2241 5
BB82A-2	636	40 10 31.7 S	145 18 15.9 E	355633	5551374	53	110	224114
BB82A-2	637	40 10 31.0 S	145 18 14.9 E	355608	5551395	53	110	224123
BB82A-2	638	40 10 30.3 S	145 18 13.8 E	355583	5551416	53	110	224132
BB82A-2	639	40 10 29.6 S	145 18 12.8 E	355558	5551438	53	110	224141
BB82A-2	640	40 10 28.9 S	145 18 11.8 E	355533	5551459	53	110	224150
BB82A-2	641	40 10 28.1 S	145 18 10.8 E	355509	5551481	53	110	224159
BB82A-2	642	40 10 27.5 S	145 18 09.7 E	355484	5551501	53	110	2242 9
BB82A-2	643	40 10 26.7 S	145 18 08.7 E	355460	5551523	53	110	224218
BB82A-2	644	40 10 26.0 S	145 18 07.7 E	355435	5551544	53	110	224227
BB82A-2	645	40 10 25.3 S	145 18 06.7 E	355411	5551566	53	110	224236
BB82A-2	646	40 10 24.6 S	145 18 05.7 E	355387	5551586	53	110	224245
BB82A-2	647	40 10 23.9 S	145 18 04.7 E	355363	5551608	52	110	224254
BB82A-2	648	40 10 23.3 S	145 18 03.7 E	355339	5551628	53	110	2243 3

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	649	40 10 22.5 S	145 18 02.7 E	355315	5551650	53	110	224312
BB82A-2	650	40 10 21.9 S	145 18 01.7 E	355291	5551670	53	110	224321
BB82A-2	651	40 10 21.2 S	145 18 00.7 E	355267	5551691	53	110	224330
BB82A-2	652	40 10 20.5 S	145 17 59.7 E	355243	5551711	53	110	224339
BB82A-2	653	40 10 19.8 S	145 17 58.7 E	355219	5551733	53	110	224349
BB82A-2	654	40 10 19.1 S	145 17 57.7 E	355195	5551753	53	110	224358
BB82A-2	655	40 10 18.4 S	145 17 56.7 E	355171	5551774	53	110	2244 7
BB82A-2	656	40 10 17.8 S	145 17 55.7 E	355147	5551794	53	110	224416
BB82A-2	657	40 10 17.1 S	145 17 54.7 E	355123	5551815	53	110	224425
BB82A-2	658	40 10 16.4 S	145 17 53.7 E	355099	5551835	53	110	224434
BB82A-2	659	40 10 15.7 S	145 17 52.7 E	355075	5551856	53	110	224443
BB82A-2	660	40 10 15.0 S	145 17 51.7 E	355051	5551876	53	110	224452
BB82A-2	661	40 10 14.4 S	145 17 50.7 E	355027	5551896	54	110	2245 1
BB82A-2	662	40 10 13.7 S	145 17 49.7 E	355003	5551917	54	110	224510
BB82A-2	663	40 10 13.0 S	145 17 48.7 E	354979	5551937	53	110	224520
BB82A-2	664	40 10 12.4 S	145 17 47.7 E	354955	5551957	53	110	224529
BB82A-2	665	40 10 11.7 S	145 17 46.7 E	354931	5551977	53	110	224538
BB82A-2	666	40 10 11.0 S	145 17 45.7 E	354906	5551997	53	110	224547
BB82A-2	667	40 10 10.4 S	145 17 44.7 E	354882	5552017	54	110	224556
BB82A-2	668	40 10 09.7 S	145 17 43.7 E	354857	5552037	53	110	2246 5
BB82A-2	669	40 10 09.0 S	145 17 42.7 E	354833	5552057	53	110	224614
BB82A-2	670	40 10 08.4 S	145 17 41.6 E	354808	5552077	53	110	224623
BB82A-2	671	40 10 07.7 S	145 17 40.6 E	354784	5552097	53	110	224632
BB82A-2	672	40 10 07.0 S	145 17 39.6 E	354759	5552117	53	110	224641
BB82A-2	673	40 10 06.4 S	145 17 38.5 E	354734	5552137	53	110	224650
BB82A-2	674	40 10 05.7 S	145 17 37.5 E	354709	5552157	53	110	2247 0
BB82A-2	675	40 10 05.0 S	145 17 36.5 E	354684	5552177	52	110	2247 9
BB82A-2	676	40 10 04.4 S	145 17 35.4 E	354659	5552197	53	110	224718
BB82A-2	677	40 10 03.7 S	145 17 34.4 E	354634	5552217	54	110	224727
BB82A-2	678	40 10 03.1 S	145 17 33.3 E	354609	5552237	53	110	224736
BB82A-2	679	40 10 02.4 S	145 17 32.3 E	354584	5552257	54	110	224745
BB82A-2	680	40 10 01.7 S	145 17 31.2 E	354558	5552277	53	110	224754
BB82A-2	681	40 10 01.1 S	145 17 30.2 E	354533	5552296	52	110	2248 3
BB82A-2	682	40 10 00.4 S	145 17 29.1 E	354507	5552316	53	110	224812
BB82A-2	683	40 09 59.8 S	145 17 28.1 E	354482	5552336	53	110	224821
BB82A-2	684	40 09 59.1 S	145 17 27.0 E	354456	5552356	54	110	224830
BB82A-2	685	40 09 58.4 S	145 17 25.9 E	354431	5552376	53	110	224840
BB82A-2	686	40 09 57.8 S	145 17 24.9 E	354405	5552396	53	110	224849
BB82A-2	687	40 09 57.1 S	145 17 23.8 E	354380	5552416	54	110	224858
BB82A-2	688	40 09 56.4 S	145 17 22.7 E	354354	5552436	54	110	2249 7
BB82A-2	689	40 09 55.8 S	145 17 21.7 E	354328	5552456	53	110	224916
BB82A-2	690	40 09 55.1 S	145 17 20.6 E	354302	5552476	54	110	224925
BB82A-2	691	40 09 54.5 S	145 17 19.5 E	354277	5552496	53	110	224934
BB82A-2	692	40 09 53.8 S	145 17 18.4 E	354251	5552516	53	110	224943
BB82A-2	693	40 09 53.1 S	145 17 17.4 E	354225	5552536	53	110	224952
BB82A-2	694	40 09 52.5 S	145 17 16.3 E	354199	5552556	54	110	2250 1
BB82A-2	695	40 09 51.8 S	145 17 15.2 E	354174	5552576	53	110	225011
BB82A-2	696	40 09 51.1 S	145 17 14.2 E	354148	5552596	54	110	225020
BB82A-2	697	40 09 50.5 S	145 17 13.1 E	354122	5552616	54	110	225029
BB82A-2	698	40 09 49.8 S	145 17 12.0 E	354096	5552636	53	110	225038
BB82A-2	699	40 09 49.1 S	145 17 10.9 E	354070	5552656	53	110	225047
BB82A-2	700	40 09 48.5 S	145 17 09.9 E	354045	5552676	53	110	225056
BB82A-2	701	40 09 47.8 S	145 17 08.8 E	354019	5552697	53	110	2251 5
BB82A-2	702	40 09 47.1 S	145 17 07.7 E	353993	5552717	54	110	225114

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-2	703	40 09 46.4 S	145 17 06.7 E	353968	5552737	53	110	225123
BB82A-2	704	40 09 45.8 S	145 17 05.6 E	353942	5552757	53	110	225132
BB82A-2	705	40 09 45.1 S	145 17 04.5 E	353916	5552777	53	110	225141
BB82A-2	706	40 09 44.4 S	145 17 03.5 E	353891	5552798	53	110	225151
BB82A-2	707	40 09 43.8 S	145 17 02.4 E	353865	5552818	53	110	2252 0
BB82A-2	708	40 09 43.1 S	145 17 01.3 E	353840	5552838	54	110	2252 9

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3	1	40 13 57.9 S	145 28 39.6 E	370492	5545284	62	110	133536
BB82A-3	2	40 13 58.6 S	145 28 38.4 E	370466	5545262	62	110	133546
BB82A-3	3	40 13 59.2 S	145 28 37.3 E	370440	5545242	62	110	133556
BB82A-3	4	40 13 59.9 S	145 28 36.2 E	370415	5545221	62	110	1336 6
BB82A-3	5	40 14 00.5 S	145 28 35.1 E	370389	5545200	62	110	133616
BB82A-3	6	40 14 01.2 S	145 28 34.1 E	370364	5545179	62	110	133627
BB82A-3	7	40 14 01.9 S	145 28 32.9 E	370338	5545158	62	110	133637
BB82A-3	8	40 14 02.5 S	145 28 31.8 E	370312	5545137	62	110	133648
BB82A-3	9	40 14 03.2 S	145 28 30.8 E	370287	5545116	62	110	133658
BB82A-3	10	40 14 03.9 S	145 28 29.7 E	370262	5545095	62	110	1337 8
BB82A-3	11	40 14 04.6 S	145 28 28.6 E	370237	5545073	61	110	133719
BB82A-3	12	40 14 05.2 S	145 28 27.5 E	370212	5545052	62	110	133729
BB82A-3	13	40 14 05.9 S	145 28 26.4 E	370186	5545031	62	110	133739
BB82A-3	14	40 14 06.6 S	145 28 25.3 E	370161	5545010	62	110	133749
BB82A-3	15	40 14 07.2 S	145 28 24.2 E	370135	5544990	62	110	133759
BB82A-3	16	40 14 07.9 S	145 28 23.2 E	370110	5544969	62	110	1338 9
BB82A-3	17	40 14 08.5 S	145 28 22.0 E	370084	5544949	62	110	133819
BB82A-3	18	40 14 09.2 S	145 28 20.9 E	370058	5544928	61	110	133829
BB82A-3	19	40 14 09.8 S	145 28 19.8 E	370032	5544909	62	110	133840
BB82A-3	20	40 14 10.4 S	145 28 18.7 E	370005	5544888	62	110	133850
BB82A-3	21	40 14 11.0 S	145 28 17.6 E	369980	5544869	62	110	1339 0
BB82A-3	22	40 14 11.7 S	145 28 16.4 E	369953	5544849	62	110	133910
BB82A-3	23	40 14 12.3 S	145 28 15.3 E	369927	5544830	62	110	133921
BB82A-3	24	40 14 12.9 S	145 28 14.2 E	369900	5544809	61	110	133931
BB82A-3	25	40 14 13.5 S	145 28 13.1 E	369875	5544790	61	110	133941
BB82A-3	26	40 14 14.2 S	145 28 11.9 E	369848	5544770	61	110	133951
BB82A-3	27	40 14 14.8 S	145 28 10.8 E	369822	5544751	62	110	1340 1
BB82A-3	28	40 14 15.4 S	145 28 09.7 E	369795	5544732	61	110	134012
BB82A-3	29	40 14 16.0 S	145 28 08.5 E	369768	5544713	62	110	134022
BB82A-3	30	40 14 16.6 S	145 28 07.3 E	369741	5544694	61	110	134032
BB82A-3	31	40 14 17.2 S	145 28 06.2 E	369714	5544675	61	110	134042
BB82A-3	32	40 14 17.8 S	145 28 05.0 E	369687	5544656	61	110	134052
BB82A-3	33	40 14 18.4 S	145 28 03.9 E	369660	5544637	61	110	1341 2
BB82A-3	34	40 14 18.9 S	145 28 02.7 E	369632	5544619	61	110	134112
BB82A-3	35	40 14 19.5 S	145 28 01.5 E	369605	5544600	61	110	134122
BB82A-3	36	40 14 20.1 S	145 28 00.4 E	369578	5544581	61	110	134132
BB82A-3	37	40 14 20.7 S	145 27 59.2 E	369550	5544563	61	110	134142
BB82A-3	38	40 14 21.3 S	145 27 58.0 E	369523	5544544	61	110	134152
BB82A-3	39	40 14 21.9 S	145 27 56.8 E	369495	5544526	61	110	1342 2
BB82A-3	40	40 14 22.5 S	145 27 55.7 E	369468	5544507	61	110	134213
BB82A-3	41	40 14 23.0 S	145 27 54.5 E	369440	5544489	61	110	134223
BB82A-3	42	40 14 23.6 S	145 27 53.3 E	369413	5544470	61	110	134234
BB82A-3	43	40 14 24.2 S	145 27 52.1 E	369385	5544452	62	110	134244
BB82A-3	44	40 14 24.8 S	145 27 51.0 E	369358	5544434	61	110	134254
BB82A-3	45	40 14 25.4 S	145 27 49.8 E	369330	5544415	61	110	1343 4
BB82A-3	46	40 14 25.9 S	145 27 48.6 E	369303	5544397	61	110	134314
BB82A-3	47	40 14 26.5 S	145 27 47.4 E	369275	5544379	61	110	134324
BB82A-3	48	40 14 27.1 S	145 27 46.2 E	369247	5544360	61	110	134335
BB82A-3	49	40 14 27.7 S	145 27 45.0 E	369219	5544342	61	110	134345
BB82A-3	50	40 14 28.3 S	145 27 43.9 E	369192	5544323	61	110	134355
BB82A-3	51	40 14 28.9 S	145 27 42.7 E	369164	5544305	61	110	1344 6
BB82A-3	52	40 14 29.4 S	145 27 41.5 E	369136	5544287	61	110	134416
BB82A-3	53	40 14 30.0 S	145 27 40.3 E	369109	5544268	60	110	134426
BB82A-3	54	40 14 30.6 S	145 27 39.1 E	369081	5544250	61	110	134436

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3	55	40 14 31.2 S	145 27 37.9 E	369054	5544231	61	110	134446
BB82A-3	56	40 14 31.8 S	145 27 36.7 E	369026	5544212	60	110	134456
BB82A-3	57	40 14 32.4 S	145 27 35.6 E	368999	5544194	60	110	1345 6
BB82A-3	58	40 14 33.0 S	145 27 34.4 E	368971	5544175	60	110	134516
BB82A-3	59	40 14 33.6 S	145 27 33.2 E	368944	5544156	60	110	134526
BB82A-3	60	40 14 34.2 S	145 27 32.0 E	368916	5544137	60	110	134536
BB82A-3	61	40 14 34.7 S	145 27 30.9 E	368889	5544119	0	110	134546
BB82A-3	62	40 14 35.3 S	145 27 29.7 E	368862	5544100	0	110	134556
BB82A-3	63	40 14 35.9 S	145 27 28.5 E	368834	5544081	0	110	1346 7
BB82A-3	64	40 14 36.5 S	145 27 27.4 E	368807	5544062	0	110	134617
BB82A-3	65	40 14 37.1 S	145 27 26.2 E	368780	5544043	0	110	134627
BB82A-3	66	40 14 37.7 S	145 27 25.1 E	368753	5544024	0	110	134637
BB82A-3	67	40 14 38.3 S	145 27 23.9 E	368726	5544005	0	110	134647
BB82A-3	68	40 14 38.9 S	145 27 22.7 E	368699	5543986	0	110	134657
BB82A-3	69	40 14 39.6 S	145 27 21.6 E	368672	5543966	0	110	1347 8
BB82A-3	70	40 14 40.2 S	145 27 20.4 E	368645	5543947	0	110	134718
BB82A-3	71	40 14 40.8 S	145 27 19.3 E	368618	5543928	0	110	134728
BB82A-3	72	40 14 41.4 S	145 27 18.1 E	368591	5543908	0	110	134738
BB82A-3	73	40 14 42.0 S	145 27 17.0 E	368565	5543889	0	110	134748
BB82A-3	74	40 14 42.6 S	145 27 15.8 E	368538	5543870	0	110	134758
BB82A-3	75	40 14 43.2 S	145 27 14.7 E	368511	5543850	0	110	1348 9
BB82A-3	76	40 14 43.9 S	145 27 13.6 E	368485	5543830	0	110	134819
BB82A-3	77	40 14 44.5 S	145 27 12.4 E	368458	5543811	59	110	134829
BB82A-3	78	40 14 45.1 S	145 27 11.3 E	368432	5543791	60	110	134839
BB82A-3	79	40 14 45.7 S	145 27 10.1 E	368405	5543772	59	110	134849
BB82A-3	80	40 14 46.3 S	145 27 09.0 E	368379	5543752	59	110	134859
BB82A-3	81	40 14 46.9 S	145 27 07.9 E	368352	5543733	59	110	134911
BB82A-3	82	40 14 47.6 S	145 27 06.8 E	368326	5543713	59	110	134921
BB82A-3	83	40 14 48.2 S	145 27 05.6 E	368299	5543693	59	110	134931
BB82A-3	84	40 14 48.8 S	145 27 04.5 E	368274	5543673	59	110	134941
BB82A-3	85	40 14 49.4 S	145 27 03.4 E	368247	5543654	59	110	134951
BB82A-3	86	40 14 50.1 S	145 27 02.3 E	368221	5543633	59	110	1350 1
BB82A-3	87	40 14 50.7 S	145 27 01.1 E	368194	5543614	59	110	135011
BB82A-3	88	40 14 51.3 S	145 27 00.0 E	368169	5543594	58	110	135021
BB82A-3	89	40 14 51.9 S	145 26 58.9 E	368143	5543575	58	110	135031
BB82A-3	90	40 14 52.6 S	145 26 57.8 E	368117	5543555	58	110	135042
BB82A-3	91	40 14 53.2 S	145 26 56.7 E	368091	5543535	58	110	135052
BB82A-3	92	40 14 53.8 S	145 26 55.6 E	368065	5543515	58	110	1351 2
BB82A-3	93	40 14 54.5 S	145 26 54.5 E	368039	5543495	58	110	135112
BB82A-3	94	40 14 55.1 S	145 26 53.3 E	368013	5543475	58	110	135122
BB82A-3	95	40 14 55.7 S	145 26 52.2 E	367987	5543455	57	110	135132
BB82A-3	96	40 14 56.4 S	145 26 51.1 E	367960	5543435	58	110	135142
BB82A-3	97	40 14 57.0 S	145 26 50.0 E	367935	5543415	58	110	135152
BB82A-3	98	40 14 57.6 S	145 26 48.9 E	367909	5543395	58	110	1352 2
BB82A-3	99	40 14 58.3 S	145 26 47.8 E	367884	5543375	57	110	135212
BB82A-3	100	40 14 58.9 S	145 26 46.7 E	367857	5543355	58	110	135223
BB82A-3	101	40 14 59.6 S	145 26 45.6 E	367832	5543334	57	110	135233
BB82A-3	102	40 15 00.2 S	145 26 44.4 E	367805	5543314	57	110	135243
BB82A-3	103	40 15 00.8 S	145 26 43.3 E	367780	5543294	57	110	135253
BB82A-3	104	40 15 01.5 S	145 26 42.2 E	367754	5543273	57	110	1353 3
BB82A-3	105	40 15 02.1 S	145 26 41.2 E	367729	5543253	57	110	135313
BB82A-3	106	40 15 02.8 S	145 26 40.0 E	367702	5543233	57	110	135323
BB82A-3	107	40 15 03.4 S	145 26 38.9 E	367677	5543212	57	110	135333
BB82A-3	108	40 15 04.1 S	145 26 37.8 E	367650	5543192	0	110	135343

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3	109	40 15 04.7 S	145 26 36.7 E	367625	5543171	0	110	135353
BB82A-3	110	40 15 05.4 S	145 26 35.6 E	367599	5543151	0	110	1354 4
BB82A-3	111	40 15 06.0 S	145 26 34.5 E	367574	5543130	0	110	135414
BB82A-3	112	40 15 06.7 S	145 26 33.4 E	367547	5543109	56	110	135424
BB82A-3	113	40 15 07.3 S	145 26 32.3 E	367522	5543089	56	110	135434
BB82A-3	114	40 15 08.0 S	145 26 31.1 E	367495	5543068	56	110	135444
BB82A-3	115	40 15 08.7 S	145 26 30.0 E	367470	5543047	56	110	135454
BB82A-3	116	40 15 09.3 S	145 26 28.9 E	367444	5543027	56	110	1355 4
BB82A-3	117	40 15 10.0 S	145 26 27.9 E	367419	5543006	56	110	135514
BB82A-3	118	40 15 10.6 S	145 26 26.7 E	367392	5542985	55	110	135525
BB82A-3	119	40 15 11.3 S	145 26 25.6 E	367367	5542964	54	110	135535
BB82A-3	120	40 15 11.9 S	145 26 24.5 E	367341	5542944	55	110	135546
BB82A-3	121	40 15 12.6 S	145 26 23.4 E	367315	5542923	55	110	135556
BB82A-3	122	40 15 13.3 S	145 26 22.3 E	367289	5542902	56	110	1356 6
BB82A-3	123	40 15 13.9 S	145 26 21.1 E	367262	5542881	55	110	135617
BB82A-3	124	40 15 14.6 S	145 26 20.0 E	367237	5542860	55	110	135628
BB82A-3	125	40 15 15.3 S	145 26 18.9 E	367211	5542839	55	110	135638
BB82A-3	126	40 15 15.9 S	145 26 17.9 E	367186	5542818	55	110	135648
BB82A-3	127	40 15 16.6 S	145 26 16.7 E	367159	5542798	55	110	135658
BB82A-3	128	40 15 17.2 S	145 26 15.6 E	367134	5542777	55	110	1357 9
BB82A-3	129	40 15 17.9 S	145 26 14.5 E	367108	5542756	55	110	135719
BB82A-3	130	40 15 18.6 S	145 26 13.4 E	367082	5542735	54	110	135729
BB82A-3	131	40 15 19.2 S	145 26 12.3 E	367056	5542714	54	110	135739
BB82A-3	132	40 15 19.9 S	145 26 11.2 E	367030	5542693	55	110	135749
BB82A-3	133	40 15 20.5 S	145 26 10.0 E	367003	5542673	54	110	135759
BB82A-3	134	40 15 21.2 S	145 26 08.9 E	366978	5542652	54	110	135810
BB82A-3	135	40 15 21.9 S	145 26 07.8 E	366951	5542631	54	110	135820
BB82A-3	136	40 15 22.5 S	145 26 06.7 E	366925	5542611	54	110	135830
BB82A-3	137	40 15 23.2 S	145 26 05.5 E	366898	5542590	54	110	135841
BB82A-3	138	40 15 23.8 S	145 26 04.4 E	366873	5542569	53	110	135852
BB82A-3	139	40 15 24.5 S	145 26 03.3 E	366847	5542549	53	110	1359 2
BB82A-3	140	40 15 25.1 S	145 26 02.2 E	366821	5542528	54	110	135912
BB82A-3	141	40 15 25.8 S	145 26 01.1 E	366795	5542508	53	110	135923
BB82A-3	142	40 15 26.4 S	145 26 00.0 E	366769	5542487	53	110	135933
BB82A-3	143	40 15 27.1 S	145 25 58.9 E	366743	5542467	53	110	135943
BB82A-3	144	40 15 27.7 S	145 25 57.7 E	366716	5542447	53	110	135953
BB82A-3	145	40 15 28.4 S	145 25 56.6 E	366690	5542426	53	110	14 0 3
BB82A-3	146	40 15 29.0 S	145 25 55.4 E	366663	5542406	53	110	14 013
BB82A-3	147	40 15 29.6 S	145 25 54.3 E	366638	5542386	53	110	14 023
BB82A-3	148	40 15 30.3 S	145 25 53.2 E	366612	5542366	53	110	14 034
BB82A-3	149	40 15 30.9 S	145 25 52.1 E	366585	5542346	53	110	14 044
BB82A-3	150	40 15 31.5 S	145 25 51.0 E	366559	5542326	53	110	14 054
BB82A-3	151	40 15 32.2 S	145 25 49.8 E	366533	5542306	53	110	14 1 4
BB82A-3	152	40 15 32.8 S	145 25 48.7 E	366506	5542286	52	110	14 114
BB82A-3	153	40 15 33.4 S	145 25 47.6 E	366480	5542266	52	110	14 124
BB82A-3	154	40 15 34.0 S	145 25 46.5 E	366454	5542247	53	110	14 135
BB82A-3	155	40 15 34.7 S	145 25 45.3 E	366427	5542227	52	110	14 145
BB82A-3	156	40 15 35.3 S	145 25 44.2 E	366401	5542208	52	110	14 155
BB82A-3	157	40 15 35.9 S	145 25 43.0 E	366374	5542189	52	110	14 2 5
BB82A-3	158	40 15 36.5 S	145 25 41.9 E	366348	5542170	52	110	14 215
BB82A-3	159	40 15 37.1 S	145 25 40.8 E	366321	5542150	52	110	14 226
BB82A-3	160	40 15 37.7 S	145 25 39.6 E	366295	5542131	52	110	14 236
BB82A-3	161	40 15 38.3 S	145 25 38.5 E	366268	5542112	52	110	14 246
BB82A-3	162	40 15 38.9 S	145 25 37.3 E	366241	5542093	51	110	14 256

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3	163	40 15 39.5 S	145 25 36.2 E	366215	5542074	51	110	14 3 6
BB82A-3	164	40 15 40.1 S	145 25 35.1 E	366188	5542055	52	110	14 316
BB82A-3	165	40 15 40.7 S	145 25 33.9 E	366161	5542036	51	110	14 326
BB82A-3	166	40 15 41.3 S	145 25 32.7 E	366134	5542017	52	110	14 336
BB82A-3	167	40 15 41.9 S	145 25 31.6 E	366107	5541998	51	110	14 346
BB82A-3	168	40 15 42.5 S	145 25 30.4 E	366080	5541979	51	110	14 356
BB82A-3	169	40 15 43.1 S	145 25 29.3 E	366053	5541961	51	110	14 4 7
BB82A-3	170	40 15 43.7 S	145 25 28.1 E	366026	5541942	51	110	14 417
BB82A-3	171	40 15 44.3 S	145 25 27.0 E	365999	5541923	50	110	14 427
BB82A-3	172	40 15 44.8 S	145 25 25.8 E	365972	5541905	51	110	14 437
BB82A-3	173	40 15 45.4 S	145 25 24.6 E	365945	5541886	50	110	14 447
BB82A-3	174	40 15 46.0 S	145 25 23.5 E	365918	5541868	50	110	14 457
BB82A-3	175	40 15 46.6 S	145 25 22.3 E	365891	5541849	50	110	14 5 7
BB82A-3	176	40 15 47.2 S	145 25 21.2 E	365864	5541830	50	110	14 517
BB82A-3	177	40 15 47.8 S	145 25 20.0 E	365836	5541812	50	110	14 527
BB82A-3	178	40 15 48.4 S	145 25 18.8 E	365809	5541793	50	110	14 537
BB82A-3	179	40 15 49.0 S	145 25 17.7 E	365782	5541775	50	110	14 547
BB82A-3	180	40 15 49.6 S	145 25 16.5 E	365754	5541756	50	110	14 557
BB82A-3	181	40 15 50.2 S	145 25 15.3 E	365727	5541737	49	110	14 6 7
BB82A-3	182	40 15 50.7 S	145 25 14.1 E	365699	5541719	49	110	14 617
BB82A-3	183	40 15 51.3 S	145 25 13.0 E	365672	5541700	49	110	14 627
BB82A-3	184	40 15 51.9 S	145 25 11.8 E	365644	5541681	49	110	14 637
BB82A-3	185	40 15 52.5 S	145 25 10.6 E	365617	5541662	49	110	14 647
BB82A-3	186	40 15 53.1 S	145 25 09.4 E	365589	5541643	50	110	14 657
BB82A-3	187	40 15 53.7 S	145 25 08.2 E	365562	5541624	49	110	14 7 7
BB82A-3	188	40 15 54.3 S	145 25 07.1 E	365535	5541605	49	110	14 717
BB82A-3	189	40 15 54.9 S	145 25 05.9 E	365507	5541586	50	110	14 727
BB82A-3	190	40 15 55.6 S	145 25 04.7 E	365480	5541566	50	110	14 737
BB82A-3	191	40 15 56.2 S	145 25 03.6 E	365453	5541547	50	110	14 747
BB82A-3	192	40 15 56.8 S	145 25 02.4 E	365425	5541527	50	110	14 757
BB82A-3	193	40 15 57.4 S	145 25 01.2 E	365398	5541508	50	110	14 8 7
BB82A-3	194	40 15 58.0 S	145 25 00.1 E	365371	5541488	49	110	14 817
BB82A-3	195	40 15 58.6 S	145 24 58.9 E	365343	5541469	49	110	14 827
BB82A-3	196	40 15 59.3 S	145 24 57.7 E	365316	5541449	49	110	14 838
BB82A-3	197	40 15 59.9 S	145 24 56.5 E	365289	5541429	49	110	14 848
BB82A-3	198	40 16 00.5 S	145 24 55.4 E	365262	5541409	50	110	14 858
BB82A-3	199	40 16 01.2 S	145 24 54.2 E	365235	5541388	49	110	14 9 8
BB82A-3	200	40 16 01.8 S	145 24 53.1 E	365208	5541368	49	110	14 918
BB82A-3	201	40 16 02.5 S	145 24 51.9 E	365182	5541347	49	110	14 928
BB82A-3	202	40 16 03.1 S	145 24 50.8 E	365155	5541326	49	110	14 938
BB82A-3	203	40 16 03.8 S	145 24 49.7 E	365129	5541305	40	110	14 948
BB82A-3	204	40 16 04.5 S	145 24 48.5 E	365102	5541284	49	110	14 958
BB82A-3	205	40 16 05.2 S	145 24 47.4 E	365076	5541262	50	110	1410 8
BB82A-3	206	40 16 05.8 S	145 24 46.3 E	365050	5541241	50	110	141018
BB82A-3	207	40 16 06.5 S	145 24 45.1 E	365023	5541220	49	110	141028
BB82A-3	208	40 16 07.2 S	145 24 44.0 E	364997	5541198	49	110	141038
BB82A-3	209	40 16 07.9 S	145 24 42.8 E	364970	5541177	49	110	141048
BB82A-3	210	40 16 08.5 S	145 24 41.8 E	364945	5541156	50	110	141058
BB82A-3	211	40 16 09.2 S	145 24 40.7 E	364919	5541134	49	110	1411 9
BB82A-3	212	40 16 09.9 S	145 24 39.5 E	364893	5541112	50	110	141119
BB82A-3	213	40 16 10.6 S	145 24 38.4 E	364867	5541091	50	110	141129
BB82A-3	214	40 16 11.3 S	145 24 37.3 E	364841	5541069	50	110	141139
BB82A-3	215	40 16 12.0 S	145 24 36.1 E	364814	5541047	50	110	141149
BB82A-3	216	40 16 12.7 S	145 24 35.1 E	364789	5541025	50	110	141159

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3	217	40 16 13.4 S	145 24 34.0 E	364763	5541003	49	110	1412 9
BB82A-3	218	40 16 14.1 S	145 24 32.9 E	364738	5540981	49	110	141219
BB82A-3	219	40 16 14.8 S	145 24 31.8 E	364712	5540959	50	110	141229
BB82A-3	220	40 16 15.5 S	145 24 30.7 E	364687	5540937	50	110	141239
BB82A-3	221	40 16 16.2 S	145 24 29.6 E	364661	5540915	49	110	141249
BB82A-3	222	40 16 16.9 S	145 24 28.5 E	364636	5540893	49	110	141259
BB82A-3	223	40 16 17.6 S	145 24 27.4 E	364610	5540871	50	110	1413 9
BB82A-3	224	40 16 18.3 S	145 24 26.3 E	364584	5540849	49	110	141320
BB82A-3	225	40 16 18.9 S	145 24 25.2 E	364559	5540828	50	110	141330
BB82A-3	226	40 16 19.6 S	145 24 24.1 E	364533	5540806	49	110	141340
BB82A-3	227	40 16 20.3 S	145 24 22.9 E	364507	5540785	49	110	141350
BB82A-3	228	40 16 21.0 S	145 24 21.8 E	364481	5540763	49	110	1414 0
BB82A-3	229	40 16 21.7 S	145 24 20.7 E	364455	5540742	49	110	141410
BB82A-3	230	40 16 22.3 S	145 24 19.6 E	364429	5540721	50	110	141420
BB82A-3	231	40 16 23.0 S	145 24 18.4 E	364402	5540700	49	110	141430
BB82A-3	232	40 16 23.7 S	145 24 17.4 E	364377	5540679	49	110	141440
BB82A-3	233	40 16 24.3 S	145 24 16.2 E	364350	5540659	49	110	141450
BB82A-3	234	40 16 24.9 S	145 24 15.1 E	364324	5540639	48	110	1415 0
BB82A-3	235	40 16 25.6 S	145 24 13.9 E	364297	5540619	49	110	141510
BB82A-3	236	40 16 26.2 S	145 24 12.8 E	364270	5540599	49	110	141520
BB82A-3	237	40 16 26.8 S	145 24 11.6 E	364243	5540579	49	110	141530
BB82A-3	238	40 16 27.4 S	145 24 10.5 E	364216	5540560	49	110	141540
BB82A-3	239	40 16 28.0 S	145 24 09.3 E	364188	5540541	49	110	141550
BB82A-3	240	40 16 28.6 S	145 24 08.1 E	364161	5540522	48	110	1416 0
BB82A-3	241	40 16 29.2 S	145 24 06.9 E	364133	5540504	48	110	141610
BB82A-3	242	40 16 29.8 S	145 24 05.7 E	364105	5540485	48	110	141620
BB82A-3	243	40 16 30.4 S	145 24 04.5 E	364077	5540467	48	110	141630
BB82A-3	244	40 16 30.9 S	145 24 03.3 E	364048	5540449	49	110	141640
BB82A-3	245	40 16 31.5 S	145 24 02.1 E	364020	5540431	49	110	141650
BB82A-3	246	40 16 32.0 S	145 24 00.9 E	363992	5540414	48	110	1417 0
BB82A-3	247	40 16 32.6 S	145 23 59.7 E	363964	5540396	48	110	141710
BB82A-3	248	40 16 33.1 S	145 23 58.4 E	363935	5540379	48	110	141720
BB82A-3	249	40 16 33.7 S	145 23 57.2 E	363906	5540361	48	110	141730
BB82A-3	250	40 16 34.2 S	145 23 55.9 E	363877	5540345	48	110	141740
BB82A-3	251	40 16 34.7 S	145 23 54.7 E	363848	5540328	49	110	141750
BB82A-3	252	40 16 35.2 S	145 23 53.4 E	363818	5540312	48	110	1418 0
BB82A-3	253	40 16 35.7 S	145 23 52.1 E	363788	5540296	48	110	141810
BB82A-3	254	40 16 36.2 S	145 23 50.9 E	363758	5540281	48	110	141820
BB82A-3	255	40 16 36.7 S	145 23 49.6 E	363728	5540266	49	110	141830
BB82A-3	256	40 16 37.2 S	145 23 48.3 E	363697	5540250	49	110	141840
BB82A-3	257	40 16 37.6 S	145 23 47.0 E	363667	5540235	49	110	141850
BB82A-3	258	40 16 38.1 S	145 23 45.7 E	363636	5540220	49	110	1419 0
BB82A-3	259	40 16 38.6 S	145 23 44.4 E	363606	5540204	49	110	141910
BB82A-3	260	40 16 39.1 S	145 23 43.1 E	363577	5540188	48	110	141920
BB82A-3	261	40 16 39.7 S	145 23 41.8 E	363547	5540171	49	110	141930

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3A	202	40 16 01.0 S	145 24 48.1 E	365090	5541391	49	110	175951
BB82A-3A	203	40 16 01.7 S	145 24 47.0 E	365064	5541369	49	110	18 0 1
BB82A-3A	204	40 16 02.4 S	145 24 45.9 E	365038	5541348	49	110	18 011
BB82A-3A	205	40 16 03.0 S	145 24 44.7 E	365012	5541327	49	110	18 022
BB82A-3A	206	40 16 03.7 S	145 24 43.6 E	364986	5541306	49	110	18 032
BB82A-3A	207	40 16 04.3 S	145 24 42.5 E	364960	5541286	49	110	18 043
BB82A-3A	208	40 16 05.0 S	145 24 41.5 E	364936	5541265	49	110	18 053
BB82A-3A	209	40 16 05.7 S	145 24 40.4 E	364910	5541244	49	110	18 1 4
BB82A-3A	210	40 16 06.3 S	145 24 39.3 E	364886	5541223	49	110	18 115
BB82A-3A	211	40 16 07.0 S	145 24 38.2 E	364861	5541202	49	110	18 126
BB82A-3A	212	40 16 07.7 S	145 24 37.2 E	364837	5541181	49	110	18 136
BB82A-3A	213	40 16 08.4 S	145 24 36.2 E	364813	5541159	50	110	18 147
BB82A-3A	214	40 16 09.0 S	145 24 35.2 E	364789	5541138	50	110	18 157
BB82A-3A	215	40 16 09.7 S	145 24 34.1 E	364765	5541116	50	110	18 2 7
BB82A-3A	216	40 16 10.4 S	145 24 33.1 E	364741	5541095	50	110	18 217
BB82A-3A	217	40 16 11.1 S	145 24 32.1 E	364717	5541073	50	110	18 227
BB82A-3A	218	40 16 11.8 S	145 24 31.0 E	364693	5541051	49	110	18 237
BB82A-3A	219	40 16 12.5 S	145 24 30.0 E	364669	5541030	49	110	18 248
BB82A-3A	220	40 16 13.2 S	145 24 29.0 E	364645	5541008	50	110	18 258
BB82A-3A	221	40 16 13.9 S	145 24 27.9 E	364621	5540986	49	110	18 3 8
BB82A-3A	222	40 16 14.6 S	145 24 26.9 E	364597	5540964	50	110	18 319
BB82A-3A	223	40 16 15.2 S	145 24 25.9 E	364573	5540943	49	110	18 329
BB82A-3A	224	40 16 15.9 S	145 24 24.8 E	364549	5540921	49	110	18 340
BB82A-3A	225	40 16 16.6 S	145 24 23.8 E	364526	5540899	49	110	18 350
BB82A-3A	226	40 16 17.3 S	145 24 22.8 E	364502	5540877	49	110	18 4 1
BB82A-3A	227	40 16 18.0 S	145 24 21.8 E	364478	5540855	48	110	18 411
BB82A-3A	228	40 16 18.7 S	145 24 20.7 E	364454	5540833	49	110	18 422
BB82A-3A	229	40 16 19.4 S	145 24 19.7 E	364430	5540811	49	110	18 433
BB82A-3A	230	40 16 20.1 S	145 24 18.7 E	364406	5540789	49	110	18 444
BB82A-3A	231	40 16 20.8 S	145 24 17.6 E	364382	5540767	49	110	18 455
BB82A-3A	232	40 16 21.5 S	145 24 16.6 E	364357	5540745	49	110	18 5 5
BB82A-3A	233	40 16 22.2 S	145 24 15.5 E	364332	5540723	49	110	18 516
BB82A-3A	234	40 16 22.9 S	145 24 14.5 E	364308	5540701	49	110	18 526
BB82A-3A	235	40 16 23.6 S	145 24 13.4 E	364283	5540679	48	110	18 537
BB82A-3A	236	40 16 24.3 S	145 24 12.4 E	364259	5540658	48	110	18 548
BB82A-3A	237	40 16 25.0 S	145 24 11.2 E	364233	5540636	48	110	18 558
BB82A-3A	238	40 16 25.7 S	145 24 10.2 E	364209	5540614	48	110	18 6 9
BB82A-3A	239	40 16 26.3 S	145 24 09.1 E	364183	5540593	47	110	18 620
BB82A-3A	240	40 16 27.0 S	145 24 08.1 E	364159	5540571	49	110	18 630
BB82A-3A	241	40 16 27.7 S	145 24 06.9 E	364133	5540550	49	110	18 641
BB82A-3A	242	40 16 28.4 S	145 24 05.9 E	364108	5540528	49	110	18 652
BB82A-3A	243	40 16 29.1 S	145 24 04.7 E	364082	5540507	47	110	18 7 2
BB82A-3A	244	40 16 29.7 S	145 24 03.6 E	364056	5540486	48	110	18 713
BB82A-3A	245	40 16 30.4 S	145 24 02.5 E	364030	5540465	48	110	18 724
BB82A-3A	246	40 16 31.1 S	145 24 01.4 E	364004	5540444	48	110	18 735
BB82A-3A	247	40 16 31.7 S	145 24 00.3 E	363978	5540424	48	110	18 746
BB82A-3A	248	40 16 32.3 S	145 23 59.2 E	363952	5540404	47	110	18 756
BB82A-3A	249	40 16 33.0 S	145 23 58.1 E	363926	5540383	48	110	18 8 7
BB82A-3A	250	40 16 33.7 S	145 23 56.9 E	363899	5540362	48	110	18 818
BB82A-3A	251	40 16 34.3 S	145 23 55.8 E	363873	5540342	48	110	18 828
BB82A-3A	252	40 16 34.9 S	145 23 54.7 E	363847	5540322	48	110	18 839
BB82A-3A	253	40 16 35.6 S	145 23 53.5 E	363820	5540302	49	110	18 850
BB82A-3A	254	40 16 36.2 S	145 23 52.4 E	363794	5540282	48	110	18 9 1
BB82A-3A	255	40 16 36.8 S	145 23 51.2 E	363767	5540263	48	110	18 912

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3A	256	40 16 37.4 S	145 23 50.1 E	363741	5540243	49	110	18 922
BB82A-3A	257	40 16 38.0 S	145 23 49.0 E	363714	5540224	48	110	18 933
BB82A-3A	258	40 16 38.7 S	145 23 47.8 E	363687	5540204	49	110	18 943
BB82A-3A	259	40 16 39.3 S	145 23 46.7 E	363661	5540185	49	110	18 954
BB82A-3A	260	40 16 39.9 S	145 23 45.5 E	363634	5540166	48	110	1810 4
BB82A-3A	261	40 16 40.5 S	145 23 44.4 E	363607	5540146	48	110	181014
BB82A-3A	262	40 16 41.1 S	145 23 43.2 E	363580	5540127	48	110	181025
BB82A-3A	263	40 16 41.7 S	145 23 42.1 E	363553	5540108	48	110	181036
BB82A-3A	264	40 16 42.3 S	145 23 40.9 E	363526	5540089	49	110	181046
BB82A-3A	265	40 16 42.9 S	145 23 39.8 E	363500	5540070	49	110	181057
BB82A-3A	266	40 16 43.5 S	145 23 38.6 E	363473	5540051	49	110	1811 8
BB82A-3A	267	40 16 44.1 S	145 23 37.5 E	363447	5540032	49	110	181118
BB82A-3A	268	40 16 44.7 S	145 23 36.3 E	363420	5540013	49	110	181129
BB82A-3A	269	40 16 45.3 S	145 23 35.2 E	363394	5539994	49	110	181140
BB82A-3A	270	40 16 45.9 S	145 23 34.1 E	363367	5539975	48	110	181151
BB82A-3A	271	40 16 46.5 S	145 23 33.0 E	363341	5539956	48	110	1812 1
BB82A-3A	272	40 16 47.1 S	145 23 31.8 E	363315	5539937	48	110	181212
BB82A-3A	273	40 16 47.7 S	145 23 30.7 E	363288	5539917	48	110	181223
BB82A-3A	274	40 16 48.3 S	145 23 29.6 E	363262	5539898	48	110	181233
BB82A-3A	275	40 16 48.9 S	145 23 28.5 E	363236	5539879	48	110	181243
BB82A-3A	276	40 16 49.6 S	145 23 27.3 E	363210	5539859	48	110	181255
BB82A-3A	277	40 16 50.2 S	145 23 26.2 E	363184	5539840	48	110	1813 5
BB82A-3A	278	40 16 50.8 S	145 23 25.1 E	363158	5539820	48	110	181316
BB82A-3A	279	40 16 51.4 S	145 23 24.0 E	363132	5539801	48	110	181327
BB82A-3A	280	40 16 52.0 S	145 23 22.9 E	363106	5539781	49	110	181337
BB82A-3A	281	40 16 52.7 S	145 23 21.8 E	363081	5539761	48	110	181348
BB82A-3A	282	40 16 53.3 S	145 23 20.7 E	363055	5539741	48	110	1814 0
BB82A-3A	283	40 16 53.9 S	145 23 19.6 E	363029	5539721	48	110	181410
BB82A-3A	284	40 16 54.6 S	145 23 18.5 E	363004	5539701	49	110	181420
BB82A-3A	285	40 16 55.2 S	145 23 17.4 E	362978	5539681	49	110	181431
BB82A-3A	286	40 16 55.9 S	145 23 16.3 E	362953	5539660	49	110	181441
BB82A-3A	287	40 16 56.5 S	145 23 15.2 E	362927	5539640	48	110	181452
BB82A-3A	288	40 16 57.2 S	145 23 14.1 E	362902	5539619	48	110	1815 3
BB82A-3A	289	40 16 57.8 S	145 23 13.0 E	362876	5539598	48	110	181514
BB82A-3A	290	40 16 58.5 S	145 23 11.9 E	362851	5539577	48	110	181524
BB82A-3A	291	40 16 59.2 S	145 23 10.9 E	362826	5539556	49	110	181536
BB82A-3A	292	40 16 59.8 S	145 23 09.7 E	362800	5539535	49	110	181546
BB82A-3A	293	40 17 00.5 S	145 23 08.7 E	362776	5539514	48	110	181557
BB82A-3A	294	40 17 01.2 S	145 23 07.6 E	362750	5539492	48	110	1816 8
BB82A-3A	295	40 17 01.9 S	145 23 06.5 E	362725	5539471	48	110	181619
BB82A-3A	296	40 17 02.6 S	145 23 05.5 E	362701	5539449	49	110	181629
BB82A-3A	297	40 17 03.3 S	145 23 04.4 E	362675	5539427	48	110	181640
BB82A-3A	298	40 17 04.0 S	145 23 03.3 E	362650	5539405	48	110	181651
BB82A-3A	299	40 17 04.7 S	145 23 02.2 E	362624	5539383	48	110	1817 2
BB82A-3A	300	40 17 05.4 S	145 23 01.1 E	362600	5539361	48	110	181712
BB82A-3A	301	40 17 06.1 S	145 23 00.0 E	362574	5539339	48	110	181723
BB82A-3A	302	40 17 06.8 S	145 22 58.9 E	362549	5539317	48	110	181733
BB82A-3A	303	40 17 07.5 S	145 22 57.8 E	362523	5539294	49	110	181744
BB82A-3A	304	40 17 08.2 S	145 22 56.7 E	362498	5539272	48	110	181755
BB82A-3A	305	40 17 08.9 S	145 22 55.7 E	362473	5539249	48	110	1818 5
BB82A-3A	306	40 17 09.6 S	145 22 54.6 E	362447	5539227	48	110	181816
BB82A-3A	307	40 17 10.3 S	145 22 53.5 E	362423	5539204	48	110	181828
BB82A-3A	308	40 17 11.1 S	145 22 52.4 E	362397	5539181	48	110	181839
BB82A-3A	309	40 17 11.8 S	145 22 51.3 E	362372	5539159	48	110	181850

