

IT TOOLS CADASTRAL PROCESSING SYSTEM

Landsoft Sdn Bhd

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ITOOOLS INTRODUCTION

- iTooLS can be considered as Data Conversion Tools, which is convert the Hardcopy FieldBook in to Digital Form.
 - Data Key in for Field Data (measured Line), PO Lines
 - With graphic
- iTooLS also used to process the Field Data,
 - Definition of Coordinate, Traverse, Lot, Missing Line
 - Computation of Traverse/Lot Misclose, Missing Line, PO & New Comparison, Datum & Refixation.
- iTooLS will be able to generate the ASCII files as per Jupem required format.



WHY USING ITOOLS

- iToolS can convert all the RAW data in conventional method to digital form
- User Friendly, easy understanding and faster to key in as our data entry form design is similar to the conventional Field Book.
- Linked Graphic display
- All the computation will be done by iToolS, no more manual calculation
- Easier checking with reports.



REQUIREMENT

- Compatibility with Window 7 or above
- 32/64 bit OS
- Installation on Desktop PC or Note Book
- Microsoft Office (optional for reporting)
- PDF Reader (optional for reporting)



ITOOOLS FEATURES

1. Job Information Entry
2. Data Entry
 - Sun Observation (If any)
 - Field data
 - DFT
 - Datum
 - Traverse / Online Point / Offset Details
 - Check Angle & Distance
 - Bearing Close
 - Close Statement
 - PO Line
 - Precomp Area (if do not have PU ASCII Return from J2u)
3. Data Editing



4. C or M Correction

5. Definition

- Coordinate
- Traverse
- Lot
- Direct Line (Missing Line)
- Connection Line (If any)

6. Computation

- Traverse
- Direct Line
- Lot
- Coordinate
- Area Comparison



7. Baseline & Refixation

- PO & New Comparison
- PO Adjustment & Refixation

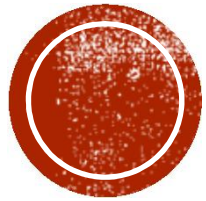
8. Bookkeeping

- Date Time of Observation Record
- Sequence of Observation Record

9. Import & Export

- Import PU ASCII (Precomp ASCII) for Area Comparison
- Export 16 ASCII file (Compliant with DIGITAL ASCII files by Jupem)
- Export DXF File (Sketch)





IT TOOLS OVERVIEW



- [MainFrame]

File FieldBook Correction Computation Record Tools Graphic Layer Report Window Help

Menu Bar

Icon Bar

	PENYILANG	PENYILANG	PURATA	DARI	BERING	KE	SUDUT	JARAK	JARAK
	KIRI	KANAN			MUKTAMAD		ZENITH	JARAK	MUKTAMAD
				BKL		pK			
								<input type="checkbox"/> Refer Trav	
								<input type="checkbox"/> efix/PickU	

Field Capture

DFT Semakan Harian Datum Traverse Prod Line Prod Line SP Online Deduced Ln Brg Cls

Cls Statement Chk Ang/Dist Check Angle Check Dist. Offset TT Mark Mean Line Party Wall

Graphic Area

Ready

PUBLT7964_2007.ebk N 21.66 E 62.36 (m) SCI



JOB INFORMATION

This information will be generated in file *.FAH

JOB INFORMATION

Page 1 Page 2 Date Remarks

Negeri : TERENGGANU 11
Daerah : KUALA TERENGGANU 04
Bdr/Mukim : (M)BELARA
Seksyen : 000
No. Buku : 1

Save Clear
Import from SKL *.job

OK Cancel

JOB INFORMATION

Page 1 Page 2 Date Remarks

No Fail Ukur : PUBLT 7964_2007
No Lot : 1
Jenis Kerja Ukur : PECAHAN BAHAGIAN 5
Diukur Oleh : ADAM ROSLI
Kad Pengenalan : 861224035211
Kelas Ukur : CLASS 1
Unit Ukuran : Meter
Alatan Ukur : TOPCON ES_SERIES
TotalStn S/N : 123456
GPSInst S/N :
GPSAnt S/N :

Measurement Mode
 Online Offline

Save Clear

OK Cancel Apply

JOB INFORMATION

Page 1 Page 2 Date Remarks

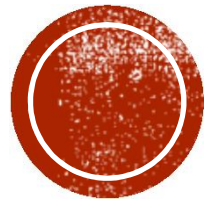
Survey Date

Start Date : 16/06/2007
End Date : 16/06/2007

Save

OK Cancel Apply





DATA ENTRY & PROCESSING



SUN OBSERVATION RECORD IN FIELD BOOK (CONVENTIONAL METHOD)

11 CERAPAN MATAHARI BAGI AZIMUT

Penilik _____ Hari SABTU Tarikh 16 Bulan 6 Tahun 2007

Stesen 2 (Pht) T.R. 1 (Bku) B.K. Ms. 1 Tiodolait (Jenis) _____ I Bah. Aras Ufuk -a

Formula $\cos \text{AZIMUT} = \frac{\cos P - \sin \delta \sin \text{OC}}{\cos \delta \cos \text{OC}}$ Pembetulan Aras $= \frac{1}{2} (\text{AR} - \text{AR}') \tan \text{OC}$

Waktu	Ufuk			Galem-tiang		Pugat			Tilman ①	Bila waktu jam tangan tidak dalam lingkungan 3 menit daripada waktu pawal Hitung waktu umum:	W.U. = 12' + W.T.K. - G. Bujur - E		
J m	P.Ki	T.R.	314	20	10	Ki	Ka						12'
8.30		⊕	67	15	22		69	05	59				
+31		⊕	66	40	06		68	52	50				
-32	P.Ka	⊕	246	40	36		291	24	09				
-33		⊕	247	19	24		291	39	09				
Purata ①		T.R.	134	20	10								
J m													
8.32							21	16	07	Purata Tengah			
8.00	Purata Ke matahari		66	58	52		-	02	07	Biasan & Bedakhat			
+32	Purata Ke TR		314	20	10		21	14	00	Tinjau Dataras			
J m	P.Ki	T.R.	314	20	10								
8.35		⊕	67	20	26		67	51	40				
.36		⊕	66	24	36		67	37	40				
.37	P.Ka	⊕	246	25	06		292	41	10				
.38		⊕	247	24	29		292	54	20				
Purata ②		T.R.	134	20	10								
J m													
8.37							22	31	32	Purata Tengah			
8.00	Purata Ke matahari		66	53	39		-	02	00	Biasan & Bedakhat			
+37	Purata Ke TR		314	20	10		22	29	32	Tinjau Dataras			
Kordinat Origin U/S	m			Kordinat Origin T/B			m			Purata Bg. Gerid T.R.			
Stesen U/S	37177.340			Stesen T/B			16155.950						
Jumlah/Sel. U/S	37177.340			Jumlah/Sel. T/B			16155.950			Dibik oleh			
Jumlah/Sel. x 0.03256 ±	0	20	10	Sel. G. Bujur = $\frac{\text{Jum}}{\text{Sel}}$ x 0.03246 ±			524			Dihitung oleh			
G. Lintang Origin U	4	56	46	Sel. G. Bujur x Sain G. Lintang =			48"			Tarikh			
G. Lintang Stesen U	5	16	56	T (-) / (B - T) Tinusan =			48"						
P.Ki - Penyilang Kiri				T.R. - Tanda Rujuk						W.U. - Waktu Umum			
P.Ka - Penyilang Kanan				Sel. - Selsih						W.T.K. - Waktu Tempatan Kotara			



SUN OBSERVATION ENTRY IN ITTOOLS

Info Observation Compute Origin Deleted Sun Obs

Penilik : ADAM ROSLI

Negeri : TRENGGANU

Stesen : 2

T.R : 1

Coord Input : Old Cass

Buku : 1

Stn U/S : 37177.340

Stn T/B : 16155.950

Info Observation Compute Origin Deleted Sun Obs

Set 1 Mengufuk

Waktu i m	TR	314.2010	Gelm Ki Ka	Pugak " "
8.30	ki	67.1522	0 0	69.0559
8.31	ki	66.4006	0 0	68.5250
8.32	ka	246.4036	0 0	291.2409
8.33	ka	247.1924	0 0	291.3909
Purata i m	TR2	134.2010	PAltitud (H)	21.1607
8.3200	Purata Ufuk	66.5852	Biasan & Bezalihah	0.0207
	Purata TR	314.2010	Tikaian Laras	21.1400

DELETED Previous Next Save

OK Cancel Apply

Info Observation Compute Origin Deleted Sun Obs

Set 2 Mengufuk

Waktu i m	TR	314.2010	Gelm Ki Ka	Pugak " "
8.35	ki	67.2026	0 0	67.5140
8.36	ki	66.243		
8.37	ka	246.250		
8.38	ka	247.242		
Purata i m	TR2	134.201		
8.3700	Purata Ufuk	66.533		
	Purata TR	314.201		