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-3A	310	40 17 12.5 S	145 22 50.2 E	362346	5539136	48	110	1819 1
BB82A-3A	311	40 17 13.2 S	145 22 49.1 E	362321	5539113	48	110	181912
BB82A-3A	312	40 17 14.0 S	145 22 48.0 E	362295	5539090	48	110	181924
BB82A-3A	313	40 17 14.7 S	145 22 46.9 E	362270	5539068	48	110	181935
BB82A-3A	314	40 17 15.4 S	145 22 45.8 E	362244	5539045	48	110	181946
BB82A-3A	315	40 17 16.1 S	145 22 44.7 E	362218	5539022	48	110	181957
BB82A-3A	316	40 17 16.8 S	145 22 43.6 E	362192	5539000	48	110	1820 8
BB82A-3A	317	40 17 17.5 S	145 22 42.5 E	362167	5538978	49	110	182020
BB82A-3A	318	40 17 18.2 S	145 22 41.4 E	362141	5538955	48	110	182031
BB82A-3A	319	40 17 18.9 S	145 22 40.3 E	362115	5538933	48	110	182042
BB82A-3A	320	40 17 19.7 S	145 22 39.2 E	362089	5538910	48	110	182053
BB82A-3A	321	40 17 20.4 S	145 22 38.0 E	362063	5538888	48	110	1821 4
BB82A-3A	322	40 17 21.1 S	145 22 36.9 E	362037	5538866	48	110	182115
BB82A-3A	323	40 17 21.8 S	145 22 35.8 E	362011	5538844	49	110	182127
BB82A-3A	324	40 17 22.5 S	145 22 34.6 E	361984	5538822	49	110	182138
BB82A-3A	325	40 17 23.2 S	145 22 33.5 E	361958	5538800	49	110	182149
BB82A-3A	326	40 17 23.9 S	145 22 32.4 E	361931	5538778	48	110	1822 0
BB82A-3A	327	40 17 24.6 S	145 22 31.2 E	361905	5538756	49	110	182211
BB82A-3A	328	40 17 25.2 S	145 22 30.1 E	361878	5538735	48	110	182223
BB82A-3A	329	40 17 25.9 S	145 22 28.9 E	361851	5538713	48	110	182234
BB82A-3A	330	40 17 26.6 S	145 22 27.8 E	361824	5538692	49	110	182245
BB82A-3A	331	40 17 27.2 S	145 22 26.6 E	361797	5538671	48	110	182256
BB82A-3A	332	40 17 27.9 S	145 22 25.4 E	361770	5538650	49	110	1823 7
BB82A-3A	333	40 17 28.6 S	145 22 24.3 E	361743	5538629	48	110	182319
BB82A-3A	334	40 17 29.2 S	145 22 23.1 E	361716	5538608	48	110	182330
BB82A-3A	335	40 17 29.9 S	145 22 22.0 E	361689	5538587	48	110	182341
BB82A-3A	336	40 17 30.5 S	145 22 20.8 E	361661	5538567	49	110	182352
BB82A-3A	337	40 17 31.2 S	145 22 19.6 E	361634	5538546	48	110	1824 3
BB82A-3A	338	40 17 31.8 S	145 22 18.4 E	361607	5538526	48	110	182414
BB82A-3A	339	40 17 32.5 S	145 22 17.2 E	361579	5538506	49	110	182426
BB82A-3A	340	40 17 33.1 S	145 22 16.0 E	361551	5538486	48	110	182437
BB82A-3A	341	40 17 33.7 S	145 22 14.8 E	361523	5538466	49	110	182448
BB82A-3A	342	40 17 34.4 S	145 22 13.6 E	361495	5538446	48	110	182459
BB82A-3A	343	40 17 35.0 S	145 22 12.4 E	361467	5538427	48	110	182510
BB82A-3A	344	40 17 35.6 S	145 22 11.2 E	361439	5538407	47	110	182522
BB82A-3A	345	40 17 36.2 S	145 22 10.0 E	361410	5538387	48	110	182533
BB82A-3A	346	40 17 36.8 S	145 22 08.8 E	361382	5538368	48	110	182544
BB82A-3A	347	40 17 37.5 S	145 22 07.6 E	361354	5538348	48	110	182555
BB82A-3A	348	40 17 38.1 S	145 22 06.4 E	361326	5538329	48	110	1826 6
BB82A-3A	349	40 17 38.7 S	145 22 05.2 E	361298	5538309	48	110	182618
BB82A-3A	350	40 17 39.3 S	145 22 04.0 E	361270	5538290	49	110	182629
BB82A-3A	351	40 17 39.9 S	145 22 02.8 E	361242	5538270	49	110	182640
BB82A-3A	352	40 17 40.5 S	145 22 01.6 E	361214	5538251	48	110	182651
BB82A-3A	353	40 17 41.1 S	145 22 00.4 E	361185	5538232	48	110	1827 2
BB82A-3A	354	40 17 41.7 S	145 21 59.1 E	361157	5538213	48	110	182713
BB82A-3A	355	40 17 42.3 S	145 21 57.9 E	361128	5538194	48	110	182725
BB82A-3A	356	40 17 42.9 S	145 21 56.7 E	361099	5538175	48	110	182736
BB82A-3A	357	40 17 43.5 S	145 21 55.4 E	361070	5538156	48	110	182747
BB82A-3A	358	40 17 44.1 S	145 21 54.2 E	361041	5538137	48	110	182758
BB82A-3A	359	40 17 44.7 S	145 21 52.9 E	361012	5538118	48	110	1828 9
BB82A-3A	360	40 17 45.3 S	145 21 51.7 E	360984	5538099	48	110	182821
BB82A-3A	361	40 17 45.9 S	145 21 50.5 E	360956	5538079	48	110	182832
BB82A-3A	362	40 17 46.5 S	145 21 49.3 E	360928	5538060	48	110	182843

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	1	39 57 37.8 S	145 04 53.4 E	336137	5574850	54	112	61952
BB82A-4	2	39 57 38.5 S	145 04 54.5 E	336163	5574829	54	112	620 3
BB82A-4	3	39 57 39.2 S	145 04 55.5 E	336188	5574807	54	112	62013
BB82A-4	4	39 57 39.9 S	145 04 56.6 E	336214	5574785	54	112	62023
BB82A-4	5	39 57 40.6 S	145 04 57.6 E	336239	5574764	54	112	62034
BB82A-4	6	39 57 41.3 S	145 04 58.7 E	336265	5574743	55	112	62044
BB82A-4	7	39 57 42.1 S	145 04 59.7 E	336290	5574721	54	112	62054
BB82A-4	8	39 57 42.8 S	145 05 00.8 E	336316	5574700	0	112	621 4
BB82A-4	9	39 57 43.5 S	145 05 01.8 E	336341	5574679	0	112	62115
BB82A-4	10	39 57 44.2 S	145 05 02.9 E	336367	5574658	0	112	62125
BB82A-4	11	39 57 44.9 S	145 05 04.0 E	336392	5574636	54	112	62135
BB82A-4	12	39 57 45.6 S	145 05 05.0 E	336418	5574615	54	112	62145
BB82A-4	13	39 57 46.3 S	145 05 06.1 E	336443	5574594	55	112	62155
BB82A-4	14	39 57 47.0 S	145 05 07.1 E	336469	5574573	55	112	622 6
BB82A-4	15	39 57 47.7 S	145 05 08.2 E	336494	5574551	54	112	62217
BB82A-4	16	39 57 48.4 S	145 05 09.2 E	336520	5574530	54	112	62227
BB82A-4	17	39 57 49.1 S	145 05 10.3 E	336545	5574509	55	112	62237
BB82A-4	18	39 57 49.8 S	145 05 11.4 E	336571	5574487	55	112	62247
BB82A-4	19	39 57 50.5 S	145 05 12.4 E	336596	5574466	55	112	62257
BB82A-4	20	39 57 51.2 S	145 05 13.5 E	336622	5574445	55	112	623 7
BB82A-4	21	39 57 52.0 S	145 05 14.5 E	336648	5574423	54	112	62317
BB82A-4	22	39 57 52.7 S	145 05 15.6 E	336673	5574402	55	112	62327
BB82A-4	23	39 57 53.4 S	145 05 16.7 E	336699	5574380	54	112	62337
BB82A-4	24	39 57 54.1 S	145 05 17.7 E	336724	5574359	55	112	62347
BB82A-4	25	39 57 54.8 S	145 05 18.8 E	336750	5574337	0	112	62357
BB82A-4	26	39 57 55.6 S	145 05 19.8 E	336775	5574315	0	112	624 7
BB82A-4	27	39 57 56.3 S	145 05 20.9 E	336801	5574294	0	112	62417
BB82A-4	28	39 57 57.0 S	145 05 21.9 E	336826	5574272	0	112	62428
BB82A-4	29	39 57 57.7 S	145 05 23.0 E	336852	5574250	0	112	62438
BB82A-4	30	39 57 58.4 S	145 05 24.1 E	336878	5574229	0	112	62448
BB82A-4	31	39 57 59.2 S	145 05 25.1 E	336903	5574207	0	112	62458
BB82A-4	32	39 57 59.9 S	145 05 26.2 E	336929	5574185	0	112	625 8
BB82A-4	33	39 58 00.6 S	145 05 27.2 E	336955	5574163	0	112	62518
BB82A-4	34	39 58 01.3 S	145 05 28.3 E	336980	5574141	0	112	62528
BB82A-4	35	39 58 02.1 S	145 05 29.4 E	337006	5574119	0	112	62539
BB82A-4	36	39 58 02.8 S	145 05 30.4 E	337031	5574097	0	112	62549
BB82A-4	37	39 58 03.5 S	145 05 31.5 E	337057	5574075	0	112	62559
BB82A-4	38	39 58 04.3 S	145 05 32.5 E	337083	5574053	54	112	626 9
BB82A-4	39	39 58 05.0 S	145 05 33.6 E	337108	5574031	54	112	62620
BB82A-4	40	39 58 05.7 S	145 05 34.6 E	337134	5574009	55	112	62630
BB82A-4	41	39 58 06.5 S	145 05 35.7 E	337159	5573987	55	112	62640
BB82A-4	42	39 58 07.2 S	145 05 36.8 E	337185	5573965	54	112	62650
BB82A-4	43	39 58 07.9 S	145 05 37.8 E	337211	5573943	54	112	627 0
BB82A-4	44	39 58 08.7 S	145 05 38.9 E	337236	5573921	55	112	62711
BB82A-4	45	39 58 09.4 S	145 05 39.9 E	337262	5573899	55	112	62721
BB82A-4	46	39 58 10.1 S	145 05 41.0 E	337287	5573877	53	112	62731
BB82A-4	47	39 58 10.9 S	145 05 42.0 E	337313	5573855	54	112	62742
BB82A-4	48	39 58 11.6 S	145 05 43.1 E	337339	5573833	55	112	62752
BB82A-4	49	39 58 12.3 S	145 05 44.2 E	337364	5573811	54	112	628 2
BB82A-4	50	39 58 13.0 S	145 05 45.2 E	337390	5573789	54	112	62813
BB82A-4	51	39 58 13.8 S	145 05 46.3 E	337415	5573767	54	112	62823
BB82A-4	52	39 58 14.5 S	145 05 47.3 E	337441	5573745	54	112	62833
BB82A-4	53	39 58 15.2 S	145 05 48.4 E	337466	5573723	55	112	62843
BB82A-4	54	39 58 16.0 S	145 05 49.5 E	337492	5573701	55	112	62854

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	55	39 58 16.7 S	145 05 50.5 E	337517	5573679	55	112	629 4
BB82A-4	56	39 58 17.4 S	145 05 51.6 E	337543	5573657	54	112	62915
BB82A-4	57	39 58 18.2 S	145 05 52.6 E	337568	5573635	54	112	62925
BB82A-4	58	39 58 18.9 S	145 05 53.6 E	337593	5573613	54	112	62935
BB82A-4	59	39 58 19.6 S	145 05 54.7 E	337619	5573591	55	112	62945
BB82A-4	60	39 58 20.4 S	145 05 55.7 E	337644	5573569	55	112	62955
BB82A-4	61	39 58 21.1 S	145 05 56.8 E	337670	5573547	54	112	630 6
BB82A-4	62	39 58 21.8 S	145 05 57.8 E	337695	5573525	54	112	63016
BB82A-4	63	39 58 22.5 S	145 05 58.9 E	337720	5573504	55	112	63026
BB82A-4	64	39 58 23.2 S	145 06 00.0 E	337746	5573482	55	112	63036
BB82A-4	65	39 58 24.0 S	145 06 01.0 E	337771	5573460	54	112	63046
BB82A-4	66	39 58 24.7 S	145 06 02.0 E	337796	5573438	55	112	63056
BB82A-4	67	39 58 25.4 S	145 06 03.1 E	337822	5573416	54	112	631 7
BB82A-4	68	39 58 26.1 S	145 06 04.1 E	337847	5573395	56	112	63117
BB82A-4	69	39 58 26.9 S	145 06 05.2 E	337872	5573373	55	112	63128
BB82A-4	70	39 58 27.6 S	145 06 06.2 E	337897	5573351	54	112	63138
BB82A-4	71	39 58 28.3 S	145 06 07.3 E	337923	5573329	56	112	63148
BB82A-4	72	39 58 29.1 S	145 06 08.3 E	337948	5573307	54	112	63158
BB82A-4	73	39 58 29.8 S	145 06 09.4 E	337974	5573286	55	112	632 8
BB82A-4	74	39 58 30.5 S	145 06 10.4 E	337998	5573264	55	112	63218
BB82A-4	75	39 58 31.2 S	145 06 11.5 E	338024	5573242	54	112	63228
BB82A-4	76	39 58 31.9 S	145 06 12.5 E	338049	5573220	55	112	63238
BB82A-4	77	39 58 32.6 S	145 06 13.6 E	338075	5573199	55	112	63248
BB82A-4	78	39 58 33.4 S	145 06 14.6 E	338100	5573177	54	112	63258
BB82A-4	79	39 58 34.1 S	145 06 15.6 E	338125	5573155	55	112	633 8
BB82A-4	80	39 58 34.8 S	145 06 16.7 E	338150	5573133	55	112	63319
BB82A-4	81	39 58 35.6 S	145 06 17.7 E	338176	5573111	55	112	63329
BB82A-4	82	39 58 36.3 S	145 06 18.8 E	338201	5573090	56	112	63340
BB82A-4	83	39 58 37.0 S	145 06 19.9 E	338227	5573068	56	112	63350
BB82A-4	84	39 58 37.7 S	145 06 20.9 E	338252	5573046	55	112	634 0
BB82A-4	85	39 58 38.5 S	145 06 22.0 E	338278	5573024	55	112	63410
BB82A-4	86	39 58 39.2 S	145 06 23.0 E	338303	5573002	55	112	63420
BB82A-4	87	39 58 39.9 S	145 06 24.1 E	338329	5572980	54	112	63430
BB82A-4	88	39 58 40.6 S	145 06 25.1 E	338354	5572958	56	112	63440
BB82A-4	89	39 58 41.4 S	145 06 26.2 E	338380	5572936	55	112	63451
BB82A-4	90	39 58 42.1 S	145 06 27.2 E	338405	5572914	55	112	635 1
BB82A-4	91	39 58 42.8 S	145 06 28.3 E	338431	5572892	55	112	63511
BB82A-4	92	39 58 43.6 S	145 06 29.4 E	338457	5572870	55	112	63522
BB82A-4	93	39 58 44.3 S	145 06 30.4 E	338482	5572848	54	112	63532
BB82A-4	94	39 58 45.0 S	145 06 31.5 E	338508	5572826	55	112	63542
BB82A-4	95	39 58 45.8 S	145 06 32.6 E	338534	5572804	55	112	63552
BB82A-4	96	39 58 46.5 S	145 06 33.6 E	338559	5572781	55	112	636 3
BB82A-4	97	39 58 47.3 S	145 06 34.7 E	338585	5572759	55	112	63613
BB82A-4	98	39 58 48.0 S	145 06 35.7 E	338611	5572737	55	112	63623
BB82A-4	99	39 58 48.7 S	145 06 36.8 E	338637	5572715	55	112	63633
BB82A-4	100	39 58 49.4 S	145 06 37.8 E	338662	5572693	55	112	63643
BB82A-4	101	39 58 50.2 S	145 06 38.9 E	338688	5572671	55	112	63653
BB82A-4	102	39 58 50.9 S	145 06 40.0 E	338714	5572649	55	112	637 4
BB82A-4	103	39 58 51.7 S	145 06 41.1 E	338740	5572626	55	112	63714
BB82A-4	104	39 58 52.4 S	145 06 42.1 E	338765	5572604	55	112	63724
BB82A-4	105	39 58 53.1 S	145 06 43.2 E	338791	5572582	55	112	63734
BB82A-4	106	39 58 53.9 S	145 06 44.3 E	338817	5572560	55	112	63745
BB82A-4	107	39 58 54.6 S	145 06 45.3 E	338843	5572538	56	112	63755
BB82A-4	108	39 58 55.3 S	145 06 46.4 E	338868	5572516	56	112	638 5

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	109	39 58 56.1 S	145 06 47.4 E	338894	5572494	56	112	63815
BB82A-4	110	39 58 56.8 S	145 06 48.5 E	338920	5572472	55	112	63825
BB82A-4	111	39 58 57.5 S	145 06 49.6 E	338945	5572450	55	112	63835
BB82A-4	112	39 58 58.3 S	145 06 50.6 E	338971	5572428	56	112	63846
BB82A-4	113	39 58 59.0 S	145 06 51.7 E	338997	5572406	55	112	63856
BB82A-4	114	39 58 59.7 S	145 06 52.7 E	339022	5572385	55	112	639 6
BB82A-4	115	39 59 00.4 S	145 06 53.8 E	339048	5572363	56	112	63916
BB82A-4	116	39 59 01.1 S	145 06 54.9 E	339073	5572341	55	112	63926
BB82A-4	117	39 59 01.8 S	145 06 55.9 E	339099	5572320	55	112	63937
BB82A-4	118	39 59 02.6 S	145 06 57.0 E	339124	5572298	55	112	63947
BB82A-4	119	39 59 03.3 S	145 06 58.0 E	339150	5572277	56	112	63957
BB82A-4	120	39 59 04.0 S	145 06 59.1 E	339175	5572255	56	112	640 7
BB82A-4	121	39 59 04.7 S	145 07 00.2 E	339201	5572234	55	112	64017
BB82A-4	122	39 59 05.4 S	145 07 01.2 E	339226	5572213	56	112	64027
BB82A-4	123	39 59 06.1 S	145 07 02.2 E	339251	5572191	55	112	64038
BB82A-4	124	39 59 06.8 S	145 07 03.3 E	339277	5572170	55	112	64048
BB82A-4	125	39 59 07.5 S	145 07 04.3 E	339301	5572149	55	112	64058
BB82A-4	126	39 59 08.2 S	145 07 05.4 E	339327	5572128	56	112	641 9
BB82A-4	127	39 59 08.9 S	145 07 06.4 E	339352	5572107	56	112	64119
BB82A-4	128	39 59 09.6 S	145 07 07.4 E	339376	5572086	55	112	64129
BB82A-4	129	39 59 10.3 S	145 07 08.5 E	339402	5572065	56	112	64139
BB82A-4	130	39 59 11.0 S	145 07 09.5 E	339426	5572045	55	112	64149
BB82A-4	131	39 59 11.7 S	145 07 10.5 E	339451	5572024	55	112	64159
BB82A-4	132	39 59 12.4 S	145 07 11.5 E	339475	5572003	56	112	642 8
BB82A-4	133	39 59 13.0 S	145 07 12.5 E	339500	5571983	56	112	64218
BB82A-4	134	39 59 13.7 S	145 07 13.6 E	339525	5571963	55	112	64227
BB82A-4	135	39 59 14.4 S	145 07 14.6 E	339549	5571942	55	112	64237
BB82A-4	136	39 59 15.1 S	145 07 15.6 E	339574	5571922	56	112	64246
BB82A-4	137	39 59 15.8 S	145 07 16.6 E	339599	5571901	56	112	64256
BB82A-4	138	39 59 16.5 S	145 07 17.6 E	339623	5571880	55	112	643 5
BB82A-4	139	39 59 17.1 S	145 07 18.6 E	339647	5571860	55	112	64315
BB82A-4	140	39 59 17.8 S	145 07 19.7 E	339672	5571840	54	112	64324
BB82A-4	141	39 59 18.5 S	145 07 20.6 E	339696	5571819	55	112	64334
BB82A-4	142	39 59 19.2 S	145 07 21.7 E	339721	5571799	55	112	64343
BB82A-4	143	39 59 19.8 S	145 07 22.7 E	339745	5571779	55	112	64353
BB82A-4	144	39 59 20.5 S	145 07 23.7 E	339769	5571758	55	112	644 2
BB82A-4	145	39 59 21.2 S	145 07 24.7 E	339794	5571738	55	112	64412
BB82A-4	146	39 59 21.9 S	145 07 25.7 E	339818	5571717	55	112	64421
BB82A-4	147	39 59 22.5 S	145 07 26.7 E	339842	5571697	55	112	64431
BB82A-4	148	39 59 23.2 S	145 07 27.7 E	339867	5571677	56	112	64440
BB82A-4	149	39 59 23.9 S	145 07 28.7 E	339891	5571656	55	112	64450
BB82A-4	150	39 59 24.6 S	145 07 29.7 E	339915	5571636	56	112	64459
BB82A-4	151	39 59 25.3 S	145 07 30.7 E	339940	5571615	56	112	645 9
BB82A-4	152	39 59 26.0 S	145 07 31.7 E	339964	5571594	55	112	64518
BB82A-4	153	39 59 26.6 S	145 07 32.8 E	339989	5571574	55	112	64528
BB82A-4	154	39 59 27.3 S	145 07 33.8 E	340013	5571553	55	112	64537
BB82A-4	155	39 59 28.0 S	145 07 34.8 E	340038	5571532	55	112	64547
BB82A-4	156	39 59 28.7 S	145 07 35.8 E	340062	5571511	55	112	64556
BB82A-4	157	39 59 29.4 S	145 07 36.8 E	340087	5571491	55	112	646 6
BB82A-4	158	39 59 30.1 S	145 07 37.9 E	340112	5571470	56	112	64615
BB82A-4	159	39 59 30.8 S	145 07 38.9 E	340136	5571449	55	112	64625
BB82A-4	160	39 59 31.5 S	145 07 39.9 E	340162	5571427	55	112	64634
BB82A-4	161	39 59 32.2 S	145 07 40.9 E	340186	5571406	56	112	64644
BB82A-4	162	39 59 32.9 S	145 07 42.0 E	340212	5571385	56	112	64653

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	163	39 59 33.6 S	145 07 43.0 E	340236	5571364	56	112	647 3
BB82A-4	164	39 59 34.3 S	145 07 44.1 E	340262	5571342	55	112	64712
BB82A-4	165	39 59 35.0 S	145 07 45.1 E	340286	5571321	56	112	64722
BB82A-4	166	39 59 35.8 S	145 07 46.1 E	340312	5571299	56	112	64731
BB82A-4	167	39 59 36.5 S	145 07 47.1 E	340336	5571278	56	112	64741
BB82A-4	168	39 59 37.2 S	145 07 48.2 E	340362	5571256	57	112	64750
BB82A-4	169	39 59 37.9 S	145 07 49.2 E	340387	5571234	56	112	648 0
BB82A-4	170	39 59 38.6 S	145 07 50.3 E	340413	5571213	56	112	64816
BB82A-4	171	39 59 39.4 S	145 07 51.4 E	340438	5571191	56	112	64826
BB82A-4	172	39 59 40.1 S	145 07 52.4 E	340464	5571169	56	112	64836
BB82A-4	173	39 59 40.8 S	145 07 53.5 E	340490	5571147	55	112	64846
BB82A-4	174	39 59 41.5 S	145 07 54.5 E	340515	5571125	55	112	64856
BB82A-4	175	39 59 42.3 S	145 07 55.6 E	340541	5571103	57	112	649 7
BB82A-4	176	39 59 43.0 S	145 07 56.7 E	340567	5571081	56	112	64917
BB82A-4	177	39 59 43.7 S	145 07 57.8 E	340593	5571059	55	112	64928
BB82A-4	178	39 59 44.5 S	145 07 58.9 E	340619	5571037	55	112	64940
BB82A-4	179	39 59 45.2 S	145 07 59.9 E	340645	5571015	56	112	64950
BB82A-4	180	39 59 45.9 S	145 08 01.0 E	340671	5570993	56	112	650 0
BB82A-4	181	39 59 46.7 S	145 08 02.1 E	340697	5570971	55	112	65010
BB82A-4	182	39 59 47.4 S	145 08 03.2 E	340723	5570948	55	112	65020
BB82A-4	183	39 59 48.2 S	145 08 04.2 E	340749	5570926	56	112	65030
BB82A-4	184	39 59 48.9 S	145 08 05.4 E	340776	5570904	56	112	65040
BB82A-4	185	39 59 49.6 S	145 08 06.4 E	340802	5570882	55	112	65050
BB82A-4	186	39 59 50.4 S	145 08 07.5 E	340828	5570860	56	112	651 0
BB82A-4	187	39 59 51.1 S	145 08 08.6 E	340854	5570838	56	112	65110
BB82A-4	188	39 59 51.8 S	145 08 09.7 E	340880	5570816	57	112	65120
BB82A-4	189	39 59 52.5 S	145 08 10.8 E	340907	5570794	56	112	65130
BB82A-4	190	39 59 53.3 S	145 08 11.9 E	340933	5570772	56	112	65140
BB82A-4	191	39 59 54.0 S	145 08 12.9 E	340959	5570750	56	112	65150
BB82A-4	192	39 59 54.7 S	145 08 14.0 E	340985	5570728	57	112	652 1
BB82A-4	193	39 59 55.5 S	145 08 15.1 E	341011	5570706	55	112	65211
BB82A-4	194	39 59 56.2 S	145 08 16.2 E	341038	5570684	56	112	65221
BB82A-4	195	39 59 56.9 S	145 08 17.3 E	341064	5570662	56	112	65231
BB82A-4	196	39 59 57.7 S	145 08 18.4 E	341090	5570640	55	112	65241
BB82A-4	197	39 59 58.4 S	145 08 19.4 E	341116	5570618	56	112	65251
BB82A-4	198	39 59 59.1 S	145 08 20.5 E	341142	5570596	56	112	653 1
BB82A-4	199	39 59 59.9 S	145 08 21.6 E	341168	5570574	55	112	65312
BB82A-4	200	40 00 00.6 S	145 08 22.7 E	341194	5570552	55	112	65322
BB82A-4	201	40 00 01.3 S	145 08 23.7 E	341220	5570530	55	112	65332
BB82A-4	202	40 00 02.0 S	145 08 24.8 E	341246	5570509	54	112	65342
BB82A-4	203	40 00 02.7 S	145 08 25.9 E	341272	5570487	56	112	65352
BB82A-4	204	40 00 03.5 S	145 08 26.9 E	341297	5570465	55	112	654 2
BB82A-4	205	40 00 04.2 S	145 08 28.0 E	341323	5570443	55	112	65413
BB82A-4	206	40 00 04.9 S	145 08 29.1 E	341349	5570422	56	112	65423
BB82A-4	207	40 00 05.6 S	145 08 30.1 E	341374	5570400	56	112	65433
BB82A-4	208	40 00 06.4 S	145 08 31.2 E	341400	5570378	56	112	65443
BB82A-4	209	40 00 07.1 S	145 08 32.3 E	341426	5570357	56	112	65453
BB82A-4	210	40 00 07.8 S	145 08 33.3 E	341451	5570335	55	112	655 3
BB82A-4	211	40 00 08.5 S	145 08 34.4 E	341477	5570313	56	112	65513
BB82A-4	212	40 00 09.2 S	145 08 35.4 E	341502	5570292	56	112	65523
BB82A-4	213	40 00 10.0 S	145 08 36.5 E	341528	5570270	56	112	65533
BB82A-4	214	40 00 10.7 S	145 08 37.5 E	341553	5570248	55	112	65543
BB82A-4	215	40 00 11.4 S	145 08 38.6 E	341579	5570227	56	112	65553
BB82A-4	216	40 00 12.1 S	145 08 39.6 E	341604	5570205	55	112	656 3

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	217	40 00 12.8 S	145 08 40.7 E	341629	5570183	56	112	65613
BB82A-4	218	40 00 13.5 S	145 08 41.8 E	341655	5570162	56	112	65623
BB82A-4	219	40 00 14.3 S	145 08 42.8 E	341680	5570140	55	112	65633
BB82A-4	220	40 00 15.0 S	145 08 43.8 E	341705	5570118	55	112	65643
BB82A-4	221	40 00 15.7 S	145 08 44.9 E	341731	5570096	55	112	65653
BB82A-4	222	40 00 16.5 S	145 08 45.9 E	341755	5570074	55	112	657 3
BB82A-4	223	40 00 17.2 S	145 08 46.9 E	341780	5570052	55	112	65713
BB82A-4	224	40 00 17.9 S	145 08 48.0 E	341806	5570030	56	112	65723
BB82A-4	225	40 00 18.6 S	145 08 49.0 E	341831	5570008	55	112	65734
BB82A-4	226	40 00 19.4 S	145 08 50.1 E	341857	5569986	56	112	65744
BB82A-4	227	40 00 20.1 S	145 08 51.1 E	341881	5569964	56	112	65754
BB82A-4	228	40 00 20.8 S	145 08 52.2 E	341907	5569942	55	112	658 4
BB82A-4	229	40 00 21.6 S	145 08 53.2 E	341932	5569920	56	112	65814
BB82A-4	230	40 00 22.3 S	145 08 54.2 E	341956	5569898	56	112	65824
BB82A-4	231	40 00 23.0 S	145 08 55.3 E	341982	5569876	55	112	65834
BB82A-4	232	40 00 23.8 S	145 08 56.3 E	342007	5569854	56	112	65844
BB82A-4	233	40 00 24.5 S	145 08 57.4 E	342033	5569832	55	112	65854
BB82A-4	234	40 00 25.3 S	145 08 58.4 E	342057	5569809	56	112	659 4
BB82A-4	235	40 00 26.0 S	145 08 59.5 E	342083	5569787	55	112	65914
BB82A-4	236	40 00 26.7 S	145 09 00.5 E	342108	5569765	55	112	65924
BB82A-4	237	40 00 27.4 S	145 09 01.5 E	342132	5569743	55	112	65934
BB82A-4	238	40 00 28.2 S	145 09 02.6 E	342158	5569720	55	112	65944
BB82A-4	239	40 00 28.9 S	145 09 03.6 E	342183	5569698	55	112	65954
BB82A-4	240	40 00 29.7 S	145 09 04.7 E	342209	5569676	55	112	7 0 4
BB82A-4	241	40 00 30.4 S	145 09 05.7 E	342233	5569653	55	112	7 014
BB82A-4	242	40 00 31.2 S	145 09 06.7 E	342259	5569631	56	112	7 024
BB82A-4	243	40 00 31.9 S	145 09 07.8 E	342284	5569609	55	112	7 034
BB82A-4	244	40 00 32.7 S	145 09 08.9 E	342310	5569586	56	112	7 044
BB82A-4	245	40 00 33.4 S	145 09 09.9 E	342334	5569564	56	112	7 054
BB82A-4	246	40 00 34.1 S	145 09 10.9 E	342360	5569542	56	112	7 1 4
BB82A-4	247	40 00 34.9 S	145 09 12.0 E	342385	5569519	57	112	7 114
BB82A-4	248	40 00 35.6 S	145 09 13.0 E	342411	5569497	56	112	7 124
BB82A-4	249	40 00 36.3 S	145 09 14.1 E	342436	5569475	56	112	7 134
BB82A-4	250	40 00 37.1 S	145 09 15.1 E	342461	5569452	55	112	7 144
BB82A-4	251	40 00 37.8 S	145 09 16.2 E	342487	5569430	55	112	7 154
BB82A-4	252	40 00 38.6 S	145 09 17.2 E	342512	5569408	56	112	7 2 4
BB82A-4	253	40 00 39.3 S	145 09 18.3 E	342537	5569386	56	112	7 214
BB82A-4	254	40 00 40.1 S	145 09 19.3 E	342563	5569363	56	112	7 224
BB82A-4	255	40 00 40.8 S	145 09 20.4 E	342588	5569341	55	112	7 234
BB82A-4	256	40 00 41.5 S	145 09 21.4 E	342613	5569319	55	112	7 244
BB82A-4	257	40 00 42.2 S	145 09 22.4 E	342638	5569297	56	112	7 254
BB82A-4	258	40 00 43.0 S	145 09 23.5 E	342664	5569275	55	112	7 3 4
BB82A-4	259	40 00 43.7 S	145 09 24.5 E	342689	5569253	55	112	7 314
BB82A-4	260	40 00 44.4 S	145 09 25.6 E	342715	5569231	55	112	7 324
BB82A-4	261	40 00 45.2 S	145 09 26.7 E	342740	5569209	56	112	7 334
BB82A-4	262	40 00 45.9 S	145 09 27.7 E	342766	5569187	56	112	7 344
BB82A-4	263	40 00 46.6 S	145 09 28.8 E	342791	5569166	55	112	7 354
BB82A-4	264	40 00 47.3 S	145 09 29.8 E	342817	5569144	55	112	7 4 4
BB82A-4	265	40 00 48.1 S	145 09 30.9 E	342842	5569122	57	112	7 414
BB82A-4	266	40 00 48.7 S	145 09 32.0 E	342868	5569101	56	112	7 424
BB82A-4	267	40 00 49.5 S	145 09 33.0 E	342893	5569079	54	112	7 434
BB82A-4	268	40 00 50.2 S	145 09 34.1 E	342919	5569057	55	112	7 444
BB82A-4	269	40 00 50.9 S	145 09 35.2 E	342945	5569036	56	112	7 454
BB82A-4	270	40 00 51.6 S	145 09 36.2 E	342970	5569014	55	112	7 5 4

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	271	40 00 52.3 S	145 09 37.3 E	342996	5568993	56	112	7 514
BB82A-4	272	40 00 53.1 S	145 09 38.3 E	343022	5568971	55	112	7 524
BB82A-4	273	40 00 53.8 S	145 09 39.4 E	343047	5568950	55	112	7 534
BB82A-4	274	40 00 54.5 S	145 09 40.5 E	343073	5568928	44	112	7 544
BB82A-4	275	40 00 55.2 S	145 09 41.5 E	343099	5568907	56	112	7 554
BB82A-4	276	40 00 55.9 S	145 09 42.6 E	343124	5568885	55	112	7 6 4
BB82A-4	277	40 00 56.6 S	145 09 43.6 E	343150	5568864	55	112	7 614
BB82A-4	278	40 00 57.4 S	145 09 44.7 E	343176	5568842	55	112	7 624
BB82A-4	279	40 00 58.1 S	145 09 45.8 E	343202	5568821	56	112	7 634
BB82A-4	280	40 00 58.7 S	145 09 46.8 E	343227	5568800	55	112	7 644
BB82A-4	281	40 00 59.5 S	145 09 47.9 E	343253	5568778	55	112	7 654
BB82A-4	282	40 01 00.2 S	145 09 49.0 E	343279	5568757	56	112	7 7 4
BB82A-4	283	40 01 00.9 S	145 09 50.1 E	343305	5568735	55	112	7 714
BB82A-4	284	40 01 01.6 S	145 09 51.1 E	343331	5568714	55	112	7 724
BB82A-4	285	40 01 02.3 S	145 09 52.2 E	343357	5568692	56	112	7 734
BB82A-4	286	40 01 03.0 S	145 09 53.3 E	343383	5568671	56	112	7 744
BB82A-4	287	40 01 03.8 S	145 09 54.4 E	343409	5568649	55	112	7 754
BB82A-4	288	40 01 04.5 S	145 09 55.5 E	343435	5568628	55	112	7 8 4
BB82A-4	289	40 01 05.2 S	145 09 56.5 E	343461	5568606	55	112	7 814
BB82A-4	290	40 01 05.9 S	145 09 57.7 E	343488	5568585	55	112	7 824
BB82A-4	291	40 01 06.6 S	145 09 58.7 E	343514	5568563	55	112	7 834
BB82A-4	292	40 01 07.3 S	145 09 59.8 E	343540	5568542	56	112	7 844
BB82A-4	293	40 01 08.1 S	145 10 00.9 E	343566	5568520	56	112	7 854
BB82A-4	294	40 01 08.7 S	145 10 02.0 E	343592	5568499	55	112	7 9 4
BB82A-4	295	40 01 09.5 S	145 10 03.1 E	343619	5568477	56	112	7 914
BB82A-4	296	40 01 10.2 S	145 10 04.2 E	343645	5568455	55	112	7 924
BB82A-4	297	40 01 10.9 S	145 10 05.2 E	343671	5568434	56	112	7 934
BB82A-4	298	40 01 11.6 S	145 10 06.3 E	343697	5568412	56	112	7 944
BB82A-4	299	40 01 12.4 S	145 10 07.4 E	343724	5568390	55	112	7 954
BB82A-4	300	40 01 13.1 S	145 10 08.5 E	343750	5568369	55	112	710 4
BB82A-4	301	40 01 13.8 S	145 10 09.6 E	343776	5568347	55	112	71014
BB82A-4	302	40 01 14.5 S	145 10 10.7 E	343802	5568325	56	112	71024
BB82A-4	303	40 01 15.2 S	145 10 11.7 E	343828	5568304	55	112	71034
BB82A-4	304	40 01 16.0 S	145 10 12.9 E	343855	5568282	55	112	71044
BB82A-4	305	40 01 16.7 S	145 10 13.9 E	343881	5568261	55	112	71054
BB82A-4	306	40 01 17.4 S	145 10 15.0 E	343907	5568239	48	112	711 4
BB82A-4	307	40 01 18.1 S	145 10 16.1 E	343933	5568217	56	112	71114
BB82A-4	308	40 01 18.8 S	145 10 17.2 E	343959	5568196	56	112	71124
BB82A-4	309	40 01 19.5 S	145 10 18.3 E	343985	5568174	56	112	71134
BB82A-4	310	40 01 20.2 S	145 10 19.3 E	344011	5568153	56	112	71144
BB82A-4	311	40 01 21.0 S	145 10 20.4 E	344037	5568131	56	112	71154
BB82A-4	312	40 01 21.7 S	145 10 21.4 E	344062	5568110	55	112	712 4
BB82A-4	313	40 01 22.4 S	145 10 22.5 E	344088	5568088	55	112	71214
BB82A-4	314	40 01 23.1 S	145 10 23.6 E	344114	5568067	56	112	71224
BB82A-4	315	40 01 23.8 S	145 10 24.6 E	344139	5568046	56	112	71234
BB82A-4	316	40 01 24.5 S	145 10 25.7 E	344165	5568024	55	112	71244
BB82A-4	317	40 01 25.2 S	145 10 26.7 E	344190	5568003	56	112	71254
BB82A-4	318	40 01 25.9 S	145 10 27.8 E	344216	5567982	57	112	713 4
BB82A-4	319	40 01 26.6 S	145 10 28.9 E	344241	5567961	55	112	71313
BB82A-4	320	40 01 27.3 S	145 10 29.9 E	344267	5567940	55	112	71323
BB82A-4	321	40 01 28.0 S	145 10 30.9 E	344291	5567919	56	112	71332
BB82A-4	322	40 01 28.7 S	145 10 32.0 E	344317	5567898	55	112	71341
BB82A-4	323	40 01 29.4 S	145 10 33.0 E	344341	5567877	56	112	71351
BB82A-4	324	40 01 30.1 S	145 10 34.1 E	344367	5567856	56	112	714 0

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	325	40 01 30.8 S	145 10 35.1 E	344391	5567835	55	112	71410
BB82A-4	326	40 01 31.5 S	145 10 36.1 E	344416	5567815	56	112	71419
BB82A-4	327	40 01 32.2 S	145 10 37.1 E	344440	5567794	56	112	71428
BB82A-4	328	40 01 32.9 S	145 10 38.1 E	344465	5567773	56	112	71438
BB82A-4	329	40 01 33.5 S	145 10 39.1 E	344489	5567753	56	112	71447
BB82A-4	330	40 01 34.2 S	145 10 40.1 E	344513	5567733	55	112	71457
BB82A-4	331	40 01 34.9 S	145 10 41.1 E	344537	5567712	56	112	715 6
BB82A-4	332	40 01 35.6 S	145 10 42.2 E	344562	5567691	55	112	71515
BB82A-4	333	40 01 36.3 S	145 10 43.2 E	344586	5567671	55	112	71525
BB82A-4	334	40 01 36.9 S	145 10 44.2 E	344610	5567651	56	112	71534
BB82A-4	335	40 01 37.6 S	145 10 45.1 E	344634	5567630	56	112	71544
BB82A-4	336	40 01 38.3 S	145 10 46.1 E	344657	5567610	56	112	71553
BB82A-4	337	40 01 38.9 S	145 10 47.1 E	344681	5567590	56	112	716 2
BB82A-4	338	40 01 39.6 S	145 10 48.1 E	344705	5567570	54	112	71612
BB82A-4	339	40 01 40.3 S	145 10 49.1 E	344729	5567549	56	112	71621
BB82A-4	340	40 01 41.0 S	145 10 50.0 E	344752	5567529	55	112	71630
BB82A-4	341	40 01 41.6 S	145 10 51.0 E	344776	5567509	56	112	71640
BB82A-4	342	40 01 42.3 S	145 10 52.0 E	344800	5567489	56	112	71649
BB82A-4	343	40 01 43.0 S	145 10 53.0 E	344823	5567468	55	112	71659
BB82A-4	344	40 01 43.7 S	145 10 54.0 E	344847	5567448	56	112	717 8
BB82A-4	345	40 01 44.3 S	145 10 54.9 E	344870	5567428	56	112	71717
BB82A-4	346	40 01 45.0 S	145 10 55.9 E	344894	5567408	55	112	71727
BB82A-4	347	40 01 45.6 S	145 10 56.9 E	344917	5567388	55	112	71736
BB82A-4	348	40 01 46.3 S	145 10 57.9 E	344941	5567367	56	112	71746
BB82A-4	349	40 01 47.0 S	145 10 58.9 E	344965	5567347	56	112	71755
BB82A-4	350	40 01 47.7 S	145 10 59.8 E	344988	5567326	56	112	718 4
BB82A-4	351	40 01 48.4 S	145 11 00.8 E	345012	5567306	55	112	71814
BB82A-4	352	40 01 49.1 S	145 11 01.8 E	345036	5567285	56	112	71823
BB82A-4	353	40 01 49.8 S	145 11 02.8 E	345059	5567264	56	112	71833
BB82A-4	354	40 01 50.5 S	145 11 03.8 E	345083	5567243	56	112	71842
BB82A-4	355	40 01 51.1 S	145 11 04.7 E	345107	5567223	55	112	71851
BB82A-4	356	40 01 51.8 S	145 11 05.7 E	345131	5567202	55	112	719 1
BB82A-4	357	40 01 52.5 S	145 11 06.7 E	345155	5567181	56	112	71910
BB82A-4	358	40 01 53.2 S	145 11 07.7 E	345179	5567160	55	112	71920
BB82A-4	359	40 01 53.9 S	145 11 08.7 E	345203	5567139	56	112	71929
BB82A-4	360	40 01 54.6 S	145 11 09.7 E	345227	5567117	56	112	71938
BB82A-4	361	40 01 55.3 S	145 11 10.7 E	345251	5567096	55	112	71948
BB82A-4	362	40 01 56.0 S	145 11 11.7 E	345276	5567075	56	112	71957
BB82A-4	363	40 01 56.8 S	145 11 12.7 E	345300	5567053	55	112	720 6
BB82A-4	364	40 01 57.5 S	145 11 13.8 E	345325	5567031	55	112	72016
BB82A-4	365	40 01 58.2 S	145 11 14.8 E	345349	5567010	56	112	72025
BB82A-4	366	40 01 58.9 S	145 11 15.8 E	345374	5566988	55	112	72035
BB82A-4	367	40 01 59.6 S	145 11 16.8 E	345398	5566966	56	112	72044
BB82A-4	368	40 02 00.4 S	145 11 17.9 E	345424	5566944	56	112	72053
BB82A-4	369	40 02 01.1 S	145 11 18.9 E	345448	5566922	56	112	721 3
BB82A-4	370	40 02 01.8 S	145 11 19.9 E	345474	5566900	55	112	72112
BB82A-4	371	40 02 02.6 S	145 11 20.9 E	345498	5566878	55	112	72122
BB82A-4	372	40 02 03.3 S	145 11 22.0 E	345524	5566856	56	112	72131
BB82A-4	373	40 02 04.0 S	145 11 23.0 E	345548	5566834	56	112	72140
BB82A-4	374	40 02 04.8 S	145 11 24.1 E	345574	5566811	56	112	72155
BB82A-4	375	40 02 05.5 S	145 11 25.1 E	345599	5566789	56	112	722 5
BB82A-4	376	40 02 06.2 S	145 11 26.2 E	345625	5566767	56	112	72215
BB82A-4	377	40 02 07.0 S	145 11 27.2 E	345650	5566744	55	112	72225
BB82A-4	378	40 02 07.7 S	145 11 28.3 E	345675	5566722	55	112	72235