DELETED Previous

OK

Info Observation Compute Origin Deleted Sun Obs

Set 1

Dek.w tilik : 23.1939 Purata TR : 314.2010

Garis Lint. : 5.1657 TR : 314.2122

Stesen U : sebenar

Tikaian Laras : 21.1400 Aras +/- : 0.0000

Az Mthr dikira : 67.0004 Tirusan : -0.0048

Purata Ufuk : 66.5852 Bg.Grid TR : 314.2033

Sel=Az-Tilik : 0.0112

Purata Bg. Genid : 314.2030

Next Previous

OK Cancel Apply

FIELD DATA BOOKING IN CONVENTIONAL FIELD BOOK

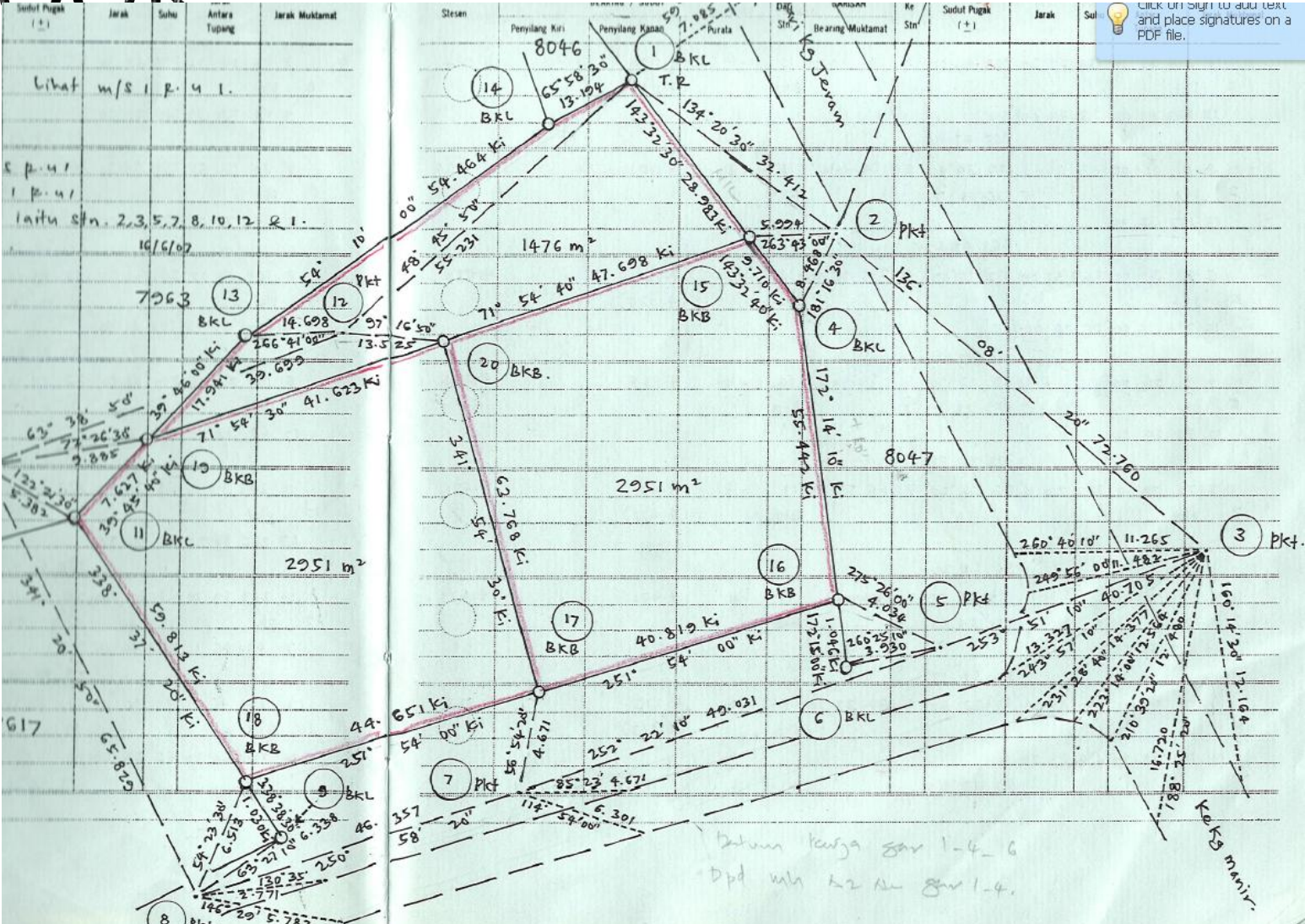
1

No. Fail _____ Rajah di muka _____

Stesen	BEARING / SUDUT			Dari Stn.	GARISAN Bearing Mutamat	Ke Stn.	Sudut Pukak (±)	Jarak	Suhu 16/6/2007	Jarak Antara Tumpang	Jarak Mutamat
	Penyalang Kiri	Penyalang Kanan	Purata								
Datum Daripada Matyhavi			314 20 30	2	314 20 30	1	90 07 10	32.412			32.412
				Pkt		BKL	269 52 45 (32.412)				
1	314 20 30	134 20 30	136 08 20	2	136 08 20	3	- H -	72.760			72.760
2	Pkt		C - 03			Pkt	(72.760)				
3	136 08 20	316 08 20									
			136 08 17								
1	314 20 30	134 20 30	181 16 30	2	181 16 30	4	- H -	8.468			8.468
2	Pkt					BKL	(8.468)				
4	181 16 30	1 16 30									
			181 16 30								
2	316 08 20	136 08 20	253 51 15	3	253 51 10	5	- H -	40.705			40.705
3	Pkt		C - 06			Pkt	(40.705)				
5	253 51 15	73 51 15									
			253 51 09								
3	73 51 15	253 51 15	260 25 15	5	260 25 10	6	- H -	3.930			3.930
5	Pkt		M - 06			BKL	(3.930)				
6	260 25 10	80 25 20									
			260 25 09								
3	72 51 15	253 51 15	252 22 20	5	252 22 10	7	- H -	49.031			49.031
5	Pkt		C - 05			Pkt	(49.031)				
7	252 22 20	72 22 20									
			252 22 11								
5	72 22 20	252 22 20	250 58 35	7	250 58 20	8	- H -	46.357			46.357
7	Pkt		C - 13			Pkt	(46.357)				
8	250 58 35	70 58 35									
			250 58 22								



TRAVERSE OR LOT SKETCH IN CONVENTIONAL FIELD BOOK



FIELD DATA ENTRY, FIELD BOOK & SKETCH IN ITOOLS

Field Book & Sketch will be auto generated

The screenshot displays the ITOOLS software interface, which is used for field data entry, field book generation, and sketching. The interface is divided into several windows:

- MainFrame:** The main window showing a data entry table with columns for 'PENYILANG', 'PENYILANG', and 'PURATA'. The table contains data for two points (2 and 5) with their respective coordinates and averages.
- Field Book:** A window showing the generated field book, which includes a table of field data and a sketch of the field.
- Field Sketch:** A window showing a sketch of the field, with points labeled 1 through 20, connected by lines to form a polygon.

The **Field Book** window displays the following data:

Line	Description	Point	Angle	Distance	Area
Differential Field Test					
		A	B	H	32.412 (32.412)

				H	16-06-2007
C	pkt atas garisan A-B	C	A	H	15.312 (15.312)

	Lihat ruangan atas	C	B	H	17.100 (17.100)
		C	A		15.312
		A	B		32.412 Jum

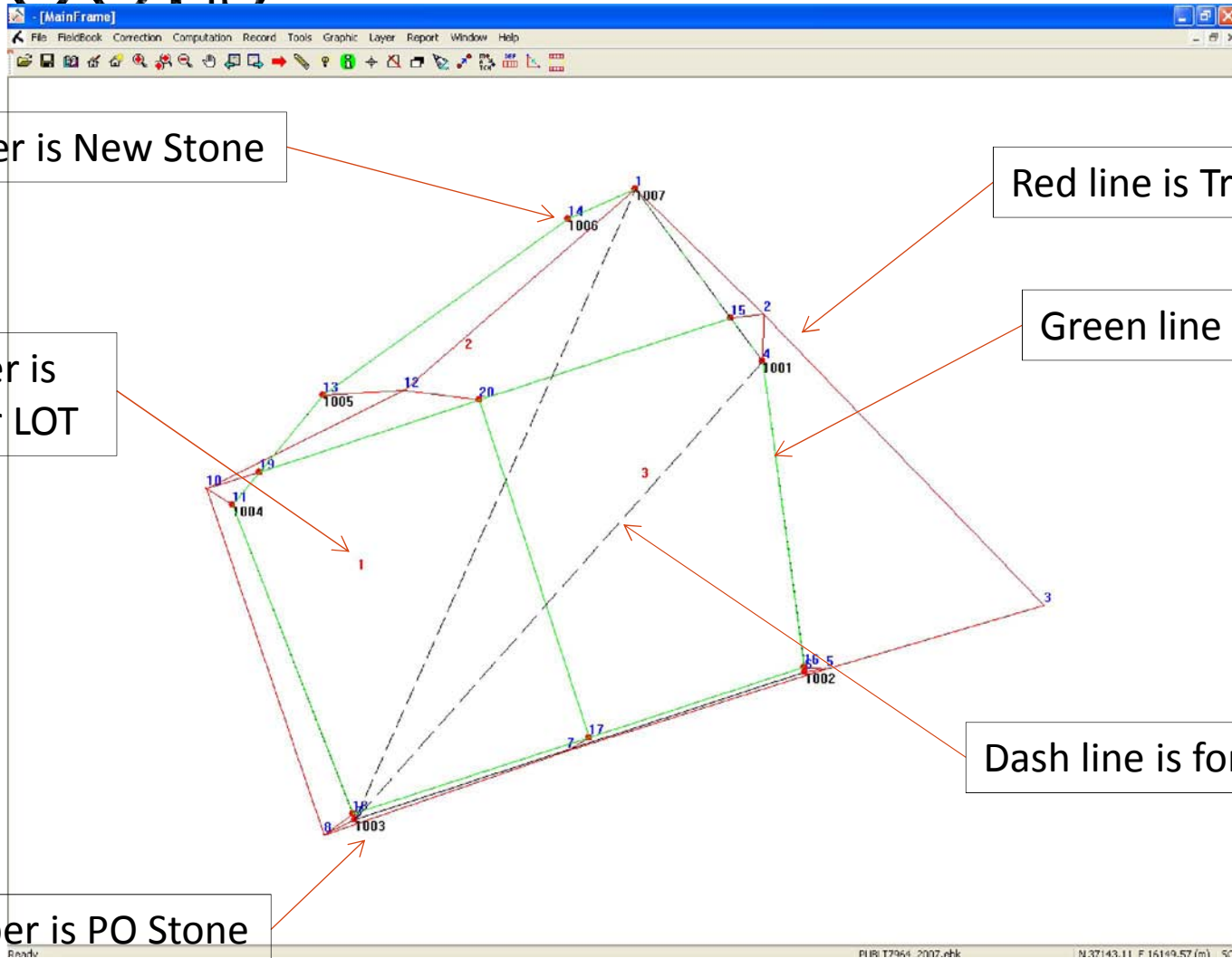
Datum Dari Matahari					
	314°20'30	2	314°20'30	1	88°13'50 32.427 (32.412)
		Pkt		BKL	271°46'10 (32.427)
	314°20'30				

				H	16-06-2007
1	314°20'30	134°20'30	136°08'20	2	136°08'20
2	Pkt		C1- 0°00'03	3	88°25'02 72.788 (72.788)
3	136°08'24	316°08'16	136°08'17		

1	314°20'30	134°20'30	181°16'30	2	181°16'30
2	Pkt			4	BKL
4	181°16'31	1°16'28	181°16'30		90°23'15 8.468 (8.468)

2	316°08'20	136°08'20	253°51'16	3	253°51'10
3	Pkt		C1- 0°00'06	5	88°57'09 40.712 (40.712)
5	253°51'19	73°51'11	253°51'09		271°02'51

SKETCH DIGITAL ASCII IN ITOOLS



Blue Number is New Stone

Red line is Traverse

Red Number is for Number LOT

Green line is LOT

Dash line is for Refixation

Black Number is PO Stone



DEFINITION & COMPUTATION

1. Coordinate
 - Min with 3 fix coordinate from NDCDB Coordinate (need to check in J2U website)
2. Traverse
 - To Compute Traverse Misclosure by definition (Loop Close / Open Traverse)
 - To Compute Accuracy for Fix point to Fix point
 - To bring over the Coordinate
3. Lot
 - To define Lot Boundaries
 - To Compute Lot Misclosure & Area
4. Direct Line (Missing Line)
 - Can Auto search after Lot Definition
5. Connection Line (if Any)
6. Area Comparison (Precomp vs Surveyed) – after import PU ASCII (Precomp ASCII)



Fixed Coordinates

Station: 1 Marker: BKL Stone: X (T/B): 16132.060 Y (U/S): 37200.519

NEW Fixed Search Save

Stn	Marker	Stone No.	X (T/B)	Y (U/S)	AdjX (T/B)	AdjY (U/S)	Diff (T/B)	Diff (U/S)
1	BKL		16132.060	37200.519				
2	Pkt		0.000	0.000				
3	Pkt		0.000	0.000				
4	BKL		16155.054	37200.519				
5	Pkt		0.000	0.000				
6	BKL		0.000	0.000				
7	Pkt		0.000	0.000				
8	Pkt		0.000	0.000				
9	BKL		16081.673	37200.519				
10	Pkt		0.000	0.000				
1001	BKL		16155.054	37200.519				
1002	BKL		0.000	0.000				
1003	BKL		16081.673	37200.519				
1004	BKL		0.000	0.000				
1005	BKL		0.000	0.000				

View GPS Multi Change Reset All

Define Trav Route

Trav ID: 5 Stn: Enter

Define Lot

Lot No: 1 Island Lot

Stn:

Direct Line Definition

Auto Search: From Stn: 11 To Stn: 19

Manual Define: Route: 1A Stn: Done Clear

11,10,19

Next Search

- List
- 1 : 1,2,3,5,7,9
 - 2 : 1,2,3,5,6
 - 3 : 6,5,7,8,9
 - 4 : 9,8,10,12,

- List
- 1 : 11,19,20,17,18,11
 - 2 : 19,13,14,1,15,20
 - 3 : 20,15,4,16,17,20

- List
- 1A : 11,10,19
 - 2A : 19,10,12,20
 - 3A : 20,12,10,8,7,17
 - 4A : 17,7,8,18
 - 5A : 18,8,10,11
 - 6A : 19,10,12,13
 - 7A : 13,12,1,14
 - 8A : 1,2,15
 - 9A : 15,2,1,12,20
- Auto Del Del All Exit

COMPUTATI

Computation

Traverse Lot
 Direct Ln Conn Line
 Mean Line SKL Lot
 Coord. SKL Area

Computation

Traverse Lot
 Direct Ln Conn Line
 Mean Line SKL Lot
 Coord. SKL Area

Computation

Traverse Lot All

```

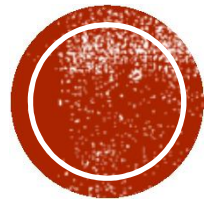
TRaverse MISCLOSE
T 1 : 1,2,3,5,7,8,10,12,1
Latit : 0.000 Depat : -0.002
Tikaian Lurus: 1:264365 Jumlah Jarak: 402.024m - PASSED
T 2 : 1,2,3,5,6
Latit : 0.000 Depat : 0.000
Tikaian Lurus: 1:0 Jumlah Jarak: 149.807m - Tiada Tikaian
T 3 : 6,5,7,8,9
Latit : -0.010 Depat : 0.003
Tikaian Lurus: 1:9888 Jumlah Jarak: 105.656m - PASSED
T 4 : 9,8,10,12,1
Latit : 0.010 Depat : -0.004
Tikaian Lurus: 1:14975 Jumlah Jarak: 167.097m - PASSED

DIRECT LINE
1A : 11,10,19

LM=L. Misc TD=Total Dist L=Lat
13 BKL 16
14 BKL 16
15 BKB 16149.284 37177.207 COMPUTED
16 BKB 16162.544 37114.463 COMPUTED
  
```

LM=L. Misc TD=Total Dist L=Lat





BASELINE & REFIXATION



PO LINE ENTRY & MATCH PO & NEW

AtStn	ToStn	Bearing	Distance	Plan No.	ApDate	Unit	Class	Type	Dup	UPI	Total:
1001	1002	172.1400	56.490	059004	19871228	M	2	4	1	110405000796	7
1002	1003	251.5430	85.220	059004	19871228	M	2	4			
1003	1004	338.3700	60.830	059004	19871228	M	2	4			
1004	1005	39.4530	25.560	059004	19871228	M	2	4			
1005	1006	54.0930	54.450	059004	19871228	M	2	4			
1006	1007	65.5800	13.190	059004	19871228	M	2	4			
1007	1001	143.3230	38.690	059004	19871228	M	2	4			

Bearing	Distance	Plan No.	ApDate	Unit	Class	Type	UPI
172.1400	56.490	059004	19871228	M	2	4	1104...

Set Current

Del. Record

PO Brg/Dist

AtStn: 1001

ToStn: 1002

Change StnID

Brg: 172.1400

Dist: 56.490

Add New

Boundary Line

Connection Line

Modify

Additional Information

App Date: 28-Dec-87

Plan No.: 059004

Class: 2

UPI

Negeri: TERENGGANU

Seksyen: 000

Daerah: KUALA TERENGGANU

Lot: 7964

Mukim: (M)BELARA

UPI No.: 1104050007964

Match PO and New Stn

PO Stn

New Stn

SKL Stn

1001
1002
1003
1004
1005
1006
1007

19
2
20
3
4
5
6
7
8
9

PO and New

1001

-- 4

Match

PO and SKL

1001

--

Match

Existing Matches:

1001 - 4
1002 - 6
1003 - 9
1004 - 11
1005 - 13

Delete

OK

Cancel



PO & NEW COMPARISON, PO ADJUSTMENT AND REFIXATION

The screenshot displays a surveying software interface with several key components:

- Field Sketch:** A diagram on the left showing a polygon with vertices labeled 1 through 12. Lines are color-coded (red, blue, black) and numbered (10, 12, 7, 65, 8, 9, 1004, 1005, 1006, 1007, 1001, 1002, 1003).
- Base Refixation Dialog:**
 - New Lines:** AtStn 9, ToStn 1. List: 9,8,10,12,1.
 - PO Lines:** AtStn 1003, ToStn 1007. List: 1003,1004,1005,1006,1007.
 - Table:**

	Bearing	Distance	re-compute
New	203.5530	124.242	re-compute
PO	203.5500	124.211	Clear
 - DB:** 0.0030, **DD:** 0.031, **DC:** 0.005 /20m, **DP:** 0.036
 - Log PO / New:** Radio buttons for Good, Accept, Out.
 - Status Log:**
 - 1-4 Good -0.0000, 0.002m, TD= 38.692 C= 0.001/20m, D= 0.002m, [New Rc
 - 4-9 Good -0.0010, 0.011m, TD= 110.371 C= 0.002/20m, D= 0.012m, [New F
 - 9-1 Good -0.0000, 0.013m, TD= 124.242 C= 0.002/20m, D= 0.013m, [New F
 - Base:**
 - 1 - 4 (1007 - 1001) | -0.0000, 0.002m, 0.001/20m, D= 0.002m
 - 4 - 9 (1001 - 1003) | -0.0010, 0.011m, 0.002/20m, D= 0.012m
 - 9 - 1 (1003 - 1007) | 0.0030, 0.031m, 0.005/20m, D= 0.036m
- Brg & Dist New Lines Table:**