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	379	40 02 08.5 S	145 11 29.3 E	345701	5566699	55	112	72245
BB82A-4	380	40 02 09.2 S	145 11 30.4 E	345726	5566677	55	112	72255
BB82A-4	381	40 02 10.0 S	145 11 31.5 E	345752	5566654	56	112	723 5
BB82A-4	382	40 02 10.7 S	145 11 32.5 E	345778	5566632	56	112	72315
BB82A-4	383	40 02 11.5 S	145 11 33.6 E	345803	5566609	55	112	72325
BB82A-4	384	40 02 12.2 S	145 11 34.6 E	345829	5566586	56	112	72335
BB82A-4	385	40 02 13.0 S	145 11 35.7 E	345855	5566564	56	112	72345
BB82A-4	386	40 02 13.7 S	145 11 36.8 E	345881	5566541	56	112	72355
BB82A-4	387	40 02 14.5 S	145 11 37.8 E	345906	5566519	55	112	724 5
BB82A-4	388	40 02 15.2 S	145 11 38.9 E	345932	5566496	56	112	72415
BB82A-4	389	40 02 16.0 S	145 11 40.0 E	345958	5566473	56	112	72425
BB82A-4	390	40 02 16.7 S	145 11 41.1 E	345984	5566451	55	112	72435
BB82A-4	391	40 02 17.5 S	145 11 42.1 E	346010	5566428	55	112	72445
BB82A-4	392	40 02 18.2 S	145 11 43.2 E	346035	5566406	56	112	72455
BB82A-4	393	40 02 19.0 S	145 11 44.3 E	346061	5566383	56	112	725 5
BB82A-4	394	40 02 19.7 S	145 11 45.3 E	346087	5566361	56	112	72515
BB82A-4	395	40 02 20.4 S	145 11 46.4 E	346113	5566339	56	112	72525
BB82A-4	396	40 02 21.2 S	145 11 47.5 E	346139	5566316	56	112	72535
BB82A-4	397	40 02 21.9 S	145 11 48.5 E	346164	5566294	56	112	72545
BB82A-4	398	40 02 22.7 S	145 11 49.6 E	346190	5566272	55	112	72555
BB82A-4	399	40 02 23.4 S	145 11 50.7 E	346216	5566249	56	112	726 5
BB82A-4	400	40 02 24.2 S	145 11 51.8 E	346242	5566227	55	112	72615
BB82A-4	401	40 02 24.9 S	145 11 52.8 E	346267	5566205	55	112	72625
BB82A-4	402	40 02 25.6 S	145 11 53.9 E	346293	5566183	55	112	72635
BB82A-4	403	40 02 26.3 S	145 11 55.0 E	346319	5566161	56	112	72645
BB82A-4	404	40 02 27.1 S	145 11 56.0 E	346345	5566139	55	112	72655
BB82A-4	405	40 02 27.8 S	145 11 57.1 E	346370	5566117	56	112	727 5
BB82A-4	406	40 02 28.5 S	145 11 58.1 E	346396	5566095	55	112	72715
BB82A-4	407	40 02 29.3 S	145 11 59.2 E	346422	5566073	56	112	72725
BB82A-4	408	40 02 30.0 S	145 12 00.3 E	346448	5566051	56	112	72735
BB82A-4	409	40 02 30.7 S	145 12 01.3 E	346473	5566029	55	112	72745
BB82A-4	410	40 02 31.5 S	145 12 02.4 E	346499	5566007	56	112	72755
BB82A-4	411	40 02 32.2 S	145 12 03.5 E	346525	5565985	55	112	728 5
BB82A-4	412	40 02 32.9 S	145 12 04.6 E	346551	5565963	56	112	72815
BB82A-4	413	40 02 33.6 S	145 12 05.6 E	346576	5565941	56	112	72825
BB82A-4	414	40 02 34.3 S	145 12 06.7 E	346602	5565920	56	112	72835
BB82A-4	415	40 02 35.1 S	145 12 07.8 E	346628	5565898	55	112	72845
BB82A-4	416	40 02 35.8 S	145 12 08.8 E	346654	5565876	56	112	72855
BB82A-4	417	40 02 36.5 S	145 12 09.9 E	346680	5565854	55	112	729 5
BB82A-4	418	40 02 37.3 S	145 12 11.0 E	346706	5565832	55	112	72915
BB82A-4	419	40 02 38.0 S	145 12 12.1 E	346732	5565810	56	112	72925
BB82A-4	420	40 02 38.7 S	145 12 13.2 E	346758	5565789	56	112	72935
BB82A-4	421	40 02 39.4 S	145 12 14.2 E	346784	5565767	55	112	72945
BB82A-4	422	40 02 40.2 S	145 12 15.3 E	346810	5565745	55	112	72955
BB82A-4	423	40 02 40.9 S	145 12 16.4 E	346836	5565723	56	112	730 5
BB82A-4	424	40 02 41.6 S	145 12 17.5 E	346862	5565701	56	112	73015
BB82A-4	425	40 02 42.3 S	145 12 18.6 E	346889	5565679	56	112	73025
BB82A-4	426	40 02 43.0 S	145 12 19.7 E	346915	5565658	56	112	73035
BB82A-4	427	40 02 43.8 S	145 12 20.7 E	346941	5565636	56	112	73045
BB82A-4	428	40 02 44.5 S	145 12 21.8 E	346967	5565614	56	112	73055
BB82A-4	429	40 02 45.2 S	145 12 22.9 E	346994	5565592	56	112	731 5
BB82A-4	430	40 02 46.0 S	145 12 24.0 E	347020	5565570	55	112	73115
BB82A-4	431	40 02 46.7 S	145 12 25.1 E	347046	5565548	56	112	73125
BB82A-4	432	40 02 47.4 S	145 12 26.2 E	347073	5565526	56	112	73135

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	433	40 02 48.2 S	145 12 27.3 E	347099	5565504	55	112	73145
BB82A-4	434	40 02 48.9 S	145 12 28.4 E	347126	5565482	55	112	73155
BB82A-4	435	40 02 49.6 S	145 12 29.5 E	347152	5565460	56	112	732 5
BB82A-4	436	40 02 50.3 S	145 12 30.6 E	347179	5565438	56	112	73215
BB82A-4	437	40 02 51.1 S	145 12 31.7 E	347205	5565416	56	112	73225
BB82A-4	438	40 02 51.8 S	145 12 32.8 E	347232	5565394	55	112	73235
BB82A-4	439	40 02 52.5 S	145 12 33.9 E	347259	5565372	55	112	73245
BB82A-4	440	40 02 53.3 S	145 12 35.0 E	347285	5565350	55	112	73255
BB82A-4	441	40 02 54.0 S	145 12 36.1 E	347312	5565328	55	112	733 5
BB82A-4	442	40 02 54.7 S	145 12 37.2 E	347338	5565306	56	112	73315
BB82A-4	443	40 02 55.5 S	145 12 38.3 E	347365	5565284	54	112	73325
BB82A-4	444	40 02 56.2 S	145 12 39.4 E	347391	5565262	55	112	73335
BB82A-4	445	40 02 56.9 S	145 12 40.5 E	347418	5565240	56	112	73345
BB82A-4	446	40 02 57.7 S	145 12 41.6 E	347444	5565218	55	112	73355
BB82A-4	447	40 02 58.4 S	145 12 42.7 E	347470	5565196	55	112	734 5
BB82A-4	448	40 02 59.1 S	145 12 43.8 E	347497	5565174	55	112	73415
BB82A-4	449	40 02 59.8 S	145 12 44.9 E	347523	5565152	55	112	73425
BB82A-4	450	40 03 00.5 S	145 12 46.0 E	347549	5565131	56	112	73435
BB82A-4	451	40 03 01.3 S	145 12 47.0 E	347575	5565109	56	112	73445
BB82A-4	452	40 03 02.0 S	145 12 48.1 E	347601	5565087	54	112	73455
BB82A-4	453	40 03 02.7 S	145 12 49.2 E	347627	5565066	56	112	735 5
BB82A-4	454	40 03 03.4 S	145 12 50.3 E	347653	5565044	55	112	73515
BB82A-4	455	40 03 04.1 S	145 12 51.4 E	347679	5565023	54	112	73525
BB82A-4	456	40 03 04.9 S	145 12 52.4 E	347705	5565001	55	112	73535
BB82A-4	457	40 03 05.6 S	145 12 53.5 E	347730	5564980	0	112	73545
BB82A-4	458	40 03 06.3 S	145 12 54.5 E	347756	5564958	55	112	73555
BB82A-4	459	40 03 07.0 S	145 12 55.6 E	347781	5564937	55	112	736 5
BB82A-4	460	40 03 07.7 S	145 12 56.7 E	347807	5564916	56	112	73615
BB82A-4	461	40 03 08.4 S	145 12 57.7 E	347832	5564894	56	112	73625
BB82A-4	462	40 03 09.1 S	145 12 58.8 E	347858	5564873	55	112	73635
BB82A-4	463	40 03 09.8 S	145 12 59.8 E	347882	5564852	55	112	73645
BB82A-4	464	40 03 10.5 S	145 13 00.9 E	347908	5564831	55	112	73655
BB82A-4	465	40 03 11.2 S	145 13 01.8 E	347932	5564810	56	112	737 5
BB82A-4	466	40 03 11.9 S	145 13 02.9 E	347957	5564789	0	112	73715
BB82A-4	467	40 03 12.6 S	145 13 04.0 E	347983	5564768	55	112	73725
BB82A-4	468	40 03 13.3 S	145 13 05.0 E	348007	5564747	56	112	73735
BB82A-4	469	40 03 14.0 S	145 13 06.0 E	348032	5564727	54	112	73745
BB82A-4	470	40 03 14.7 S	145 13 07.0 E	348057	5564706	55	112	73754
BB82A-4	471	40 03 15.3 S	145 13 08.0 E	348081	5564685	55	112	738 3
BB82A-4	472	40 03 16.0 S	145 13 09.1 E	348106	5564665	55	112	73812
BB82A-4	473	40 03 16.7 S	145 13 10.1 E	348130	5564644	56	112	73821
BB82A-4	474	40 03 17.4 S	145 13 11.1 E	348154	5564623	55	112	73830
BB82A-4	475	40 03 18.1 S	145 13 12.1 E	348179	5564603	56	112	73839
BB82A-4	476	40 03 18.8 S	145 13 13.1 E	348203	5564582	54	112	73848
BB82A-4	477	40 03 19.4 S	145 13 14.1 E	348227	5564562	56	112	73857
BB82A-4	478	40 03 20.1 S	145 13 15.1 E	348252	5564541	55	112	739 6
BB82A-4	479	40 03 20.8 S	145 13 16.1 E	348276	5564520	55	112	73916
BB82A-4	480	40 03 21.5 S	145 13 17.1 E	348300	5564500	55	112	73925
BB82A-4	481	40 03 22.2 S	145 13 18.1 E	348324	5564479	55	112	73934
BB82A-4	482	40 03 22.8 S	145 13 19.1 E	348349	5564459	55	112	73943
BB82A-4	483	40 03 23.5 S	145 13 20.1 E	348373	5564438	55	112	73952
BB82A-4	484	40 03 24.2 S	145 13 21.1 E	348397	5564417	55	112	740 1
BB82A-4	485	40 03 24.9 S	145 13 22.2 E	348422	5564397	55	112	74010
BB82A-4	486	40 03 25.6 S	145 13 23.2 E	348446	5564376	55	112	74019

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	487	40 03 26.3 S	145 13 24.2 E	348470	5564355	54	112	74028
BB82A-4	488	40 03 27.0 S	145 13 25.2 E	348495	5564335	55	112	74037
BB82A-4	489	40 03 27.7 S	145 13 26.2 E	348519	5564314	55	112	74046
BB82A-4	490	40 03 28.4 S	145 13 27.2 E	348544	5564293	55	112	74056
BB82A-4	491	40 03 29.1 S	145 13 28.2 E	348568	5564272	54	112	741 5
BB82A-4	492	40 03 29.7 S	145 13 29.3 E	348593	5564251	55	112	74114
BB82A-4	493	40 03 30.4 S	145 13 30.3 E	348617	5564230	55	112	74123
BB82A-4	494	40 03 31.1 S	145 13 31.3 E	348642	5564209	54	112	74132
BB82A-4	495	40 03 31.8 S	145 13 32.3 E	348667	5564188	55	112	74141
BB82A-4	496	40 03 32.5 S	145 13 33.3 E	348691	5564167	54	112	74152
BB82A-4	497	40 03 33.2 S	145 13 34.4 E	348717	5564146	55	112	742 2
BB82A-4	498	40 03 33.9 S	145 13 35.4 E	348741	5564125	55	112	74212
BB82A-4	499	40 03 34.7 S	145 13 36.5 E	348767	5564103	54	112	74222
BB82A-4	500	40 03 35.4 S	145 13 37.5 E	348791	5564082	56	112	74232
BB82A-4	501	40 03 36.1 S	145 13 38.6 E	348817	5564061	54	112	74242
BB82A-4	502	40 03 36.8 S	145 13 39.6 E	348842	5564039	54	112	74252
BB82A-4	503	40 03 37.5 S	145 13 40.6 E	348867	5564018	55	112	743 2
BB82A-4	504	40 03 38.2 S	145 13 41.7 E	348893	5563996	55	112	74312
BB82A-4	505	40 03 38.9 S	145 13 42.7 E	348918	5563975	54	112	74322
BB82A-4	506	40 03 39.6 S	145 13 43.8 E	348944	5563953	55	112	74332
BB82A-4	507	40 03 40.4 S	145 13 44.9 E	348969	5563931	55	112	74342
BB82A-4	508	40 03 41.1 S	145 13 45.9 E	348995	5563909	55	112	74352
BB82A-4	509	40 03 41.8 S	145 13 47.0 E	349020	5563888	56	112	744 2
BB82A-4	510	40 03 42.5 S	145 13 48.1 E	349046	5563866	56	112	74412
BB82A-4	511	40 03 43.3 S	145 13 49.1 E	349072	5563844	56	112	74422
BB82A-4	512	40 03 44.0 S	145 13 50.2 E	349098	5563822*******		112	74432
BB82A-4	513	40 03 44.7 S	145 13 51.2 E	349123	5563800	55	112	74442
BB82A-4	514	40 03 45.4 S	145 13 52.3 E	349149	5563778	55	112	74452
BB82A-4	515	40 03 46.2 S	145 13 53.4 E	349175	5563756	54	112	745 2
BB82A-4	516	40 03 46.9 S	145 13 54.5 E	349201	5563734	55	112	74512
BB82A-4	517	40 03 47.6 S	145 13 55.6 E	349227	5563712	56	112	74522
BB82A-4	518	40 03 48.3 S	145 13 56.6 E	349253	5563691	55	112	74532
BB82A-4	519	40 03 49.1 S	145 13 57.7 E	349278	5563669	54	112	74542
BB82A-4	520	40 03 49.8 S	145 13 58.8 E	349304	5563647	55	112	74552
BB82A-4	521	40 03 50.5 S	145 13 59.8 E	349330	5563625	55	112	746 2
BB82A-4	522	40 03 51.2 S	145 14 00.9 E	349356	5563603	55	112	74612
BB82A-4	523	40 03 52.0 S	145 14 02.0 E	349382	5563581	55	112	74622
BB82A-4	524	40 03 52.7 S	145 14 03.1 E	349408	5563559	55	112	74632
BB82A-4	525	40 03 53.4 S	145 14 04.1 E	349434	5563537	54	112	74642
BB82A-4	526	40 03 54.2 S	145 14 05.2 E	349459	5563515	54	112	74652
BB82A-4	527	40 03 54.9 S	145 14 06.3 E	349485	5563493	55	112	747 2
BB82A-4	528	40 03 55.6 S	145 14 07.3 E	349511	5563471	55	112	74712
BB82A-4	529	40 03 56.4 S	145 14 08.4 E	349537	5563449	55	112	74722
BB82A-4	530	40 03 57.1 S	145 14 09.5 E	349562	5563427	55	112	74732
BB82A-4	531	40 03 57.8 S	145 14 10.5 E	349588	5563405	55	112	74742
BB82A-4	532	40 03 58.5 S	145 14 11.6 E	349614	5563383	55	112	74752
BB82A-4	533	40 03 59.3 S	145 14 12.6 E	349639	5563361	55	112	748 2
BB82A-4	534	40 04 00.0 S	145 14 13.7 E	349665	5563339	55	112	74812
BB82A-4	535	40 04 00.7 S	145 14 14.8 E	349691	5563317	55	112	74822
BB82A-4	536	40 04 01.5 S	145 14 15.8 E	349716	5563295	54	112	74832
BB82A-4	537	40 04 02.2 S	145 14 16.9 E	349742	5563273	55	112	74842
BB82A-4	538	40 04 02.9 S	145 14 18.0 E	349768	5563251	55	112	74852
BB82A-4	539	40 04 03.6 S	145 14 19.0 E	349793	5563230	55	112	749 2
BB82A-4	540	40 04 04.4 S	145 14 20.1 E	349819	5563208	55	112	74912

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	541	40 04 05.1 S	145 14 21.2 E	349844	5563186	55	112	74922
BB82A-4	542	40 04 05.8 S	145 14 22.2 E	349870	5563164	55	112	74932
BB82A-4	543	40 04 06.5 S	145 14 23.3 E	349896	5563142	55	112	74942
BB82A-4	544	40 04 07.3 S	145 14 24.3 E	349921	5563120	55	112	74952
BB82A-4	545	40 04 08.0 S	145 14 25.4 E	349947	5563099	55	112	750 2
BB82A-4	546	40 04 08.7 S	145 14 26.5 E	349972	5563077	55	112	75012
BB82A-4	547	40 04 09.4 S	145 14 27.5 E	349998	5563055	55	112	75022
BB82A-4	548	40 04 10.2 S	145 14 28.6 E	350024	5563033	55	112	75032
BB82A-4	549	40 04 10.9 S	145 14 29.7 E	350049	5563011	55	112	75042
BB82A-4	550	40 04 11.6 S	145 14 30.7 E	350075	5562989	55	112	75052
BB82A-4	551	40 04 12.3 S	145 14 31.8 E	350100	5562967	54	112	751 2
BB82A-4	552	40 04 13.1 S	145 14 32.9 E	350126	5562945	54	112	75112
BB82A-4	553	40 04 13.8 S	145 14 33.9 E	350152	5562923	54	112	75122
BB82A-4	554	40 04 14.5 S	145 14 35.0 E	350178	5562901	54	112	75132
BB82A-4	555	40 04 15.3 S	145 14 36.0 E	350203	5562878	55	112	75142
BB82A-4	556	40 04 16.0 S	145 14 37.1 E	350229	5562856	54	112	75152
BB82A-4	557	40 04 16.8 S	145 14 38.2 E	350255	5562834	54	112	752 2
BB82A-4	558	40 04 17.5 S	145 14 39.3 E	350281	5562812	54	112	75212
BB82A-4	559	40 04 18.2 S	145 14 40.4 E	350307	5562790	54	112	75222
BB82A-4	560	40 04 19.0 S	145 14 41.4 E	350333	5562767	54	112	75232
BB82A-4	561	40 04 19.7 S	145 14 42.5 E	350358	5562745	54	112	75242
BB82A-4	562	40 04 20.4 S	145 14 43.6 E	350384	5562723	54	112	75252
BB82A-4	563	40 04 21.2 S	145 14 44.6 E	350410	5562701	55	112	753 2
BB82A-4	564	40 04 21.9 S	145 14 45.7 E	350436	5562679	54	112	75312
BB82A-4	565	40 04 22.7 S	145 14 46.8 E	350462	5562656	54	112	75322
BB82A-4	566	40 04 23.4 S	145 14 47.9 E	350488	5562634	55	112	75332
BB82A-4	567	40 04 24.1 S	145 14 48.9 E	350514	5562612	54	112	75342
BB82A-4	568	40 04 24.8 S	145 14 50.0 E	350540	5562590	55	112	75352
BB82A-4	569	40 04 25.6 S	145 14 51.1 E	350566	5562567	55	112	754 2
BB82A-4	570	40 04 26.3 S	145 14 52.2 E	350592	5562545	54	112	75412
BB82A-4	571	40 04 27.1 S	145 14 53.3 E	350618	5562523	55	112	75422
BB82A-4	572	40 04 27.8 S	145 14 54.3 E	350644	5562501	55	112	75432
BB82A-4	573	40 04 28.6 S	145 14 55.4 E	350670	5562478	55	112	75442
BB82A-4	574	40 04 29.3 S	145 14 56.5 E	350696	5562456	54	112	75452
BB82A-4	575	40 04 30.0 S	145 14 57.6 E	350722	5562434	55	112	755 2
BB82A-4	576	40 04 30.8 S	145 14 58.7 E	350748	5562412	55	112	75512
BB82A-4	577	40 04 31.5 S	145 14 59.7 E	350774	5562390	54	112	75522
BB82A-4	578	40 04 32.2 S	145 15 00.8 E	350800	5562368	55	112	75532
BB82A-4	579	40 04 32.9 S	145 15 01.8 E	350825	5562346	55	112	75542
BB82A-4	580	40 04 33.7 S	145 15 02.9 E	350851	5562324	54	112	75552
BB82A-4	581	40 04 34.4 S	145 15 04.0 E	350877	5562303	55	112	756 2
BB82A-4	582	40 04 35.1 S	145 15 05.0 E	350902	5562281	55	112	75612
BB82A-4	583	40 04 35.8 S	145 15 06.1 E	350928	5562259	54	112	75622
BB82A-4	584	40 04 36.5 S	145 15 07.2 E	350953	5562238	54	112	75632
BB82A-4	585	40 04 37.3 S	145 15 08.2 E	350979	5562216	55	112	75642
BB82A-4	586	40 04 38.0 S	145 15 09.3 E	351004	5562195	55	112	75652
BB82A-4	587	40 04 38.7 S	145 15 10.4 E	351030	5562173	55	112	757 2
BB82A-4	588	40 04 39.4 S	145 15 11.4 E	351055	5562152	55	112	75712
BB82A-4	589	40 04 40.1 S	145 15 12.4 E	351080	5562130	54	112	75722
BB82A-4	590	40 04 40.8 S	145 15 13.5 E	351106	5562109	54	112	75732
BB82A-4	591	40 04 41.5 S	145 15 14.5 E	351130	5562088	55	112	75742
BB82A-4	592	40 04 42.2 S	145 15 15.6 E	351156	5562067	54	112	75752
BB82A-4	593	40 04 42.9 S	145 15 16.6 E	351181	5562046	55	112	758 1
BB82A-4	594	40 04 43.6 S	145 15 17.6 E	351205	5562025	54	112	75810

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	595	40 04 44.3 S	145 15 18.7 E	351231	5562004	55	112	75819
BB82A-4	596	40 04 45.0 S	145 15 19.7 E	351255	5561983	55	112	75828
BB82A-4	597	40 04 45.7 S	145 15 20.7 E	351280	5561962	55	112	75838
BB82A-4	598	40 04 46.3 S	145 15 21.8 E	351305	5561942	55	112	75847
BB82A-4	599	40 04 47.0 S	145 15 22.8 E	351329	5561921	55	112	75856
BB82A-4	600	40 04 47.7 S	145 15 23.8 E	351354	5561900	54	112	759 5
BB82A-4	601	40 04 48.4 S	145 15 24.8 E	351378	5561880	55	112	75914
BB82A-4	602	40 04 49.1 S	145 15 25.8 E	351403	5561859	55	112	75924
BB82A-4	603	40 04 49.8 S	145 15 26.8 E	351427	5561839	55	112	75933
BB82A-4	604	40 04 50.5 S	145 15 27.8 E	351451	5561818	55	112	75942
BB82A-4	605	40 04 51.1 S	145 15 28.9 E	351476	5561798	55	112	75951
BB82A-4	606	40 04 51.8 S	145 15 29.9 E	351500	5561778	55	112	8 0 0
BB82A-4	607	40 04 52.5 S	145 15 30.9 E	351524	5561757	55	112	8 0 9
BB82A-4	608	40 04 53.1 S	145 15 31.9 E	351549	5561737	54	112	8 019
BB82A-4	609	40 04 53.8 S	145 15 32.9 E	351573	5561717	54	112	8 028
BB82A-4	610	40 04 54.5 S	145 15 33.9 E	351597	5561696	55	112	8 037
BB82A-4	611	40 04 55.2 S	145 15 34.9 E	351622	5561676	55	112	8 046
BB82A-4	612	40 04 55.9 S	145 15 35.9 E	351646	5561655	54	112	8 055
BB82A-4	613	40 04 56.5 S	145 15 36.9 E	351670	5561635	55	112	8 1 5
BB82A-4	614	40 04 57.2 S	145 15 38.0 E	351695	5561614	54	112	8 114
BB82A-4	615	40 04 57.9 S	145 15 39.0 E	351719	5561594	56	112	8 123
BB82A-4	616	40 04 58.6 S	145 15 40.0 E	351744	5561573	55	112	8 132
BB82A-4	617	40 04 59.3 S	145 15 41.0 E	351768	5561552	55	112	8 141
BB82A-4	618	40 05 00.0 S	145 15 42.0 E	351793	5561531	55	112	8 151
BB82A-4	619	40 05 00.6 S	145 15 43.0 E	351817	5561511	55	112	8 2 0
BB82A-4	620	40 05 01.3 S	145 15 44.1 E	351842	5561490	55	112	8 2 9
BB82A-4	621	40 05 02.0 S	145 15 45.1 E	351866	5561469	55	112	8 222
BB82A-4	622	40 05 02.7 S	145 15 46.1 E	351891	5561448	54	112	8 232
BB82A-4	623	40 05 03.4 S	145 15 47.1 E	351916	5561427	55	112	8 242
BB82A-4	624	40 05 04.1 S	145 15 48.1 E	351940	5561406	56	112	8 252
BB82A-4	625	40 05 04.8 S	145 15 49.2 E	351966	5561385	54	112	8 3 2
BB82A-4	626	40 05 05.5 S	145 15 50.2 E	351990	5561363	55	112	8 312
BB82A-4	627	40 05 06.2 S	145 15 51.3 E	352016	5561342	55	112	8 322
BB82A-4	628	40 05 06.9 S	145 15 52.3 E	352040	5561321	55	112	8 332
BB82A-4	629	40 05 07.7 S	145 15 53.4 E	352066	5561299	55	112	8 342
BB82A-4	630	40 05 08.4 S	145 15 54.4 E	352091	5561277	55	112	8 352
BB82A-4	631	40 05 09.1 S	145 15 55.5 E	352117	5561256	55	112	8 4 2
BB82A-4	632	40 05 09.8 S	145 15 56.5 E	352142	5561234	55	112	8 412
BB82A-4	633	40 05 10.6 S	145 15 57.6 E	352168	5561212	55	112	8 422
BB82A-4	634	40 05 11.3 S	145 15 58.6 E	352193	5561190	54	112	8 432
BB82A-4	635	40 05 12.0 S	145 15 59.7 E	352219	5561168	54	112	8 442
BB82A-4	636	40 05 12.7 S	145 16 00.8 E	352245	5561146	55	112	8 452
BB82A-4	637	40 05 13.5 S	145 16 01.8 E	352270	5561124	55	112	8 5 2
BB82A-4	638	40 05 14.2 S	145 16 02.9 E	352296	5561102	55	112	8 512
BB82A-4	639	40 05 14.9 S	145 16 04.0 E	352322	5561080	55	112	8 522
BB82A-4	640	40 05 15.7 S	145 16 05.1 E	352348	5561058	55	112	8 532
BB82A-4	641	40 05 16.4 S	145 16 06.1 E	352374	5561035	55	112	8 542
BB82A-4	642	40 05 17.2 S	145 16 07.2 E	352400	5561013	55	112	8 552
BB82A-4	643	40 05 17.9 S	145 16 08.3 E	352426	5560991	54	112	8 6 2
BB82A-4	644	40 05 18.6 S	145 16 09.4 E	352452	5560968	55	112	8 612
BB82A-4	645	40 05 19.4 S	145 16 10.5 E	352478	5560946	55	112	8 622
BB82A-4	646	40 05 20.1 S	145 16 11.6 E	352505	5560924	55	112	8 632
BB82A-4	647	40 05 20.9 S	145 16 12.7 E	352531	5560901	55	112	8 642
BB82A-4	648	40 05 21.6 S	145 16 13.7 E	352557	5560879	55	112	8 652

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-4	649	40 05 22.4 S	145 16 14.8 E	352583	5560856	55	112	8 7 2
BB82A-4	650	40 05 23.1 S	145 16 15.9 E	352609	5560834	55	112	8 712
BB82A-4	651	40 05 23.9 S	145 16 17.0 E	352636	5560811	55	112	8 722
BB82A-4	652	40 05 24.6 S	145 16 18.1 E	352662	5560789	55	112	8 732
BB82A-4	653	40 05 25.3 S	145 16 19.2 E	352688	5560766	54	112	8 742
BB82A-4	654	40 05 26.1 S	145 16 20.3 E	352714	5560744	55	112	8 752
BB82A-4	655	40 05 26.8 S	145 16 21.3 E	352740	5560721	55	112	8 8 2
BB82A-4	656	40 05 27.6 S	145 16 22.5 E	352767	5560699	55	112	8 812
BB82A-4	657	40 05 28.3 S	145 16 23.5 E	352793	5560677	54	112	8 822
BB82A-4	658	40 05 29.1 S	145 16 24.6 E	352819	5560654	55	112	8 832
BB82A-4	659	40 05 29.8 S	145 16 25.7 E	352845	5560632	54	112	8 842
BB82A-4	660	40 05 30.5 S	145 16 26.8 E	352871	5560610	55	112	8 852
BB82A-4	661	40 05 31.3 S	145 16 27.9 E	352897	5560587	55	112	8 9 2
BB82A-4	662	40 05 32.0 S	145 16 28.9 E	352923	5560565	54	112	8 912
BB82A-4	663	40 05 32.7 S	145 16 30.0 E	352949	5560543	54	112	8 922
BB82A-4	664	40 05 33.5 S	145 16 31.1 E	352975	5560521	55	112	8 932
BB82A-4	665	40 05 34.2 S	145 16 32.2 E	353001	5560499	54	112	8 942

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	1	40 13 31.8 S	145 21 07.4 E	359793	5545897	52	110	1121 5
BB82A-5	2	40 13 31.2 S	145 21 08.7 E	359822	5545915	51	110	112116
BB82A-5	3	40 13 30.7 S	145 21 09.9 E	359850	5545932	0	110	112127
BB82A-5	4	40 13 30.1 S	145 21 11.1 E	359878	5545949	0	110	112137
BB82A-5	5	40 13 29.6 S	145 21 12.3 E	359906	5545967	0	110	112148
BB82A-5	6	40 13 29.0 S	145 21 13.5 E	359934	5545984	52	110	112158
BB82A-5	7	40 13 28.5 S	145 21 14.7 E	359962	5546002	52	110	112210
BB82A-5	8	40 13 27.9 S	145 21 15.9 E	359991	5546019	51	110	112221
BB82A-5	9	40 13 27.4 S	145 21 17.1 E	360019	5546036	52	110	112231
BB82A-5	10	40 13 26.9 S	145 21 18.3 E	360047	5546053	51	110	112243
BB82A-5	11	40 13 26.3 S	145 21 19.6 E	360076	5546070	52	110	112253
BB82A-5	12	40 13 25.8 S	145 21 20.8 E	360104	5546087	52	110	1123 3
BB82A-5	13	40 13 25.3 S	145 21 22.0 E	360133	5546103	51	110	112314
BB82A-5	14	40 13 24.8 S	145 21 23.2 E	360162	5546120	51	110	112325
BB82A-5	15	40 13 24.2 S	145 21 24.5 E	360191	5546137	51	110	112336
BB82A-5	16	40 13 23.7 S	145 21 25.7 E	360220	5546153	51	110	112348
BB82A-5	17	40 13 23.2 S	145 21 26.9 E	360249	5546170	5	110	1124 0
BB82A-5	18	40 13 22.7 S	145 21 28.2 E	360279	5546186	52	110	112411
BB82A-5	19	40 13 22.2 S	145 21 29.5 E	360308	5546202	51	110	112422
BB82A-5	20	40 13 21.7 S	145 21 30.8 E	360338	5546219	51	110	112433
BB82A-5	21	40 13 21.2 S	145 21 32.0 E	360367	5546235	52	110	112443
BB82A-5	22	40 13 20.7 S	145 21 33.3 E	360397	5546251	51	110	112453
BB82A-5	23	40 13 20.2 S	145 21 34.6 E	360427	5546267	51	110	1125 4
BB82A-5	24	40 13 19.6 S	145 21 35.8 E	360456	5546284	52	110	112514
BB82A-5	25	40 13 19.1 S	145 21 37.1 E	360486	5546300	5	110	112526
BB82A-5	26	40 13 18.6 S	145 21 38.4 E	360516	5546316	5	110	112536
BB82A-5	27	40 13 18.1 S	145 21 39.6 E	360545	5546333	5	110	112547
BB82A-5	28	40 13 17.6 S	145 21 40.9 E	360575	5546349	51	110	112557
BB82A-5	29	40 13 17.1 S	145 21 42.2 E	360605	5546366	51	110	1126 9
BB82A-5	30	40 13 16.6 S	145 21 43.4 E	360634	5546382	5	110	112620
BB82A-5	31	40 13 16.0 S	145 21 44.7 E	360664	5546399	5	110	112630
BB82A-5	32	40 13 15.5 S	145 21 45.9 E	360693	5546416	51	110	112640
BB82A-5	33	40 13 15.0 S	145 21 47.2 E	360723	5546433	52	110	112650
BB82A-5	34	40 13 14.4 S	145 21 48.4 E	360752	5546450	51	110	1127 1
BB82A-5	35	40 13 13.9 S	145 21 49.7 E	360781	5546467	52	110	112713
BB82A-5	36	40 13 13.4 S	145 21 51.0 E	360811	5546484	51	110	112724
BB82A-5	37	40 13 12.8 S	145 21 52.2 E	360840	5546501	5	110	112734
BB82A-5	38	40 13 12.3 S	145 21 53.4 E	360869	5546519	5	110	112745
BB82A-5	39	40 13 11.7 S	145 21 54.6 E	360897	5546536	5	110	112755
BB82A-5	40	40 13 11.2 S	145 21 55.9 E	360926	5546554	5	110	1128 6
BB82A-5	41	40 13 10.6 S	145 21 57.1 E	360955	5546572	5	110	112817
BB82A-5	42	40 13 10.0 S	145 21 58.3 E	360983	5546590	52	110	112827
BB82A-5	43	40 13 09.5 S	145 21 59.5 E	361011	5546608	5	110	112838
BB82A-5	44	40 13 08.9 S	145 22 00.8 E	361040	5546626	5	110	112848
BB82A-5	45	40 13 08.3 S	145 22 02.0 E	361068	5546644	52	110	112859
BB82A-5	46	40 13 07.7 S	145 22 03.1 E	361095	5546663	52	110	112910
BB82A-5	47	40 13 07.2 S	145 22 04.3 E	361123	5546681	52	110	112921
BB82A-5	48	40 13 06.6 S	145 22 05.5 E	361151	5546700	52	110	112932
BB82A-5	49	40 13 06.0 S	145 22 06.7 E	361178	5546718	52	110	112942
BB82A-5	50	40 13 05.4 S	145 22 07.8 E	361205	5546737	52	110	112952
BB82A-5	51	40 13 04.8 S	145 22 09.0 E	361233	5546756	52	110	1130 2
BB82A-5	52	40 13 04.2 S	145 22 10.2 E	361260	5546774	52	110	113013
BB82A-5	53	40 13 03.6 S	145 22 11.3 E	361287	5546793	52	110	113023
BB82A-5	54	40 13 03.0 S	145 22 12.5 E	361314	5546812	52	110	113033

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	55	40 13 02.4 S	145 22 13.6 E	361340	5546831	52	110	113045
BB82A-5	56	40 13 01.9 S	145 22 14.8 E	361367	5546849	52	110	113055
BB82A-5	57	40 13 01.3 S	145 22 15.9 E	361393	5546868	52	110	1131 7
BB82A-5	58	40 13 00.7 S	145 22 17.0 E	361420	5546887	52	110	113118
BB82A-5	59	40 13 00.1 S	145 22 18.1 E	361446	5546905	52	110	113129
BB82A-5	60	40 12 59.5 S	145 22 19.3 E	361472	5546924	51	110	113141
BB82A-5	61	40 12 58.9 S	145 22 20.4 E	361499	5546942	52	110	113153
BB82A-5	62	40 12 58.4 S	145 22 21.5 E	361525	5546960	52	110	1132 3
BB82A-5	63	40 12 57.8 S	145 22 22.7 E	361552	5546978	52	110	113214
BB82A-5	64	40 12 57.2 S	145 22 23.8 E	361578	5546996	52	110	113226
BB82A-5	65	40 12 56.6 S	145 22 25.0 E	361605	5547014	52	110	113236
BB82A-5	66	40 12 56.1 S	145 22 26.1 E	361631	5547032	52	110	113246
BB82A-5	67	40 12 55.5 S	145 22 27.2 E	361658	5547049	52	110	113256
BB82A-5	68	40 12 55.0 S	145 22 28.3 E	361684	5547067	52	110	1133 7
BB82A-5	69	40 12 54.4 S	145 22 29.5 E	361711	5547084	52	110	113318
BB82A-5	70	40 12 53.9 S	145 22 30.6 E	361738	5547101	52	110	113328
BB82A-5	71	40 12 53.4 S	145 22 31.8 E	361765	5547118*******		110	113338
BB82A-5	72	40 12 52.8 S	145 22 33.0 E	361792	5547135	52	110	113348
BB82A-5	73	40 12 52.3 S	145 22 34.1 E	361819	5547151	52	110	113358
BB82A-5	74	40 12 51.8 S	145 22 35.3 E	361846	5547168	52	110	1134 8
BB82A-5	75	40 12 51.3 S	145 22 36.4 E	361873	5547184	52	110	113418
BB82A-5	76	40 12 50.8 S	145 22 37.6 E	361900	5547200	52	110	113429
BB82A-5	77	40 12 50.3 S	145 22 38.7 E	361927	5547216	52	110	113439
BB82A-5	78	40 12 49.8 S	145 22 39.9 E	361955	5547232	53	110	113450
BB82A-5	79	40 12 49.3 S	145 22 41.1 E	361982	5547247	52	110	1135 2
BB82A-5	80	40 12 48.8 S	145 22 42.3 E	362010	5547263	52	110	113512
BB82A-5	81	40 12 48.3 S	145 22 43.5 E	362038	5547278	52	110	113522
BB82A-5	82	40 12 47.8 S	145 22 44.7 E	362066	5547294	52	110	113532
BB82A-5	83	40 12 47.4 S	145 22 45.9 E	362094	5547309	52	110	113544
BB82A-5	84	40 12 46.9 S	145 22 47.1 E	362122	5547324	52	110	113554
BB82A-5	85	40 12 46.4 S	145 22 48.3 E	362150	5547340	52	110	1136 6
BB82A-5	86	40 12 45.9 S	145 22 49.5 E	362179	5547355	52	110	113617
BB82A-5	87	40 12 45.5 S	145 22 50.7 E	362207	5547370	5	110	113627
BB82A-5	88	40 12 45.0 S	145 22 51.9 E	362235	5547385	5	110	113639
BB82A-5	89	40 12 44.5 S	145 22 53.1 E	362264	5547400	5	110	113649
BB82A-5	90	40 12 44.1 S	145 22 54.3 E	362292	5547415*******		110	1137 1
BB82A-5	91	40 12 43.6 S	145 22 55.6 E	362321	5547430*******		110	113712
BB82A-5	92	40 12 43.1 S	145 22 56.8 E	362350	5547445	52	110	113722
BB82A-5	93	40 12 42.7 S	145 22 58.0 E	362378	5547459	52	110	113733
BB82A-5	94	40 12 42.2 S	145 22 59.2 E	362407	5547475	52	110	113745
BB82A-5	95	40 12 41.7 S	145 23 00.5 E	362436	5547490	52	110	113756
BB82A-5	96	40 12 41.2 S	145 23 01.7 E	362464	5547506	52	110	1138 7
BB82A-5	97	40 12 40.7 S	145 23 02.9 E	362493	5547522	53	110	113819
BB82A-5	98	40 12 40.2 S	145 23 04.1 E	362522	5547538	53	110	113830
BB82A-5	99	40 12 39.7 S	145 23 05.3 E	362550	5547554*******		110	113841
BB82A-5	100	40 12 39.2 S	145 23 06.6 E	362579	5547570*******		110	113852
BB82A-5	101	40 12 38.7 S	145 23 07.8 E	362607	5547586	5	110	1139 2
BB82A-5	102	40 12 38.2 S	145 23 09.0 E	362636	5547603	5	110	113913
BB82A-5	103	40 12 37.7 S	145 23 10.2 E	362664	5547619	53	110	113924
BB82A-5	104	40 12 37.1 S	145 23 11.4 E	362692	5547636	53	110	113934
BB82A-5	105	40 12 36.6 S	145 23 12.6 E	362720	5547653	53	110	113945
BB82A-5	106	40 12 36.1 S	145 23 13.8 E	362748	5547670	53	110	113957
BB82A-5	107	40 12 35.5 S	145 23 15.0 E	362776	5547688	53	110	1140 7
BB82A-5	108	40 12 35.0 S	145 23 16.2 E	362804	5547705	5	110	114018

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	109	40 12 34.4 S	145 23 17.3 E	362831	5547723	5	110	114029
BB82A-5	110	40 12 33.8 S	145 23 18.5 E	362859	5547741	5	110	114039
BB82A-5	111	40 12 33.3 S	145 23 19.7 E	362886	5547759	*******	110	114049
BB82A-5	112	40 12 32.7 S	145 23 20.9 E	362914	5547778	5	110	1141 1
BB82A-5	113	40 12 32.1 S	145 23 22.1 E	362941	5547796	5	110	114111
BB82A-5	114	40 12 31.5 S	145 23 23.3 E	362969	5547815	54	110	114123
BB82A-5	115	40 12 30.9 S	145 23 24.4 E	362996	5547834	5	110	114134
BB82A-5	116	40 12 30.3 S	145 23 25.6 E	363023	5547853	5	110	114144
BB82A-5	117	40 12 29.7 S	145 23 26.7 E	363050	5547872	5	110	114155
BB82A-5	118	40 12 29.1 S	145 23 27.9 E	363077	5547891	5	110	1142 6
BB82A-5	119	40 12 28.5 S	145 23 29.0 E	363103	5547911	54	110	114217
BB82A-5	120	40 12 27.9 S	145 23 30.2 E	363130	5547930	5	110	114228
BB82A-5	121	40 12 27.3 S	145 23 31.3 E	363157	5547949	5	110	114238
BB82A-5	122	40 12 26.6 S	145 23 32.4 E	363183	5547969	5	110	114250
BB82A-5	123	40 12 26.0 S	145 23 33.6 E	363210	5547989	5	110	1143 0
BB82A-5	124	40 12 25.4 S	145 23 34.7 E	363237	5548008	54	110	114312
BB82A-5	125	40 12 24.8 S	145 23 35.9 E	363263	5548028	*******	110	114323
BB82A-5	126	40 12 24.2 S	145 23 37.0 E	363290	5548047	*******	110	114334
BB82A-5	127	40 12 23.6 S	145 23 38.2 E	363317	5548066	5	110	114344
BB82A-5	128	40 12 23.0 S	145 23 39.3 E	363343	5548085	5	110	114355
BB82A-5	129	40 12 22.3 S	145 23 40.4 E	363370	5548105	5	110	1144 5
BB82A-5	130	40 12 21.7 S	145 23 41.6 E	363397	5548124	5	110	114417
BB82A-5	131	40 12 21.2 S	145 23 42.7 E	363424	5548142	5	110	114427
BB82A-5	132	40 12 20.6 S	145 23 43.9 E	363451	5548161	5	110	114438
BB82A-5	133	40 12 20.0 S	145 23 45.1 E	363478	5548180	5	110	114449
BB82A-5	134	40 12 19.4 S	145 23 46.2 E	363505	5548199	5	110	1145 1
BB82A-5	135	40 12 18.8 S	145 23 47.4 E	363532	5548217	5	110	114512
BB82A-5	136	40 12 18.2 S	145 23 48.5 E	363559	5548235	5	110	114523
BB82A-5	137	40 12 17.6 S	145 23 49.7 E	363587	5548253	55	110	114533
BB82A-5	138	40 12 17.1 S	145 23 50.9 E	363614	5548271	5	110	114545
BB82A-5	139	40 12 16.5 S	145 23 52.1 E	363642	5548289	5	110	114555
BB82A-5	140	40 12 15.9 S	145 23 53.3 E	363670	5548307	55	110	1146 6
BB82A-5	141	40 12 15.4 S	145 23 54.5 E	363698	5548324	55	110	114618
BB82A-5	142	40 12 14.9 S	145 23 55.7 E	363726	5548341	55	110	114630
BB82A-5	143	40 12 14.3 S	145 23 56.9 E	363755	5548358	5	110	114641
BB82A-5	144	40 12 13.8 S	145 23 58.1 E	363783	5548375	56	110	114651
BB82A-5	145	40 12 13.3 S	145 23 59.3 E	363812	5548391	5	110	1147 1
BB82A-5	146	40 12 12.8 S	145 24 00.5 E	363840	5548408	5	110	114711
BB82A-5	147	40 12 12.3 S	145 24 01.8 E	363869	5548424	5	110	114721
BB82A-5	148	40 12 11.8 S	145 24 03.0 E	363898	5548440	5	110	114733
BB82A-5	149	40 12 11.3 S	145 24 04.3 E	363927	5548456	56	110	114744
BB82A-5	150	40 12 10.8 S	145 24 05.5 E	363956	5548472	56	110	114754
BB82A-5	151	40 12 10.3 S	145 24 06.7 E	363985	5548487	*******	110	1148 5
BB82A-5	152	40 12 09.8 S	145 24 08.0 E	364014	5548503	57	110	114816
BB82A-5	153	40 12 09.3 S	145 24 09.2 E	364044	5548518	57	110	114828
BB82A-5	154	40 12 08.8 S	145 24 10.5 E	364073	5548534	56	110	114838
BB82A-5	155	40 12 08.4 S	145 24 11.8 E	364103	5548549	56	110	114850
BB82A-5	156	40 12 07.9 S	145 24 13.0 E	364132	5548565	57	110	1149 0
BB82A-5	157	40 12 07.4 S	145 24 14.3 E	364162	5548580	57	110	114911
BB82A-5	158	40 12 06.9 S	145 24 15.5 E	364191	5548596	5	110	114922
BB82A-5	159	40 12 06.4 S	145 24 16.8 E	364221	5548611	57	110	114934
BB82A-5	160	40 12 05.9 S	145 24 18.0 E	364250	5548627	57	110	114944
BB82A-5	161	40 12 05.4 S	145 24 19.3 E	364280	5548642	5	110	114954
BB82A-5	162	40 12 05.0 S	145 24 20.6 E	364309	5548657	58	110	1150 6