From	To	
9	8	243.2720
8	10	341.2050
10	12	63.3850
12	1	48.4550
- Brg & Dist PO Lines Table:**

From	To	
1003	1004	338.3700
1004	1005	39.4530
1005	1006	54.0930
1006	1007	65.5800
- Setting Out Dialog:**
 - At:** 10, **To:** 1004. Search results: 10,8,9,1004.
 - Use Adjusted PO:** re-compute
 - Back Stn:** Find Bck Bg
 - Back Brg:** 243.3851, Set Brg
 - Table:**

	Bearing	Distance
Computed	122.2010	5.383
Reading		
Difference		
 - Status:**
 - (10-1004) 122.2010, 5.383m [Route: 10,8,9,1004]
 - (1-1006) 245.5830, 13.193m [Route: 1,1006]
 - (12-1005) 236.2740, 67.432m [Route: 1,1006,1005]



BOOK KEEPING



BOOKKEEPING

Edit FieldBook...

Line	Brg	Dist	Type	Time	Date	Status	Seq
2-1	314°20'30	32.412	DATUM	08:56:05	16/06/2007		1
2-3	136°08'17	72.760	TRAV	09:11:01	16/06/2007		2
2-4	181°16'30	8.468	TRAV	09:20:38	16/06/2007		3
3-5	253°51'09	40.705	TRAV	09:35:09	16/06/2007		4
5-6	260°25'04	3.930	TRAV	09:45:44	16/06/2007		5
5-7	252°22'11	49.031	TRAV	09:55:42	16/06/2007		6
7-8	250°58'22	46.357	TRAV	10:05:37	16/06/2007		7
8-9	63°27'17	6.338	TRAV	10:15:33	16/06/2007		8
8-10	341°20'49	65.829	TRAV	10:27:10	16/06/2007		9

16-Jun-07 9:11:01 AM

Random All Time
Adv Random Time
Random Time

UP Save
DOWN Delete Delete All
GO
Find

13

Cal FR View FB Locate

		PENYILANG KIRI	PENYILANG KANAN	PURATA	DARI	BERING MUKTAMAD	KE	SUDUT ZENITH	JARAK	JARAK MUKTAMAD
	1	314.2030	134.2030	136.0820	2	136.0820	3	88.2502	72.788	72.760
2	Pkt			C-0.0003	Pkt		Pkt	271.3458	72.788	
	3	136.0824	316.0816							
				136.0817						

Refer Trav
 efix/PickU

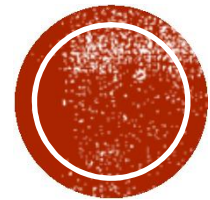
DFT Semakan Harian Datum Traverse Prod Line Prod Line SP Online Deduced Ln Brg Cls

Cls Statement Chk Ang/Dist Check Angle Check Dist. Offset TT Mark Mean Line Party Wall

muka surat: 5

Stesen	Penyilang Kiri	Penyilang Kanan	Purata	Dari	Bering Muktamad	Ke	Sudut Zenith	Jarak	Jarak Muktamad
10	12	0°01'00	8°47'39	10	(Semak)	19	91°32'35	9.889	9.885
			63°38'51				(9.889)		
	19	8°48'39	72°26'30						





EXPORT / OUTPUT / REPORTING



REPORT: FIELD BOOK & SUN OBSERVATION

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No Fail: PUBLT7964_2007 Muka Surat : 2

Stesen	Penyilang Kiri	Penyilang Kanan	Purata	Dari	Bering Muktamad	Ke	Sudut Pujuk	Jar
	Differential Field Test			A		B	H	32.4
								(32.4
C	pkt atas garisan A-B			C		A	H	15.4
								(15.4
	Lihat ruangan atas			C		B	H	17.4
				C		A		(17.4
				A		B		
Datum Dari Matahari			314°20'30	2 Pkt	314°20'30	1 BKL	88°13'50	32.4
			314°20'30				271°46'10	(32.4
1 Pkt	314°20'30	134°20'30	136°08'20	2	136°08'20	3	88°25'02	72.4
2 Pkt	136°08'24	316°08'16	C1- 0°00'08				271°34'58	(72.4
			136°08'17					
1 Pkt	314°20'30	134°20'30	181°16'30	2	181°16'30	4	90°23'15	8.4
2 Pkt	181°16'21	1°16'28				BKL	269°37'01	(8.4
			181°16'30					
2 Pkt	316°08'20	136°08'20	253°51'15	3	253°51'10	5	88°57'09	40.4
3 Pkt	253°51'19	73°51'11	C1- 0°00'06				271°02'51	(40.4
			253°51'09					

Page: 2 of 6 Words: 834 English (U.S.) 80%

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CEPADAN MATAHARI BAGI AZIMUT

Penilik ADAM ROSLI Hari Sabtu Tarikh 16 Bulan JUN Tahun 2007

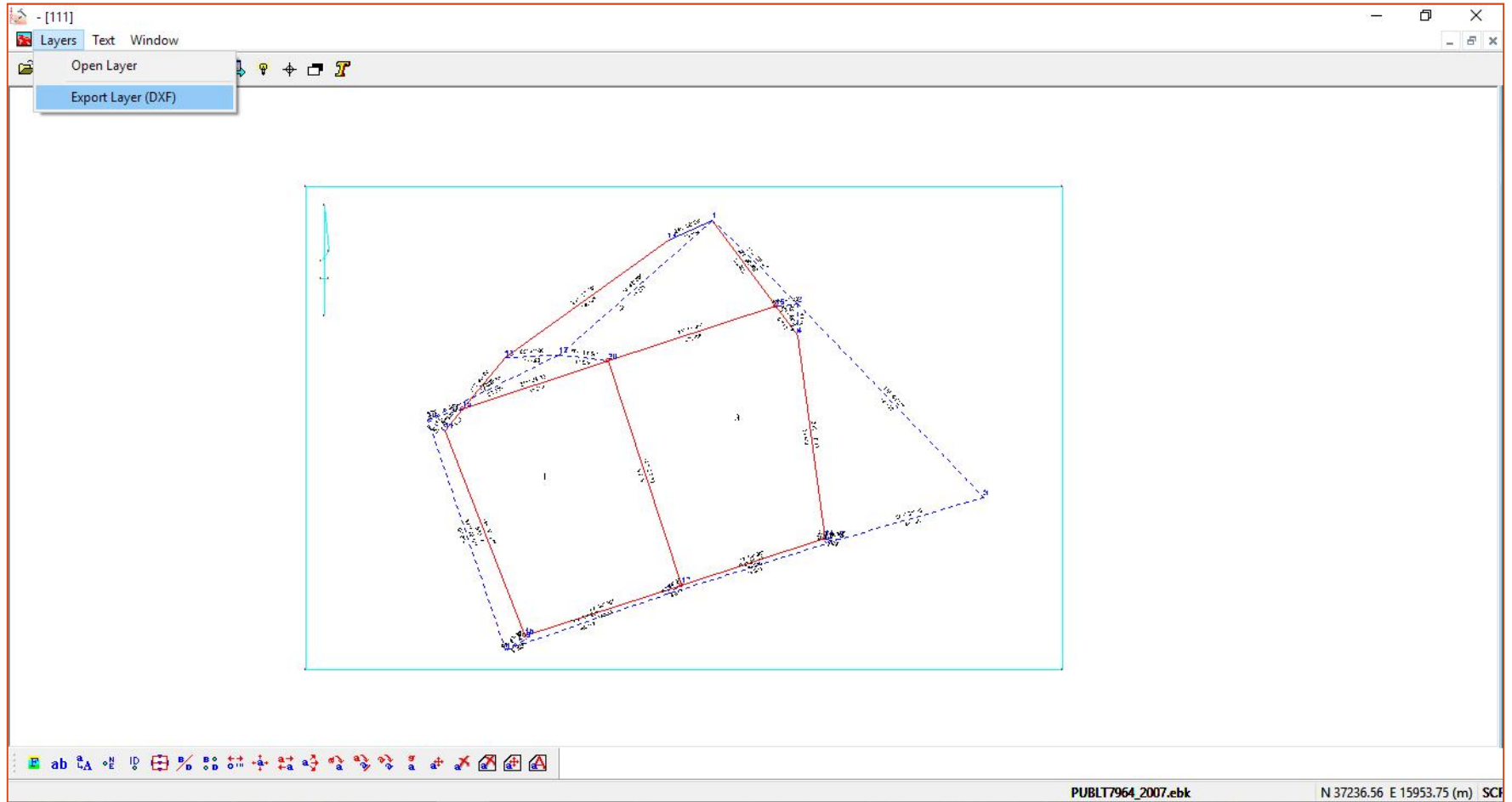
Stesen 2 T.R. 1 B.K. 1 Ms. Sizi Atas Bah. Aras Ufuk = a