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	163	40 12 04.5 S	145 24 21.8 E	364339	5548673	57	110	115016
BB82A-5	164	40 12 04.0 S	145 24 23.1 E	364368	5548689	58	110	115026
BB82A-5	165	40 12 03.5 S	145 24 24.4 E	364398	5548704	57	110	115037
BB82A-5	166	40 12 03.0 S	145 24 25.6 E	364427	5548720	57	110	115047
BB82A-5	167	40 12 02.5 S	145 24 26.8 E	364456	5548736	58	110	115058
BB82A-5	168	40 12 02.0 S	145 24 28.1 E	364485	5548752	58	110	1151 9
BB82A-5	169	40 12 01.5 S	145 24 29.3 E	364514	5548769	5	110	115119
BB82A-5	170	40 12 01.0 S	145 24 30.6 E	364543	5548785	58	110	115129
BB82A-5	171	40 12 00.4 S	145 24 31.8 E	364572	5548802	58	110	115139
BB82A-5	172	40 11 59.9 S	145 24 33.0 E	364601	5548819	5	110	115149
BB82A-5	173	40 11 59.4 S	145 24 34.2 E	364629	5548836	5	110	115159
BB82A-5	174	40 11 58.8 S	145 24 35.5 E	364658	5548853	******	110	115210
BB82A-5	175	40 11 58.3 S	145 24 36.7 E	364686	5548870	5	110	115220
BB82A-5	176	40 11 57.7 S	145 24 37.9 E	364714	5548888	0	110	115231
BB82A-5	177	40 11 57.2 S	145 24 39.1 E	364742	5548906	0	110	115241
BB82A-5	178	40 11 56.6 S	145 24 40.3 E	364770	5548924	0	110	115252
BB82A-5	179	40 11 56.0 S	145 24 41.5 E	364798	5548942	5	110	1153 2
BB82A-5	180	40 11 55.4 S	145 24 42.6 E	364826	5548960	5	110	115312
BB82A-5	181	40 11 54.8 S	145 24 43.8 E	364853	5548979	5	110	115322
BB82A-5	182	40 11 54.2 S	145 24 45.0 E	364881	5548998	59	110	115332
BB82A-5	183	40 11 53.7 S	145 24 46.2 E	364908	5549016	59	110	115343
BB82A-5	184	40 11 53.1 S	145 24 47.3 E	364935	5549035	59	110	115354
BB82A-5	185	40 11 52.4 S	145 24 48.5 E	364963	5549055	59	110	1154 4
BB82A-5	186	40 11 51.8 S	145 24 49.7 E	364990	5549074	59	110	115414
BB82A-5	187	40 11 51.2 S	145 24 50.8 E	365017	5549093	59	110	115424
BB82A-5	188	40 11 50.6 S	145 24 52.0 E	365044	5549113	59	110	115435
BB82A-5	189	40 11 50.0 S	145 24 53.1 E	365071	5549132	59	110	115445
BB82A-5	190	40 11 49.4 S	145 24 54.3 E	365098	5549152	59	110	115456
BB82A-5	191	40 11 48.8 S	145 24 55.4 E	365125	5549171	60	110	1155 7
BB82A-5	192	40 11 48.1 S	145 24 56.6 E	365152	5549191	59	110	115518
BB82A-5	193	40 11 47.5 S	145 24 57.8 E	365179	5549211	60	110	115528
BB82A-5	194	40 11 46.9 S	145 24 58.9 E	365206	5549230	60	110	115538
BB82A-5	195	40 11 46.3 S	145 25 00.1 E	365233	5549250	60	110	115548
BB82A-5	196	40 11 45.6 S	145 25 01.2 E	365260	5549270	59	110	115559
BB82A-5	197	40 11 45.0 S	145 25 02.4 E	365287	5549289	59	110	1156 9
BB82A-5	198	40 11 44.4 S	145 25 03.5 E	365314	5549309	59	110	115620
BB82A-5	199	40 11 43.8 S	145 25 04.7 E	365341	5549328	59	110	115630
BB82A-5	200	40 11 43.2 S	145 25 05.9 E	365369	5549348	59	110	115640
BB82A-5	201	40 11 42.6 S	145 25 07.1 E	365396	5549367	59	110	115650
BB82A-5	202	40 11 42.0 S	145 25 08.2 E	365423	5549386	60	110	1157 0
BB82A-5	203	40 11 41.4 S	145 25 09.4 E	365451	5549405	59	110	115710
BB82A-5	204	40 11 40.8 S	145 25 10.6 E	365479	5549424	60	110	115721
BB82A-5	205	40 11 40.2 S	145 25 11.8 E	365507	5549443	60	110	115732
BB82A-5	206	40 11 39.6 S	145 25 13.0 E	365535	5549461	60	110	115743
BB82A-5	207	40 11 39.0 S	145 25 14.2 E	365563	5549480	60	110	115753
BB82A-5	208	40 11 38.4 S	145 25 15.4 E	365592	5549498	60	110	1158 4
BB82A-5	209	40 11 37.9 S	145 25 16.6 E	365620	5549516	60	110	115815
BB82A-5	210	40 11 37.3 S	145 25 17.9 E	365649	5549534	60	110	115825
BB82A-5	211	40 11 36.8 S	145 25 19.1 E	365677	5549551	60	110	115835
BB82A-5	212	40 11 36.2 S	145 25 20.3 E	365706	5549569	60	110	115845
BB82A-5	213	40 11 35.7 S	145 25 21.6 E	365735	5549586	60	110	115856
BB82A-5	214	40 11 35.1 S	145 25 22.8 E	365764	5549603	61	110	1159 6
BB82A-5	215	40 11 34.6 S	145 25 24.1 E	365794	5549620	61	110	115918
BB82A-5	216	40 11 34.1 S	145 25 25.3 E	365823	5549637	60	110	115928

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	217	40 11 33.5 S	145 25 26.6 E	365853	5549654	61	110	115939
BB82A-5	218	40 11 33.0 S	145 25 27.8 E	365882	5549670	60	110	115949
BB82A-5	219	40 11 32.5 S	145 25 29.1 E	365912	5549687	60	110	12 0 0
BB82A-5	220	40 11 32.0 S	145 25 30.4 E	365942	5549703	61	110	12 010
BB82A-5	221	40 11 31.5 S	145 25 31.7 E	365972	5549719	61	110	12 020
BB82A-5	222	40 11 31.0 S	145 25 33.0 E	366002	5549735	61	110	12 030
BB82A-5	223	40 11 30.5 S	145 25 34.2 E	366032	5549751	61	110	12 042
BB82A-5	224	40 11 30.0 S	145 25 35.5 E	366062	5549767	61	110	12 052
BB82A-5	225	40 11 29.5 S	145 25 36.8 E	366092	5549782	61	110	12 1 3
BB82A-5	226	40 11 29.0 S	145 25 38.1 E	366123	5549798	60	110	12 113
BB82A-5	227	40 11 28.5 S	145 25 39.4 E	366153	5549814	61	110	12 123
BB82A-5	228	40 11 28.1 S	145 25 40.7 E	366183	5549829	61	110	12 133
BB82A-5	229	40 11 27.6 S	145 25 42.0 E	366213	5549845	61	110	12 144
BB82A-5	230	40 11 27.1 S	145 25 43.2 E	366243	5549860	61	110	12 156
BB82A-5	231	40 11 26.6 S	145 25 44.5 E	366273	5549876	61	110	12 2 6
BB82A-5	232	40 11 26.1 S	145 25 45.8 E	366303	5549891	61	110	12 217
BB82A-5	233	40 11 25.6 S	145 25 47.1 E	366333	5549907	62	110	12 227
BB82A-5	234	40 11 25.1 S	145 25 48.4 E	366363	5549923	61	110	12 238
BB82A-5	235	40 11 24.6 S	145 25 49.6 E	366393	5549939	61	110	12 248
BB82A-5	236	40 11 24.1 S	145 25 50.9 E	366423	5549954	61	110	12 3 0
BB82A-5	237	40 11 23.6 S	145 25 52.2 E	366452	5549970	62	110	12 311
BB82A-5	238	40 11 23.1 S	145 25 53.4 E	366482	5549986	62	110	12 321
BB82A-5	239	40 11 22.6 S	145 25 54.7 E	366511	5550002	62	110	12 332
BB82A-5	240	40 11 22.1 S	145 25 56.0 E	366541	5550018	61	110	12 342
BB82A-5	241	40 11 21.6 S	145 25 57.2 E	366570	5550034	62	110	12 352
BB82A-5	242	40 11 21.1 S	145 25 58.4 E	366599	5550050	62	110	12 4 2
BB82A-5	243	40 11 20.6 S	145 25 59.7 E	366628	5550066	61	110	12 412
BB82A-5	244	40 11 20.1 S	145 26 00.9 E	366657	5550083	62	110	12 422
BB82A-5	245	40 11 19.6 S	145 26 02.1 E	366686	5550099	62	110	12 433
BB82A-5	246	40 11 19.1 S	145 26 03.3 E	366714	5550116	62	110	12 443
BB82A-5	247	40 11 18.5 S	145 26 04.6 E	366743	5550133	62	110	12 453
BB82A-5	248	40 11 18.0 S	145 26 05.8 E	366771	5550150	61	110	12 5 3
BB82A-5	249	40 11 17.5 S	145 26 07.0 E	366799	5550167	62	110	12 513
BB82A-5	250	40 11 16.9 S	145 26 08.2 E	366827	5550184	62	110	12 524
BB82A-5	251	40 11 16.4 S	145 26 09.4 E	366855	5550201	62	110	12 534
BB82A-5	252	40 11 15.8 S	145 26 10.6 E	366883	5550218	62	110	12 544
BB82A-5	253	40 11 15.3 S	145 26 11.8 E	366911	5550236	62	110	12 554
BB82A-5	254	40 11 14.7 S	145 26 13.0 E	366939	5550253	62	110	12 6 4
BB82A-5	255	40 11 14.2 S	145 26 14.1 E	366966	5550271	62	110	12 615
BB82A-5	256	40 11 13.6 S	145 26 15.3 E	366994	5550289	62	110	12 625
BB82A-5	257	40 11 13.1 S	145 26 16.5 E	367022	5550306	62	110	12 636
BB82A-5	258	40 11 12.5 S	145 26 17.7 E	367049	5550324	63	110	12 646
BB82A-5	259	40 11 11.9 S	145 26 18.8 E	367076	5550342	62	110	12 657
BB82A-5	260	40 11 11.4 S	145 26 20.0 E	367104	5550360	62	110	12 7 7
BB82A-5	261	40 11 10.8 S	145 26 21.2 E	367131	5550378	62	110	12 718
BB82A-5	262	40 11 10.2 S	145 26 22.4 E	367159	5550397	62	110	12 729
BB82A-5	263	40 11 09.6 S	145 26 23.5 E	367186	5550415	62	110	12 739
BB82A-5	264	40 11 09.1 S	145 26 24.7 E	367214	5550433	62	110	12 749
BB82A-5	265	40 11 08.5 S	145 26 25.9 E	367241	5550451	62	110	12 759
BB82A-5	266	40 11 07.9 S	145 26 27.1 E	367269	5550470	62	110	12 8 9
BB82A-5	267	40 11 07.3 S	145 26 28.2 E	367296	5550488	62	110	12 819
BB82A-5	268	40 11 06.8 S	145 26 29.4 E	367324	5550506	63	110	12 830
BB82A-5	269	40 11 06.2 S	145 26 30.6 E	367351	5550525	62	110	12 840
BB82A-5	270	40 11 05.6 S	145 26 31.8 E	367379	5550543	62	110	12 850

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-5	271	40 11 05.0 S	145 26 33.0 E	367407	5550562	63	110	12 9 1
BB82A-5	272	40 11 04.4 S	145 26 34.2 E	367435	5550580	62	110	12 912
BB82A-5	273	40 11 03.9 S	145 26 35.3 E	367462	5550598	63	110	12 922
BB82A-5	274	40 11 03.3 S	145 26 36.5 E	367490	5550617	63	110	12 932
BB82A-5	275	40 11 02.7 S	145 26 37.7 E	367518	5550635	62	110	12 943
BB82A-5	276	40 11 02.1 S	145 26 38.9 E	367546	5550653	63	110	12 953
BB82A-5	277	40 11 01.5 S	145 26 40.1 E	367574	5550672	63	110	1210 3
BB82A-5	278	40 11 01.0 S	145 26 41.3 E	367602	5550690	63	110	121014
BB82A-5	279	40 11 00.4 S	145 26 42.5 E	367630	5550708	63	110	121025
BB82A-5	280	40 10 59.8 S	145 26 43.7 E	367659	5550726	63	110	121036
BB82A-5	281	40 10 59.2 S	145 26 44.9 E	367687	5550745	63	110	121046
BB82A-5	282	40 10 58.6 S	145 26 46.1 E	367715	5550763	63	110	121057
BB82A-5	283	40 10 58.1 S	145 26 47.4 E	367744	5550781	63	110	1211 7
BB82A-5	284	40 10 57.5 S	145 26 48.6 E	367772	5550799	63	110	121118
BB82A-5	285	40 10 56.9 S	145 26 49.8 E	367801	5550817	63	110	121128
BB82A-5	286	40 10 56.4 S	145 26 51.0 E	367829	5550835	63	110	121138
BB82A-5	287	40 10 55.8 S	145 26 52.2 E	367858	5550853	63	110	121148
BB82A-5	288	40 10 55.2 S	145 26 53.4 E	367886	5550871	63	110	121158
BB82A-5	289	40 10 54.7 S	145 26 54.7 E	367915	5550889	63	110	1212 9
BB82A-5	290	40 10 54.1 S	145 26 55.9 E	367943	5550907	63	110	121219
BB82A-5	291	40 10 53.5 S	145 26 57.1 E	367972	5550925	63	110	121229
BB82A-5	292	40 10 53.0 S	145 26 58.3 E	368000	5550943	63	110	121239
BB82A-5	293	40 10 52.4 S	145 26 59.6 E	368029	5550961	63	110	121250
BB82A-5	294	40 10 51.9 S	145 27 00.8 E	368058	5550978	63	110	1213 0
BB82A-5	295	40 10 51.3 S	145 27 02.0 E	368086	5550996	63	110	121312
BB82A-5	296	40 10 50.7 S	145 27 03.2 E	368115	5551014	63	110	121322
BB82A-5	297	40 10 50.2 S	145 27 04.4 E	368143	5551032	64	110	121332
BB82A-5	298	40 10 49.6 S	145 27 05.7 E	368172	5551050	63	110	121342
BB82A-5	299	40 10 49.0 S	145 27 06.9 E	368200	5551068	63	110	121353
BB82A-5	300	40 10 48.5 S	145 27 08.1 E	368228	5551086	63	110	1214 3
BB82A-5	301	40 10 47.9 S	145 27 09.3 E	368257	5551104	63	110	121413
BB82A-5	302	40 10 47.4 S	145 27 10.5 E	368285	5551121	64	110	121424
BB82A-5	303	40 10 46.8 S	145 27 11.7 E	368313	5551139	63	110	121435

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	1	40 00 28.4 S	145 12 44.8 E	347427	5569823	58	112	93938
BB82A-6	2	40 00 27.7 S	145 12 43.8 E	347402	5569844	58	112	93949
BB82A-6	3	40 00 26.9 S	145 12 42.7 E	347377	5569866	57	112	940 0
BB82A-6	4	40 00 26.2 S	145 12 41.7 E	347352	5569888	57	112	94011
BB82A-6	5	40 00 25.5 S	145 12 40.6 E	347327	5569909	58	112	94022
BB82A-6	6	40 00 24.8 S	145 12 39.6 E	347302	5569931	57	112	94033
BB82A-6	7	40 00 24.1 S	145 12 38.6 E	347277	5569952	58	112	94045
BB82A-6	8	40 00 23.3 S	145 12 37.5 E	347252	5569974	57	112	94056
BB82A-6	9	40 00 22.6 S	145 12 36.5 E	347227	5569995	57	112	941 8
BB82A-6	10	40 00 21.9 S	145 12 35.5 E	347202	5570016	57	112	94118
BB82A-6	11	40 00 21.3 S	145 12 34.4 E	347177	5570037	57	112	94129
BB82A-6	12	40 00 20.6 S	145 12 33.4 E	347152	5570058	57	112	94141
BB82A-6	13	40 00 19.9 S	145 12 32.3 E	347126	5570079	57	112	94152
BB82A-6	14	40 00 19.2 S	145 12 31.3 E	347102	5570100	57	112	942 3
BB82A-6	15	40 00 18.4 S	145 12 30.3 E	347077	5570122	57	112	94215
BB82A-6	16	40 00 17.7 S	145 12 29.3 E	347053	5570143	58	112	94225
BB82A-6	17	40 00 17.0 S	145 12 28.2 E	347027	5570165	58	112	94237
BB82A-6	18	40 00 16.3 S	145 12 27.2 E	347003	5570187	58	112	94247
BB82A-6	19	40 00 15.5 S	145 12 26.2 E	346978	5570209	57	112	94259
BB82A-6	20	40 00 14.8 S	145 12 25.2 E	346954	5570231	58	112	943 9
BB82A-6	21	40 00 14.1 S	145 12 24.2 E	346929	5570254	58	112	94321
BB82A-6	22	40 00 13.3 S	145 12 23.1 E	346904	5570276	57	112	94332
BB82A-6	23	40 00 12.6 S	145 12 22.1 E	346880	5570299	57	112	94344
BB82A-6	24	40 00 11.8 S	145 12 21.1 E	346856	5570322	57	112	94355
BB82A-6	25	40 00 11.0 S	145 12 20.1 E	346831	5570345	57	112	944 5
BB82A-6	26	40 00 10.2 S	145 12 19.1 E	346807	5570369	57	112	94416
BB82A-6	27	40 00 09.5 S	145 12 18.1 E	346783	5570392	57	112	94427
BB82A-6	28	40 00 08.7 S	145 12 17.1 E	346759	5570416	58	112	94438
BB82A-6	29	40 00 07.9 S	145 12 16.1 E	346735	5570440	57	112	94449
BB82A-6	30	40 00 07.1 S	145 12 15.1 E	346711	5570464	58	112	945 0
BB82A-6	31	40 00 06.3 S	145 12 14.2 E	346687	5570489	58	112	94511
BB82A-6	32	40 00 05.5 S	145 12 13.2 E	346663	5570513	57	112	94521
BB82A-6	33	40 00 04.7 S	145 12 12.2 E	346639	5570537	57	112	94532
BB82A-6	34	40 00 03.9 S	145 12 11.2 E	346616	5570561	58	112	94543
BB82A-6	35	40 00 03.1 S	145 12 10.2 E	346592	5570585	58	112	94554
BB82A-6	36	40 00 02.3 S	145 12 09.2 E	346568	5570609	58	112	946 5
BB82A-6	37	40 00 01.5 S	145 12 08.3 E	346544	5570633	58	112	94615
BB82A-6	38	40 00 00.7 S	145 12 07.3 E	346520	5570657	58	112	94626
BB82A-6	39	39 59 59.9 S	145 12 06.3 E	346497	5570681	58	112	94637
BB82A-6	40	39 59 59.2 S	145 12 05.3 E	346473	5570704	57	112	94648
BB82A-6	41	39 59 58.4 S	145 12 04.3 E	346449	5570728	57	112	94659
BB82A-6	42	39 59 57.6 S	145 12 03.3 E	346425	5570751	56	112	947 9
BB82A-6	43	39 59 56.9 S	145 12 02.3 E	346400	5570774	56	112	94720
BB82A-6	44	39 59 56.1 S	145 12 01.3 E	346376	5570797	57	112	94731
BB82A-6	45	39 59 55.3 S	145 12 00.3 E	346352	5570820	57	112	94741
BB82A-6	46	39 59 54.6 S	145 11 59.3 E	346327	5570842	57	112	94752
BB82A-6	47	39 59 53.8 S	145 11 58.3 E	346303	5570865	57	112	948 3
BB82A-6	48	39 59 53.1 S	145 11 57.3 E	346278	5570887	57	112	94814
BB82A-6	49	39 59 52.4 S	145 11 56.3 E	346254	5570909	57	112	94825
BB82A-6	50	39 59 51.6 S	145 11 55.2 E	346228	5570931	57	112	94836
BB82A-6	51	39 59 50.9 S	145 11 54.2 E	346204	5570953	57	112	94847
BB82A-6	52	39 59 50.2 S	145 11 53.2 E	346179	5570975	58	112	94857
BB82A-6	53	39 59 49.5 S	145 11 52.1 E	346154	5570997	57	112	949 8
BB82A-6	54	39 59 48.8 S	145 11 51.1 E	346129	5571018	57	112	94918

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	55	39 59 48.0 S	145 11 50.0 E	346103	5571040	0	112	94929
BB82A-6	56	39 59 47.3 S	145 11 49.0 E	346078	5571062	0	112	94939
BB82A-6	57	39 59 46.6 S	145 11 47.9 E	346053	5571083	0	112	94950
BB82A-6	58	39 59 45.9 S	145 11 46.9 E	346027	5571105	0	112	950 1
BB82A-6	59	39 59 45.1 S	145 11 45.8 E	346002	5571127	0	112	95011
BB82A-6	60	39 59 44.4 S	145 11 44.7 E	345976	5571149	0	112	95022
BB82A-6	61	39 59 43.7 S	145 11 43.7 E	345951	5571170	0	112	95033
BB82A-6	62	39 59 43.0 S	145 11 42.6 E	345925	5571192	0	112	95043
BB82A-6	63	39 59 42.3 S	145 11 41.6 E	345900	5571214	0	112	95054
BB82A-6	64	39 59 41.5 S	145 11 40.5 E	345874	5571236	0	112	951 4
BB82A-6	65	39 59 40.8 S	145 11 39.5 E	345849	5571257	0	112	95115
BB82A-6	66	39 59 40.1 S	145 11 38.5 E	345824	5571279	0	112	95126
BB82A-6	67	39 59 39.4 S	145 11 37.4 E	345798	5571301	0	112	95136
BB82A-6	68	39 59 38.6 S	145 11 36.4 E	345774	5571323	0	112	95147
BB82A-6	69	39 59 37.9 S	145 11 35.3 E	345749	5571345	0	112	95158
BB82A-6	70	39 59 37.2 S	145 11 34.3 E	345724	5571366	0	112	952 8
BB82A-6	71	39 59 36.5 S	145 11 33.3 E	345699	5571388	0	112	95219
BB82A-6	72	39 59 35.8 S	145 11 32.2 E	345674	5571410	0	112	95230
BB82A-6	73	39 59 35.0 S	145 11 31.2 E	345648	5571432	0	112	95240
BB82A-6	74	39 59 34.3 S	145 11 30.2 E	345624	5571453	58	112	95251
BB82A-6	75	39 59 33.6 S	145 11 29.1 E	345599	5571475	58	112	953 1
BB82A-6	76	39 59 32.9 S	145 11 28.1 E	345575	5571497	57	112	95312
BB82A-6	77	39 59 32.2 S	145 11 27.1 E	345549	5571518	57	112	95323
BB82A-6	78	39 59 31.4 S	145 11 26.1 E	345525	5571540	57	112	95334
BB82A-6	79	39 59 30.7 S	145 11 25.0 E	345500	5571562	57	112	95345
BB82A-6	80	39 59 30.0 S	145 11 24.0 E	345475	5571583	57	112	95356
BB82A-6	81	39 59 29.3 S	145 11 23.0 E	345450	5571605	58	112	954 6
BB82A-6	82	39 59 28.6 S	145 11 21.9 E	345424	5571627	57	112	95417
BB82A-6	83	39 59 27.9 S	145 11 20.9 E	345400	5571648	57	112	95428
BB82A-6	84	39 59 27.1 S	145 11 19.8 E	345374	5571670	57	112	95439
BB82A-6	85	39 59 26.4 S	145 11 18.8 E	345349	5571692	58	112	95449
BB82A-6	86	39 59 25.7 S	145 11 17.7 E	345323	5571714	58	112	955 0
BB82A-6	87	39 59 24.9 S	145 11 16.7 E	345298	5571736	57	112	95511
BB82A-6	88	39 59 24.2 S	145 11 15.6 E	345272	5571758	57	112	95522
BB82A-6	89	39 59 23.5 S	145 11 14.5 E	345246	5571780	57	112	95532
BB82A-6	90	39 59 22.8 S	145 11 13.4 E	345220	5571802	58	112	95543
BB82A-6	91	39 59 22.0 S	145 11 12.4 E	345195	5571824	58	112	95554
BB82A-6	92	39 59 21.3 S	145 11 11.3 E	345169	5571847	56	112	956 5
BB82A-6	93	39 59 20.5 S	145 11 10.3 E	345143	5571869	57	112	95615
BB82A-6	94	39 59 19.8 S	145 11 09.2 E	345117	5571891	57	112	95626
BB82A-6	95	39 59 19.0 S	145 11 08.1 E	345092	5571914	56	112	95637
BB82A-6	96	39 59 18.3 S	145 11 07.1 E	345066	5571936	58	112	95647
BB82A-6	97	39 59 17.5 S	145 11 06.0 E	345041	5571959	58	112	95658
BB82A-6	98	39 59 16.8 S	145 11 05.0 E	345015	5571981	57	112	957 9
BB82A-6	99	39 59 16.1 S	145 11 04.0 E	344991	5572003	57	112	95719
BB82A-6	100	39 59 15.3 S	145 11 02.9 E	344965	5572026	57	112	95730
BB82A-6	101	39 59 14.6 S	145 11 01.9 E	344941	5572048	56	112	95741
BB82A-6	102	39 59 13.8 S	145 11 00.8 E	344915	5572071	57	112	95751
BB82A-6	103	39 59 13.1 S	145 10 59.8 E	344891	5572093	57	112	958 2
BB82A-6	104	39 59 12.4 S	145 10 58.8 E	344867	5572115	57	112	95813
BB82A-6	105	39 59 11.6 S	145 10 57.8 E	344842	5572138	57	112	95824
BB82A-6	106	39 59 10.9 S	145 10 56.8 E	344818	5572160	57	112	95834
BB82A-6	107	39 59 10.1 S	145 10 55.8 E	344794	5572182	57	112	95844
BB82A-6	108	39 59 09.4 S	145 10 54.8 E	344770	5572204	57	112	95854

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	109	39 59 08.7 S	145 10 53.9 E	344747	5572227	56	112	959 5
BB82A-6	110	39 59 07.9 S	145 10 52.9 E	344723	5572249	57	112	95915
BB82A-6	111	39 59 07.2 S	145 10 51.9 E	344699	5572271	58	112	95926
BB82A-6	112	39 59 06.5 S	145 10 50.9 E	344675	5572293	58	112	95936
BB82A-6	113	39 59 05.7 S	145 10 49.9 E	344652	5572315	56	112	95947
BB82A-6	114	39 59 05.0 S	145 10 49.0 E	344628	5572337	57	112	95957
BB82A-6	115	39 59 04.3 S	145 10 48.0 E	344604	5572360	57	112	10 0 8
BB82A-6	116	39 59 03.5 S	145 10 47.0 E	344580	5572382	57	112	10 018
BB82A-6	117	39 59 02.8 S	145 10 46.0 E	344556	5572404	57	112	10 029
BB82A-6	118	39 59 02.1 S	145 10 45.0 E	344532	5572426	57	112	10 040
BB82A-6	119	39 59 01.3 S	145 10 44.0 E	344508	5572449	57	112	10 051
BB82A-6	120	39 59 00.6 S	145 10 43.0 E	344484	5572471	57	112	10 1 1
BB82A-6	121	39 58 59.8 S	145 10 42.0 E	344459	5572493	57	112	10 112
BB82A-6	122	39 58 59.1 S	145 10 41.0 E	344435	5572515	56	112	10 123
BB82A-6	123	39 58 58.4 S	145 10 39.9 E	344410	5572538	56	112	10 134
BB82A-6	124	39 58 57.6 S	145 10 38.9 E	344386	5572560	57	112	10 144
BB82A-6	125	39 58 56.9 S	145 10 37.9 E	344361	5572582	57	112	10 155
BB82A-6	126	39 58 56.1 S	145 10 36.9 E	344337	5572605	56	112	10 2 5
BB82A-6	127	39 58 55.4 S	145 10 35.8 E	344311	5572627	56	112	10 216
BB82A-6	128	39 58 54.6 S	145 10 34.8 E	344287	5572650	57	112	10 227
BB82A-6	129	39 58 53.9 S	145 10 33.8 E	344261	5572672	57	112	10 238
BB82A-6	130	39 58 53.2 S	145 10 32.8 E	344237	5572694	57	112	10 248
BB82A-6	131	39 58 52.4 S	145 10 31.7 E	344211	5572717	56	112	10 259
BB82A-6	132	39 58 51.7 S	145 10 30.7 E	344187	5572739	57	112	10 310
BB82A-6	133	39 58 51.0 S	145 10 29.6 E	344161	5572761	57	112	10 321
BB82A-6	134	39 58 50.2 S	145 10 28.6 E	344136	5572784	57	112	10 331
BB82A-6	135	39 58 49.5 S	145 10 27.5 E	344110	5572806	57	112	10 341
BB82A-6	136	39 58 48.7 S	145 10 26.5 E	344086	5572828	57	112	10 352
BB82A-6	137	39 58 48.0 S	145 10 25.5 E	344061	5572850	56	112	10 4 3
BB82A-6	138	39 58 47.2 S	145 10 24.5 E	344036	5572873	56	112	10 414
BB82A-6	139	39 58 46.5 S	145 10 23.4 E	344011	5572895	56	112	10 424
BB82A-6	140	39 58 45.8 S	145 10 22.4 E	343986	5572917	57	112	10 435
BB82A-6	141	39 58 45.0 S	145 10 21.4 E	343961	5572940	56	112	10 446
BB82A-6	142	39 58 44.3 S	145 10 20.3 E	343936	5572962	56	112	10 457
BB82A-6	143	39 58 43.6 S	145 10 19.3 E	343911	5572984	56	112	10 5 8
BB82A-6	144	39 58 42.8 S	145 10 18.2 E	343885	5573006	56	112	10 518
BB82A-6	145	39 58 42.1 S	145 10 17.2 E	343861	5573029	57	112	10 529
BB82A-6	146	39 58 41.3 S	145 10 16.1 E	343835	5573051	57	112	10 540
BB82A-6	147	39 58 40.6 S	145 10 15.1 E	343810	5573073	56	112	10 550
BB82A-6	148	39 58 39.8 S	145 10 14.1 E	343785	5573096	56	112	10 6 1
BB82A-6	149	39 58 39.1 S	145 10 13.0 E	343759	5573118	56	112	10 611
BB82A-6	150	39 58 38.4 S	145 10 12.0 E	343734	5573141	57	112	10 622
BB82A-6	151	39 58 37.6 S	145 10 10.9 E	343709	5573163	57	112	10 632
BB82A-6	152	39 58 36.9 S	145 10 09.9 E	343683	5573185	57	112	10 643
BB82A-6	153	39 58 36.1 S	145 10 08.8 E	343658	5573208	57	112	10 654
BB82A-6	154	39 58 35.4 S	145 10 07.7 E	343632	5573230	57	112	10 7 4
BB82A-6	155	39 58 34.7 S	145 10 06.8 E	343608	5573252	56	112	10 714
BB82A-6	156	39 58 33.9 S	145 10 05.7 E	343583	5573275	56	112	10 725
BB82A-6	157	39 58 33.2 S	145 10 04.7 E	343558	5573297	57	112	10 735
BB82A-6	158	39 58 32.5 S	145 10 03.7 E	343533	5573319	57	112	10 746
BB82A-6	159	39 58 31.7 S	145 10 02.6 E	343507	5573342	56	112	10 756
BB82A-6	160	39 58 31.0 S	145 10 01.6 E	343483	5573364	56	112	10 8 7
BB82A-6	161	39 58 30.2 S	145 10 00.6 E	343458	5573386	56	112	10 817
BB82A-6	162	39 58 29.5 S	145 09 59.6 E	343434	5573408	56	112	10 828

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	163	39 58 28.7 S	145 09 58.5 E	343409	5573431	56	112	10 839
BB82A-6	164	39 58 28.0 S	145 09 57.5 E	343385	5573453	57	112	10 849
BB82A-6	165	39 58 27.3 S	145 09 56.5 E	343361	5573475	57	112	10 9 0
BB82A-6	166	39 58 26.6 S	145 09 55.6 E	343337	5573497	56	112	10 911
BB82A-6	167	39 58 25.8 S	145 09 54.6 E	343313	5573519	56	112	10 921
BB82A-6	168	39 58 25.1 S	145 09 53.6 E	343289	5573542	56	112	10 931
BB82A-6	169	39 58 24.3 S	145 09 52.6 E	343265	5573564	57	112	10 942
BB82A-6	170	39 58 23.6 S	145 09 51.6 E	343241	5573586	57	112	10 952
BB82A-6	171	39 58 22.8 S	145 09 50.6 E	343217	5573609	56	112	1010 3
BB82A-6	172	39 58 22.1 S	145 09 49.6 E	343194	5573631	56	112	101013
BB82A-6	173	39 58 21.4 S	145 09 48.6 E	343170	5573653	57	112	101023
BB82A-6	174	39 58 20.6 S	145 09 47.7 E	343146	5573676	57	112	101033
BB82A-6	175	39 58 19.9 S	145 09 46.7 E	343122	5573698	57	112	101044
BB82A-6	176	39 58 19.1 S	145 09 45.7 E	343099	5573721	56	112	101054
BB82A-6	177	39 58 18.4 S	145 09 44.7 E	343075	5573743	55	112	1011 5
BB82A-6	178	39 58 17.6 S	145 09 43.7 E	343051	5573766	56	112	101115
BB82A-6	179	39 58 16.9 S	145 09 42.7 E	343027	5573789	57	112	101126
BB82A-6	180	39 58 16.1 S	145 09 41.8 E	343003	5573812	56	112	101136
BB82A-6	181	39 58 15.4 S	145 09 40.7 E	342978	5573834	56	112	101146
BB82A-6	182	39 58 14.6 S	145 09 39.7 E	342954	5573857	57	112	101157
BB82A-6	183	39 58 13.9 S	145 09 38.7 E	342929	5573880	56	112	1012 7
BB82A-6	184	39 58 13.1 S	145 09 37.7 E	342905	5573903	56	112	101218
BB82A-6	185	39 58 12.3 S	145 09 36.7 E	342880	5573926	56	112	101229
BB82A-6	186	39 58 11.6 S	145 09 35.7 E	342856	5573949	56	112	101240
BB82A-6	187	39 58 10.8 S	145 09 34.6 E	342830	5573972	56	112	101250
BB82A-6	188	39 58 10.1 S	145 09 33.6 E	342806	5573994	55	112	1013 1
BB82A-6	189	39 58 09.3 S	145 09 32.6 E	342781	5574017	56	112	101311
BB82A-6	190	39 58 08.6 S	145 09 31.5 E	342755	5574040	56	112	101321
BB82A-6	191	39 58 07.8 S	145 09 30.5 E	342731	5574062	57	112	101332
BB82A-6	192	39 58 07.1 S	145 09 29.4 E	342705	5574085	57	112	101342
BB82A-6	193	39 58 06.3 S	145 09 28.4 E	342680	5574107	57	112	101353
BB82A-6	194	39 58 05.6 S	145 09 27.3 E	342654	5574130	56	112	1014 4
BB82A-6	195	39 58 04.8 S	145 09 26.3 E	342630	5574152	56	112	101414
BB82A-6	196	39 58 04.1 S	145 09 25.3 E	342604	5574174	57	112	101425
BB82A-6	197	39 58 03.4 S	145 09 24.2 E	342579	5574196	56	112	101435
BB82A-6	198	39 58 02.7 S	145 09 23.1 E	342553	5574218	57	112	101446
BB82A-6	199	39 58 01.9 S	145 09 22.1 E	342528	5574240	57	112	101456
BB82A-6	200	39 58 01.2 S	145 09 21.1 E	342503	5574262	56	112	1015 7
BB82A-6	201	39 58 00.5 S	145 09 20.0 E	342478	5574284	56	112	101517
BB82A-6	202	39 57 59.7 S	145 09 19.0 E	342452	5574306	56	112	101528
BB82A-6	203	39 57 59.0 S	145 09 17.9 E	342427	5574328	56	112	101539
BB82A-6	204	39 57 58.3 S	145 09 16.9 E	342401	5574349	56	112	101549
BB82A-6	205	39 57 57.6 S	145 09 15.9 E	342377	5574371	57	112	101559
BB82A-6	206	39 57 56.8 S	145 09 14.8 E	342351	5574393	57	112	1016 9
BB82A-6	207	39 57 56.1 S	145 09 13.8 E	342326	5574414	56	112	101620
BB82A-6	208	39 57 55.4 S	145 09 12.7 E	342300	5574436	56	112	101630
BB82A-6	209	39 57 54.7 S	145 09 11.7 E	342276	5574457	56	112	101641
BB82A-6	210	39 57 54.0 S	145 09 10.6 E	342250	5574479	56	112	101651
BB82A-6	211	39 57 53.3 S	145 09 09.6 E	342226	5574501	57	112	1017 2
BB82A-6	212	39 57 52.6 S	145 09 08.6 E	342201	5574522	57	112	101712
BB82A-6	213	39 57 51.8 S	145 09 07.5 E	342176	5574544	56	112	101723
BB82A-6	214	39 57 51.1 S	145 09 06.5 E	342150	5574566	56	112	101733
BB82A-6	215	39 57 50.4 S	145 09 05.5 E	342126	5574588	57	112	101743
BB82A-6	216	39 57 49.6 S	145 09 04.4 E	342100	5574610	56	112	101753

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	217	39 57 48.9 S	145 09 03.4 E	342076	5574632	57	112	1018 3
BB82A-6	218	39 57 48.2 S	145 09 02.4 E	342051	5574654	56	112	101813
BB82A-6	219	39 57 47.5 S	145 09 01.4 E	342027	5574676	56	112	101823
BB82A-6	220	39 57 46.7 S	145 09 00.3 E	342002	5574698	57	112	101834
BB82A-6	221	39 57 46.0 S	145 08 59.4 E	341978	5574720	56	112	101844
BB82A-6	222	39 57 45.3 S	145 08 58.3 E	341953	5574742	56	112	101855
BB82A-6	223	39 57 44.5 S	145 08 57.3 E	341929	5574765	57	112	1019 5
BB82A-6	224	39 57 43.8 S	145 08 56.3 E	341905	5574787	57	112	101915
BB82A-6	225	39 57 43.0 S	145 08 55.3 E	341880	5574809	57	112	101925
BB82A-6	226	39 57 42.3 S	145 08 54.3 E	341856	5574832	56	112	101936
BB82A-6	227	39 57 41.6 S	145 08 53.3 E	341832	5574854	57	112	101946
BB82A-6	228	39 57 40.8 S	145 08 52.3 E	341807	5574877	56	112	101957
BB82A-6	229	39 57 40.1 S	145 08 51.3 E	341783	5574899	56	112	1020 7
BB82A-6	230	39 57 39.3 S	145 08 50.3 E	341759	5574922	56	112	102017
BB82A-6	231	39 57 38.6 S	145 08 49.3 E	341734	5574944	56	112	102028
BB82A-6	232	39 57 37.8 S	145 08 48.3 E	341710	5574967	56	112	102039
BB82A-6	233	39 57 37.0 S	145 08 47.2 E	341685	5574990	56	112	102049
BB82A-6	234	39 57 36.3 S	145 08 46.3 E	341661	5575012	57	112	102059
BB82A-6	235	39 57 35.6 S	145 08 45.2 E	341636	5575035	56	112	102110
BB82A-6	236	39 57 34.8 S	145 08 44.2 E	341612	5575058	56	112	102120
BB82A-6	237	39 57 34.1 S	145 08 43.2 E	341587	5575080	57	112	102130
BB82A-6	238	39 57 33.3 S	145 08 42.2 E	341563	5575103	57	112	102140
BB82A-6	239	39 57 32.5 S	145 08 41.2 E	341538	5575126	56	112	102151
BB82A-6	240	39 57 31.8 S	145 08 40.2 E	341514	5575148	57	112	1022 1
BB82A-6	241	39 57 31.0 S	145 08 39.1 E	341488	5575171	57	112	102212
BB82A-6	242	39 57 30.3 S	145 08 38.1 E	341464	5575194	56	112	102223
BB82A-6	243	39 57 29.6 S	145 08 37.1 E	341439	5575216	56	112	102233
BB82A-6	244	39 57 28.8 S	145 08 36.1 E	341415	5575239	56	112	102244
BB82A-6	245	39 57 28.0 S	145 08 35.0 E	341389	5575262	57	112	102255
BB82A-6	246	39 57 27.3 S	145 08 34.0 E	341365	5575284	57	112	1023 5
BB82A-6	247	39 57 26.5 S	145 08 33.0 E	341339	5575307	56	112	102315
BB82A-6	248	39 57 25.8 S	145 08 32.0 E	341315	5575329	56	112	102325
BB82A-6	249	39 57 25.0 S	145 08 30.9 E	341290	5575352	56	112	102336
BB82A-6	250	39 57 24.3 S	145 08 29.9 E	341266	5575375	56	112	102346
BB82A-6	251	39 57 23.5 S	145 08 28.9 E	341240	5575397	57	112	102357
BB82A-6	252	39 57 22.8 S	145 08 27.9 E	341216	5575420	56	112	1024 7
BB82A-6	253	39 57 22.0 S	145 08 26.8 E	341191	5575443	57	112	102418
BB82A-6	254	39 57 21.3 S	145 08 25.8 E	341167	5575465	57	112	102428
BB82A-6	255	39 57 20.5 S	145 08 24.8 E	341142	5575488	56	112	102439
BB82A-6	256	39 57 19.8 S	145 08 23.8 E	341117	5575510	56	112	102449
BB82A-6	257	39 57 19.0 S	145 08 22.8 E	341093	5575533	56	112	102459
BB82A-6	258	39 57 18.3 S	145 08 21.8 E	341068	5575555	56	112	1025 9
BB82A-6	259	39 57 17.5 S	145 08 20.7 E	341043	5575578	57	112	102519
BB82A-6	260	39 57 16.8 S	145 08 19.7 E	341019	5575600	57	112	102530
BB82A-6	261	39 57 16.1 S	145 08 18.7 E	340994	5575623	56	112	102540
BB82A-6	262	39 57 15.3 S	145 08 17.7 E	340970	5575645	56	112	102551
BB82A-6	263	39 57 14.6 S	145 08 16.7 E	340945	5575667	56	112	1026 1
BB82A-6	264	39 57 13.9 S	145 08 15.6 E	340920	5575689	56	112	102612
BB82A-6	265	39 57 13.1 S	145 08 14.6 E	340896	5575711	56	112	102622
BB82A-6	266	39 57 12.4 S	145 08 13.6 E	340871	5575733	57	112	102633
BB82A-6	267	39 57 11.7 S	145 08 12.6 E	340846	5575755	56	112	102643
BB82A-6	268	39 57 10.9 S	145 08 11.6 E	340822	5575777	55	112	102653
BB82A-6	269	39 57 10.2 S	145 08 10.5 E	340796	5575799	56	112	1027 3
BB82A-6	270	39 57 09.5 S	145 08 09.5 E	340772	5575820	56	112	102713

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BB82A-6	271	39 57 08.8 S	145 08 08.5 E	340747	5575842	57	112	102723
BB82A-6	272	39 57 08.1 S	145 08 07.4 E	340722	5575864	56	112	102733
BB82A-6	273	39 57 07.4 S	145 08 06.4 E	340697	5575885	55	112	102744
BB82A-6	274	39 57 06.6 S	145 08 05.3 E	340671	5575907	55	112	102754
BB82A-6	275	39 57 05.9 S	145 08 04.3 E	340646	5575928	57	112	1028 4
BB82A-6	276	39 57 05.2 S	145 08 03.3 E	340621	5575949	56	112	102814
BB82A-6	277	39 57 04.5 S	145 08 02.2 E	340595	5575971	56	112	102825
BB82A-6	278	39 57 03.8 S	145 08 01.2 E	340570	5575992	56	112	102835
BB82A-6	279	39 57 03.1 S	145 08 00.1 E	340544	5576013	56	112	102846
BB82A-6	280	39 57 02.4 S	145 07 59.1 E	340520	5576035	56	112	102856
BB82A-6	281	39 57 01.7 S	145 07 58.0 E	340494	5576056	56	112	1029 6
BB82A-6	282	39 57 00.9 S	145 07 57.0 E	340469	5576078	57	112	102917
BB82A-6	283	39 57 00.3 S	145 07 55.9 E	340443	5576099	56	112	102927
BB82A-6	284	39 56 59.5 S	145 07 54.9 E	340419	5576121	56	112	102937
BB82A-6	285	39 56 58.8 S	145 07 53.8 E	340393	5576142	56	112	102948
BB82A-6	286	39 56 58.1 S	145 07 52.8 E	340368	5576164	57	112	102958
BB82A-6	287	39 56 57.4 S	145 07 51.7 E	340342	5576186	57	112	1030 8
BB82A-6	288	39 56 56.6 S	145 07 50.7 E	340318	5576208	56	112	103019
BB82A-6	289	39 56 55.9 S	145 07 49.7 E	340292	5576230	56	112	103029
BB82A-6	290	39 56 55.2 S	145 07 48.7 E	340268	5576252	56	112	103039
BB82A-6	291	39 56 54.4 S	145 07 47.6 E	340243	5576275	55	112	103050
BB82A-6	292	39 56 53.7 S	145 07 46.6 E	340218	5576297	55	112	1031 1
BB82A-6	293	39 56 52.9 S	145 07 45.6 E	340193	5576320	56	112	103111
BB82A-6	294	39 56 52.2 S	145 07 44.5 E	340168	5576342	55	112	103121
BB82A-6	295	39 56 51.4 S	145 07 43.5 E	340143	5576365	56	112	103131
BB82A-6	296	39 56 50.7 S	145 07 42.5 E	340118	5576388	56	112	103142
BB82A-6	297	39 56 49.9 S	145 07 41.4 E	340093	5576411	55	112	103152
BB82A-6	298	39 56 49.2 S	145 07 40.4 E	340067	5576433	56	112	1032 3
BB82A-6	299	39 56 48.4 S	145 07 39.4 E	340043	5576456	56	112	103213
BB82A-6	300	39 56 47.6 S	145 07 38.3 E	340018	5576479	56	112	103224
BB82A-6	301	39 56 46.9 S	145 07 37.3 E	339994	5576502	56	112	103234
BB82A-6	302	39 56 46.1 S	145 07 36.3 E	339968	5576525	56	112	103245
BB82A-6	303	39 56 45.4 S	145 07 35.3 E	339944	5576548	56	112	103255
BB82A-6	304	39 56 44.6 S	145 07 34.2 E	339919	5576570	57	112	1033 5
BB82A-6	305	39 56 43.9 S	145 07 33.3 E	339895	5576593	56	112	103316
BB82A-6	306	39 56 43.1 S	145 07 32.2 E	339870	5576616	56	112	103327
BB82A-6	307	39 56 42.3 S	145 07 31.2 E	339845	5576639	57	112	103337
BB82A-6	308	39 56 41.6 S	145 07 30.2 E	339821	5576661	56	112	103347
BB82A-6	309	39 56 40.8 S	145 07 29.2 E	339796	5576684	56	112	103358
BB82A-6	310	39 56 40.1 S	145 07 28.2 E	339772	5576706	56	112	1034 8
BB82A-6	311	39 56 39.4 S	145 07 27.1 E	339747	5576729	56	112	103418
BB82A-6	312	39 56 38.6 S	145 07 26.2 E	339723	5576751	56	112	103428
BB82A-6	313	39 56 37.9 S	145 07 25.1 E	339698	5576774	57	112	103439
BB82A-6	314	39 56 37.1 S	145 07 24.1 E	339674	5576796	56	112	103449
BB82A-6	315	39 56 36.4 S	145 07 23.1 E	339649	5576819	56	112	103459
BB82A-6	316	39 56 35.6 S	145 07 22.1 E	339625	5576841	57	112	1035 9
BB82A-6	317	39 56 34.9 S	145 07 21.1 E	339601	5576864	0	112	103519
BB82A-6	318	39 56 34.1 S	145 07 20.1 E	339576	5576886	0	112	103530
BB82A-6	319	39 56 33.4 S	145 07 19.1 E	339552	5576908	0	112	103540
BB82A-6	320	39 56 32.7 S	145 07 18.1 E	339528	5576931	0	112	103550
BB82A-6	321	39 56 31.9 S	145 07 17.1 E	339504	5576953	0	112	1036 0
BB82A-6	322	39 56 31.2 S	145 07 16.1 E	339479	5576976	0	112	103611
BB82A-6	323	39 56 30.4 S	145 07 15.1 E	339455	5576998	0	112	103621
BB82A-6	324	39 56 29.7 S	145 07 14.1 E	339431	5577021	0	112	103631

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BB82A-6	325	39 56 28.9 S	145 07 13.1 E	339406	5577043	0	112	103642
BB82A-6	326	39 56 28.2 S	145 07 12.1 E	339382	5577066	0	112	103652
BB82A-6	327	39 56 27.5 S	145 07 11.1 E	339358	5577088	0	112	1037 2
BB82A-6	328	39 56 26.7 S	145 07 10.0 E	339333	5577111	0	112	103712
BB82A-6	329	39 56 26.0 S	145 07 09.1 E	339309	5577133	0	112	103723
BB82A-6	330	39 56 25.2 S	145 07 08.0 E	339284	5577156	56	112	103733
BB82A-6	331	39 56 24.5 S	145 07 07.0 E	339260	5577178	56	112	103743
BB82A-6	332	39 56 23.7 S	145 07 06.0 E	339235	5577201	57	112	103754
BB82A-6	333	39 56 23.0 S	145 07 05.0 E	339211	5577223	57	112	1038 4
BB82A-6	334	39 56 22.2 S	145 07 04.0 E	339186	5577246	56	112	103814
BB82A-6	335	39 56 21.5 S	145 07 02.9 E	339161	5577268	56	112	103825
BB82A-6	336	39 56 20.8 S	145 07 02.0 E	339137	5577290	56	112	103835
BB82A-6	337	39 56 20.0 S	145 07 00.9 E	339111	5577313	56	112	103845
BB82A-6	338	39 56 19.3 S	145 06 59.9 E	339087	5577335	56	112	103855
BB82A-6	339	39 56 18.5 S	145 06 58.9 E	339062	5577357	57	112	1039 6
BB82A-6	340	39 56 17.8 S	145 06 57.8 E	339037	5577379	56	112	103916
BB82A-6	341	39 56 17.1 S	145 06 56.8 E	339012	5577401	56	112	103927
BB82A-6	342	39 56 16.3 S	145 06 55.8 E	338987	5577423	56	112	103937
BB82A-6	343	39 56 15.6 S	145 06 54.7 E	338961	5577445	56	112	103948
BB82A-6	344	39 56 14.9 S	145 06 53.7 E	338937	5577467	56	112	103958
BB82A-6	345	39 56 14.1 S	145 06 52.6 E	338911	5577489	55	112	1040 8
BB82A-6	346	39 56 13.4 S	145 06 51.6 E	338886	5577511	56	112	104018
BB82A-6	347	39 56 12.7 S	145 06 50.5 E	338861	5577533	56	112	104029
BB82A-6	348	39 56 12.0 S	145 06 49.5 E	338835	5577554	56	112	104040
BB82A-6	349	39 56 11.3 S	145 06 48.4 E	338810	5577576	56	112	104050
BB82A-6	350	39 56 10.5 S	145 06 47.4 E	338785	5577598	56	112	1041 0
BB82A-6	351	39 56 09.8 S	145 06 46.3 E	338759	5577620	56	112	104110
BB82A-6	352	39 56 09.1 S	145 06 45.3 E	338734	5577642	56	112	104120
BB82A-6	353	39 56 08.3 S	145 06 44.3 E	338709	5577664	56	112	104131
BB82A-6	354	39 56 07.6 S	145 06 43.2 E	338683	5577686	56	112	104141
BB82A-6	355	39 56 06.9 S	145 06 42.2 E	338658	5577708	57	112	104151
BB82A-6	356	39 56 06.1 S	145 06 41.1 E	338632	5577730	57	112	1042 2
BB82A-6	357	39 56 05.4 S	145 06 40.0 E	338607	5577752	57	112	104212
BB82A-6	358	39 56 04.7 S	145 06 39.0 E	338581	5577774	56	112	104222
BB82A-6	359	39 56 03.9 S	145 06 37.9 E	338556	5577796	56	112	104232
BB82A-6	360	39 56 03.2 S	145 06 36.9 E	338531	5577819	57	112	104243
BB82A-6	361	39 56 02.5 S	145 06 35.9 E	338506	5577841	56	112	104253
BB82A-6	362	39 56 01.7 S	145 06 34.8 E	338480	5577863	56	112	1043 4
BB82A-6	363	39 56 01.0 S	145 06 33.8 E	338455	5577886	56	112	104314
BB82A-6	364	39 56 00.2 S	145 06 32.7 E	338429	5577908	56	112	104325
BB82A-6	365	39 55 59.5 S	145 06 31.7 E	338405	5577931	56	112	104335
BB82A-6	366	39 55 58.7 S	145 06 30.6 E	338379	5577953	57	112	104346
BB82A-6	367	39 55 58.0 S	145 06 29.6 E	338355	5577976	57	112	104356
BB82A-6	368	39 55 57.2 S	145 06 28.6 E	338329	5577998	57	112	1044 6
BB82A-6	369	39 55 56.5 S	145 06 27.6 E	338305	5578020	56	112	104416
BB82A-6	370	39 55 55.8 S	145 06 26.5 E	338280	5578043	56	112	104427
BB82A-6	371	39 55 55.0 S	145 06 25.5 E	338256	5578065	56	112	104437
BB82A-6	372	39 55 54.3 S	145 06 24.5 E	338231	5578087	56	112	104447
BB82A-6	373	39 55 53.5 S	145 06 23.5 E	338206	5578110	56	112	104457
BB82A-6	374	39 55 52.8 S	145 06 22.4 E	338181	5578132	56	112	1045 7
BB82A-6	375	39 55 52.1 S	145 06 21.5 E	338157	5578154	56	112	104517
BB82A-6	376	39 55 51.3 S	145 06 20.4 E	338132	5578176	56	112	104527
BB82A-6	377	39 55 50.6 S	145 06 19.4 E	338108	5578198	56	112	104537
BB82A-6	378	39 55 49.9 S	145 06 18.4 E	338083	5578220	56	112	104547

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-6	379	39 55 49.1 S	145 06 17.4 E	338059	5578242	56	112	104557
BB82A-6	380	39 55 48.4 S	145 06 16.4 E	338034	5578264	56	112	1046 7
BB82A-6	381	39 55 47.7 S	145 06 15.4 E	338010	5578286	56	112	104618
BB82A-6	382	39 55 47.0 S	145 06 14.3 E	337985	5578308	56	112	104628
BB82A-6	383	39 55 46.2 S	145 06 13.4 E	337961	5578330	56	112	104638
BB82A-6	384	39 55 45.5 S	145 06 12.4 E	337937	5578352	56	112	104648
BB82A-6	385	39 55 44.7 S	145 06 11.3 E	337912	5578375	56	112	104658
BB82A-6	386	39 55 44.0 S	145 06 10.3 E	337888	5578397	55	112	1047 8
BB82A-6	387	39 55 43.3 S	145 06 09.3 E	337863	5578419	56	112	104718
BB82A-6	388	39 55 42.5 S	145 06 08.3 E	337839	5578442	57	112	104729
BB82A-6	389	39 55 41.8 S	145 06 07.3 E	337815	5578464	56	112	104739
BB82A-6	390	39 55 41.0 S	145 06 06.3 E	337790	5578487	56	112	104749
BB82A-6	391	39 55 40.3 S	145 06 05.3 E	337766	5578510	56	112	104759
BB82A-6	392	39 55 39.5 S	145 06 04.3 E	337741	5578532	56	112	104810
BB82A-6	393	39 55 38.8 S	145 06 03.3 E	337717	5578555	56	112	104820
BB82A-6	394	39 55 38.0 S	145 06 02.3 E	337692	5578578	56	112	104830
BB82A-6	395	39 55 37.2 S	145 06 01.3 E	337668	5578601	56	112	104840
BB82A-6	396	39 55 36.5 S	145 06 00.2 E	337643	5578624	56	112	104851
BB82A-6	397	39 55 35.7 S	145 05 59.2 E	337619	5578647	56	112	1049 1
BB82A-6	398	39 55 35.0 S	145 05 58.2 E	337594	5578670	56	112	104911
BB82A-6	399	39 55 34.2 S	145 05 57.2 E	337570	5578693	55	112	104922
BB82A-6	400	39 55 33.4 S	145 05 56.2 E	337545	5578717	57	112	104932
BB82A-6	401	39 55 32.6 S	145 05 55.2 E	337521	5578740	56	112	104942
BB82A-6	402	39 55 31.9 S	145 05 54.2 E	337496	5578763	55	112	104952
BB82A-6	403	39 55 31.1 S	145 05 53.2 E	337472	5578786	56	112	1050 3
BB82A-6	404	39 55 30.3 S	145 05 52.1 E	337447	5578809	56	112	105013
BB82A-6	405	39 55 29.6 S	145 05 51.2 E	337423	5578832	56	112	105023
BB82A-6	406	39 55 28.8 S	145 05 50.1 E	337398	5578855	56	112	105033
BB82A-6	407	39 55 28.1 S	145 05 49.1 E	337373	5578878	56	112	105044
BB82A-6	408	39 55 27.3 S	145 05 48.1 E	337349	5578901	56	112	105054
BB82A-6	409	39 55 26.5 S	145 05 47.1 E	337324	5578924	56	112	1051 4
BB82A-6	410	39 55 25.8 S	145 05 46.1 E	337300	5578947	56	112	105114
BB82A-6	411	39 55 25.0 S	145 05 45.0 E	337275	5578969	56	112	105125
BB82A-6	412	39 55 24.3 S	145 05 44.1 E	337251	5578992	55	112	105135
BB82A-6	413	39 55 23.5 S	145 05 43.0 E	337226	5579014	56	112	105145
BB82A-6	414	39 55 22.8 S	145 05 42.0 E	337201	5579037	56	112	105156
BB82A-6	415	39 55 22.1 S	145 05 41.0 E	337177	5579059	56	112	1052 6
BB82A-6	416	39 55 21.3 S	145 05 39.9 E	337151	5579081	55	112	105216
BB82A-6	417	39 55 20.6 S	145 05 38.9 E	337127	5579104	56	112	105226
BB82A-6	418	39 55 19.8 S	145 05 37.9 E	337101	5579126	56	112	105237
BB82A-6	419	39 55 19.1 S	145 05 36.9 E	337077	5579148	56	112	105247
BB82A-6	420	39 55 18.4 S	145 05 35.8 E	337051	5579170	55	112	105257
BB82A-6	421	39 55 17.6 S	145 05 34.8 E	337026	5579192	0	112	1053 7
BB82A-6	422	39 55 16.9 S	145 05 33.7 E	337000	5579214	57	112	105317
BB82A-6	423	39 55 16.2 S	145 05 32.7 E	336975	5579236	56	112	105328
BB82A-6	424	39 55 15.4 S	145 05 31.6 E	336950	5579258	56	112	105338
BB82A-6	425	39 55 14.7 S	145 05 30.6 E	336925	5579280	56	112	105348
BB82A-6	426	39 55 14.0 S	145 05 29.5 E	336899	5579302	56	112	105359

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	1	40 07 55.2 S	145 23 38.2 E	363168	5556340	59	111	1732 3
BB82A-7B	2	40 07 55.8 S	145 23 37.0 E	363140	5556321	59	111	173214
BB82A-7B	3	40 07 56.4 S	145 23 35.8 E	363113	5556302	58	111	173225
BB82A-7B	4	40 07 57.0 S	145 23 34.6 E	363085	5556283	58	111	173236
BB82A-7B	5	40 07 57.6 S	145 23 33.5 E	363058	5556264	58	111	173247
BB82A-7B	6	40 07 58.2 S	145 23 32.3 E	363031	5556245	59	111	173259
BB82A-7B	7	40 07 58.8 S	145 23 31.1 E	363003	5556226	59	111	173310
BB82A-7B	8	40 07 59.4 S	145 23 30.0 E	362976	5556207	58	111	173322
BB82A-7B	9	40 08 00.0 S	145 23 28.8 E	362949	5556188	58	111	173332
BB82A-7B	10	40 08 00.6 S	145 23 27.6 E	362921	5556168	58	111	173344
BB82A-7B	11	40 08 01.2 S	145 23 26.5 E	362894	5556149	59	111	173354
BB82A-7B	12	40 08 01.8 S	145 23 25.3 E	362867	5556130	58	111	1734 4
BB82A-7B	13	40 08 02.4 S	145 23 24.2 E	362840	5556111	58	111	173415
BB82A-7B	14	40 08 03.0 S	145 23 23.0 E	362813	5556092	58	111	173426
BB82A-7B	15	40 08 03.6 S	145 23 21.8 E	362785	5556073	59	111	173437
BB82A-7B	16	40 08 04.2 S	145 23 20.7 E	362758	5556054	59	111	173448
BB82A-7B	17	40 08 04.8 S	145 23 19.5 E	362731	5556035	58	111	173458
BB82A-7B	18	40 08 05.4 S	145 23 18.3 E	362704	5556016	58	111	1735 9
BB82A-7B	19	40 08 06.1 S	145 23 17.2 E	362677	5555996	57	111	173520
BB82A-7B	20	40 08 06.7 S	145 23 16.0 E	362650	5555977	58	111	173532
BB82A-7B	21	40 08 07.3 S	145 23 14.9 E	362623	5555958	57	111	173543
BB82A-7B	22	40 08 07.9 S	145 23 13.7 E	362595	5555939	57	111	173554
BB82A-7B	23	40 08 08.5 S	145 23 12.5 E	362568	5555920	57	111	1736 4
BB82A-7B	24	40 08 09.1 S	145 23 11.4 E	362541	5555901	57	111	173616
BB82A-7B	25	40 08 09.7 S	145 23 10.2 E	362514	5555882	57	111	173626
BB82A-7B	26	40 08 10.3 S	145 23 09.1 E	362487	5555863	57	111	173637
BB82A-7B	27	40 08 10.9 S	145 23 07.9 E	362460	5555844	57	111	173648
BB82A-7B	28	40 08 11.5 S	145 23 06.7 E	362433	5555825	57	111	1737 0
BB82A-7B	29	40 08 12.1 S	145 23 05.6 E	362406	5555805	57	111	173711
BB82A-7B	30	40 08 12.7 S	145 23 04.4 E	362378	5555786	57	111	173722
BB82A-7B	31	40 08 13.3 S	145 23 03.2 E	362351	5555767	57	111	173733
BB82A-7B	32	40 08 13.9 S	145 23 02.1 E	362324	5555748	57	111	173744
BB82A-7B	33	40 08 14.5 S	145 23 00.9 E	362297	5555729	56	111	173754
BB82A-7B	34	40 08 15.1 S	145 22 59.8 E	362270	5555710	57	111	1738 6
BB82A-7B	35	40 08 15.7 S	145 22 58.6 E	362243	5555691	57	111	173817
BB82A-7B	36	40 08 16.3 S	145 22 57.4 E	362215	5555672	56	111	173828
BB82A-7B	37	40 08 16.9 S	145 22 56.3 E	362188	5555653	57	111	173839
BB82A-7B	38	40 08 17.5 S	145 22 55.1 E	362161	5555634	56	111	173850
BB82A-7B	39	40 08 18.1 S	145 22 54.0 E	362134	5555615	56	111	1739 1
BB82A-7B	40	40 08 18.7 S	145 22 52.8 E	362106	5555596	56	111	173912
BB82A-7B	41	40 08 19.3 S	145 22 51.6 E	362079	5555577	56	111	173923
BB82A-7B	42	40 08 19.9 S	145 22 50.5 E	362052	5555559	56	111	173935
BB82A-7B	43	40 08 20.5 S	145 22 49.3 E	362024	5555540	57	111	173945
BB82A-7B	44	40 08 21.1 S	145 22 48.1 E	361997	5555521	57	111	173956
BB82A-7B	45	40 08 21.7 S	145 22 46.9 E	361970	5555502	57	111	1740 7
BB82A-7B	46	40 08 22.3 S	145 22 45.7 E	361942	5555483	56	111	174019
BB82A-7B	47	40 08 22.8 S	145 22 44.6 E	361915	5555465	56	111	174029
BB82A-7B	48	40 08 23.4 S	145 22 43.4 E	361887	5555446	57	111	174041
BB82A-7B	49	40 08 24.0 S	145 22 42.2 E	361860	5555427	56	111	174052
BB82A-7B	50	40 08 24.6 S	145 22 41.0 E	361832	5555408	56	111	1741 3
BB82A-7B	51	40 08 25.2 S	145 22 39.9 E	361805	5555390	56	111	174114
BB82A-7B	52	40 08 25.8 S	145 22 38.7 E	361777	5555371	56	111	174126
BB82A-7B	53	40 08 26.4 S	145 22 37.5 E	361750	5555352	56	111	174137
BB82A-7B	54	40 08 27.0 S	145 22 36.3 E	361722	5555334	56	111	174149

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	55	40 08 27.6 S	145 22 35.1 E	361694	5555315	56	111	1742 0
BB82A-7B	56	40 08 28.2 S	145 22 34.0 E	361667	5555296	55	111	174211
BB82A-7B	57	40 08 28.7 S	145 22 32.8 E	361639	5555278	56	111	174222
BB82A-7B	58	40 08 29.3 S	145 22 31.6 E	361611	5555259	55	111	174233
BB82A-7B	59	40 08 29.9 S	145 22 30.4 E	361583	5555241	56	111	174244
BB82A-7B	60	40 08 30.5 S	145 22 29.2 E	361555	5555223	55	111	174255
BB82A-7B	61	40 08 31.0 S	145 22 28.0 E	361528	5555205	55	111	1743 7
BB82A-7B	62	40 08 31.6 S	145 22 26.8 E	361500	5555186	55	111	174318
BB82A-7B	63	40 08 32.2 S	145 22 25.6 E	361472	5555168	55	111	174330
BB82A-7B	64	40 08 32.8 S	145 22 24.5 E	361444	5555150	55	111	174340
BB82A-7B	65	40 08 33.4 S	145 22 23.3 E	361416	5555131	55	111	174351
BB82A-7B	66	40 08 33.9 S	145 22 22.1 E	361388	5555113	54	111	1744 2
BB82A-7B	67	40 08 34.5 S	145 22 20.9 E	361360	5555095	55	111	174413
BB82A-7B	68	40 08 35.1 S	145 22 19.7 E	361332	5555076	54	111	174424
BB82A-7B	69	40 08 35.7 S	145 22 18.5 E	361304	5555058	54	111	174435
BB82A-7B	70	40 08 36.2 S	145 22 17.3 E	361276	5555040	55	111	174446
BB82A-7B	71	40 08 36.8 S	145 22 16.1 E	361248	5555021	55	111	174458
BB82A-7B	72	40 08 37.4 S	145 22 14.9 E	361220	5555003	54	111	1745 9
BB82A-7B	73	40 08 38.0 S	145 22 13.7 E	361192	5554985	54	111	174520
BB82A-7B	74	40 08 38.5 S	145 22 12.5 E	361164	5554967	54	111	174532
BB82A-7B	75	40 08 39.1 S	145 22 11.3 E	361136	5554948	54	111	174544
BB82A-7B	76	40 08 39.7 S	145 22 10.1 E	361108	5554930	54	111	174554
BB82A-7B	77	40 08 40.3 S	145 22 08.9 E	361080	5554912	54	111	1746 6
BB82A-7B	78	40 08 40.9 S	145 22 07.7 E	361052	5554893	55	111	174617
BB82A-7B	79	40 08 41.4 S	145 22 06.5 E	361024	5554875	54	111	174629
BB82A-7B	80	40 08 42.0 S	145 22 05.3 E	360996	5554857	54	111	174641
BB82A-7B	81	40 08 42.6 S	145 22 04.1 E	360968	5554838	54	111	174652
BB82A-7B	82	40 08 43.2 S	145 22 02.9 E	360940	5554819	54	111	1747 2
BB82A-7B	83	40 08 43.8 S	145 22 01.7 E	360912	5554801	54	111	174713
BB82A-7B	84	40 08 44.4 S	145 22 00.5 E	360885	5554782	54	111	174724
BB82A-7B	85	40 08 44.9 S	145 21 59.4 E	360857	5554764	54	111	174736
BB82A-7B	86	40 08 45.5 S	145 21 58.2 E	360829	5554745	54	111	174747
BB82A-7B	87	40 08 46.1 S	145 21 57.0 E	360801	5554727	54	111	174758
BB82A-7B	88	40 08 46.7 S	145 21 55.8 E	360774	5554709	54	111	1748 9
BB82A-7B	89	40 08 47.3 S	145 21 54.6 E	360746	5554690	54	111	174819
BB82A-7B	90	40 08 47.9 S	145 21 53.4 E	360718	5554671	54	111	174830
BB82A-7B	91	40 08 48.4 S	145 21 52.3 E	360691	5554653	54	111	174842
BB82A-7B	92	40 08 49.0 S	145 21 51.1 E	360663	5554634	54	111	174853
BB82A-7B	93	40 08 49.6 S	145 21 49.9 E	360636	5554615	53	111	1749 4
BB82A-7B	94	40 08 50.2 S	145 21 48.7 E	360608	5554597	53	111	174915
BB82A-7B	95	40 08 50.8 S	145 21 47.5 E	360581	5554578	54	111	174925
BB82A-7B	96	40 08 51.4 S	145 21 46.4 E	360554	5554559	54	111	174936
BB82A-7B	97	40 08 52.0 S	145 21 45.2 E	360526	5554540	54	111	174947
BB82A-7B	98	40 08 52.6 S	145 21 44.0 E	360499	5554521	5	111	174958
BB82A-7B	99	40 08 53.2 S	145 21 42.9 E	360472	5554502	53	111	1750 9
BB82A-7B	100	40 08 53.8 S	145 21 41.7 E	360445	5554483	53	111	175021
BB82A-7B	101	40 08 54.4 S	145 21 40.5 E	360417	5554463*******		111	175033
BB82A-7B	102	40 08 55.0 S	145 21 39.4 E	360390	5554444*******		111	175044
BB82A-7B	103	40 08 55.6 S	145 21 38.2 E	360363	5554425*******		111	175055
BB82A-7B	104	40 08 56.2 S	145 21 37.1 E	360336	5554406*******		111	1751 6
BB82A-7B	105	40 08 56.9 S	145 21 35.9 E	360309	5554386*******		111	175118
BB82A-7B	106	40 08 57.5 S	145 21 34.8 E	360282	5554367*******		111	175129
BB82A-7B	107	40 08 58.1 S	145 21 33.6 E	360255	5554348*******		111	175140
BB82A-7B	108	40 08 58.7 S	145 21 32.4 E	360228	5554328*******		111	175152

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	109	40 08 59.3 S	145 21 31.3 E	360201	5554309*******		111	1752 3
BB82A-7B	110	40 08 59.9 S	145 21 30.1 E	360174	5554290*******		111	175214
BB82A-7B	111	40 09 00.5 S	145 21 29.0 E	360148	5554270*******		111	175225
BB82A-7B	112	40 09 01.1 S	145 21 27.9 E	360121	5554251*******		111	175236
BB82A-7B	113	40 09 01.8 S	145 21 26.7 E	360094	5554231*******		111	175247
BB82A-7B	114	40 09 02.4 S	145 21 25.5 E	360067	5554212*******		111	175258
BB82A-7B	115	40 09 03.0 S	145 21 24.4 E	360040	5554193*******		111	175310
BB82A-7B	116	40 09 03.6 S	145 21 23.2 E	360013	5554173*******		111	175323
BB82A-7B	117	40 09 04.2 S	145 21 22.1 E	359986	5554154*******		111	175334
BB82A-7B	118	40 09 04.8 S	145 21 20.9 E	359959	5554135*******		111	175345
BB82A-7B	119	40 09 05.4 S	145 21 19.8 E	359932	5554115	52	111	175356
BB82A-7B	120	40 09 06.0 S	145 21 18.6 E	359905	5554096	51	111	1754 8
BB82A-7B	121	40 09 06.6 S	145 21 17.5 E	359878	5554077	51	111	175419
BB82A-7B	122	40 09 07.3 S	145 21 16.3 E	359851	5554057	52	111	175430
BB82A-7B	123	40 09 07.9 S	145 21 15.1 E	359824	5554038	52	111	175441
BB82A-7B	124	40 09 08.5 S	145 21 13.9 E	359796	5554019	51	111	175453
BB82A-7B	125	40 09 09.1 S	145 21 12.8 E	359769	5554000	52	111	1755 4
BB82A-7B	126	40 09 09.7 S	145 21 11.6 E	359742	5553981	52	111	175515
BB82A-7B	127	40 09 10.3 S	145 21 10.5 E	359715	5553961	52	111	175526
BB82A-7B	128	40 09 10.9 S	145 21 09.3 E	359687	5553942	52	111	175538
BB82A-7B	129	40 09 11.5 S	145 21 08.1 E	359660	5553923	51	111	175549
BB82A-7B	130	40 09 12.1 S	145 21 06.9 E	359632	5553904	51	111	1756 1
BB82A-7B	131	40 09 12.7 S	145 21 05.8 E	359605	5553885	52	111	175611
BB82A-7B	132	40 09 13.3 S	145 21 04.6 E	359578	5553866	52	111	175623
BB82A-7B	133	40 09 13.9 S	145 21 03.4 E	359550	5553848	52	111	175634
BB82A-7B	134	40 09 14.5 S	145 21 02.2 E	359522	5553829	52	111	175645
BB82A-7B	135	40 09 15.1 S	145 21 01.1 E	359495	5553810	51	111	175656
BB82A-7B	136	40 09 15.6 S	145 20 59.9 E	359467	5553792	52	111	1757 8
BB82A-7B	137	40 09 16.2 S	145 20 58.7 E	359440	5553773	52	111	175719
BB82A-7B	138	40 09 16.8 S	145 20 57.5 E	359412	5553754	53	111	175730
BB82A-7B	139	40 09 17.4 S	145 20 56.3 E	359384	5553736	52	111	175741
BB82A-7B	140	40 09 18.0 S	145 20 55.1 E	359356	5553717	52	111	175752
BB82A-7B	141	40 09 18.6 S	145 20 54.0 E	359329	5553699	52	111	1758 3
BB82A-7B	142	40 09 19.1 S	145 20 52.8 E	359301	5553681	52	111	175815
BB82A-7B	143	40 09 19.7 S	145 20 51.6 E	359273	5553662	53	111	175825
BB82A-7B	144	40 09 20.3 S	145 20 50.4 E	359245	5553644	52	111	175836
BB82A-7B	145	40 09 20.9 S	145 20 49.2 E	359217	5553626	52	111	175847
BB82A-7B	146	40 09 21.4 S	145 20 48.0 E	359189	5553608	52	111	175859
BB82A-7B	147	40 09 22.0 S	145 20 46.8 E	359162	5553589	52	111	175910
BB82A-7B	148	40 09 22.6 S	145 20 45.6 E	359134	5553571	51	111	175922
BB82A-7B	149	40 09 23.2 S	145 20 44.4 E	359106	5553553	52	111	175933
BB82A-7B	150	40 09 23.7 S	145 20 43.2 E	359078	5553535	52	111	175944
BB82A-7B	151	40 09 24.3 S	145 20 42.0 E	359050	5553517	52	111	175956
BB82A-7B	152	40 09 24.9 S	145 20 40.8 E	359022	5553499	52	111	18 0 7
BB82A-7B	153	40 09 25.4 S	145 20 39.6 E	358994	5553481	52	111	18 018
BB82A-7B	154	40 09 26.0 S	145 20 38.4 E	358966	5553463	52	111	18 030
BB82A-7B	155	40 09 26.5 S	145 20 37.2 E	358938	5553446	52	111	18 040
BB82A-7B	156	40 09 27.1 S	145 20 36.0 E	358910	5553428	52	111	18 052
BB82A-7B	157	40 09 27.7 S	145 20 34.9 E	358883	5553410	53	111	18 1 4
BB82A-7B	158	40 09 28.2 S	145 20 33.7 E	358855	5553392	53	111	18 115
BB82A-7B	159	40 09 28.8 S	145 20 32.5 E	358827	5553374	53	111	18 126
BB82A-7B	160	40 09 29.4 S	145 20 31.3 E	358799	5553356	53	111	18 137
BB82A-7B	161	40 09 29.9 S	145 20 30.1 E	358771	5553338	52	111	18 149
BB82A-7B	162	40 09 30.5 S	145 20 28.9 E	358743	5553320	52	111	18 159

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	163	40 09 31.1 S	145 20 27.7 E	358715	5553302	52	111	18 211
BB82A-7B	164	40 09 31.6 S	145 20 26.5 E	358687	5553284	52	111	18 221
BB82A-7B	165	40 09 32.2 S	145 20 25.4 E	358660	5553266	53	111	18 233
BB82A-7B	166	40 09 32.8 S	145 20 24.2 E	358632	5553248	52	111	18 245
BB82A-7B	167	40 09 33.4 S	145 20 23.0 E	358604	5553229	53	111	18 256
BB82A-7B	168	40 09 33.9 S	145 20 21.8 E	358576	5553211	53	111	18 3 6
BB82A-7B	169	40 09 34.5 S	145 20 20.6 E	358548	5553193	52	111	18 317
BB82A-7B	170	40 09 35.1 S	145 20 19.4 E	358520	5553174	52	111	18 329
BB82A-7B	171	40 09 35.7 S	145 20 18.2 E	358493	5553156	51	111	18 340
BB82A-7B	172	40 09 36.2 S	145 20 17.0 E	358465	5553138	52	111	18 351
BB82A-7B	173	40 09 36.8 S	145 20 15.8 E	358437	5553119	52	111	18 4 3
BB82A-7B	174	40 09 37.4 S	145 20 14.6 E	358409	5553100	51	111	18 414
BB82A-7B	175	40 09 38.0 S	145 20 13.4 E	358381	5553082	52	111	18 426
BB82A-7B	176	40 09 38.6 S	145 20 12.2 E	358353	5553063	52	111	18 437
BB82A-7B	177	40 09 39.1 S	145 20 11.1 E	358326	5553045	52	111	18 449
BB82A-7B	178	40 09 39.7 S	145 20 09.9 E	358298	5553027	52	111	18 5 0
BB82A-7B	179	40 09 40.3 S	145 20 08.7 E	358270	5553008	52	111	18 511
BB82A-7B	180	40 09 40.9 S	145 20 07.5 E	358242	5552989	52	111	18 523
BB82A-7B	181	40 09 41.5 S	145 20 06.3 E	358214	5552971	52	111	18 534
BB82A-7B	182	40 09 42.1 S	145 20 05.1 E	358186	5552952	52	111	18 544
BB82A-7B	183	40 09 42.7 S	145 20 03.9 E	358159	5552933	52	111	18 556
BB82A-7B	184	40 09 43.3 S	145 20 02.7 E	358131	5552914	52	111	18 6 7
BB82A-7B	185	40 09 43.8 S	145 20 01.5 E	358103	5552896	52	111	18 619
BB82A-7B	186	40 09 44.4 S	145 20 00.3 E	358075	5552877	51	111	18 631
BB82A-7B	187	40 09 45.0 S	145 19 59.1 E	358047	5552858	51	111	18 642
BB82A-7B	188	40 09 45.6 S	145 19 58.0 E	358020	5552839	51	111	18 654
BB82A-7B	189	40 09 46.2 S	145 19 56.8 E	357992	5552820	51	111	18 7 5
BB82A-7B	190	40 09 46.8 S	145 19 55.6 E	357964	5552801	51	111	18 717
BB82A-7B	191	40 09 47.4 S	145 19 54.4 E	357936	5552782	51	111	18 728
BB82A-7B	192	40 09 48.0 S	145 19 53.2 E	357908	5552763	52	111	18 739
BB82A-7B	193	40 09 48.6 S	145 19 52.0 E	357881	5552744	52	111	18 750
BB82A-7B	194	40 09 49.2 S	145 19 50.8 E	357853	5552725	52	111	18 8 1
BB82A-7B	195	40 09 49.8 S	145 19 49.6 E	357825	5552706	52	111	18 813
BB82A-7B	196	40 09 50.4 S	145 19 48.5 E	357798	5552687	51	111	18 824
BB82A-7B	197	40 09 51.0 S	145 19 47.3 E	357770	5552668	51	111	18 835
BB82A-7B	198	40 09 51.6 S	145 19 46.1 E	357742	5552649	52	111	18 846
BB82A-7B	199	40 09 52.2 S	145 19 44.9 E	357715	5552631	52	111	18 857
BB82A-7B	200	40 09 52.8 S	145 19 43.7 E	357687	5552612	52	111	18 9 8
BB82A-7B	201	40 09 53.4 S	145 19 42.5 E	357659	5552593	51	111	18 920
BB82A-7B	202	40 09 54.0 S	145 19 41.4 E	357632	5552574	52	111	18 932
BB82A-7B	203	40 09 54.6 S	145 19 40.2 E	357604	5552555	52	111	18 943
BB82A-7B	204	40 09 55.2 S	145 19 39.0 E	357577	5552537	52	111	18 955
BB82A-7B	205	40 09 55.8 S	145 19 37.8 E	357549	5552518	51	111	1810 5
BB82A-7B	206	40 09 56.4 S	145 19 36.7 E	357522	5552499	51	111	181017
BB82A-7B	207	40 09 57.0 S	145 19 35.5 E	357495	5552480	52	111	181027
BB82A-7B	208	40 09 57.5 S	145 19 34.3 E	357467	5552462	52	111	181039
BB82A-7B	209	40 09 58.1 S	145 19 33.1 E	357440	5552443	52	111	181049
BB82A-7B	210	40 09 58.7 S	145 19 31.9 E	357412	5552424	52	111	1811 1
BB82A-7B	211	40 09 59.3 S	145 19 30.8 E	357385	5552406	52	111	181113
BB82A-7B	212	40 09 59.9 S	145 19 29.6 E	357358	5552387	52	111	181124
BB82A-7B	213	40 10 00.5 S	145 19 28.5 E	357331	5552368	52	111	181135
BB82A-7B	214	40 10 01.1 S	145 19 27.3 E	357303	5552350	52	111	181146
BB82A-7B	215	40 10 01.7 S	145 19 26.1 E	357276	5552331	52	111	181158
BB82A-7B	216	40 10 02.3 S	145 19 25.0 E	357249	5552312	51	111	181210

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	217	40 10 02.8 S	145 19 23.8 E	357222	5552294	51	111	181221
BB82A-7B	218	40 10 03.4 S	145 19 22.7 E	357195	5552275	51	111	181233
BB82A-7B	219	40 10 04.0 S	145 19 21.5 E	357167	5552256	52	111	181244
BB82A-7B	220	40 10 04.6 S	145 19 20.3 E	357140	5552238	48	111	181255
BB82A-7B	221	40 10 05.2 S	145 19 19.2 E	357113	5552219	52	111	1813 6
BB82A-7B	222	40 10 05.8 S	145 19 18.0 E	357086	5552200	52	111	181318
BB82A-7B	223	40 10 06.4 S	145 19 16.8 E	357059	5552181	51	111	181330
BB82A-7B	224	40 10 07.0 S	145 19 15.7 E	357032	5552163	51	111	181341
BB82A-7B	225	40 10 07.6 S	145 19 14.5 E	357005	5552144	52	111	181352
BB82A-7B	226	40 10 08.2 S	145 19 13.4 E	356978	5552125	52	111	1814 4
BB82A-7B	227	40 10 08.8 S	145 19 12.2 E	356950	5552106	52	111	181414
BB82A-7B	228	40 10 09.4 S	145 19 11.0 E	356923	5552087	52	111	181425
BB82A-7B	229	40 10 10.0 S	145 19 09.9 E	356896	5552068	52	111	181436
BB82A-7B	230	40 10 10.6 S	145 19 08.7 E	356869	5552049	52	111	181448
BB82A-7B	231	40 10 11.2 S	145 19 07.5 E	356842	5552030	51	111	181459
BB82A-7B	232	40 10 11.7 S	145 19 06.4 E	356815	5552011	51	111	181511
BB82A-7B	233	40 10 12.4 S	145 19 05.2 E	356788	5551991	52	111	181522
BB82A-7B	234	40 10 13.0 S	145 19 04.1 E	356761	5551972	52	111	181533
BB82A-7B	235	40 10 13.6 S	145 19 02.9 E	356733	5551953	52	111	181544
BB82A-7B	236	40 10 14.2 S	145 19 01.7 E	356706	5551933	52	111	181555
BB82A-7B	237	40 10 14.8 S	145 19 00.6 E	356679	5551914	51	111	1816 6
BB82A-7B	238	40 10 15.4 S	145 18 59.4 E	356652	5551894	51	111	181617
BB82A-7B	239	40 10 16.0 S	145 18 58.3 E	356625	5551875	52	111	181628
BB82A-7B	240	40 10 16.7 S	145 18 57.1 E	356597	5551855	52	111	181639
BB82A-7B	241	40 10 17.3 S	145 18 55.9 E	356570	5551836	52	111	181650
BB82A-7B	242	40 10 17.9 S	145 18 54.7 E	356543	5551816	52	111	1817 1
BB82A-7B	243	40 10 18.5 S	145 18 53.5 E	356515	5551797	51	111	181713
BB82A-7B	244	40 10 19.1 S	145 18 52.4 E	356488	5551777	52	111	181724
BB82A-7B	245	40 10 19.7 S	145 18 51.2 E	356461	5551758	52	111	181736
BB82A-7B	246	40 10 20.4 S	145 18 50.0 E	356433	5551738	51	111	181747
BB82A-7B	247	40 10 21.0 S	145 18 48.9 E	356406	5551719	52	111	181758
BB82A-7B	248	40 10 21.6 S	145 18 47.7 E	356379	5551699	51	111	1818 9
BB82A-7B	249	40 10 22.2 S	145 18 46.5 E	356351	5551679	52	111	181821
BB82A-7B	250	40 10 22.8 S	145 18 45.4 E	356324	5551660	52	111	181832
BB82A-7B	251	40 10 23.5 S	145 18 44.2 E	356297	5551640	51	111	181844
BB82A-7B	252	40 10 24.1 S	145 18 43.0 E	356269	5551621	52	111	181855
BB82A-7B	253	40 10 24.7 S	145 18 41.8 E	356242	5551601	52	111	1819 7
BB82A-7B	254	40 10 25.3 S	145 18 40.6 E	356214	5551582	52	111	181918
BB82A-7B	255	40 10 25.9 S	145 18 39.5 E	356187	5551563	52	111	181930
BB82A-7B	256	40 10 26.5 S	145 18 38.3 E	356159	5551543	52	111	181941
BB82A-7B	257	40 10 27.1 S	145 18 37.1 E	356132	5551524	51	111	181954
BB82A-7B	258	40 10 27.7 S	145 18 36.0 E	356105	5551505	51	111	1820 5
BB82A-7B	259	40 10 28.3 S	145 18 34.8 E	356077	5551486	52	111	182016
BB82A-7B	260	40 10 28.9 S	145 18 33.6 E	356050	5551467	52	111	182028
BB82A-7B	261	40 10 29.5 S	145 18 32.4 E	356022	5551448	51	111	182039
BB82A-7B	262	40 10 30.1 S	145 18 31.3 E	355995	5551429	51	111	182050
BB82A-7B	263	40 10 30.7 S	145 18 30.1 E	355967	5551410	52	111	1821 2
BB82A-7B	264	40 10 31.3 S	145 18 28.9 E	355940	5551391	52	111	182113
BB82A-7B	265	40 10 31.9 S	145 18 27.8 E	355913	5551372	52	111	182124
BB82A-7B	266	40 10 32.5 S	145 18 26.6 E	355885	5551353	51	111	182136
BB82A-7B	267	40 10 33.1 S	145 18 25.4 E	355858	5551335	52	111	182147
BB82A-7B	268	40 10 33.7 S	145 18 24.2 E	355830	5551316	52	111	182158
BB82A-7B	269	40 10 34.3 S	145 18 23.0 E	355803	5551297	52	111	182210
BB82A-7B	270	40 10 34.8 S	145 18 21.8 E	355775	5551279	52	111	182221

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	271	40 10 35.4 S	145 18 20.7 E	355748	5551260	51	111	182233
BB82A-7B	272	40 10 36.0 S	145 18 19.5 E	355721	5551242	51	111	182245
BB82A-7B	273	40 10 36.6 S	145 18 18.3 E	355693	5551224	51	111	182256
BB82A-7B	274	40 10 37.2 S	145 18 17.2 E	355666	5551205	52	111	1823 7
BB82A-7B	275	40 10 37.7 S	145 18 16.0 E	355638	5551187	52	111	182319
BB82A-7B	276	40 10 38.3 S	145 18 14.8 E	355611	5551169	51	111	182331
BB82A-7B	277	40 10 38.9 S	145 18 13.6 E	355583	5551151	52	111	182342
BB82A-7B	278	40 10 39.4 S	145 18 12.5 E	355556	5551133	52	111	182353
BB82A-7B	279	40 10 40.0 S	145 18 11.3 E	355528	5551114	51	111	1824 5
BB82A-7B	280	40 10 40.6 S	145 18 10.1 E	355501	5551096	51	111	182417
BB82A-7B	281	40 10 41.2 S	145 18 08.9 E	355473	5551078	51	111	182428
BB82A-7B	282	40 10 41.7 S	145 18 07.7 E	355445	5551060	51	111	182440
BB82A-7B	283	40 10 42.3 S	145 18 06.6 E	355418	5551042	51	111	182451
BB82A-7B	284	40 10 42.9 S	145 18 05.4 E	355390	5551024	51	111	1825 3
BB82A-7B	285	40 10 43.4 S	145 18 04.2 E	355363	5551006	51	111	182514
BB82A-7B	286	40 10 44.0 S	145 18 03.0 E	355335	5550987	51	111	182525
BB82A-7B	287	40 10 44.6 S	145 18 01.8 E	355307	5550969	52	111	182536
BB82A-7B	288	40 10 45.2 S	145 18 00.7 E	355280	5550951	51	111	182548
BB82A-7B	289	40 10 45.7 S	145 17 59.5 E	355252	5550933	51	111	1826 0
BB82A-7B	290	40 10 46.3 S	145 17 58.3 E	355224	5550914	51	111	182611
BB82A-7B	291	40 10 46.9 S	145 17 57.1 E	355197	5550896	51	111	182621
BB82A-7B	292	40 10 47.5 S	145 17 55.9 E	355169	5550878	51	111	182633
BB82A-7B	293	40 10 48.1 S	145 17 54.7 E	355141	5550859	51	111	182644
BB82A-7B	294	40 10 48.7 S	145 17 53.6 E	355114	5550840	52	111	182655
BB82A-7B	295	40 10 49.2 S	145 17 52.4 E	355086	5550822	51	111	1827 6
BB82A-7B	296	40 10 49.8 S	145 17 51.2 E	355058	5550804	51	111	182718
BB82A-7B	297	40 10 50.4 S	145 17 50.0 E	355031	5550785	51	111	182729
BB82A-7B	298	40 10 51.0 S	145 17 48.8 E	355003	5550766	51	111	182741
BB82A-7B	299	40 10 51.6 S	145 17 47.6 E	354975	5550748	52	111	182753
BB82A-7B	300	40 10 52.2 S	145 17 46.4 E	354947	5550729	51	111	1828 3
BB82A-7B	301	40 10 52.8 S	145 17 45.3 E	354920	5550710	51	111	182815
BB82A-7B	302	40 10 53.4 S	145 17 44.1 E	354892	5550691	51	111	182826
BB82A-7B	303	40 10 54.0 S	145 17 42.9 E	354864	5550672	51	111	182838
BB82A-7B	304	40 10 54.6 S	145 17 41.7 E	354837	5550653	51	111	182849
BB82A-7B	305	40 10 55.2 S	145 17 40.5 E	354809	5550634	51	111	1829 0
BB82A-7B	306	40 10 55.8 S	145 17 39.3 E	354781	5550614	52	111	182911
BB82A-7B	307	40 10 56.4 S	145 17 38.1 E	354754	5550595	51	111	182923
BB82A-7B	308	40 10 57.0 S	145 17 36.9 E	354726	5550576	51	111	182935
BB82A-7B	309	40 10 57.6 S	145 17 35.8 E	354699	5550557	51	111	182946
BB82A-7B	310	40 10 58.2 S	145 17 34.6 E	354671	5550538	51	111	182957
BB82A-7B	311	40 10 58.8 S	145 17 33.4 E	354644	5550518	51	111	183010
BB82A-7B	312	40 10 59.4 S	145 17 32.2 E	354616	5550499	51	111	183022
BB82A-7B	313	40 11 00.0 S	145 17 31.1 E	354589	5550480	51	111	183033
BB82A-7B	314	40 11 00.6 S	145 17 29.9 E	354562	5550461	51	111	183043
BB82A-7B	315	40 11 01.2 S	145 17 28.7 E	354534	5550441	52	111	183054
BB82A-7B	316	40 11 01.8 S	145 17 27.6 E	354507	5550422	51	111	1831 6
BB82A-7B	317	40 11 02.4 S	145 17 26.4 E	354480	5550403	51	111	183118
BB82A-7B	318	40 11 03.0 S	145 17 25.2 E	354452	5550384	51	111	183130
BB82A-7B	319	40 11 03.6 S	145 17 24.0 E	354425	5550365	51	111	183141
BB82A-7B	320	40 11 04.3 S	145 17 22.9 E	354398	5550345	52	111	183152
BB82A-7B	321	40 11 04.9 S	145 17 21.7 E	354371	5550326	51	111	1832 4
BB82A-7B	322	40 11 05.5 S	145 17 20.6 E	354344	5550307	51	111	183215
BB82A-7B	323	40 11 06.1 S	145 17 19.4 E	354316	5550288	50	111	183227
BB82A-7B	324	40 11 06.7 S	145 17 18.2 E	354289	5550269	51	111	183238

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-7B	325	40 11 07.3 S	145 17 17.1 E	354262	5550250	51	111	183249
BB82A-7B	326	40 11 07.9 S	145 17 15.9 E	354235	5550231	51	111	1833 1
BB82A-7B	327	40 11 08.4 S	145 17 14.8 E	354208	5550213	51	111	183312
BB82A-7B	328	40 11 09.0 S	145 17 13.6 E	354181	5550194	52	111	183324
BB82A-7B	329	40 11 09.6 S	145 17 12.4 E	354154	5550175	51	111	183335
BB82A-7B	330	40 11 10.2 S	145 17 11.2 E	354126	5550156	51	111	183346
BB82A-7B	331	40 11 10.8 S	145 17 10.1 E	354099	5550138	51	111	183357
BB82A-7B	332	40 11 11.4 S	145 17 08.9 E	354072	5550119	51	111	1834 9
BB82A-7B	333	40 11 12.0 S	145 17 07.8 E	354045	5550100	51	111	183420
BB82A-7B	334	40 11 12.6 S	145 17 06.6 E	354017	5550082	51	111	183431
BB82A-7B	335	40 11 13.2 S	145 17 05.4 E	353990	5550063	51	111	183443
BB82A-7B	336	40 11 13.8 S	145 17 04.3 E	353963	5550044	51	111	183455
BB82A-7B	337	40 11 14.3 S	145 17 03.1 E	353935	5550026	52	111	1835 5
BB82A-7B	338	40 11 14.9 S	145 17 01.9 E	353908	5550007	51	111	183517
BB82A-7B	339	40 11 15.5 S	145 17 00.7 E	353881	5549989	51	111	183527
BB82A-7B	340	40 11 16.1 S	145 16 59.5 E	353853	5549970	51	111	183541
BB82A-7B	341	40 11 16.6 S	145 16 58.3 E	353825	5549952	52	111	183552
BB82A-7B	342	40 11 17.2 S	145 16 57.2 E	353798	5549933	51	111	1836 5
BB82A-7B	343	40 11 17.8 S	145 16 56.0 E	353770	5549915	50	111	183615
BB82A-7B	344	40 11 18.4 S	145 16 54.8 E	353742	5549896	50	111	183626
BB82A-7B	345	40 11 19.0 S	145 16 53.6 E	353714	5549878	51	111	183638
BB82A-7B	346	40 11 19.6 S	145 16 52.4 E	353686	5549859	51	111	183650
BB82A-7B	347	40 11 20.1 S	145 16 51.2 E	353658	5549841	51	111	1837 1
BB82A-7B	348	40 11 20.7 S	145 16 50.0 E	353630	5549822	51	111	183712
BB82A-7B	349	40 11 21.3 S	145 16 48.8 E	353601	5549804	51	111	183723
BB82A-7B	350	40 11 21.9 S	145 16 47.6 E	353573	5549786	51	111	183735
BB82A-7B	351	40 11 22.5 S	145 16 46.4 E	353545	5549767	51	111	183747
BB82A-7B	352	40 11 23.1 S	145 16 45.2 E	353517	5549748	51	111	183759
BB82A-7B	353	40 11 23.6 S	145 16 43.9 E	353488	5549730	51	111	183811
BB82A-7B	354	40 11 24.2 S	145 16 42.7 E	353460	5549711	51	111	183821
BB82A-7B	355	40 11 24.8 S	145 16 41.5 E	353431	5549692	51	111	183834
BB82A-7B	356	40 11 25.4 S	145 16 40.3 E	353403	5549673	51	111	183845
BB82A-7B	357	40 11 26.0 S	145 16 39.0 E	353374	5549654	50	111	183857
BB82A-7B	358	40 11 26.6 S	145 16 37.8 E	353345	5549635	50	111	1839 8
BB82A-7B	359	40 11 27.2 S	145 16 36.6 E	353316	5549616	51	111	183920
BB82A-7B	360	40 11 27.8 S	145 16 35.3 E	353287	5549596	50	111	183932
BB82A-7B	361	40 11 28.4 S	145 16 34.1 E	353259	5549577	51	111	183943

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-9	1	40 06 12.7 S	145 12 28.1 E	347245	5559197	55	111	202556
BB82A-9	2	40 06 12.0 S	145 12 29.1 E	347269	5559220	54	111	2026 6
BB82A-9	3	40 06 11.3 S	145 12 30.2 E	347293	5559243	55	111	202616
BB82A-9	4	40 06 10.5 S	145 12 31.2 E	347317	5559266	55	111	202627
BB82A-9	5	40 06 09.8 S	145 12 32.2 E	347341	5559288	54	111	202638
BB82A-9	6	40 06 09.1 S	145 12 33.3 E	347365	5559311	54	111	202648
BB82A-9	7	40 06 08.4 S	145 12 34.3 E	347389	5559334	54	111	202658
BB82A-9	8	40 06 07.7 S	145 12 35.3 E	347412	5559356	54	111	2027 8
BB82A-9	9	40 06 06.9 S	145 12 36.3 E	347436	5559379	54	111	202718
BB82A-9	10	40 06 06.2 S	145 12 37.3 E	347460	5559402	54	111	202729
BB82A-9	11	40 06 05.5 S	145 12 38.4 E	347484	5559424	54	111	202740
BB82A-9	12	40 06 04.8 S	145 12 39.4 E	347508	5559447	54	111	202750
BB82A-9	13	40 06 04.1 S	145 12 40.4 E	347532	5559470	54	111	2028 0
BB82A-9	14	40 06 03.3 S	145 12 41.5 E	347556	5559493	54	111	202812
BB82A-9	15	40 06 02.6 S	145 12 42.5 E	347580	5559516	54	111	202822
BB82A-9	16	40 06 01.9 S	145 12 43.5 E	347603	5559539	54	111	202832
BB82A-9	17	40 06 01.1 S	145 12 44.5 E	347627	5559562	54	111	202843
BB82A-9	18	40 06 00.4 S	145 12 45.6 E	347651	5559585	54	111	202853
BB82A-9	19	40 05 59.7 S	145 12 46.6 E	347675	5559608	54	111	2029 4
BB82A-9	20	40 05 58.9 S	145 12 47.6 E	347699	5559632	54	111	202914
BB82A-9	21	40 05 58.2 S	145 12 48.7 E	347723	5559655	54	111	202924
BB82A-9	22	40 05 57.5 S	145 12 49.7 E	347747	5559678	54	111	202935
BB82A-9	23	40 05 56.7 S	145 12 50.7 E	347770	5559701	54	111	202945
BB82A-9	24	40 05 56.0 S	145 12 51.7 E	347794	5559724	54	111	202956
BB82A-9	25	40 05 55.2 S	145 12 52.8 E	347818	5559748	55	111	2030 7
BB82A-9	26	40 05 54.5 S	145 12 53.8 E	347842	5559771	55	111	203017
BB82A-9	27	40 05 53.8 S	145 12 54.8 E	347866	5559794	55	111	203028
BB82A-9	28	40 05 53.0 S	145 12 55.9 E	347890	5559818	55	111	203039
BB82A-9	29	40 05 52.3 S	145 12 56.9 E	347914	5559841	54	111	203049
BB82A-9	30	40 05 51.5 S	145 12 57.9 E	347937	5559864	54	111	203059
BB82A-9	31	40 05 50.8 S	145 12 58.9 E	347961	5559888	54	111	203110
BB82A-9	32	40 05 50.1 S	145 12 59.9 E	347985	5559911	54	111	203121
BB82A-9	33	40 05 49.3 S	145 13 01.0 E	348009	5559934	55	111	203132
BB82A-9	34	40 05 48.6 S	145 13 02.0 E	348033	5559958	55	111	203142
BB82A-9	35	40 05 47.8 S	145 13 03.0 E	348057	5559982	54	111	203152
BB82A-9	36	40 05 47.1 S	145 13 04.0 E	348080	5560005	54	111	2032 3
BB82A-9	37	40 05 46.3 S	145 13 05.1 E	348104	5560029	55	111	203213
BB82A-9	38	40 05 45.6 S	145 13 06.1 E	348128	5560052	54	111	203224
BB82A-9	39	40 05 44.8 S	145 13 07.1 E	348152	5560076	54	111	203234
BB82A-9	40	40 05 44.1 S	145 13 08.1 E	348175	5560099	55	111	203245
BB82A-9	41	40 05 43.3 S	145 13 09.2 E	348199	5560123	54	111	203256
BB82A-9	42	40 05 42.6 S	145 13 10.2 E	348223	5560146	55	111	2033 6
BB82A-9	43	40 05 41.9 S	145 13 11.2 E	348247	5560169	55	111	203317
BB82A-9	44	40 05 41.1 S	145 13 12.2 E	348270	5560193	54	111	203327
BB82A-9	45	40 05 40.3 S	145 13 13.2 E	348294	5560217	55	111	203338
BB82A-9	46	40 05 39.6 S	145 13 14.3 E	348318	5560240	55	111	203349
BB82A-9	47	40 05 38.8 S	145 13 15.3 E	348342	5560264	54	111	203359
BB82A-9	48	40 05 38.1 S	145 13 16.3 E	348365	5560287	55	111	2034 9
BB82A-9	49	40 05 37.3 S	145 13 17.3 E	348389	5560311	54	111	203419
BB82A-9	50	40 05 36.6 S	145 13 18.4 E	348413	5560334	55	111	203430
BB82A-9	51	40 05 35.9 S	145 13 19.4 E	348436	5560358	54	111	203440
BB82A-9	52	40 05 35.1 S	145 13 20.4 E	348460	5560382	54	111	203450
BB82A-9	53	40 05 34.4 S	145 13 21.4 E	348484	5560405	55	111	2035 1
BB82A-9	54	40 05 33.6 S	145 13 22.5 E	348508	5560429	55	111	203512

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-9	55	40 05 32.8 S	145 13 23.4 E	348531	5560453	54	111	203522
BB82A-9	56	40 05 32.1 S	145 13 24.5 E	348555	5560476	55	111	203532
BB82A-9	57	40 05 31.3 S	145 13 25.5 E	348579	5560500	55	111	203543
BB82A-9	58	40 05 30.6 S	145 13 26.5 E	348602	5560523	54	111	203553
BB82A-9	59	40 05 29.9 S	145 13 27.5 E	348626	5560547	55	111	2036 3
BB82A-9	60	40 05 29.1 S	145 13 28.6 E	348650	5560570	55	111	203614
BB82A-9	61	40 05 28.4 S	145 13 29.6 E	348673	5560594	54	111	203624
BB82A-9	62	40 05 27.6 S	145 13 30.6 E	348697	5560617	54	111	203635
BB82A-9	63	40 05 26.9 S	145 13 31.6 E	348721	5560641	54	111	203645
BB82A-9	64	40 05 26.1 S	145 13 32.7 E	348745	5560664	54	111	203656
BB82A-9	65	40 05 25.4 S	145 13 33.6 E	348768	5560688	55	111	2037 6
BB82A-9	66	40 05 24.6 S	145 13 34.7 E	348792	5560711	54	111	203717
BB82A-9	67	40 05 23.9 S	145 13 35.7 E	348816	5560735	55	111	203728
BB82A-9	68	40 05 23.1 S	145 13 36.7 E	348840	5560758	55	111	203739
BB82A-9	69	40 05 22.4 S	145 13 37.7 E	348863	5560781	54	111	203749
BB82A-9	70	40 05 21.7 S	145 13 38.8 E	348887	5560805	55	111	203759
BB82A-9	71	40 05 20.9 S	145 13 39.8 E	348911	5560828	55	111	203810
BB82A-9	72	40 05 20.2 S	145 13 40.8 E	348935	5560851	55	111	203820
BB82A-9	73	40 05 19.4 S	145 13 41.9 E	348959	5560875	54	111	203831
BB82A-9	74	40 05 18.7 S	145 13 42.9 E	348983	5560898	55	111	203841
BB82A-9	75	40 05 18.0 S	145 13 43.9 E	349007	5560921	55	111	203853
BB82A-9	76	40 05 17.2 S	145 13 45.0 E	349031	5560945	54	111	2039 3
BB82A-9	77	40 05 16.5 S	145 13 46.0 E	349055	5560968	55	111	203914
BB82A-9	78	40 05 15.7 S	145 13 47.0 E	349079	5560991	54	111	203924
BB82A-9	79	40 05 15.0 S	145 13 48.1 E	349103	5561015	55	111	203934
BB82A-9	80	40 05 14.3 S	145 13 49.1 E	349127	5561038	54	111	203944
BB82A-9	81	40 05 13.5 S	145 13 50.1 E	349151	5561061	55	111	203955
BB82A-9	82	40 05 12.8 S	145 13 51.2 E	349175	5561085	55	111	2040 5
BB82A-9	83	40 05 12.0 S	145 13 52.2 E	349199	5561108	55	111	204016
BB82A-9	84	40 05 11.3 S	145 13 53.2 E	349223	5561131	54	111	204026
BB82A-9	85	40 05 10.5 S	145 13 54.3 E	349247	5561155	55	111	204037
BB82A-9	86	40 05 09.8 S	145 13 55.2 E	349270	5561178	55	111	204047
BB82A-9	87	40 05 09.1 S	145 13 56.3 E	349294	5561201	55	111	204058
BB82A-9	88	40 05 08.4 S	145 13 57.3 E	349318	5561224	55	111	2041 8
BB82A-9	89	40 05 07.6 S	145 13 58.3 E	349342	5561248	55	111	204118
BB82A-9	90	40 05 06.9 S	145 13 59.4 E	349366	5561271	55	111	204129
BB82A-9	91	40 05 06.1 S	145 14 00.4 E	349390	5561294	55	111	204140
BB82A-9	92	40 05 05.4 S	145 14 01.4 E	349414	5561318	55	111	204150
BB82A-9	93	40 05 04.6 S	145 14 02.5 E	349438	5561341	55	111	2042 1
BB82A-9	94	40 05 03.9 S	145 14 03.5 E	349462	5561365	54	111	204211
BB82A-9	95	40 05 03.1 S	145 14 04.5 E	349486	5561388	55	111	204222
BB82A-9	96	40 05 02.4 S	145 14 05.5 E	349509	5561411	54	111	204233
BB82A-9	97	40 05 01.6 S	145 14 06.6 E	349533	5561435	55	111	204243
BB82A-9	98	40 05 00.9 S	145 14 07.6 E	349557	5561458	55	111	204254
BB82A-9	99	40 05 00.2 S	145 14 08.6 E	349581	5561482	54	111	2043 4
BB82A-9	100	40 04 59.4 S	145 14 09.6 E	349604	5561506	54	111	204315
BB82A-9	101	40 04 58.7 S	145 14 10.7 E	349628	5561529	55	111	204325
BB82A-9	102	40 04 57.9 S	145 14 11.7 E	349652	5561553	55	111	204336
BB82A-9	103	40 04 57.2 S	145 14 12.7 E	349675	5561576	55	111	204347
BB82A-9	104	40 04 56.4 S	145 14 13.7 E	349699	5561599	55	111	204357
BB82A-9	105	40 04 55.7 S	145 14 14.7 E	349722	5561623	55	111	2044 7
BB82A-9	106	40 04 54.9 S	145 14 15.7 E	349746	5561647	54	111	204417
BB82A-9	107	40 04 54.2 S	145 14 16.7 E	349769	5561670	55	111	204428
BB82A-9	108	40 04 53.4 S	145 14 17.7 E	349792	5561694	55	111	204439

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-9	109	40 04 52.7 S	145 14 18.7 E	349816	5561718	54	111	204449
BB82A-9	110	40 04 51.9 S	145 14 19.7 E	349839	5561742	54	111	204459
BB82A-9	111	40 04 51.2 S	145 14 20.7 E	349862	5561765	55	111	204510
BB82A-9	112	40 04 50.4 S	145 14 21.8 E	349886	5561789	55	111	204520
BB82A-9	113	40 04 49.6 S	145 14 22.7 E	349909	5561813	55	111	204531
BB82A-9	114	40 04 48.9 S	145 14 23.7 E	349932	5561837	55	111	204541
BB82A-9	115	40 04 48.1 S	145 14 24.7 E	349955	5561861	54	111	204552
BB82A-9	116	40 04 47.3 S	145 14 25.8 E	349979	5561885	55	111	2046 2
BB82A-9	117	40 04 46.6 S	145 14 26.8 E	350002	5561909	54	111	204613
BB82A-9	118	40 04 45.9 S	145 14 27.7 E	350025	5561932	54	111	204623
BB82A-9	119	40 04 45.1 S	145 14 28.7 E	350048	5561956	55	111	204634
BB82A-9	120	40 04 44.3 S	145 14 29.7 E	350071	5561980	55	111	204644
BB82A-9	121	40 04 43.6 S	145 14 30.8 E	350095	5562004	55	111	204655
BB82A-9	122	40 04 42.8 S	145 14 31.7 E	350118	5562028	54	111	2047 5
BB82A-9	123	40 04 42.0 S	145 14 32.7 E	350141	5562052	55	111	204717
BB82A-9	124	40 04 41.3 S	145 14 33.7 E	350164	5562076	55	111	204727
BB82A-9	125	40 04 40.5 S	145 14 34.8 E	350188	5562100	55	111	204738
BB82A-9	126	40 04 39.7 S	145 14 35.8 E	350211	5562124	55	111	204748
BB82A-9	127	40 04 39.0 S	145 14 36.7 E	350234	5562147	55	111	2048 0
BB82A-9	128	40 04 38.3 S	145 14 37.8 E	350258	5562171	55	111	204810
BB82A-9	129	40 04 37.5 S	145 14 38.8 E	350281	5562195	56	111	204822
BB82A-9	130	40 04 36.7 S	145 14 39.8 E	350305	5562219	54	111	204832
BB82A-9	131	40 04 36.0 S	145 14 40.8 E	350329	5562243	56	111	204843
BB82A-9	132	40 04 35.2 S	145 14 41.8 E	350352	5562266	55	111	204853
BB82A-9	133	40 04 34.5 S	145 14 42.8 E	350375	5562290	55	111	2049 3
BB82A-9	134	40 04 33.7 S	145 14 43.8 E	350399	5562314	55	111	204913
BB82A-9	135	40 04 33.0 S	145 14 44.9 E	350423	5562337	55	111	204924
BB82A-9	136	40 04 32.2 S	145 14 45.9 E	350447	5562361	56	111	204934
BB82A-9	137	40 04 31.5 S	145 14 46.9 E	350470	5562384	56	111	204945
BB82A-9	138	40 04 30.8 S	145 14 47.9 E	350494	5562407	55	111	204956
BB82A-9	139	40 04 30.0 S	145 14 49.0 E	350519	5562431	55	111	2050 6
BB82A-9	140	40 04 29.3 S	145 14 50.0 E	350543	5562454	54	111	205017
BB82A-9	141	40 04 28.5 S	145 14 51.1 E	350567	5562477	55	111	205027
BB82A-9	142	40 04 27.8 S	145 14 52.1 E	350591	5562500	55	111	205038
BB82A-9	143	40 04 27.1 S	145 14 53.2 E	350616	5562523	55	111	205049
BB82A-9	144	40 04 26.3 S	145 14 54.2 E	350640	5562546	55	111	205059
BB82A-9	145	40 04 25.6 S	145 14 55.3 E	350665	5562569	55	111	2051 9
BB82A-9	146	40 04 24.9 S	145 14 56.3 E	350689	5562592	56	111	205121
BB82A-9	147	40 04 24.1 S	145 14 57.4 E	350714	5562615	55	111	205132
BB82A-9	148	40 04 23.4 S	145 14 58.4 E	350738	5562638	55	111	205142
BB82A-9	149	40 04 22.7 S	145 14 59.5 E	350763	5562660	55	111	205152
BB82A-9	150	40 04 22.0 S	145 15 00.5 E	350787	5562683	55	111	2052 3
BB82A-9	151	40 04 21.3 S	145 15 01.6 E	350813	5562706	55	111	205214
BB82A-9	152	40 04 20.6 S	145 15 02.7 E	350837	5562728	55	111	205225
BB82A-9	153	40 04 19.8 S	145 15 03.7 E	350862	5562751	55	111	205235
BB82A-9	154	40 04 19.1 S	145 15 04.8 E	350887	5562773	55	111	205246
BB82A-9	155	40 04 18.4 S	145 15 05.9 E	350912	5562796	55	111	205256
BB82A-9	156	40 04 17.7 S	145 15 07.0 E	350937	5562818	55	111	2053 7
BB82A-9	157	40 04 17.0 S	145 15 08.0 E	350962	5562840	56	111	205318
BB82A-9	158	40 04 16.3 S	145 15 09.1 E	350987	5562863	56	111	205328
BB82A-9	159	40 04 15.6 S	145 15 10.2 E	351012	5562885	55	111	205338
BB82A-9	160	40 04 14.9 S	145 15 11.3 E	351037	5562907	56	111	205348
BB82A-9	161	40 04 14.2 S	145 15 12.3 E	351062	5562929	56	111	205358
BB82A-9	162	40 04 13.5 S	145 15 13.4 E	351087	5562952	55	111	2054 8

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-9	163	40 04 12.8 S	145 15 14.5 E	351112	5562974	56	111	205419
BB82A-9	164	40 04 12.1 S	145 15 15.5 E	351136	5562996	56	111	205430
BB82A-9	165	40 04 11.4 S	145 15 16.6 E	351161	5563018	55	111	205441
BB82A-9	166	40 04 10.6 S	145 15 17.7 E	351186	5563041	55	111	205451
BB82A-9	167	40 04 09.9 S	145 15 18.7 E	351211	5563063	55	111	2055 2
BB82A-9	168	40 04 09.2 S	145 15 19.8 E	351235	5563085	56	111	205513
BB82A-9	169	40 04 08.5 S	145 15 20.8 E	351260	5563108	56	111	205523
BB82A-9	170	40 04 07.8 S	145 15 21.9 E	351285	5563130	56	111	205534
BB82A-9	171	40 04 07.1 S	145 15 22.9 E	351309	5563152	56	111	205545
BB82A-9	172	40 04 06.4 S	145 15 24.0 E	351334	5563175	55	111	205555
BB82A-9	173	40 04 05.7 S	145 15 25.0 E	351358	5563197	56	111	2056 6
BB82A-9	174	40 04 05.0 S	145 15 26.1 E	351382	5563220	56	111	205616
BB82A-9	175	40 04 04.2 S	145 15 27.2 E	351407	5563243	55	111	205627
BB82A-9	176	40 04 03.5 S	145 15 28.2 E	351431	5563265	56	111	205637
BB82A-9	177	40 04 02.8 S	145 15 29.2 E	351455	5563288	55	111	205648
BB82A-9	178	40 04 02.1 S	145 15 30.2 E	351479	5563311	56	111	205658
BB82A-9	179	40 04 01.3 S	145 15 31.3 E	351503	5563334	55	111	2057 9
BB82A-9	180	40 04 00.6 S	145 15 32.3 E	351527	5563357	55	111	205719
BB82A-9	181	40 03 59.9 S	145 15 33.3 E	351551	5563380	55	111	205730
BB82A-9	182	40 03 59.2 S	145 15 34.4 E	351575	5563403	55	111	205740
BB82A-9	183	40 03 58.4 S	145 15 35.4 E	351599	5563426	56	111	205750
BB82A-9	184	40 03 57.7 S	145 15 36.4 E	351623	5563450	55	111	2058 1
BB82A-9	185	40 03 56.9 S	145 15 37.4 E	351646	5563473	55	111	205812
BB82A-9	186	40 03 56.2 S	145 15 38.5 E	351670	5563496	55	111	205822
BB82A-9	187	40 03 55.4 S	145 15 39.5 E	351694	5563520	55	111	205833
BB82A-9	188	40 03 54.7 S	145 15 40.5 E	351717	5563544	55	111	205843
BB82A-9	189	40 03 53.9 S	145 15 41.5 E	351740	5563567	56	111	205854
BB82A-9	190	40 03 53.2 S	145 15 42.5 E	351764	5563591	56	111	2059 5
BB82A-9	191	40 03 52.4 S	145 15 43.5 E	351787	5563615	56	111	205915
BB82A-9	192	40 03 51.6 S	145 15 44.5 E	351810	5563639	56	111	205926
BB82A-9	193	40 03 50.9 S	145 15 45.5 E	351834	5563663	56	111	205936
BB82A-9	194	40 03 50.1 S	145 15 46.5 E	351857	5563687	56	111	205947
BB82A-9	195	40 03 49.4 S	145 15 47.5 E	351880	5563711	56	111	205958
BB82A-9	196	40 03 48.6 S	145 15 48.5 E	351903	5563735	55	111	21 0 8
BB82A-9	197	40 03 47.8 S	145 15 49.5 E	351927	5563760	56	111	21 018
BB82A-9	198	40 03 47.0 S	145 15 50.5 E	351950	5563784	56	111	21 029
BB82A-9	199	40 03 46.3 S	145 15 51.5 E	351973	5563808	56	111	21 040
BB82A-9	200	40 03 45.5 S	145 15 52.5 E	351996	5563832	55	111	21 050
BB82A-9	201	40 03 44.7 S	145 15 53.5 E	352019	5563857	56	111	21 1 1
BB82A-9	202	40 03 44.0 S	145 15 54.5 E	352043	5563881	56	111	21 112
BB82A-9	203	40 03 43.2 S	145 15 55.5 E	352066	5563906	56	111	21 122
BB82A-9	204	40 03 42.4 S	145 15 56.5 E	352089	5563930	56	111	21 133
BB82A-9	205	40 03 41.6 S	145 15 57.5 E	352112	5563954	56	111	21 143
BB82A-9	206	40 03 40.8 S	145 15 58.5 E	352135	5563979	57	111	21 154
BB82A-9	207	40 03 40.1 S	145 15 59.5 E	352159	5564003	56	111	21 2 5
BB82A-9	208	40 03 39.3 S	145 16 00.5 E	352182	5564028	56	111	21 215
BB82A-9	209	40 03 38.5 S	145 16 01.5 E	352205	5564052	57	111	21 226
BB82A-9	210	40 03 37.7 S	145 16 02.5 E	352229	5564076	56	111	21 236
BB82A-9	211	40 03 36.9 S	145 16 03.5 E	352252	5564101	56	111	21 246
BB82A-9	212	40 03 36.2 S	145 16 04.5 E	352275	5564125	56	111	21 257
BB82A-9	213	40 03 35.4 S	145 16 05.5 E	352299	5564149	56	111	21 3 7
BB82A-9	214	40 03 34.7 S	145 16 06.5 E	352322	5564173	56	111	21 318
BB82A-9	215	40 03 33.9 S	145 16 07.6 E	352346	5564197	56	111	21 329
BB82A-9	216	40 03 33.1 S	145 16 08.6 E	352370	5564221	56	111	21 339

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-9	217	40 03 32.4 S	145 16 09.6 E	352393	5564245	56	111	21 350
BB82A-9	218	40 03 31.6 S	145 16 10.6 E	352417	5564269	56	111	21 4 0
BB82A-9	219	40 03 30.8 S	145 16 11.6 E	352441	5564293	56	111	21 411
BB82A-9	220	40 03 30.1 S	145 16 12.6 E	352464	5564317	56	111	21 421

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	1	40 01 31.5 S	145 14 54.4 E	350538	5567936	58	111	223057
BB82A-11	2	40 01 32.3 S	145 14 53.3 E	350514	5567913	58	111	2231 7
BB82A-11	3	40 01 33.0 S	145 14 52.3 E	350490	5567890	58	111	223118
BB82A-11	4	40 01 33.8 S	145 14 51.3 E	350466	5567866	58	111	223128
BB82A-11	5	40 01 34.5 S	145 14 50.3 E	350442	5567843	58	111	223139
BB82A-11	6	40 01 35.2 S	145 14 49.2 E	350418	5567819	57	111	223150
BB82A-11	7	40 01 36.0 S	145 14 48.2 E	350394	5567796	57	111	2232 0
BB82A-11	8	40 01 36.7 S	145 14 47.2 E	350370	5567773	58	111	223210
BB82A-11	9	40 01 37.4 S	145 14 46.1 E	350345	5567750	58	111	223221
BB82A-11	10	40 01 38.2 S	145 14 45.1 E	350321	5567727	57	111	223231
BB82A-11	11	40 01 38.9 S	145 14 44.0 E	350297	5567704	57	111	223242
BB82A-11	12	40 01 39.6 S	145 14 43.0 E	350273	5567681	57	111	223253
BB82A-11	13	40 01 40.4 S	145 14 42.0 E	350249	5567658	58	111	2233 3
BB82A-11	14	40 01 41.1 S	145 14 40.9 E	350225	5567635	58	111	223313
BB82A-11	15	40 01 41.9 S	145 14 39.9 E	350201	5567611	58	111	223324
BB82A-11	16	40 01 42.6 S	145 14 38.9 E	350177	5567588	58	111	223334
BB82A-11	17	40 01 43.3 S	145 14 37.8 E	350153	5567565	58	111	223345
BB82A-11	18	40 01 44.1 S	145 14 36.8 E	350129	5567541	57	111	223355
BB82A-11	19	40 01 44.8 S	145 14 35.8 E	350105	5567518	57	111	2234 5
BB82A-11	20	40 01 45.5 S	145 14 34.7 E	350081	5567495	58	111	223416
BB82A-11	21	40 01 46.3 S	145 14 33.7 E	350057	5567471	58	111	223426
BB82A-11	22	40 01 47.0 S	145 14 32.7 E	350033	5567448	57	111	223437
BB82A-11	23	40 01 47.8 S	145 14 31.6 E	350009	5567425	57	111	223447
BB82A-11	24	40 01 48.5 S	145 14 30.6 E	349985	5567401	57	111	223458
BB82A-11	25	40 01 49.3 S	145 14 29.6 E	349962	5567378	58	111	2235 9
BB82A-11	26	40 01 50.0 S	145 14 28.6 E	349938	5567355	57	111	223519
BB82A-11	27	40 01 50.7 S	145 14 27.6 E	349914	5567331	57	111	223530
BB82A-11	28	40 01 51.5 S	145 14 26.5 E	349890	5567308	57	111	223540
BB82A-11	29	40 01 52.2 S	145 14 25.5 E	349867	5567284	58	111	223550
BB82A-11	30	40 01 53.0 S	145 14 24.5 E	349843	5567261	57	111	2236 1
BB82A-11	31	40 01 53.7 S	145 14 23.5 E	349819	5567237	57	111	223611
BB82A-11	32	40 01 54.5 S	145 14 22.5 E	349796	5567214	57	111	223622
BB82A-11	33	40 01 55.2 S	145 14 21.5 E	349772	5567190	57	111	223633
BB82A-11	34	40 01 56.0 S	145 14 20.4 E	349748	5567166	58	111	223643
BB82A-11	35	40 01 56.7 S	145 14 19.4 E	349725	5567143	57	111	223653
BB82A-11	36	40 01 57.5 S	145 14 18.4 E	349701	5567119	57	111	2237 3
BB82A-11	37	40 01 58.2 S	145 14 17.4 E	349678	5567095	57	111	223714
BB82A-11	38	40 01 59.0 S	145 14 16.4 E	349654	5567072	57	111	223725
BB82A-11	39	40 01 59.7 S	145 14 15.4 E	349631	5567048	57	111	223735
BB82A-11	40	40 02 00.5 S	145 14 14.4 E	349608	5567024	57	111	223745
BB82A-11	41	40 02 01.3 S	145 14 13.4 E	349584	5567000	57	111	223756
BB82A-11	42	40 02 02.0 S	145 14 12.4 E	349561	5566977	58	111	2238 6
BB82A-11	43	40 02 02.8 S	145 14 11.4 E	349538	5566953	57	111	223817
BB82A-11	44	40 02 03.5 S	145 14 10.4 E	349514	5566929	57	111	223827
BB82A-11	45	40 02 04.3 S	145 14 09.4 E	349491	5566905	57	111	223838
BB82A-11	46	40 02 05.0 S	145 14 08.4 E	349468	5566882	57	111	223848
BB82A-11	47	40 02 05.8 S	145 14 07.4 E	349445	5566858	57	111	223859
BB82A-11	48	40 02 06.5 S	145 14 06.4 E	349421	5566834	57	111	2239 9
BB82A-11	49	40 02 07.3 S	145 14 05.4 E	349398	5566810	57	111	223919
BB82A-11	50	40 02 08.1 S	145 14 04.4 E	349375	5566786	57	111	223929
BB82A-11	51	40 02 08.8 S	145 14 03.4 E	349352	5566762	56	111	223940
BB82A-11	52	40 02 09.6 S	145 14 02.4 E	349329	5566738	57	111	223950
BB82A-11	53	40 02 10.4 S	145 14 01.4 E	349305	5566714	57	111	2240 0
BB82A-11	54	40 02 11.1 S	145 14 00.4 E	349282	5566690	57	111	224011

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	55	40 02 11.9 S	145 13 59.4 E	349259	5566666	57	111	224021
BB82A-11	56	40 02 12.6 S	145 13 58.4 E	349236	5566642	57	111	224032
BB82A-11	57	40 02 13.4 S	145 13 57.4 E	349213	5566618	57	111	224042
BB82A-11	58	40 02 14.2 S	145 13 56.4 E	349190	5566594	57	111	224053
BB82A-11	59	40 02 14.9 S	145 13 55.4 E	349167	5566570	57	111	2241 3
BB82A-11	60	40 02 15.7 S	145 13 54.4 E	349144	5566547	57	111	224114
BB82A-11	61	40 02 16.4 S	145 13 53.4 E	349121	5566523	58	111	224124
BB82A-11	62	40 02 17.2 S	145 13 52.4 E	349097	5566499	57	111	224134
BB82A-11	63	40 02 18.0 S	145 13 51.4 E	349074	5566475	57	111	224144
BB82A-11	64	40 02 18.7 S	145 13 50.4 E	349051	5566451	57	111	224155
BB82A-11	65	40 02 19.5 S	145 13 49.4 E	349028	5566427	57	111	2242 5
BB82A-11	66	40 02 20.2 S	145 13 48.4 E	349005	5566403	56	111	224215
BB82A-11	67	40 02 21.0 S	145 13 47.5 E	348982	5566379	57	111	224225
BB82A-11	68	40 02 21.8 S	145 13 46.5 E	348959	5566355	57	111	224236
BB82A-11	69	40 02 22.5 S	145 13 45.5 E	348936	5566331	57	111	224246
BB82A-11	70	40 02 23.3 S	145 13 44.5 E	348913	5566307	57	111	224256
BB82A-11	71	40 02 24.1 S	145 13 43.5 E	348890	5566283	57	111	2243 7
BB82A-11	72	40 02 24.8 S	145 13 42.5 E	348867	5566259	57	111	224317
BB82A-11	73	40 02 25.6 S	145 13 41.5 E	348844	5566235	57	111	224327
BB82A-11	74	40 02 26.4 S	145 13 40.5 E	348821	5566210	57	111	224338
BB82A-11	75	40 02 27.2 S	145 13 39.5 E	348798	5566186	57	111	224348
BB82A-11	76	40 02 27.9 S	145 13 38.5 E	348775	5566162	56	111	224359
BB82A-11	77	40 02 28.7 S	145 13 37.6 E	348752	5566138	56	111	224410
BB82A-11	78	40 02 29.4 S	145 13 36.6 E	348729	5566114	56	111	224420
BB82A-11	79	40 02 30.2 S	145 13 35.6 E	348706	5566090	57	111	224431
BB82A-11	80	40 02 31.0 S	145 13 34.6 E	348683	5566066	57	111	224441
BB82A-11	81	40 02 31.7 S	145 13 33.6 E	348660	5566042	57	111	224452
BB82A-11	82	40 02 32.5 S	145 13 32.6 E	348637	5566018	57	111	2245 2
BB82A-11	83	40 02 33.3 S	145 13 31.6 E	348614	5565994	57	111	224513
BB82A-11	84	40 02 34.0 S	145 13 30.6 E	348591	5565970	57	111	224523
BB82A-11	85	40 02 34.8 S	145 13 29.6 E	348568	5565946	56	111	224534
BB82A-11	86	40 02 35.6 S	145 13 28.6 E	348545	5565921	57	111	224544
BB82A-11	87	40 02 36.3 S	145 13 27.7 E	348522	5565897	57	111	224555
BB82A-11	88	40 02 37.1 S	145 13 26.7 E	348499	5565873	57	111	2246 5
BB82A-11	89	40 02 37.9 S	145 13 25.7 E	348476	5565849	56	111	224615
BB82A-11	90	40 02 38.6 S	145 13 24.7 E	348453	5565825	57	111	224626
BB82A-11	91	40 02 39.4 S	145 13 23.7 E	348430	5565800	57	111	224636
BB82A-11	92	40 02 40.2 S	145 13 22.7 E	348407	5565776	57	111	224647
BB82A-11	93	40 02 41.0 S	145 13 21.7 E	348384	5565752	57	111	224657
BB82A-11	94	40 02 41.7 S	145 13 20.7 E	348361	5565728	57	111	2247 7
BB82A-11	95	40 02 42.5 S	145 13 19.7 E	348338	5565704	57	111	224718
BB82A-11	96	40 02 43.2 S	145 13 18.7 E	348315	5565680	56	111	224728
BB82A-11	97	40 02 44.0 S	145 13 17.7 E	348292	5565656	56	111	224738
BB82A-11	98	40 02 44.8 S	145 13 16.8 E	348269	5565632	57	111	224749
BB82A-11	99	40 02 45.5 S	145 13 15.8 E	348246	5565608	57	111	224759
BB82A-11	100	40 02 46.3 S	145 13 14.8 E	348223	5565584	56	111	224810
BB82A-11	101	40 02 47.1 S	145 13 13.8 E	348200	5565560	57	111	224820
BB82A-11	102	40 02 47.8 S	145 13 12.8 E	348177	5565536	57	111	224830
BB82A-11	103	40 02 48.6 S	145 13 11.8 E	348153	5565512	57	111	224840
BB82A-11	104	40 02 49.3 S	145 13 10.8 E	348130	5565488	56	111	224851
BB82A-11	105	40 02 50.1 S	145 13 09.8 E	348107	5565464	57	111	2249 1
BB82A-11	106	40 02 50.9 S	145 13 08.8 E	348084	5565440	57	111	224911
BB82A-11	107	40 02 51.6 S	145 13 07.8 E	348061	5565416	57	111	224922
BB82A-11	108	40 02 52.4 S	145 13 06.8 E	348037	5565392	57	111	224933

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	109	40 02 53.1 S	145 13 05.8 E	348014	5565369	56	111	224944
BB82A-11	110	40 02 53.9 S	145 13 04.8 E	347991	5565345	56	111	224954
BB82A-11	111	40 02 54.7 S	145 13 03.8 E	347968	5565321	57	111	2250 4
BB82A-11	112	40 02 55.4 S	145 13 02.8 E	347944	5565297	56	111	225014
BB82A-11	113	40 02 56.2 S	145 13 01.8 E	347921	5565273	56	111	225025
BB82A-11	114	40 02 56.9 S	145 13 00.8 E	347898	5565249	56	111	225035
BB82A-11	115	40 02 57.7 S	145 12 59.8 E	347874	5565226	56	111	225045
BB82A-11	116	40 02 58.4 S	145 12 58.8 E	347851	5565202	57	111	225055
BB82A-11	117	40 02 59.2 S	145 12 57.8 E	347828	5565178	57	111	2251 6
BB82A-11	118	40 03 00.0 S	145 12 56.7 E	347804	5565154	56	111	225116
BB82A-11	119	40 03 00.7 S	145 12 55.7 E	347781	5565130	56	111	225127
BB82A-11	120	40 03 01.5 S	145 12 54.8 E	347758	5565107	56	111	225137
BB82A-11	121	40 03 02.2 S	145 12 53.7 E	347734	5565083	56	111	225147
BB82A-11	122	40 03 03.0 S	145 12 52.7 E	347711	5565059	56	111	225157
BB82A-11	123	40 03 03.7 S	145 12 51.7 E	347688	5565035	56	111	2252 8
BB82A-11	124	40 03 04.5 S	145 12 50.7 E	347664	5565012	56	111	225218
BB82A-11	125	40 03 05.2 S	145 12 49.7 E	347641	5564988	56	111	225228
BB82A-11	126	40 03 06.0 S	145 12 48.7 E	347618	5564964	57	111	225239
BB82A-11	127	40 03 06.8 S	145 12 47.7 E	347594	5564940	57	111	225249
BB82A-11	128	40 03 07.5 S	145 12 46.7 E	347571	5564917	56	111	2253 0
BB82A-11	129	40 03 08.3 S	145 12 45.7 E	347548	5564893	56	111	225310
BB82A-11	130	40 03 09.0 S	145 12 44.7 E	347524	5564869	56	111	225321
BB82A-11	131	40 03 09.8 S	145 12 43.7 E	347501	5564845	56	111	225331
BB82A-11	132	40 03 10.5 S	145 12 42.7 E	347478	5564821	57	111	225342
BB82A-11	133	40 03 11.3 S	145 12 41.7 E	347455	5564797	56	111	225352
BB82A-11	134	40 03 12.1 S	145 12 40.7 E	347431	5564773	56	111	2254 2
BB82A-11	135	40 03 12.8 S	145 12 39.7 E	347408	5564749	56	111	225413
BB82A-11	136	40 03 13.6 S	145 12 38.7 E	347385	5564725	56	111	225423
BB82A-11	137	40 03 14.4 S	145 12 37.7 E	347362	5564701	56	111	225433
BB82A-11	138	40 03 15.1 S	145 12 36.7 E	347338	5564677	56	111	225444
BB82A-11	139	40 03 15.9 S	145 12 35.7 E	347315	5564653	56	111	225454
BB82A-11	140	40 03 16.7 S	145 12 34.7 E	347292	5564629	56	111	2255 4
BB82A-11	141	40 03 17.4 S	145 12 33.7 E	347269	5564605	57	111	225515
BB82A-11	142	40 03 18.2 S	145 12 32.7 E	347246	5564581	56	111	225525
BB82A-11	143	40 03 18.9 S	145 12 31.7 E	347223	5564557	56	111	225536
BB82A-11	144	40 03 19.7 S	145 12 30.7 E	347200	5564533	56	111	225546
BB82A-11	145	40 03 20.5 S	145 12 29.7 E	347177	5564509	56	111	225557
BB82A-11	146	40 03 21.2 S	145 12 28.7 E	347154	5564485	57	111	2256 7
BB82A-11	147	40 03 22.0 S	145 12 27.8 E	347131	5564461	56	111	225617
BB82A-11	148	40 03 22.8 S	145 12 26.8 E	347108	5564437	55	111	225628
BB82A-11	149	40 03 23.5 S	145 12 25.8 E	347085	5564413	56	111	225638
BB82A-11	150	40 03 24.3 S	145 12 24.8 E	347062	5564389	57	111	225648
BB82A-11	151	40 03 25.0 S	145 12 23.8 E	347039	5564365	56	111	225658
BB82A-11	152	40 03 25.8 S	145 12 22.8 E	347016	5564340	56	111	2257 8
BB82A-11	153	40 03 26.6 S	145 12 21.8 E	346993	5564316	56	111	225719
BB82A-11	154	40 03 27.4 S	145 12 20.8 E	346970	5564292	57	111	225729
BB82A-11	155	40 03 28.1 S	145 12 19.8 E	346947	5564268	56	111	225739
BB82A-11	156	40 03 28.9 S	145 12 18.8 E	346924	5564244	56	111	225750
BB82A-11	157	40 03 29.7 S	145 12 17.8 E	346900	5564220	55	111	2258 0
BB82A-11	158	40 03 30.4 S	145 12 16.8 E	346877	5564196	56	111	225810
BB82A-11	159	40 03 31.2 S	145 12 15.8 E	346854	5564172	57	111	225820
BB82A-11	160	40 03 31.9 S	145 12 14.8 E	346831	5564148	56	111	225830
BB82A-11	161	40 03 32.7 S	145 12 13.8 E	346808	5564125	56	111	225840
BB82A-11	162	40 03 33.4 S	145 12 12.8 E	346784	5564101	56	111	225851

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	163	40 03 34.2 S	145 12 11.8 E	346761	5564077	56	111	2259 1
BB82A-11	164	40 03 34.9 S	145 12 10.8 E	346738	5564054	56	111	225911
BB82A-11	165	40 03 35.7 S	145 12 09.8 E	346714	5564030	56	111	225922
BB82A-11	166	40 03 36.5 S	145 12 08.8 E	346691	5564006	56	111	225932
BB82A-11	167	40 03 37.2 S	145 12 07.8 E	346667	5563983	56	111	225942
BB82A-11	168	40 03 37.9 S	145 12 06.8 E	346644	5563959	56	111	225953
BB82A-11	169	40 03 38.7 S	145 12 05.8 E	346620	5563936	55	111	23 0 3
BB82A-11	170	40 03 39.4 S	145 12 04.8 E	346597	5563912	57	111	23 013
BB82A-11	171	40 03 40.2 S	145 12 03.7 E	346573	5563889	56	111	23 023
BB82A-11	172	40 03 40.9 S	145 12 02.7 E	346550	5563866	55	111	23 034
BB82A-11	173	40 03 41.7 S	145 12 01.7 E	346526	5563842	56	111	23 044
BB82A-11	174	40 03 42.4 S	145 12 00.7 E	346502	5563819	56	111	23 054
BB82A-11	175	40 03 43.1 S	145 11 59.6 E	346478	5563796	55	111	23 1 5
BB82A-11	176	40 03 43.9 S	145 11 58.7 E	346455	5563773	56	111	23 115
BB82A-11	177	40 03 44.6 S	145 11 57.6 E	346431	5563749	56	111	23 126
BB82A-11	178	40 03 45.3 S	145 11 56.6 E	346407	5563726	55	111	23 136
BB82A-11	179	40 03 46.1 S	145 11 55.6 E	346383	5563703	55	111	23 147
BB82A-11	180	40 03 46.8 S	145 11 54.5 E	346359	5563680	56	111	23 157
BB82A-11	181	40 03 47.5 S	145 11 53.5 E	346335	5563657	56	111	23 2 7
BB82A-11	182	40 03 48.3 S	145 11 52.5 E	346311	5563634	57	111	23 218
BB82A-11	183	40 03 49.0 S	145 11 51.4 E	346287	5563611	56	111	23 229
BB82A-11	184	40 03 49.7 S	145 11 50.4 E	346263	5563588	56	111	23 239
BB82A-11	185	40 03 50.5 S	145 11 49.4 E	346239	5563565	56	111	23 249
BB82A-11	186	40 03 51.2 S	145 11 48.3 E	346215	5563542	56	111	23 259
BB82A-11	187	40 03 51.9 S	145 11 47.3 E	346191	5563519	56	111	23 310
BB82A-11	188	40 03 52.6 S	145 11 46.3 E	346167	5563496	55	111	23 320
BB82A-11	189	40 03 53.4 S	145 11 45.2 E	346143	5563473	56	111	23 330
BB82A-11	190	40 03 54.1 S	145 11 44.2 E	346119	5563450	56	111	23 341
BB82A-11	191	40 03 54.8 S	145 11 43.2 E	346095	5563427	55	111	23 351
BB82A-11	192	40 03 55.6 S	145 11 42.1 E	346071	5563404	56	111	23 4 1
BB82A-11	193	40 03 56.3 S	145 11 41.1 E	346047	5563381	56	111	23 411
BB82A-11	194	40 03 57.1 S	145 11 40.1 E	346023	5563357	55	111	23 422
BB82A-11	195	40 03 57.8 S	145 11 39.0 E	345999	5563334	55	111	23 432
BB82A-11	196	40 03 58.5 S	145 11 38.0 E	345975	5563311	55	111	23 443
BB82A-11	197	40 03 59.3 S	145 11 37.0 E	345951	5563287	57	111	23 453
BB82A-11	198	40 04 00.0 S	145 11 36.0 E	345928	5563264	56	111	23 5 3
BB82A-11	199	40 04 00.8 S	145 11 34.9 E	345904	5563240	55	111	23 514
BB82A-11	200	40 04 01.5 S	145 11 33.9 E	345880	5563217	56	111	23 524
BB82A-11	201	40 04 02.3 S	145 11 32.9 E	345857	5563193	56	111	23 534
BB82A-11	202	40 04 03.0 S	145 11 31.9 E	345833	5563169	56	111	23 544
BB82A-11	203	40 04 03.8 S	145 11 30.9 E	345809	5563146	56	111	23 554
BB82A-11	204	40 04 04.5 S	145 11 29.9 E	345786	5563122	55	111	23 6 6
BB82A-11	205	40 04 05.3 S	145 11 28.9 E	345763	5563098	56	111	23 616
BB82A-11	206	40 04 06.0 S	145 11 27.8 E	345739	5563074	56	111	23 626
BB82A-11	207	40 04 06.8 S	145 11 26.9 E	345716	5563050	56	111	23 636
BB82A-11	208	40 04 07.6 S	145 11 25.9 E	345693	5563025	56	111	23 647
BB82A-11	209	40 04 08.4 S	145 11 24.8 E	345669	5563001	55	111	23 657
BB82A-11	210	40 04 09.1 S	145 11 23.8 E	345646	5562977	56	111	23 7 7
BB82A-11	211	40 04 09.9 S	145 11 22.8 E	345623	5562952	56	111	23 718
BB82A-11	212	40 04 10.7 S	145 11 21.9 E	345600	5562928	56	111	23 728
BB82A-11	213	40 04 11.5 S	145 11 20.9 E	345577	5562903	56	111	23 738
BB82A-11	214	40 04 12.2 S	145 11 19.9 E	345554	5562879	56	111	23 748
BB82A-11	215	40 04 13.0 S	145 11 18.9 E	345531	5562854	56	111	23 758
BB82A-11	216	40 04 13.8 S	145 11 17.9 E	345508	5562830	56	111	23 8 8

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	217	40 04 14.6 S	145 11 16.9 E	345486	5562805	56	111	23 818
BB82A-11	218	40 04 15.4 S	145 11 15.9 E	345463	5562780	55	111	23 828
BB82A-11	219	40 04 16.2 S	145 11 15.0 E	345440	5562756	55	111	23 839
BB82A-11	220	40 04 17.0 S	145 11 14.0 E	345417	5562731	55	111	23 849
BB82A-11	221	40 04 17.7 S	145 11 13.0 E	345395	5562706	56	111	23 859
BB82A-11	222	40 04 18.5 S	145 11 12.0 E	345372	5562682	56	111	23 9 9
BB82A-11	223	40 04 19.3 S	145 11 11.0 E	345349	5562657	56	111	23 919
BB82A-11	224	40 04 20.1 S	145 11 10.0 E	345326	5562632	56	111	23 929
BB82A-11	225	40 04 20.9 S	145 11 09.1 E	345304	5562608	55	111	23 939
BB82A-11	226	40 04 21.7 S	145 11 08.1 E	345281	5562583	56	111	23 950
BB82A-11	227	40 04 22.4 S	145 11 07.1 E	345258	5562559	56	111	2310 0
BB82A-11	228	40 04 23.2 S	145 11 06.1 E	345235	5562534	56	111	231010
BB82A-11	229	40 04 24.0 S	145 11 05.2 E	345213	5562509	56	111	231020
BB82A-11	230	40 04 24.8 S	145 11 04.2 E	345190	5562485	56	111	231030
BB82A-11	231	40 04 25.5 S	145 11 03.2 E	345167	5562461	56	111	231040
BB82A-11	232	40 04 26.3 S	145 11 02.2 E	345144	5562436	56	111	231051
BB82A-11	233	40 04 27.1 S	145 11 01.2 E	345121	5562412	55	111	2311 1
BB82A-11	234	40 04 27.9 S	145 11 00.2 E	345098	5562388	56	111	231112
BB82A-11	235	40 04 28.6 S	145 10 59.2 E	345075	5562364	55	111	231122
BB82A-11	236	40 04 29.4 S	145 10 58.2 E	345052	5562340	55	111	231133
BB82A-11	237	40 04 30.1 S	145 10 57.2 E	345029	5562316	55	111	231143
BB82A-11	238	40 04 30.9 S	145 10 56.2 E	345006	5562292	56	111	231153
BB82A-11	239	40 04 31.7 S	145 10 55.2 E	344983	5562268	55	111	2312 4
BB82A-11	240	40 04 32.4 S	145 10 54.3 E	344960	5562244	55	111	231214
BB82A-11	241	40 04 33.2 S	145 10 53.2 E	344936	5562220	56	111	231224
BB82A-11	242	40 04 34.0 S	145 10 52.2 E	344913	5562196	56	111	231235
BB82A-11	243	40 04 34.7 S	145 10 51.2 E	344890	5562173	55	111	231245
BB82A-11	244	40 04 35.5 S	145 10 50.2 E	344866	5562149	55	111	231255
BB82A-11	245	40 04 36.2 S	145 10 49.2 E	344843	5562126	55	111	2313 6
BB82A-11	246	40 04 36.9 S	145 10 48.2 E	344819	5562102	56	111	231316
BB82A-11	247	40 04 37.7 S	145 10 47.2 E	344795	5562079	55	111	231326
BB82A-11	248	40 04 38.4 S	145 10 46.2 E	344772	5562055	55	111	231336
BB82A-11	249	40 04 39.2 S	145 10 45.1 E	344748	5562032	55	111	231346
BB82A-11	250	40 04 39.9 S	145 10 44.1 E	344724	5562009	55	111	231357
BB82A-11	251	40 04 40.6 S	145 10 43.1 E	344700	5561986	55	111	2314 7
BB82A-11	252	40 04 41.4 S	145 10 42.1 E	344677	5561962	55	111	231417
BB82A-11	253	40 04 42.1 S	145 10 41.0 E	344653	5561939	55	111	231427
BB82A-11	254	40 04 42.8 S	145 10 40.0 E	344629	5561916	56	111	231437
BB82A-11	255	40 04 43.6 S	145 10 39.0 E	344605	5561893	56	111	231448
BB82A-11	256	40 04 44.3 S	145 10 37.9 E	344581	5561870	55	111	231458
BB82A-11	257	40 04 45.0 S	145 10 36.9 E	344557	5561847	56	111	2315 8
BB82A-11	258	40 04 45.8 S	145 10 35.9 E	344533	5561824	55	111	231518
BB82A-11	259	40 04 46.5 S	145 10 34.8 E	344509	5561801	55	111	231528
BB82A-11	260	40 04 47.2 S	145 10 33.8 E	344485	5561778	55	111	231539
BB82A-11	261	40 04 48.0 S	145 10 32.8 E	344461	5561755	55	111	231549
BB82A-11	262	40 04 48.7 S	145 10 31.7 E	344437	5561731	55	111	231559
BB82A-11	263	40 04 49.4 S	145 10 30.7 E	344413	5561708	56	111	2316 9
BB82A-11	264	40 04 50.2 S	145 10 29.7 E	344389	5561685	55	111	231619
BB82A-11	265	40 04 50.9 S	145 10 28.6 E	344365	5561662	55	111	231630
BB82A-11	266	40 04 51.7 S	145 10 27.6 E	344341	5561638	55	111	231640
BB82A-11	267	40 04 52.4 S	145 10 26.6 E	344317	5561615	55	111	231650
BB82A-11	268	40 04 53.2 S	145 10 25.6 E	344294	5561591	55	111	2317 0
BB82A-11	269	40 04 53.9 S	145 10 24.6 E	344270	5561568	54	111	231711
BB82A-11	270	40 04 54.7 S	145 10 23.5 E	344246	5561544	55	111	231721

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-11	271	40 04 55.4 S	145 10 22.5 E	344223	5561521	56	111	231731
BB82A-11	272	40 04 56.1 S	145 10 21.5 E	344199	5561497	56	111	231741
BB82A-11	273	40 04 56.9 S	145 10 20.5 E	344175	5561473	55	111	231752
BB82A-11	274	40 04 57.7 S	145 10 19.5 E	344152	5561449	54	111	2318 2
BB82A-11	275	40 04 58.4 S	145 10 18.4 E	344128	5561425	56	111	231812
BB82A-11	276	40 04 59.2 S	145 10 17.4 E	344105	5561401	56	111	231823
BB82A-11	277	40 05 00.0 S	145 10 16.5 E	344082	5561377	55	111	231833
BB82A-11	278	40 05 00.7 S	145 10 15.4 E	344058	5561353	55	111	231844
BB82A-11	279	40 05 01.5 S	145 10 14.4 E	344035	5561329	55	111	231854
BB82A-11	280	40 05 02.3 S	145 10 13.4 E	344012	5561304	55	111	2319 4
BB82A-11	281	40 05 03.0 S	145 10 12.4 E	343989	5561280	55	111	231914
BB82A-11	282	40 05 03.8 S	145 10 11.4 E	343965	5561255	55	111	231924
BB82A-11	283	40 05 04.6 S	145 10 10.4 E	343942	5561231	56	111	231934
BB82A-11	284	40 05 05.4 S	145 10 09.4 E	343919	5561206	55	111	231945
BB82A-11	285	40 05 06.2 S	145 10 08.4 E	343896	5561182	55	111	231955
BB82A-11	286	40 05 07.0 S	145 10 07.4 E	343873	5561157	55	111	2320 6
BB82A-11	287	40 05 07.7 S	145 10 06.5 E	343850	5561132	55	111	232016
BB82A-11	288	40 05 08.5 S	145 10 05.5 E	343827	5561108	54	111	232027
BB82A-11	289	40 05 09.3 S	145 10 04.5 E	343804	5561083	55	111	232037
BB82A-11	290	40 05 10.1 S	145 10 03.5 E	343781	5561059	56	111	232047
BB82A-11	291	40 05 10.9 S	145 10 02.5 E	343758	5561033	54	111	232057
BB82A-11	292	40 05 11.7 S	145 10 01.5 E	343735	5561009	54	111	2321 8
BB82A-11	293	40 05 12.5 S	145 10 00.5 E	343713	5560984	55	111	232118
BB82A-11	294	40 05 13.2 S	145 09 59.5 E	343690	5560960	55	111	232128
BB82A-11	295	40 05 14.0 S	145 09 58.6 E	343667	5560934	54	111	232138
BB82A-11	296	40 05 14.8 S	145 09 57.6 E	343644	5560910	54	111	232148
BB82A-11	297	40 05 15.6 S	145 09 56.6 E	343621	5560885	54	111	232159
BB82A-11	298	40 05 16.4 S	145 09 55.6 E	343598	5560860	55	111	2322 9
BB82A-11	299	40 05 17.2 S	145 09 54.6 E	343575	5560836	54	111	232220
BB82A-11	300	40 05 18.0 S	145 09 53.6 E	343552	5560811	55	111	232230
BB82A-11	301	40 05 18.7 S	145 09 52.6 E	343529	5560787	55	111	232240
BB82A-11	302	40 05 19.5 S	145 09 51.6 E	343506	5560762	55	111	232250
BB82A-11	303	40 05 20.3 S	145 09 50.6 E	343483	5560738	55	111	2323 0
BB82A-11	304	40 05 21.0 S	145 09 49.6 E	343459	5560714	55	111	232310
BB82A-11	305	40 05 21.8 S	145 09 48.6 E	343436	5560689	55	111	232321
BB82A-11	306	40 05 22.6 S	145 09 47.6 E	343413	5560665	54	111	232331
BB82A-11	307	40 05 23.4 S	145 09 46.6 E	343390	5560641	55	111	232341
BB82A-11	308	40 05 24.1 S	145 09 45.6 E	343366	5560617	55	111	232351
BB82A-11	309	40 05 24.9 S	145 09 44.6 E	343343	5560593	54	111	2324 1
BB82A-11	310	40 05 25.6 S	145 09 43.6 E	343320	5560569	55	111	232411
BB82A-11	311	40 05 26.4 S	145 09 42.6 E	343296	5560545	55	111	232421
BB82A-11	312	40 05 27.1 S	145 09 41.6 E	343273	5560522	55	111	232432
BB82A-11	313	40 05 27.9 S	145 09 40.5 E	343249	5560498	54	111	232442
BB82A-11	314	40 05 28.7 S	145 09 39.5 E	343225	5560474	55	111	232453
BB82A-11	315	40 05 29.4 S	145 09 38.5 E	343202	5560451	55	111	2325 3

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	1	40 03 39.7 S	145 08 38.3 E	341705	5563804	55	112	048 7
BB82A-13	2	40 03 39.0 S	145 08 39.3 E	341730	5563825	56	112	04818
BB82A-13	3	40 03 38.3 S	145 08 40.5 E	341756	5563847	55	112	04831
BB82A-13	4	40 03 37.7 S	145 08 41.5 E	341781	5563868	55	112	04842
BB82A-13	5	40 03 37.0 S	145 08 42.6 E	341806	5563890	56	112	04854
BB82A-13	6	40 03 36.3 S	145 08 43.7 E	341832	5563911	55	112	049 5
BB82A-13	7	40 03 35.6 S	145 08 44.8 E	341857	5563933	55	112	04916
BB82A-13	8	40 03 34.9 S	145 08 45.9 E	341882	5563954	56	112	04928
BB82A-13	9	40 03 34.2 S	145 08 47.0 E	341908	5563976	56	112	04940
BB82A-13	10	40 03 33.6 S	145 08 48.1 E	341933	5563997	55	112	04951
BB82A-13	11	40 03 32.9 S	145 08 49.1 E	341958	5564019	55	112	050 3
BB82A-13	12	40 03 32.2 S	145 08 50.2 E	341983	5564041	55	112	05015
BB82A-13	13	40 03 31.5 S	145 08 51.3 E	342008	5564063	56	112	05026
BB82A-13	14	40 03 30.8 S	145 08 52.3 E	342032	5564085	56	112	05038
BB82A-13	15	40 03 30.1 S	145 08 53.4 E	342057	5564108	55	112	05049
BB82A-13	16	40 03 29.4 S	145 08 54.4 E	342081	5564130	56	112	051 1
BB82A-13	17	40 03 28.6 S	145 08 55.5 E	342106	5564153	56	112	05112
BB82A-13	18	40 03 27.9 S	145 08 56.5 E	342130	5564175	55	112	05124
BB82A-13	19	40 03 27.2 S	145 08 57.6 E	342154	5564198	56	112	05135
BB82A-13	20	40 03 26.5 S	145 08 58.6 E	342178	5564220	55	112	05147
BB82A-13	21	40 03 25.8 S	145 08 59.6 E	342202	5564243	55	112	05157
BB82A-13	22	40 03 25.1 S	145 09 00.7 E	342226	5564266	56	112	05210
BB82A-13	23	40 03 24.3 S	145 09 01.7 E	342250	5564289	55	112	05221
BB82A-13	24	40 03 23.6 S	145 09 02.7 E	342274	5564312	56	112	05232
BB82A-13	25	40 03 22.9 S	145 09 03.8 E	342298	5564335	56	112	05244
BB82A-13	26	40 03 22.1 S	145 09 04.8 E	342322	5564358	56	112	05256
BB82A-13	27	40 03 21.4 S	145 09 05.8 E	342345	5564381	56	112	053 7
BB82A-13	28	40 03 20.6 S	145 09 06.8 E	342369	5564405	56	112	05319
BB82A-13	29	40 03 19.9 S	145 09 07.8 E	342393	5564428	56	112	05330
BB82A-13	30	40 03 19.2 S	145 09 08.8 E	342416	5564451	56	112	05342
BB82A-13	31	40 03 18.4 S	145 09 09.9 E	342440	5564475	56	112	05354
BB82A-13	32	40 03 17.7 S	145 09 10.9 E	342464	5564499	55	112	054 6
BB82A-13	33	40 03 16.9 S	145 09 11.9 E	342488	5564522	56	112	05418
BB82A-13	34	40 03 16.2 S	145 09 13.0 E	342512	5564545	56	112	05430
BB82A-13	35	40 03 15.4 S	145 09 14.0 E	342536	5564569	55	112	05445
BB82A-13	36	40 03 14.7 S	145 09 15.0 E	342560	5564592	56	112	05455
BB82A-13	37	40 03 14.0 S	145 09 16.1 E	342584	5564615	57	112	055 6
BB82A-13	38	40 03 13.2 S	145 09 17.1 E	342609	5564639	55	112	05517
BB82A-13	39	40 03 12.5 S	145 09 18.2 E	342633	5564662	56	112	05529
BB82A-13	40	40 03 11.8 S	145 09 19.3 E	342658	5564685	56	112	05541
BB82A-13	41	40 03 11.0 S	145 09 20.3 E	342683	5564708	55	112	05552
BB82A-13	42	40 03 10.3 S	145 09 21.4 E	342708	5564731	56	112	056 4
BB82A-13	43	40 03 09.6 S	145 09 22.5 E	342733	5564754	56	112	05616
BB82A-13	44	40 03 08.9 S	145 09 23.5 E	342758	5564777	55	112	05627
BB82A-13	45	40 03 08.2 S	145 09 24.6 E	342783	5564799	56	112	05639
BB82A-13	46	40 03 07.4 S	145 09 25.7 E	342808	5564822	56	112	05651
BB82A-13	47	40 03 06.7 S	145 09 26.8 E	342833	5564844	56	112	057 3
BB82A-13	48	40 03 06.0 S	145 09 27.8 E	342858	5564867	55	112	05715
BB82A-13	49	40 03 05.3 S	145 09 28.9 E	342883	5564889	56	112	05727
BB82A-13	50	40 03 04.6 S	145 09 30.0 E	342908	5564911	55	112	05739
BB82A-13	51	40 03 03.9 S	145 09 31.1 E	342933	5564933	56	112	05750
BB82A-13	52	40 03 03.2 S	145 09 32.2 E	342959	5564955	56	112	058 2
BB82A-13	53	40 03 02.5 S	145 09 33.3 E	342984	5564977	56	112	05814
BB82A-13	54	40 03 01.8 S	145 09 34.3 E	343009	5564999	56	112	05826

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	55	40 03 01.2 S	145 09 35.4 E	343034	5565020	56	112	05838
BB82A-13	56	40 03 00.5 S	145 09 36.5 E	343060	5565042	56	112	05850
BB82A-13	57	40 02 59.8 S	145 09 37.6 E	343085	5565064	56	112	059 1
BB82A-13	58	40 02 59.1 S	145 09 38.7 E	343110	5565086	56	112	05913
BB82A-13	59	40 02 58.4 S	145 09 39.7 E	343135	5565107	56	112	05923
BB82A-13	60	40 02 57.7 S	145 09 40.9 E	343161	5565129	56	112	05936
BB82A-13	61	40 02 57.0 S	145 09 41.9 E	343186	5565151	56	112	05948
BB82A-13	62	40 02 56.3 S	145 09 43.0 E	343211	5565173	55	112	05959
BB82A-13	63	40 02 55.6 S	145 09 44.1 E	343236	5565195	56	112	1 011
BB82A-13	64	40 02 54.9 S	145 09 45.2 E	343261	5565218	56	112	1 023
BB82A-13	65	40 02 54.2 S	145 09 46.2 E	343286	5565240	55	112	1 034
BB82A-13	66	40 02 53.5 S	145 09 47.3 E	343311	5565262	56	112	1 045
BB82A-13	67	40 02 52.8 S	145 09 48.4 E	343336	5565284	56	112	1 057
BB82A-13	68	40 02 52.1 S	145 09 49.4 E	343361	5565307	56	112	1 1 9
BB82A-13	69	40 02 51.4 S	145 09 50.5 E	343385	5565329	56	112	1 121
BB82A-13	70	40 02 50.6 S	145 09 51.6 E	343410	5565352	57	112	1 133
BB82A-13	71	40 02 50.0 S	145 09 52.6 E	343435	5565374	56	112	1 145
BB82A-13	72	40 02 49.2 S	145 09 53.7 E	343459	5565397	56	112	1 156
BB82A-13	73	40 02 48.5 S	145 09 54.7 E	343483	5565419	56	112	1 2 8
BB82A-13	74	40 02 47.8 S	145 09 55.8 E	343508	5565442	56	112	1 219
BB82A-13	75	40 02 47.1 S	145 09 56.8 E	343532	5565465	56	112	1 231
BB82A-13	76	40 02 46.4 S	145 09 57.8 E	343556	5565487	56	112	1 243
BB82A-13	77	40 02 45.6 S	145 09 58.9 E	343580	5565510	55	112	1 254
BB82A-13	78	40 02 44.9 S	145 09 59.9 E	343604	5565533	56	112	1 3 6
BB82A-13	79	40 02 44.2 S	145 10 00.9 E	343628	5565556	56	112	1 318
BB82A-13	80	40 02 43.5 S	145 10 02.0 E	343652	5565579	56	112	1 330
BB82A-13	81	40 02 42.8 S	145 10 03.0 E	343676	5565601	56	112	1 341
BB82A-13	82	40 02 42.0 S	145 10 04.0 E	343700	5565624	56	112	1 353
BB82A-13	83	40 02 41.3 S	145 10 05.1 E	343724	5565647	56	112	1 4 4
BB82A-13	84	40 02 40.6 S	145 10 06.1 E	343748	5565670	56	112	1 416
BB82A-13	85	40 02 39.8 S	145 10 07.1 E	343772	5565693	56	112	1 427
BB82A-13	86	40 02 39.1 S	145 10 08.2 E	343796	5565716	56	112	1 439
BB82A-13	87	40 02 38.4 S	145 10 09.2 E	343820	5565739	56	112	1 451
BB82A-13	88	40 02 37.6 S	145 10 10.2 E	343844	5565762	55	112	1 5 3
BB82A-13	89	40 02 36.9 S	145 10 11.2 E	343868	5565785	56	112	1 514
BB82A-13	90	40 02 36.2 S	145 10 12.3 E	343893	5565808	56	112	1 526
BB82A-13	91	40 02 35.5 S	145 10 13.4 E	343917	5565831	56	112	1 537
BB82A-13	92	40 02 34.7 S	145 10 14.4 E	343941	5565854	56	112	1 549
BB82A-13	93	40 02 34.0 S	145 10 15.5 E	343966	5565876	56	112	1 6 1
BB82A-13	94	40 02 33.3 S	145 10 16.5 E	343990	5565899	56	112	1 612
BB82A-13	95	40 02 32.6 S	145 10 17.6 E	344015	5565922	57	112	1 624
BB82A-13	96	40 02 31.9 S	145 10 18.6 E	344040	5565944	56	112	1 635
BB82A-13	97	40 02 31.1 S	145 10 19.7 E	344064	5565967	56	112	1 647
BB82A-13	98	40 02 30.5 S	145 10 20.7 E	344089	5565989	57	112	1 658
BB82A-13	99	40 02 29.7 S	145 10 21.8 E	344114	5566012	56	112	1 710
BB82A-13	100	40 02 29.0 S	145 10 22.9 E	344139	5566034	56	112	1 721
BB82A-13	101	40 02 28.3 S	145 10 24.0 E	344164	5566056	57	112	1 734
BB82A-13	102	40 02 27.6 S	145 10 25.0 E	344189	5566079	56	112	1 745
BB82A-13	103	40 02 26.9 S	145 10 26.1 E	344214	5566101	56	112	1 758
BB82A-13	104	40 02 26.2 S	145 10 27.2 E	344239	5566123	57	112	1 810
BB82A-13	105	40 02 25.5 S	145 10 28.3 E	344264	5566145	56	112	1 823
BB82A-13	106	40 02 24.8 S	145 10 29.3 E	344289	5566167	56	112	1 833
BB82A-13	107	40 02 24.1 S	145 10 30.4 E	344314	5566189	57	112	1 845
BB82A-13	108	40 02 23.5 S	145 10 31.5 E	344340	5566210	57	112	1 858

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	109	40 02 22.8 S	145 10 32.6 E	344365	5566232	56	112	1 9 9
BB82A-13	110	40 02 22.1 S	145 10 33.7 E	344390	5566254	57	112	1 921
BB82A-13	111	40 02 21.4 S	145 10 34.7 E	344415	5566276	57	112	1 933
BB82A-13	112	40 02 20.7 S	145 10 35.8 E	344440	5566297	56	112	1 944
BB82A-13	113	40 02 20.0 S	145 10 36.9 E	344466	5566319	57	112	1 955
BB82A-13	114	40 02 19.3 S	145 10 38.0 E	344491	5566341	57	112	110 8
BB82A-13	115	40 02 18.6 S	145 10 39.1 E	344516	5566363	56	112	11019
BB82A-13	116	40 02 17.9 S	145 10 40.2 E	344541	5566385	56	112	11031
BB82A-13	117	40 02 17.2 S	145 10 41.2 E	344566	5566407	57	112	11043
BB82A-13	118	40 02 16.5 S	145 10 42.3 E	344591	5566429	56	112	11055
BB82A-13	119	40 02 15.8 S	145 10 43.4 E	344616	5566451	56	112	111 5
BB82A-13	120	40 02 15.1 S	145 10 44.4 E	344641	5566474	58	112	11118
BB82A-13	121	40 02 14.4 S	145 10 45.5 E	344666	5566496	57	112	11130
BB82A-13	122	40 02 13.7 S	145 10 46.6 E	344691	5566519	56	112	11141
BB82A-13	123	40 02 13.0 S	145 10 47.6 E	344715	5566541	57	112	11153
BB82A-13	124	40 02 12.2 S	145 10 48.7 E	344740	5566564	57	112	112 5
BB82A-13	125	40 02 11.5 S	145 10 49.8 E	344765	5566586	57	112	11216
BB82A-13	126	40 02 10.8 S	145 10 50.8 E	344790	5566609	57	112	11228
BB82A-13	127	40 02 10.1 S	145 10 51.9 E	344814	5566632	57	112	11240
BB82A-13	128	40 02 09.4 S	145 10 53.0 E	344839	5566655	57	112	11252
BB82A-13	129	40 02 08.6 S	145 10 54.0 E	344863	5566678	57	112	113 3
BB82A-13	130	40 02 07.9 S	145 10 55.1 E	344888	5566701	57	112	11315
BB82A-13	131	40 02 07.2 S	145 10 56.1 E	344912	5566723	57	112	11326
BB82A-13	132	40 02 06.5 S	145 10 57.2 E	344937	5566746	56	112	11337
BB82A-13	133	40 02 05.7 S	145 10 58.2 E	344961	5566769	57	112	11349
BB82A-13	134	40 02 05.0 S	145 10 59.3 E	344986	5566792	57	112	114 1
BB82A-13	135	40 02 04.3 S	145 11 00.3 E	345010	5566814	57	112	11412
BB82A-13	136	40 02 03.6 S	145 11 01.4 E	345035	5566837	57	112	11423
BB82A-13	137	40 02 02.9 S	145 11 02.5 E	345060	5566859	57	112	11436
BB82A-13	138	40 02 02.2 S	145 11 03.5 E	345084	5566882	56	112	11446
BB82A-13	139	40 02 01.5 S	145 11 04.6 E	345109	5566904	57	112	11459
BB82A-13	140	40 02 00.7 S	145 11 05.6 E	345133	5566927	57	112	11510
BB82A-13	141	40 02 00.0 S	145 11 06.7 E	345158	5566949	57	112	11521
BB82A-13	142	40 01 59.3 S	145 11 07.7 E	345183	5566971	57	112	11533
BB82A-13	143	40 01 58.6 S	145 11 08.8 E	345207	5566993	57	112	11546
BB82A-13	144	40 01 57.9 S	145 11 09.8 E	345232	5567016	56	112	11557
BB82A-13	145	40 01 57.2 S	145 11 10.9 E	345257	5567038	57	112	116 9
BB82A-13	146	40 01 56.5 S	145 11 11.9 E	345281	5567060	56	112	11621
BB82A-13	147	40 01 55.8 S	145 11 13.0 E	345306	5567082	57	112	11631
BB82A-13	148	40 01 55.1 S	145 11 14.0 E	345330	5567104	58	112	11644
BB82A-13	149	40 01 54.4 S	145 11 15.1 E	345355	5567127	57	112	11656
BB82A-13	150	40 01 53.7 S	145 11 16.2 E	345379	5567149	57	112	117 7
BB82A-13	151	40 01 53.0 S	145 11 17.2 E	345404	5567171	57	112	11719
BB82A-13	152	40 01 52.3 S	145 11 18.3 E	345428	5567194	57	112	11730
BB82A-13	153	40 01 51.6 S	145 11 19.3 E	345453	5567216	56	112	11742
BB82A-13	154	40 01 50.8 S	145 11 20.4 E	345477	5567239	57	112	11754
BB82A-13	155	40 01 50.2 S	145 11 21.4 E	345502	5567261	56	112	118 5
BB82A-13	156	40 01 49.4 S	145 11 22.5 E	345526	5567284	57	112	11816
BB82A-13	157	40 01 48.7 S	145 11 23.5 E	345551	5567306	57	112	11829
BB82A-13	158	40 01 48.0 S	145 11 24.6 E	345575	5567329	57	112	11841
BB82A-13	159	40 01 47.3 S	145 11 25.6 E	345599	5567351	57	112	11853
BB82A-13	160	40 01 46.6 S	145 11 26.7 E	345624	5567374	57	112	119 5
BB82A-13	161	40 01 45.8 S	145 11 27.7 E	345648	5567397	56	112	11917
BB82A-13	162	40 01 45.1 S	145 11 28.8 E	345673	5567419	57	112	11929

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	163	40 01 44.4 S	145 11 29.9 E	345698	5567442	57	112	11941
BB82A-13	164	40 01 43.7 S	145 11 30.9 E	345722	5567465	56	112	11952
BB82A-13	165	40 01 43.0 S	145 11 32.0 E	345747	5567487	57	112	120 4
BB82A-13	166	40 01 42.3 S	145 11 33.0 E	345772	5567510	56	112	12016
BB82A-13	167	40 01 41.5 S	145 11 34.1 E	345797	5567533	56	112	12027
BB82A-13	168	40 01 40.8 S	145 11 35.2 E	345822	5567555	58	112	12039
BB82A-13	169	40 01 40.1 S	145 11 36.3 E	345847	5567578	57	112	12051
BB82A-13	170	40 01 39.4 S	145 11 37.3 E	345872	5567601	56	112	121 2
BB82A-13	171	40 01 38.7 S	145 11 38.4 E	345897	5567623	57	112	12114
BB82A-13	172	40 01 37.9 S	145 11 39.5 E	345922	5567646	56	112	12126
BB82A-13	173	40 01 37.2 S	145 11 40.6 E	345947	5567669	57	112	12137
BB82A-13	174	40 01 36.5 S	145 11 41.6 E	345971	5567691	57	112	12150
BB82A-13	175	40 01 35.8 S	145 11 42.7 E	345996	5567714	56	112	122 1
BB82A-13	176	40 01 35.1 S	145 11 43.7 E	346021	5567737	57	112	12212
BB82A-13	177	40 01 34.3 S	145 11 44.8 E	346046	5567760	57	112	12224
BB82A-13	178	40 01 33.6 S	145 11 45.8 E	346070	5567783	56	112	12236
BB82A-13	179	40 01 32.9 S	145 11 46.9 E	346095	5567805	58	112	12247
BB82A-13	180	40 01 32.2 S	145 11 47.9 E	346119	5567828	56	112	12259
BB82A-13	181	40 01 31.4 S	145 11 49.0 E	346144	5567851	57	112	12310
BB82A-13	182	40 01 30.7 S	145 11 50.0 E	346168	5567874	57	112	12323
BB82A-13	183	40 01 30.0 S	145 11 51.1 E	346193	5567897	57	112	12334
BB82A-13	184	40 01 29.3 S	145 11 52.2 E	346217	5567919	57	112	12346
BB82A-13	185	40 01 28.6 S	145 11 53.2 E	346241	5567942	57	112	12358
BB82A-13	186	40 01 27.8 S	145 11 54.2 E	346265	5567965	57	112	124 9
BB82A-13	187	40 01 27.1 S	145 11 55.2 E	346289	5567988	57	112	12421
BB82A-13	188	40 01 26.4 S	145 11 56.3 E	346314	5568010	57	112	12432
BB82A-13	189	40 01 25.7 S	145 11 57.4 E	346338	5568033	57	112	12444
BB82A-13	190	40 01 25.0 S	145 11 58.4 E	346362	5568055	56	112	12455
BB82A-13	191	40 01 24.2 S	145 11 59.4 E	346386	5568078	57	112	125 7
BB82A-13	192	40 01 23.5 S	145 12 00.5 E	346411	5568100	58	112	12519
BB82A-13	193	40 01 22.9 S	145 12 01.5 E	346435	5568122	57	112	12531
BB82A-13	194	40 01 22.2 S	145 12 02.6 E	346460	5568144	57	112	12542
BB82A-13	195	40 01 21.4 S	145 12 03.6 E	346484	5568167	57	112	12554
BB82A-13	196	40 01 20.7 S	145 12 04.7 E	346509	5568189	57	112	126 6
BB82A-13	197	40 01 20.0 S	145 12 05.7 E	346533	5568211	57	112	12617
BB82A-13	198	40 01 19.3 S	145 12 06.8 E	346558	5568233	57	112	12628
BB82A-13	199	40 01 18.6 S	145 12 07.9 E	346583	5568255	57	112	12641
BB82A-13	200	40 01 17.9 S	145 12 08.9 E	346607	5568277	57	112	12652
BB82A-13	201	40 01 17.2 S	145 12 10.0 E	346632	5568299	57	112	127 4
BB82A-13	202	40 01 16.5 S	145 12 11.0 E	346657	5568321	58	112	12716
BB82A-13	203	40 01 15.8 S	145 12 12.1 E	346682	5568343	57	112	12727
BB82A-13	204	40 01 15.1 S	145 12 13.2 E	346707	5568366	57	112	12739
BB82A-13	205	40 01 14.4 S	145 12 14.3 E	346732	5568388	57	112	12751
BB82A-13	206	40 01 13.7 S	145 12 15.3 E	346757	5568410	57	112	128 3
BB82A-13	207	40 01 13.0 S	145 12 16.4 E	346782	5568433	58	112	12815
BB82A-13	208	40 01 12.3 S	145 12 17.5 E	346807	5568455	58	112	12827
BB82A-13	209	40 01 11.6 S	145 12 18.6 E	346832	5568478	57	112	12838
BB82A-13	210	40 01 10.8 S	145 12 19.6 E	346857	5568501	58	112	12850
BB82A-13	211	40 01 10.1 S	145 12 20.7 E	346883	5568524	57	112	129 1
BB82A-13	212	40 01 09.4 S	145 12 21.8 E	346908	5568547	58	112	12913
BB82A-13	213	40 01 08.7 S	145 12 22.9 E	346933	5568570	57	112	12925
BB82A-13	214	40 01 07.9 S	145 12 24.0 E	346959	5568593	56	112	12938
BB82A-13	215	40 01 07.2 S	145 12 25.1 E	346984	5568616	58	112	12950
BB82A-13	216	40 01 06.4 S	145 12 26.2 E	347009	5568640	57	112	130 1

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	217	40 01 05.7 S	145 12 27.2 E	347034	5568663	57	112	13011
BB82A-13	218	40 01 05.0 S	145 12 28.4 E	347060	5568686	57	112	13027
BB82A-13	219	40 01 04.2 S	145 12 29.4 E	347085	5568709	57	112	13039
BB82A-13	220	40 01 03.5 S	145 12 30.5 E	347111	5568732	57	112	13051
BB82A-13	221	40 01 02.8 S	145 12 31.7 E	347137	5568755	58	112	131 4
BB82A-13	222	40 01 02.1 S	145 12 32.7 E	347162	5568777	57	112	13115
BB82A-13	223	40 01 01.4 S	145 12 33.8 E	347187	5568800	57	112	13127
BB82A-13	224	40 01 00.6 S	145 12 34.9 E	347213	5568823	58	112	13138
BB82A-13	225	40 00 59.9 S	145 12 36.0 E	347238	5568845	58	112	13150
BB82A-13	226	40 00 59.2 S	145 12 37.1 E	347263	5568868	57	112	132 2
BB82A-13	227	40 00 58.5 S	145 12 38.1 E	347288	5568890	57	112	13213
BB82A-13	228	40 00 57.8 S	145 12 39.2 E	347313	5568913	57	112	13225
BB82A-13	229	40 00 57.1 S	145 12 40.3 E	347338	5568935	58	112	13236
BB82A-13	230	40 00 56.4 S	145 12 41.4 E	347363	5568958	57	112	13249
BB82A-13	231	40 00 55.7 S	145 12 42.4 E	347387	5568980	57	112	133 0
BB82A-13	232	40 00 55.0 S	145 12 43.5 E	347412	5569002	58	112	13312
BB82A-13	233	40 00 54.2 S	145 12 44.5 E	347436	5569025	58	112	13323
BB82A-13	234	40 00 53.5 S	145 12 45.6 E	347461	5569047	57	112	13335
BB82A-13	235	40 00 52.8 S	145 12 46.6 E	347485	5569069	58	112	13346
BB82A-13	236	40 00 52.1 S	145 12 47.7 E	347510	5569092	58	112	13358
BB82A-13	237	40 00 51.4 S	145 12 48.7 E	347534	5569114	58	112	134 9
BB82A-13	238	40 00 50.7 S	145 12 49.8 E	347559	5569136	58	112	13421
BB82A-13	239	40 00 50.0 S	145 12 50.8 E	347583	5569158	57	112	13432
BB82A-13	240	40 00 49.3 S	145 12 51.9 E	347608	5569180	58	112	13444
BB82A-13	241	40 00 48.6 S	145 12 52.9 E	347633	5569202	58	112	13456
BB82A-13	242	40 00 47.9 S	145 12 54.0 E	347657	5569224	57	112	135 7
BB82A-13	243	40 00 47.2 S	145 12 55.1 E	347682	5569246	57	112	13518
BB82A-13	244	40 00 46.5 S	145 12 56.1 E	347707	5569268	57	112	13531
BB82A-13	245	40 00 45.8 S	145 12 57.2 E	347732	5569290	58	112	13542
BB82A-13	246	40 00 45.1 S	145 12 58.3 E	347757	5569312	58	112	13554
BB82A-13	247	40 00 44.4 S	145 12 59.3 E	347782	5569334	57	112	136 5
BB82A-13	248	40 00 43.7 S	145 13 00.4 E	347807	5569356	57	112	13617
BB82A-13	249	40 00 43.0 S	145 13 01.5 E	347832	5569379	58	112	13629
BB82A-13	250	40 00 42.3 S	145 13 02.6 E	347857	5569401	58	112	13641
BB82A-13	251	40 00 41.6 S	145 13 03.6 E	347881	5569423	57	112	13652
BB82A-13	252	40 00 40.9 S	145 13 04.7 E	347906	5569445	57	112	137 4
BB82A-13	253	40 00 40.2 S	145 13 05.7 E	347931	5569468	58	112	13715
BB82A-13	254	40 00 39.5 S	145 13 06.8 E	347955	5569490	57	112	13727
BB82A-13	255	40 00 38.8 S	145 13 07.8 E	347980	5569513	58	112	13739
BB82A-13	256	40 00 38.0 S	145 13 08.9 E	348004	5569536	58	112	13751
BB82A-13	257	40 00 37.3 S	145 13 09.9 E	348028	5569558	57	112	138 3
BB82A-13	258	40 00 36.6 S	145 13 10.9 E	348052	5569581	58	112	13814
BB82A-13	259	40 00 35.8 S	145 13 12.0 E	348076	5569605	58	112	13825
BB82A-13	260	40 00 35.1 S	145 13 13.0 E	348100	5569628	58	112	13836
BB82A-13	261	40 00 34.4 S	145 13 14.0 E	348124	5569651	58	112	13849
BB82A-13	262	40 00 33.6 S	145 13 15.1 E	348148	5569675	58	112	139 1
BB82A-13	263	40 00 32.9 S	145 13 16.0 E	348171	5569698	58	112	13911
BB82A-13	264	40 00 32.1 S	145 13 17.1 E	348195	5569722	58	112	13924
BB82A-13	265	40 00 31.4 S	145 13 18.1 E	348219	5569745	58	112	13935
BB82A-13	266	40 00 30.6 S	145 13 19.1 E	348242	5569769	57	112	13947
BB82A-13	267	40 00 29.9 S	145 13 20.1 E	348266	5569793	58	112	13958
BB82A-13	268	40 00 29.1 S	145 13 21.2 E	348290	5569816	58	112	14010
BB82A-13	269	40 00 28.4 S	145 13 22.2 E	348314	5569840	58	112	14022
BB82A-13	270	40 00 27.6 S	145 13 23.2 E	348338	5569863	58	112	14034

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	271	40 00 26.9 S	145 13 24.3 E	348362	5569886	58	112	14045
BB82A-13	272	40 00 26.2 S	145 13 25.3 E	348387	5569909	58	112	14058
BB82A-13	273	40 00 25.5 S	145 13 26.4 E	348411	5569932	57	112	141 9
BB82A-13	274	40 00 24.7 S	145 13 27.4 E	348436	5569955	58	112	14121
BB82A-13	275	40 00 24.0 S	145 13 28.5 E	348461	5569978	58	112	14133
BB82A-13	276	40 00 23.3 S	145 13 29.6 E	348486	5570000	58	112	14144
BB82A-13	277	40 00 22.6 S	145 13 30.7 E	348511	5570023	59	112	14155
BB82A-13	278	40 00 21.9 S	145 13 31.7 E	348536	5570045	58	112	142 7
BB82A-13	279	40 00 21.2 S	145 13 32.8 E	348562	5570067	58	112	14219
BB82A-13	280	40 00 20.5 S	145 13 33.9 E	348587	5570089	58	112	14231
BB82A-13	281	40 00 19.8 S	145 13 35.0 E	348613	5570110	58	112	14242
BB82A-13	282	40 00 19.1 S	145 13 36.1 E	348638	5570132	58	112	14254
BB82A-13	283	40 00 18.4 S	145 13 37.2 E	348664	5570154	58	112	143 5
BB82A-13	284	40 00 17.8 S	145 13 38.3 E	348690	5570175	58	112	14317
BB82A-13	285	40 00 17.1 S	145 13 39.4 E	348715	5570197	57	112	14329
BB82A-13	286	40 00 16.4 S	145 13 40.5 E	348740	5570219	58	112	14340
BB82A-13	287	40 00 15.7 S	145 13 41.6 E	348766	5570240	58	112	14353
BB82A-13	288	40 00 15.0 S	145 13 42.7 E	348791	5570262	58	112	144 4
BB82A-13	289	40 00 14.3 S	145 13 43.7 E	348815	5570284	58	112	14416
BB82A-13	290	40 00 13.6 S	145 13 44.8 E	348840	5570306	58	112	14427
BB82A-13	291	40 00 12.9 S	145 13 45.8 E	348865	5570328	58	112	14439
BB82A-13	292	40 00 12.2 S	145 13 46.9 E	348889	5570350	0	112	14451
BB82A-13	293	40 00 11.5 S	145 13 47.9 E	348914	5570372	0	112	145 2
BB82A-13	294	40 00 10.8 S	145 13 49.0 E	348938	5570394	0	112	14514
BB82A-13	295	40 00 10.1 S	145 13 50.0 E	348962	5570417	0	112	14526
BB82A-13	296	40 00 09.4 S	145 13 51.0 E	348986	5570439	0	112	14537
BB82A-13	297	40 00 08.7 S	145 13 52.1 E	349011	5570462	0	112	14549
BB82A-13	298	40 00 08.0 S	145 13 53.1 E	349035	5570484	0	112	146 0
BB82A-13	299	40 00 07.2 S	145 13 54.2 E	349059	5570507	58	112	14612
BB82A-13	300	40 00 06.5 S	145 13 55.2 E	349084	5570530	58	112	14624
BB82A-13	301	40 00 05.8 S	145 13 56.3 E	349108	5570553	58	112	14636
BB82A-13	302	40 00 05.1 S	145 13 57.3 E	349132	5570575	58	112	14648
BB82A-13	303	40 00 04.3 S	145 13 58.4 E	349157	5570598	58	112	14659
BB82A-13	304	40 00 03.6 S	145 13 59.4 E	349181	5570621	58	112	14711
BB82A-13	305	40 00 02.9 S	145 14 00.5 E	349206	5570644	58	112	14723
BB82A-13	306	40 00 02.2 S	145 14 01.5 E	349230	5570666	58	112	14734
BB82A-13	307	40 00 01.5 S	145 14 02.6 E	349255	5570689	58	112	14746
BB82A-13	308	40 00 00.8 S	145 14 03.6 E	349280	5570711	58	112	14758
BB82A-13	309	40 00 00.0 S	145 14 04.7 E	349304	5570734	57	112	148 9
BB82A-13	310	39 59 59.3 S	145 14 05.8 E	349329	5570756	58	112	14821
BB82A-13	311	39 59 58.6 S	145 14 06.8 E	349354	5570779	58	112	14833
BB82A-13	312	39 59 57.9 S	145 14 07.9 E	349378	5570801	58	112	14844
BB82A-13	313	39 59 57.2 S	145 14 08.9 E	349403	5570823	58	112	14856
BB82A-13	314	39 59 56.5 S	145 14 10.0 E	349428	5570846	58	112	149 7
BB82A-13	315	39 59 55.8 S	145 14 11.0 E	349452	5570868	58	112	14919
BB82A-13	316	39 59 55.1 S	145 14 12.1 E	349477	5570890	58	112	14931
BB82A-13	317	39 59 54.4 S	145 14 13.1 E	349501	5570913	58	112	14943
BB82A-13	318	39 59 53.7 S	145 14 14.2 E	349526	5570935	58	112	14954
BB82A-13	319	39 59 53.0 S	145 14 15.2 E	349550	5570957	58	112	150 6
BB82A-13	320	39 59 52.3 S	145 14 16.3 E	349575	5570979	58	112	15017
BB82A-13	321	39 59 51.5 S	145 14 17.3 E	349599	5571002	58	112	15029
BB82A-13	322	39 59 50.8 S	145 14 18.4 E	349624	5571024	59	112	15040
BB82A-13	323	39 59 50.1 S	145 14 19.5 E	349649	5571047	58	112	15052
BB82A-13	324	39 59 49.4 S	145 14 20.6 E	349674	5571069	58	112	151 4

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-13	325	39 59 48.7 S	145 14 21.6 E	349699	5571092	58	112	15116
BB82A-13	326	39 59 47.9 S	145 14 22.7 E	349724	5571115	58	112	15128
BB82A-13	327	39 59 47.2 S	145 14 23.8 E	349749	5571138	58	112	15140
BB82A-13	328	39 59 46.5 S	145 14 24.8 E	349774	5571161	58	112	15151
BB82A-13	329	39 59 45.8 S	145 14 25.9 E	349799	5571184	58	112	152 4
BB82A-13	330	39 59 45.0 S	145 14 27.0 E	349825	5571208	58	112	15215

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	1	39 57 49.8 S	145 12 27.9 E	346929	5574704	57	112	31931
BB82A-15	2	39 57 50.3 S	145 12 26.7 E	346901	5574687	57	112	31942
BB82A-15	3	39 57 50.9 S	145 12 25.5 E	346872	5574670	57	112	31952
BB82A-15	4	39 57 51.4 S	145 12 24.2 E	346842	5574653	57	112	320 3
BB82A-15	5	39 57 51.9 S	145 12 22.9 E	346812	5574636	57	112	32014
BB82A-15	6	39 57 52.5 S	145 12 21.7 E	346783	5574619	57	112	32025
BB82A-15	7	39 57 53.0 S	145 12 20.4 E	346753	5574602	57	112	32036
BB82A-15	8	39 57 53.5 S	145 12 19.2 E	346724	5574585	57	112	32046
BB82A-15	9	39 57 54.1 S	145 12 18.0 E	346695	5574567	57	112	32057
BB82A-15	10	39 57 54.6 S	145 12 16.7 E	346666	5574550	57	112	321 7
BB82A-15	11	39 57 55.2 S	145 12 15.5 E	346637	5574532	58	112	32118
BB82A-15	12	39 57 55.7 S	145 12 14.2 E	346608	5574515	57	112	32129
BB82A-15	13	39 57 56.2 S	145 12 13.0 E	346579	5574498	57	112	32139
BB82A-15	14	39 57 56.8 S	145 12 11.8 E	346550	5574481	57	112	32149
BB82A-15	15	39 57 57.3 S	145 12 10.5 E	346521	5574464	57	112	322 0
BB82A-15	16	39 57 57.8 S	145 12 09.3 E	346492	5574448	57	112	32210
BB82A-15	17	39 57 58.3 S	145 12 08.1 E	346464	5574432	57	112	32221
BB82A-15	18	39 57 58.8 S	145 12 06.9 E	346435	5574415	58	112	32231
BB82A-15	19	39 57 59.3 S	145 12 05.6 E	346406	5574399	57	112	32242
BB82A-15	20	39 57 59.8 S	145 12 04.4 E	346377	5574383	57	112	32252
BB82A-15	21	39 58 00.3 S	145 12 03.2 E	346348	5574367	57	112	323 3
BB82A-15	22	39 58 00.9 S	145 12 01.9 E	346319	5574350	57	112	32313
BB82A-15	23	39 58 01.4 S	145 12 00.7 E	346290	5574334	57	112	32324
BB82A-15	24	39 58 01.9 S	145 11 59.5 E	346261	5574318	57	112	32334
BB82A-15	25	39 58 02.4 S	145 11 58.2 E	346232	5574302	57	112	32345
BB82A-15	26	39 58 02.9 S	145 11 57.0 E	346203	5574286	57	112	32355
BB82A-15	27	39 58 03.3 S	145 11 55.7 E	346173	5574271	58	112	324 6
BB82A-15	28	39 58 03.8 S	145 11 54.4 E	346143	5574255	57	112	32416
BB82A-15	29	39 58 04.3 S	145 11 53.2 E	346114	5574240	57	112	32427
BB82A-15	30	39 58 04.8 S	145 11 52.0 E	346085	5574225	57	112	32437
BB82A-15	31	39 58 05.2 S	145 11 50.7 E	346055	5574210	57	112	32448
BB82A-15	32	39 58 05.7 S	145 11 49.4 E	346025	5574195	57	112	32458
BB82A-15	33	39 58 06.2 S	145 11 48.1 E	345995	5574180	57	112	325 9
BB82A-15	34	39 58 06.6 S	145 11 46.9 E	345965	5574166	57	112	32519
BB82A-15	35	39 58 07.1 S	145 11 45.6 E	345935	5574151	57	112	32530
BB82A-15	36	39 58 07.5 S	145 11 44.3 E	345905	5574136	57	112	32540
BB82A-15	37	39 58 08.0 S	145 11 43.0 E	345875	5574122	57	112	32550
BB82A-15	38	39 58 08.4 S	145 11 41.8 E	345845	5574107	56	112	326 1
BB82A-15	39	39 58 08.9 S	145 11 40.5 E	345815	5574093	57	112	32612
BB82A-15	40	39 58 09.3 S	145 11 39.2 E	345785	5574078	57	112	32622
BB82A-15	41	39 58 09.8 S	145 11 37.9 E	345755	5574063	57	112	32633
BB82A-15	42	39 58 10.2 S	145 11 36.6 E	345725	5574049	57	112	32644
BB82A-15	43	39 58 10.7 S	145 11 35.4 E	345695	5574034	56	112	32654
BB82A-15	44	39 58 11.2 S	145 11 34.1 E	345665	5574019	56	112	327 5
BB82A-15	45	39 58 11.6 S	145 11 32.8 E	345635	5574004	57	112	32715
BB82A-15	46	39 58 12.1 S	145 11 31.6 E	345606	5573989	57	112	32726
BB82A-15	47	39 58 12.6 S	145 11 30.3 E	345576	5573974	56	112	32736
BB82A-15	48	39 58 13.1 S	145 11 29.0 E	345546	5573958	56	112	32747
BB82A-15	49	39 58 13.5 S	145 11 27.8 E	345517	5573943	56	112	32758
BB82A-15	50	39 58 14.0 S	145 11 26.6 E	345488	5573927	57	112	328 9
BB82A-15	51	39 58 14.5 S	145 11 25.3 E	345459	5573911	57	112	32819
BB82A-15	52	39 58 15.0 S	145 11 24.1 E	345430	5573895	57	112	32829
BB82A-15	53	39 58 15.5 S	145 11 22.8 E	345401	5573879	57	112	32839
BB82A-15	54	39 58 16.1 S	145 11 21.6 E	345372	5573862	56	112	32850

LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	55	39 58 16.6 S	145 11 20.4 E	345343	5573846	56	112	329 0
BB82A-15	56	39 58 17.1 S	145 11 19.1 E	345314	5573829	56	112	32911
BB82A-15	57	39 58 17.6 S	145 11 17.9 E	345286	5573812	56	112	32921
BB82A-15	58	39 58 18.1 S	145 11 16.7 E	345257	5573796	56	112	32932
BB82A-15	59	39 58 18.7 S	145 11 15.5 E	345228	5573779	56	112	32943
BB82A-15	60	39 58 19.2 S	145 11 14.2 E	345199	5573762	56	112	32953
BB82A-15	61	39 58 19.7 S	145 11 13.0 E	345170	5573746	57	112	330 3
BB82A-15	62	39 58 20.2 S	145 11 11.8 E	345141	5573729	57	112	33013
BB82A-15	63	39 58 20.8 S	145 11 10.5 E	345112	5573712	57	112	33024
BB82A-15	64	39 58 21.3 S	145 11 09.3 E	345083	5573696	56	112	33035
BB82A-15	65	39 58 21.8 S	145 11 08.1 E	345054	5573679	56	112	33046
BB82A-15	66	39 58 22.3 S	145 11 06.8 E	345025	5573663	56	112	33056
BB82A-15	67	39 58 22.8 S	145 11 05.6 E	344996	5573647	56	112	331 7
BB82A-15	68	39 58 23.3 S	145 11 04.3 E	344967	5573631	57	112	33117
BB82A-15	69	39 58 23.8 S	145 11 03.1 E	344938	5573615	56	112	33128
BB82A-15	70	39 58 24.3 S	145 11 01.9 E	344909	5573599	56	112	33138
BB82A-15	71	39 58 24.8 S	145 11 00.6 E	344880	5573583	56	112	33150
BB82A-15	72	39 58 25.3 S	145 10 59.4 E	344851	5573567	57	112	332 0
BB82A-15	73	39 58 25.8 S	145 10 58.2 E	344822	5573551	56	112	33211
BB82A-15	74	39 58 26.3 S	145 10 56.9 E	344793	5573535	56	112	33221
BB82A-15	75	39 58 26.8 S	145 10 55.7 E	344764	5573519	56	112	33232
BB82A-15	76	39 58 27.3 S	145 10 54.5 E	344735	5573503	57	112	33242
BB82A-15	77	39 58 27.8 S	145 10 53.2 E	344705	5573487	57	112	33253
BB82A-15	78	39 58 28.3 S	145 10 51.9 E	344676	5573471	56	112	333 4
BB82A-15	79	39 58 28.8 S	145 10 50.7 E	344647	5573455	57	112	33314
BB82A-15	80	39 58 29.3 S	145 10 49.4 E	344617	5573439	57	112	33324
BB82A-15	81	39 58 29.8 S	145 10 48.2 E	344588	5573423	56	112	33335
BB82A-15	82	39 58 30.3 S	145 10 47.0 E	344559	5573406	56	112	33346
BB82A-15	83	39 58 30.8 S	145 10 45.7 E	344529	5573390	56	112	33357
BB82A-15	84	39 58 31.3 S	145 10 44.4 E	344500	5573374	56	112	334 7
BB82A-15	85	39 58 31.8 S	145 10 43.2 E	344470	5573358	57	112	33418
BB82A-15	86	39 58 32.3 S	145 10 41.9 E	344440	5573342	57	112	33428
BB82A-15	87	39 58 32.8 S	145 10 40.7 E	344411	5573326	56	112	33439
BB82A-15	88	39 58 33.3 S	145 10 39.4 E	344381	5573310	56	112	33450
BB82A-15	89	39 58 33.8 S	145 10 38.1 E	344351	5573294	56	112	335 0
BB82A-15	90	39 58 34.3 S	145 10 36.9 E	344322	5573278	57	112	33510
BB82A-15	91	39 58 34.8 S	145 10 35.6 E	344292	5573262	57	112	33521
BB82A-15	92	39 58 35.3 S	145 10 34.3 E	344262	5573247	56	112	33532
BB82A-15	93	39 58 35.8 S	145 10 33.1 E	344233	5573231	56	112	33542
BB82A-15	94	39 58 36.3 S	145 10 31.8 E	344203	5573215	56	112	33553
BB82A-15	95	39 58 36.7 S	145 10 30.5 E	344173	5573200	56	112	336 4
BB82A-15	96	39 58 37.2 S	145 10 29.2 E	344143	5573184	56	112	33614
BB82A-15	97	39 58 37.7 S	145 10 28.0 E	344113	5573169	56	112	33624
BB82A-15	98	39 58 38.2 S	145 10 26.7 E	344084	5573154	56	112	33635
BB82A-15	99	39 58 38.7 S	145 10 25.5 E	344054	5573138	56	112	33646
BB82A-15	100	39 58 39.1 S	145 10 24.2 E	344025	5573123	56	112	33656
BB82A-15	101	39 58 39.6 S	145 10 22.9 E	343995	5573108	56	112	337 7
BB82A-15	102	39 58 40.1 S	145 10 21.7 E	343966	5573092	56	112	33717
BB82A-15	103	39 58 40.6 S	145 10 20.4 E	343936	5573077	56	112	33728
BB82A-15	104	39 58 41.1 S	145 10 19.2 E	343907	5573061	57	112	33738
BB82A-15	105	39 58 41.5 S	145 10 18.0 E	343878	5573046	56	112	33749
BB82A-15	106	39 58 42.0 S	145 10 16.7 E	343849	5573030	56	112	33759
BB82A-15	107	39 58 42.5 S	145 10 15.4 E	343819	5573014	56	112	33810
BB82A-15	108	39 58 43.0 S	145 10 14.2 E	343790	5572998	57	112	33820

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	109	39 58 43.5 S	145 10 13.0 E	343761	5572982	57	112	33831
BB82A-15	110	39 58 44.0 S	145 10 11.7 E	343731	5572966	56	112	33841
BB82A-15	111	39 58 44.5 S	145 10 10.5 E	343702	5572950	56	112	33852
BB82A-15	112	39 58 45.0 S	145 10 09.2 E	343673	5572934	56	112	339 2
BB82A-15	113	39 58 45.5 S	145 10 07.9 E	343643	5572918	57	112	33913
BB82A-15	114	39 58 46.0 S	145 10 06.7 E	343613	5572902	56	112	33924
BB82A-15	115	39 58 46.6 S	145 10 05.4 E	343584	5572885	56	112	33934
BB82A-15	116	39 58 47.1 S	145 10 04.2 E	343555	5572869	57	112	33944
BB82A-15	117	39 58 47.6 S	145 10 02.9 E	343525	5572853	56	112	33955
BB82A-15	118	39 58 48.1 S	145 10 01.6 E	343495	5572837	55	112	340 5
BB82A-15	119	39 58 48.6 S	145 10 00.4 E	343465	5572821	56	112	34016
BB82A-15	120	39 58 49.1 S	145 09 59.1 E	343436	5572805	57	112	34026
BB82A-15	121	39 58 49.5 S	145 09 57.8 E	343406	5572789	56	112	34037
BB82A-15	122	39 58 50.0 S	145 09 56.6 E	343376	5572773	55	112	34048
BB82A-15	123	39 58 50.5 S	145 09 55.3 E	343346	5572758	55	112	34059
BB82A-15	124	39 58 51.0 S	145 09 54.1 E	343317	5572742	56	112	341 9
BB82A-15	125	39 58 51.5 S	145 09 52.8 E	343287	5572726	56	112	34119
BB82A-15	126	39 58 52.0 S	145 09 51.5 E	343257	5572711	56	112	34130
BB82A-15	127	39 58 52.5 S	145 09 50.3 E	343228	5572695	56	112	34141
BB82A-15	128	39 58 52.9 S	145 09 49.0 E	343198	5572680	56	112	34151
BB82A-15	129	39 58 53.4 S	145 09 47.7 E	343168	5572665	56	112	342 2
BB82A-15	130	39 58 53.9 S	145 09 46.5 E	343139	5572649	56	112	34212
BB82A-15	131	39 58 54.4 S	145 09 45.2 E	343110	5572634	56	112	34223
BB82A-15	132	39 58 54.8 S	145 09 44.0 E	343081	5572619	48	112	34233
BB82A-15	133	39 58 55.3 S	145 09 42.8 E	343052	5572604	56	112	34243
BB82A-15	134	39 58 55.8 S	145 09 41.5 E	343023	5572589	56	112	34254
BB82A-15	135	39 58 56.2 S	145 09 40.3 E	342994	5572574	56	112	343 4
BB82A-15	136	39 58 56.7 S	145 09 39.1 E	342965	5572559	57	112	34315
BB82A-15	137	39 58 57.2 S	145 09 37.9 E	342937	5572544	56	112	34326
BB82A-15	138	39 58 57.6 S	145 09 36.6 E	342908	5572529	57	112	34336
BB82A-15	139	39 58 58.1 S	145 09 35.4 E	342879	5572514	57	112	34347
BB82A-15	140	39 58 58.6 S	145 09 34.2 E	342851	5572499	57	112	34358
BB82A-15	141	39 58 59.0 S	145 09 33.0 E	342822	5572484	56	112	344 8
BB82A-15	142	39 58 59.5 S	145 09 31.7 E	342793	5572469	57	112	34418
BB82A-15	143	39 59 00.0 S	145 09 30.5 E	342765	5572454	56	112	34429
BB82A-15	144	39 59 00.5 S	145 09 29.3 E	342736	5572438	56	112	34440
BB82A-15	145	39 59 00.9 S	145 09 28.1 E	342707	5572423	56	112	34450
BB82A-15	146	39 59 01.4 S	145 09 26.8 E	342678	5572408	57	112	345 0
BB82A-15	147	39 59 01.9 S	145 09 25.6 E	342649	5572392	56	112	34511
BB82A-15	148	39 59 02.4 S	145 09 24.4 E	342620	5572377	57	112	34522
BB82A-15	149	39 59 02.9 S	145 09 23.1 E	342591	5572361	56	112	34532
BB82A-15	150	39 59 03.3 S	145 09 21.8 E	342561	5572346	57	112	34542
BB82A-15	151	39 59 03.8 S	145 09 20.6 E	342531	5572330	56	112	34553
BB82A-15	152	39 59 04.3 S	145 09 19.3 E	342502	5572315	56	112	346 4
BB82A-15	153	39 59 04.8 S	145 09 18.1 E	342473	5572299	56	112	34614
BB82A-15	154	39 59 05.3 S	145 09 16.8 E	342443	5572283	56	112	34625
BB82A-15	155	39 59 05.8 S	145 09 15.5 E	342413	5572268	56	112	34635
BB82A-15	156	39 59 06.3 S	145 09 14.3 E	342383	5572252	56	112	34646
BB82A-15	157	39 59 06.8 S	145 09 13.0 E	342353	5572236	56	112	34656
BB82A-15	158	39 59 07.3 S	145 09 11.7 E	342323	5572220	56	112	347 7
BB82A-15	159	39 59 07.8 S	145 09 10.4 E	342293	5572204	56	112	34718
BB82A-15	160	39 59 08.3 S	145 09 09.2 E	342263	5572188	56	112	34729
BB82A-15	161	39 59 08.8 S	145 09 07.9 E	342234	5572172	56	112	34739
BB82A-15	162	39 59 09.3 S	145 09 06.6 E	342204	5572155	57	112	34749

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	163	39 59 09.8 S	145 09 05.4 E	342174	5572139	57	112	348 0
BB82A-15	164	39 59 10.3 S	145 09 04.1 E	342145	5572123	56	112	34811
BB82A-15	165	39 59 10.8 S	145 09 02.8 E	342115	5572106	56	112	34822
BB82A-15	166	39 59 11.3 S	145 09 01.6 E	342086	5572090	56	112	34832
BB82A-15	167	39 59 11.9 S	145 09 00.4 E	342057	5572073	57	112	34843
BB82A-15	168	39 59 12.4 S	145 08 59.1 E	342028	5572057	57	112	34853
BB82A-15	169	39 59 12.9 S	145 08 57.9 E	341999	5572041	56	112	349 4
BB82A-15	170	39 59 13.4 S	145 08 56.7 E	341970	5572024	55	112	34915
BB82A-15	171	39 59 13.9 S	145 08 55.4 E	341941	5572008	56	112	34926
BB82A-15	172	39 59 14.4 S	145 08 54.2 E	341912	5571992	57	112	34936
BB82A-15	173	39 59 14.9 S	145 08 53.0 E	341884	5571975	57	112	34947
BB82A-15	174	39 59 15.4 S	145 08 51.8 E	341855	5571959	57	112	34957
BB82A-15	175	39 59 15.9 S	145 08 50.5 E	341826	5571943	56	112	350 8
BB82A-15	176	39 59 16.4 S	145 08 49.3 E	341798	5571927	56	112	35019
BB82A-15	177	39 59 16.9 S	145 08 48.1 E	341769	5571911	56	112	35030
BB82A-15	178	39 59 17.4 S	145 08 46.9 E	341740	5571895	56	112	35040
BB82A-15	179	39 59 17.9 S	145 08 45.6 E	341711	5571879	56	112	35052
BB82A-15	180	39 59 18.4 S	145 08 44.4 E	341682	5571863	56	112	351 3
BB82A-15	181	39 59 18.9 S	145 08 43.1 E	341653	5571847	56	112	35114
BB82A-15	182	39 59 19.4 S	145 08 41.9 E	341624	5571831	56	112	35124
BB82A-15	183	39 59 19.9 S	145 08 40.7 E	341595	5571815	56	112	35135
BB82A-15	184	39 59 20.4 S	145 08 39.4 E	341566	5571799	56	112	35145
BB82A-15	185	39 59 20.9 S	145 08 38.2 E	341536	5571783	0	112	35156
BB82A-15	186	39 59 21.4 S	145 08 36.9 E	341506	5571767	0	112	352 7
BB82A-15	187	39 59 21.9 S	145 08 35.6 E	341477	5571751	0	112	35218
BB82A-15	188	39 59 22.4 S	145 08 34.4 E	341447	5571735	0	112	35229
BB82A-15	189	39 59 22.9 S	145 08 33.1 E	341418	5571718	0	112	35240
BB82A-15	190	39 59 23.4 S	145 08 31.8 E	341388	5571702	57	112	35251
BB82A-15	191	39 59 24.0 S	145 08 30.6 E	341359	5571685	56	112	353 2
BB82A-15	192	39 59 24.5 S	145 08 29.3 E	341329	5571669	56	112	35312
BB82A-15	193	39 59 25.0 S	145 08 28.1 E	341300	5571652	56	112	35322
BB82A-15	194	39 59 25.5 S	145 08 26.9 E	341271	5571635	56	112	35332
BB82A-15	195	39 59 26.1 S	145 08 25.6 E	341242	5571618	56	112	35343
BB82A-15	196	39 59 26.6 S	145 08 24.3 E	341212	5571601	56	112	35353
BB82A-15	197	39 59 27.1 S	145 08 23.1 E	341183	5571584	57	112	354 4
BB82A-15	198	39 59 27.7 S	145 08 21.9 E	341154	5571567	56	112	35414
BB82A-15	199	39 59 28.2 S	145 08 20.6 E	341125	5571550	56	112	35424
BB82A-15	200	39 59 28.7 S	145 08 19.4 E	341096	5571533	56	112	35435
BB82A-15	201	39 59 29.2 S	145 08 18.2 E	341067	5571516	56	112	35445
BB82A-15	202	39 59 29.8 S	145 08 16.9 E	341038	5571499	56	112	35456
BB82A-15	203	39 59 30.3 S	145 08 15.7 E	341010	5571482	56	112	355 6
BB82A-15	204	39 59 30.8 S	145 08 14.5 E	340981	5571465	56	112	35517
BB82A-15	205	39 59 31.4 S	145 08 13.3 E	340952	5571448	56	112	35527
BB82A-15	206	39 59 31.9 S	145 08 12.0 E	340923	5571431	56	112	35538
BB82A-15	207	39 59 32.4 S	145 08 10.8 E	340895	5571414	56	112	35548
BB82A-15	208	39 59 32.9 S	145 08 09.6 E	340866	5571398	56	112	35558
BB82A-15	209	39 59 33.5 S	145 08 08.3 E	340837	5571381	56	112	356 8
BB82A-15	210	39 59 34.0 S	145 08 07.1 E	340808	5571365	56	112	35619
BB82A-15	211	39 59 34.5 S	145 08 05.9 E	340779	5571349	56	112	35629
BB82A-15	212	39 59 35.0 S	145 08 04.6 E	340750	5571333	56	112	35640
BB82A-15	213	39 59 35.5 S	145 08 03.4 E	340721	5571317	56	112	35650
BB82A-15	214	39 59 36.0 S	145 08 02.2 E	340692	5571301	56	112	357 1
BB82A-15	215	39 59 36.5 S	145 08 00.9 E	340662	5571285	55	112	35712
BB82A-15	216	39 59 37.0 S	145 07 59.6 E	340633	5571269	56	112	35723

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	217	39 59 37.4 S	145 07 58.4 E	340603	5571254	56	112	35733
BB82A-15	218	39 59 37.9 S	145 07 57.1 E	340573	5571239	56	112	35744
BB82A-15	219	39 59 38.4 S	145 07 55.8 E	340543	5571223	56	112	35754
BB82A-15	220	39 59 38.9 S	145 07 54.5 E	340513	5571208	57	112	358 5
BB82A-15	221	39 59 39.3 S	145 07 53.3 E	340483	5571193	56	112	35815
BB82A-15	222	39 59 39.8 S	145 07 52.0 E	340453	5571179	56	112	35826
BB82A-15	223	39 59 40.2 S	145 07 50.7 E	340423	5571164	55	112	35837
BB82A-15	224	39 59 40.7 S	145 07 49.4 E	340393	5571149	55	112	35847
BB82A-15	225	39 59 41.1 S	145 07 48.1 E	340363	5571135	56	112	35858
BB82A-15	226	39 59 41.6 S	145 07 46.9 E	340333	5571120	56	112	359 8
BB82A-15	227	39 59 42.0 S	145 07 45.6 E	340303	5571106	56	112	35919
BB82A-15	228	39 59 42.5 S	145 07 44.3 E	340273	5571091	56	112	35929
BB82A-15	229	39 59 42.9 S	145 07 43.0 E	340243	5571077	56	112	35940
BB82A-15	230	39 59 43.4 S	145 07 41.8 E	340213	5571063	56	112	35951
BB82A-15	231	39 59 43.8 S	145 07 40.5 E	340183	5571048	56	112	4 0 1
BB82A-15	232	39 59 44.3 S	145 07 39.2 E	340153	5571034	56	112	4 011
BB82A-15	233	39 59 44.7 S	145 07 38.0 E	340124	5571019	56	112	4 022
BB82A-15	234	39 59 45.2 S	145 07 36.7 E	340094	5571005	55	112	4 033
BB82A-15	235	39 59 45.6 S	145 07 35.4 E	340064	5570990	55	112	4 044
BB82A-15	236	39 59 46.1 S	145 07 34.2 E	340035	5570975	56	112	4 054
BB82A-15	237	39 59 46.5 S	145 07 32.9 E	340005	5570960	56	112	4 1 5
BB82A-15	238	39 59 47.0 S	145 07 31.6 E	339975	5570945	56	112	4 116
BB82A-15	239	39 59 47.5 S	145 07 30.4 E	339946	5570930	56	112	4 127
BB82A-15	240	39 59 47.9 S	145 07 29.1 E	339916	5570915	56	112	4 137
BB82A-15	241	39 59 48.4 S	145 07 27.8 E	339886	5570900	56	112	4 148
BB82A-15	242	39 59 48.9 S	145 07 26.6 E	339856	5570884	56	112	4 158
BB82A-15	243	39 59 49.4 S	145 07 25.3 E	339826	5570868	55	112	4 2 9
BB82A-15	244	39 59 49.9 S	145 07 24.0 E	339796	5570852	55	112	4 220
BB82A-15	245	39 59 50.4 S	145 07 22.7 E	339766	5570836	56	112	4 231
BB82A-15	246	39 59 50.9 S	145 07 21.4 E	339736	5570820	56	112	4 242
BB82A-15	247	39 59 51.4 S	145 07 20.2 E	339706	5570803	56	112	4 253
BB82A-15	248	39 59 51.9 S	145 07 18.9 E	339676	5570787	56	112	4 3 4
BB82A-15	249	39 59 52.5 S	145 07 17.6 E	339645	5570770	55	112	4 315
BB82A-15	250	39 59 53.0 S	145 07 16.3 E	339615	5570753	55	112	4 326
BB82A-15	251	39 59 53.5 S	145 07 15.0 E	339585	5570736	55	112	4 337
BB82A-15	252	39 59 54.0 S	145 07 13.7 E	339555	5570720	56	112	4 347
BB82A-15	253	39 59 54.6 S	145 07 12.4 E	339524	5570703	55	112	4 358
BB82A-15	254	39 59 55.1 S	145 07 11.1 E	339494	5570686	55	112	4 4 9
BB82A-15	255	39 59 55.6 S	145 07 09.8 E	339464	5570669	56	112	4 420
BB82A-15	256	39 59 56.1 S	145 07 08.6 E	339434	5570653	56	112	4 431
BB82A-15	257	39 59 56.6 S	145 07 07.3 E	339405	5570636	56	112	4 441
BB82A-15	258	39 59 57.1 S	145 07 06.0 E	339375	5570620	56	112	4 456
BB82A-15	259	39 59 57.7 S	145 07 04.8 E	339345	5570603	56	112	4 5 6
BB82A-15	260	39 59 58.2 S	145 07 03.5 E	339316	5570587	55	112	4 516
BB82A-15	261	39 59 58.7 S	145 07 02.3 E	339287	5570571	55	112	4 526
BB82A-15	262	39 59 59.2 S	145 07 01.1 E	339258	5570555	55	112	4 537
BB82A-15	263	39 59 59.7 S	145 06 59.8 E	339229	5570539	55	112	4 547
BB82A-15	264	40 00 00.2 S	145 06 58.6 E	339200	5570523	55	112	4 558
BB82A-15	265	40 00 00.6 S	145 06 57.3 E	339171	5570508	55	112	4 6 8
BB82A-15	266	40 00 01.1 S	145 06 56.2 E	339143	5570492	55	112	4 618
BB82A-15	267	40 00 01.6 S	145 06 54.9 E	339114	5570477	56	112	4 629
BB82A-15	268	40 00 02.1 S	145 06 53.7 E	339086	5570461	56	112	4 639
BB82A-15	269	40 00 02.6 S	145 06 52.5 E	339058	5570446	55	112	4 650
BB82A-15	270	40 00 03.1 S	145 06 51.3 E	339030	5570430	55	112	4 7 1

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	271	40 00 03.5 S	145 06 50.1 E	339001	5570415	55	112	4 712
BB82A-15	272	40 00 04.0 S	145 06 48.9 E	338973	5570399	55	112	4 722
BB82A-15	273	40 00 04.5 S	145 06 47.7 E	338945	5570383	54	112	4 732
BB82A-15	274	40 00 05.0 S	145 06 46.5 E	338916	5570368	54	112	4 742
BB82A-15	275	40 00 05.5 S	145 06 45.3 E	338888	5570352	55	112	4 753
BB82A-15	276	40 00 06.0 S	145 06 44.0 E	338859	5570336	55	112	4 8 4
BB82A-15	277	40 00 06.5 S	145 06 42.8 E	338830	5570320	56	112	4 815
BB82A-15	278	40 00 07.0 S	145 06 41.6 E	338801	5570304	55	112	4 825
BB82A-15	279	40 00 07.5 S	145 06 40.3 E	338772	5570288	55	112	4 836
BB82A-15	280	40 00 08.0 S	145 06 39.1 E	338743	5570271	55	112	4 847
BB82A-15	281	40 00 08.5 S	145 06 37.9 E	338714	5570255	54	112	4 858
BB82A-15	282	40 00 09.0 S	145 06 36.6 E	338684	5570239	55	112	4 9 8
BB82A-15	283	40 00 09.5 S	145 06 35.3 E	338655	5570223	55	112	4 919
BB82A-15	284	40 00 10.0 S	145 06 34.1 E	338625	5570206	55	112	4 930
BB82A-15	285	40 00 10.5 S	145 06 32.8 E	338595	5570190	56	112	4 940
BB82A-15	286	40 00 11.0 S	145 06 31.5 E	338565	5570174	55	112	4 950
BB82A-15	287	40 00 11.5 S	145 06 30.2 E	338534	5570158	55	112	410 1
BB82A-15	288	40 00 12.0 S	145 06 28.9 E	338504	5570142	55	112	41012
BB82A-15	289	40 00 12.5 S	145 06 27.6 E	338474	5570126	55	112	41023
BB82A-15	290	40 00 13.0 S	145 06 26.4 E	338444	5570111	55	112	41034
BB82A-15	291	40 00 13.5 S	145 06 25.1 E	338414	5570095	55	112	41045
BB82A-15	292	40 00 14.0 S	145 06 23.8 E	338384	5570080	55	112	41055
BB82A-15	293	40 00 14.4 S	145 06 22.5 E	338354	5570065	55	112	411 6
BB82A-15	294	40 00 14.9 S	145 06 21.2 E	338324	5570050	55	112	41117
BB82A-15	295	40 00 15.4 S	145 06 20.0 E	338295	5570035	55	112	41127
BB82A-15	296	40 00 15.8 S	145 06 18.7 E	338265	5570020	55	112	41138
BB82A-15	297	40 00 16.3 S	145 06 17.5 E	338236	5570005	55	112	41149
BB82A-15	298	40 00 16.8 S	145 06 16.3 E	338207	5569990	55	112	412 0
BB82A-15	299	40 00 17.2 S	145 06 15.0 E	338178	5569976	55	112	41211
BB82A-15	300	40 00 17.7 S	145 06 13.8 E	338149	5569961	54	112	41221
BB82A-15	301	40 00 18.1 S	145 06 12.5 E	338120	5569946	55	112	41232
BB82A-15	302	40 00 18.6 S	145 06 11.3 E	338091	5569931	54	112	41243
BB82A-15	303	40 00 19.1 S	145 06 10.1 E	338062	5569916	55	112	41253
BB82A-15	304	40 00 19.5 S	145 06 08.9 E	338034	5569901	55	112	413 4
BB82A-15	305	40 00 20.0 S	145 06 07.6 E	338005	5569886	55	112	41315
BB82A-15	306	40 00 20.5 S	145 06 06.4 E	337976	5569871	55	112	41326
BB82A-15	307	40 00 20.9 S	145 06 05.2 E	337948	5569856	55	112	41336
BB82A-15	308	40 00 21.4 S	145 06 04.0 E	337919	5569840	55	112	41347
BB82A-15	309	40 00 21.9 S	145 06 02.7 E	337890	5569825	55	112	41357
BB82A-15	310	40 00 22.4 S	145 06 01.5 E	337861	5569809	55	112	414 8
BB82A-15	311	40 00 22.9 S	145 06 00.3 E	337832	5569794	54	112	41419
BB82A-15	312	40 00 23.4 S	145 05 59.0 E	337803	5569778	0	112	41430
BB82A-15	313	40 00 23.9 S	145 05 57.8 E	337774	5569762	0	112	41441
BB82A-15	314	40 00 24.4 S	145 05 56.6 E	337745	5569746	0	112	41452
BB82A-15	315	40 00 24.9 S	145 05 55.3 E	337716	5569730	0	112	415 3
BB82A-15	316	40 00 25.4 S	145 05 54.1 E	337687	5569713	0	112	41513
BB82A-15	317	40 00 25.9 S	145 05 52.8 E	337658	5569697	0	112	41524
BB82A-15	318	40 00 26.4 S	145 05 51.6 E	337628	5569680	0	112	41535
BB82A-15	319	40 00 26.9 S	145 05 50.3 E	337599	5569664	55	112	41546
BB82A-15	320	40 00 27.4 S	145 05 49.0 E	337569	5569647	55	112	41556
BB82A-15	321	40 00 28.0 S	145 05 47.8 E	337540	5569630	55	112	416 7
BB82A-15	322	40 00 28.5 S	145 05 46.6 E	337511	5569613	55	112	41618
BB82A-15	323	40 00 29.0 S	145 05 45.3 E	337481	5569596	54	112	41630
BB82A-15	324	40 00 29.6 S	145 05 44.1 E	337452	5569579	54	112	41641

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LINE NAME	SHOTPOINT	LATITUDE	LONGITUDE	EASTING	NORTHING	DEPTH	DAY	TIME
BB82A-15	325	40 00 30.1 S	145 05 42.8 E	337423	5569562	54	112	41652
BB82A-15	326	40 00 30.6 S	145 05 41.5 E	337393	5569545	55	112	417 3
BB82A-15	327	40 00 31.2 S	145 05 40.3 E	337364	5569528	56	112	41713
BB82A-15	328	40 00 31.7 S	145 05 39.1 E	337335	5569510	55	112	41724
BB82A-15	329	40 00 32.2 S	145 05 37.8 E	337306	5569493	55	112	41735
BB82A-15	330	40 00 32.8 S	145 05 36.6 E	337277	5569476	55	112	41747
BB82A-15	331	40 00 33.3 S	145 05 35.4 E	337249	5569459	54	112	41758
BB82A-15	332	40 00 33.9 S	145 05 34.2 E	337220	5569441	54	112	418 9
BB82A-15	333	40 00 34.4 S	145 05 32.9 E	337191	5569424	55	112	41819
BB82A-15	334	40 00 34.9 S	145 05 31.7 E	337163	5569407	55	112	41830
BB82A-15	335	40 00 35.5 S	145 05 30.5 E	337134	5569389	54	112	41840
BB82A-15	336	40 00 36.0 S	145 05 29.3 E	337106	5569372	55	112	41851
BB82A-15	337	40 00 36.6 S	145 05 28.0 E	337077	5569355	54	112	419 2
BB82A-15	338	40 00 37.1 S	145 05 26.8 E	337049	5569338	55	112	41913
BB82A-15	339	40 00 37.6 S	145 05 25.6 E	337020	5569321	56	112	41923
BB82A-15	340	40 00 38.2 S	145 05 24.4 E	336992	5569304	54	112	41935
BB82A-15	341	40 00 38.7 S	145 05 23.2 E	336963	5569287	54	112	41945
BB82A-15	342	40 00 39.2 S	145 05 22.0 E	336935	5569271	54	112	41956
BB82A-15	343	40 00 39.7 S	145 05 20.7 E	336906	5569255	55	112	420 6
BB82A-15	344	40 00 40.2 S	145 05 19.5 E	336877	5569239	55	112	42017
BB82A-15	345	40 00 40.7 S	145 05 18.3 E	336848	5569223	54	112	42027
BB82A-15	346	40 00 41.1 S	145 05 17.0 E	336819	5569208	54	112	42038
BB82A-15	347	40 00 41.6 S	145 05 15.8 E	336789	5569193	54	112	42049
BB82A-15	348	40 00 42.0 S	145 05 14.5 E	336759	5569179	54	112	42059
BB82A-15	349	40 00 42.5 S	145 05 13.2 E	336730	5569164	55	112	42110
BB82A-15	350	40 00 42.9 S	145 05 12.0 E	336701	5569150	55	112	42121
BB82A-15	351	40 00 43.4 S	145 05 10.7 E	336671	5569135	55	112	42132
BB82A-15	352	40 00 43.8 S	145 05 09.5 E	336641	5569122	54	112	42143
BB82A-15	353	40 00 44.3 S	145 05 08.2 E	336611	5569107	54	112	42154
BB82A-15	354	40 00 44.7 S	145 05 06.9 E	336581	5569094	54	112	422 4
BB82A-15	355	40 00 45.1 S	145 05 05.6 E	336550	5569080	54	112	42216
BB82A-15	356	40 00 45.5 S	145 05 04.3 E	336520	5569067	54	112	42226
BB82A-15	357	40 00 45.9 S	145 05 03.0 E	336490	5569054	54	112	42238
BB82A-15	358	40 00 46.3 S	145 05 01.7 E	336459	5569040	53	112	42249
BB82A-15	359	40 00 46.7 S	145 05 00.4 E	336429	5569027	54	112	42259
BB82A-15	360	40 00 47.1 S	145 04 59.2 E	336399	5569014	55	112	42310
BB82A-15	361	40 00 47.5 S	145 04 57.8 E	336368	5569001	54	112	42321
BB82A-15	362	40 00 48.0 S	145 04 56.6 E	336338	5568987	54	112	42332
BB82A-15	363	40 00 48.4 S	145 04 55.3 E	336308	5568973	54	112	42343
BB82A-15	364	40 00 48.8 S	145 04 54.0 E	336278	5568959	55	112	42353
BB82A-15	365	40 00 49.3 S	145 04 52.7 E	336248	5568945	55	112	424 4
BB82A-15	366	40 00 49.7 S	145 04 51.4 E	336218	5568932	54	112	42414