Negeri TRENGGANU

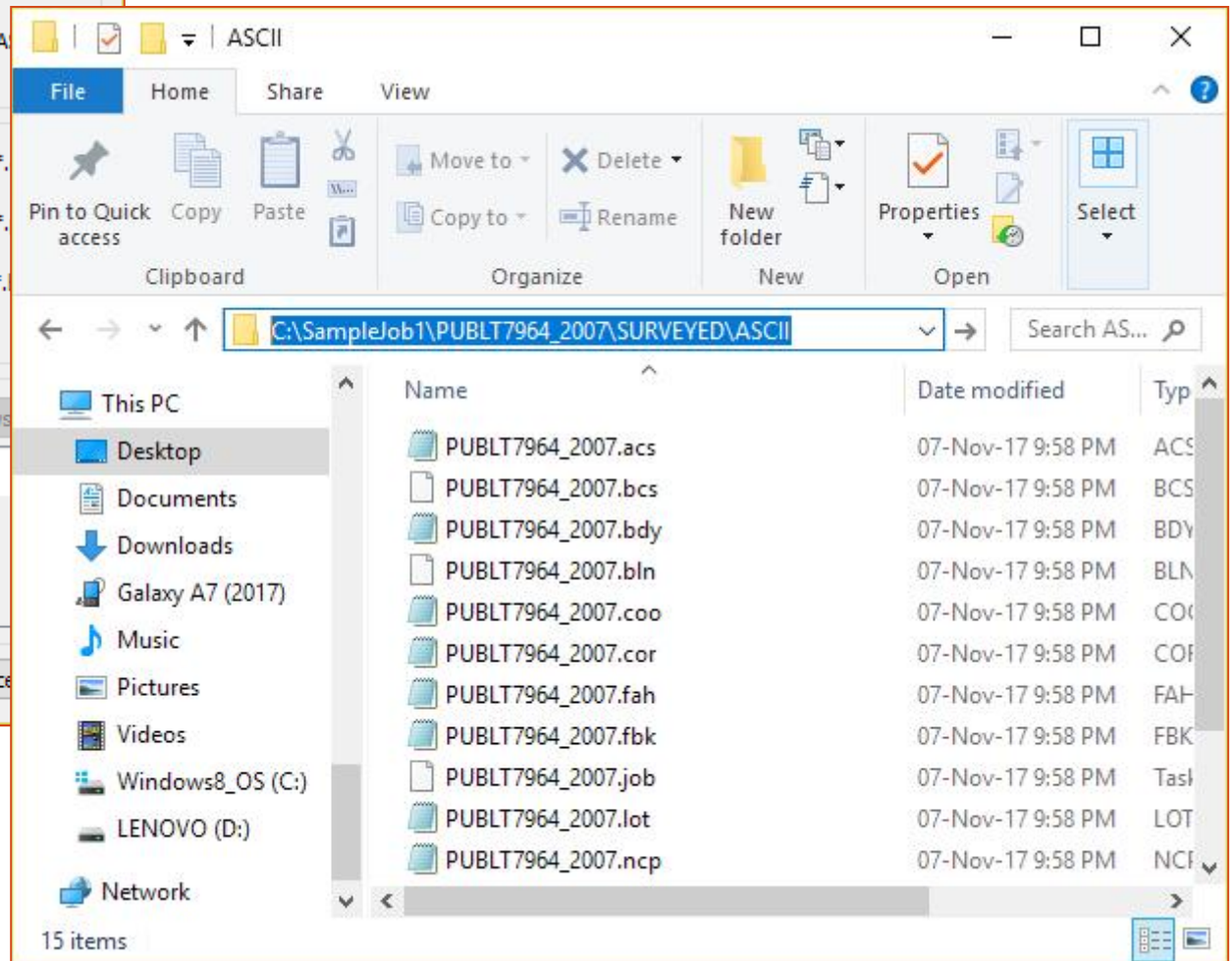
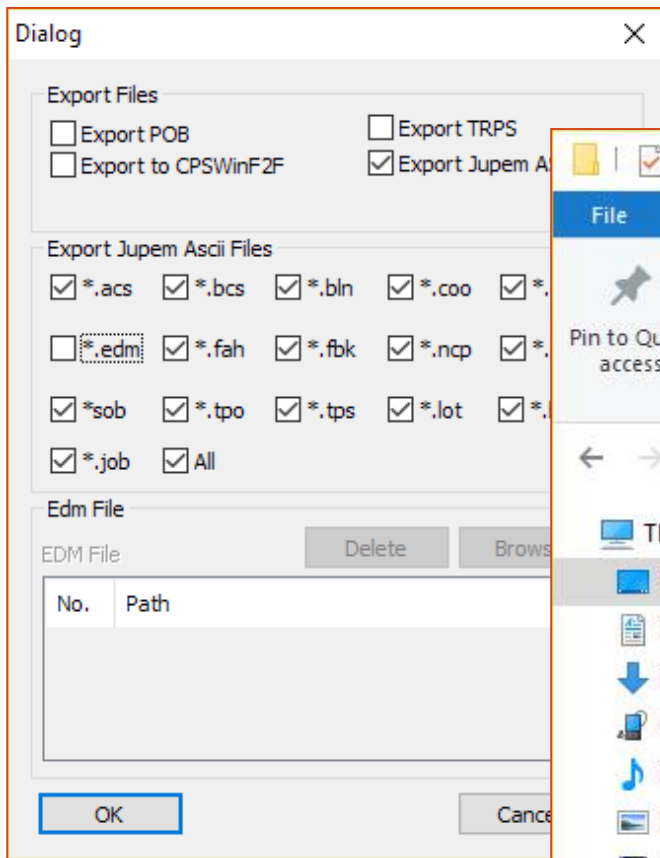
Set 1						Set 2							
Waktu	Mengufuk (ddd.msas)		Gelembung		Pujuk	Waktu	Mengufuk (ddd.msas)		Gelembung		Pujuk		
J.msas	P.Ki	TR	Ki	Ka		J.msas	P.Ki	TR	Ki	Ka			
08.2000	P.Ki	0+	67.1522	0	0	08.2500	P.Ki	0+	67.2026	0	0	67.5140	
08.2100		+0	66.4006	0	0	08.2600		+0	66.2486	0	0	67.3740	
08.2200	P.Ka	+0	246.4036	0	0	08.2700	P.Ka	+0	246.2506	0	0	292.4110	
08.2300		0+	247.1924	0	0	08.2800		0+	247.2429	0	0	292.5420	
		T.R.	134.2010					T.R.	134.2010				
Purata Waktu -8.00			0.3200	Purata Altitud(H)		21.1607	Purata Waktu -8.00			0.3700	Purata Altitud(H)		22.3133
Purata Mengufuk ke Matahari			66.5852	Biasan & Besalihat		0.0207	Purata Mengufuk ke Matahari			66.5339	Biasan & Besalihat		0.0159
Purata T.R.			314.2010	Altitud Di laras		21.1400	Purata T.R.			314.2010	Altitud Di laras		22.2034
Koordinat Origin U/S						0.00m	Koordinat Origin T/B						0.00m
Stesen U/S						37177.24m	Stesen T/B						16155.95m
Jum/Sel U/S						37177.24m	Jum/Sel T/B						16155.95m
Jum/Selx0.02256						0.2010	Jum/Selx0.02246						0.0844
G.Lintang Origin U						4.5646	Sel.G. Bujur x Sain G.Lintang						-0.0048
G.Lintang Stesen U						5.1657	I(-)/B(+) Tirusan						-0.0048
Sudustitiwa pada waktu Penilikan						23.1939	Sudustitiwa pada waktu Penilikan						23.1939
Azimut matahari yang dikira						67.0004	Azimut matahari yang dikira						66.5445
Tanda Rujuk sebenar (Purata TR + As - Purata Ke Matahari)						314.2122	Tanda Rujuk sebenar (Purata TR + As - Purata Ke Matahari)						314.2116
Aras						0.0000	Aras						0.0000
Tirusan						-0.0048	Tirusan						-0.0048
Bearing grid TR						314.2033	Bearing grid TR						314.2027
Purata Bearing Grid ke Tanda Rujuk							Purata Bearing Grid ke Tanda Rujuk						314.2030

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EXPORT FIELD SKETCH TO DXF



EXPORT ASCII

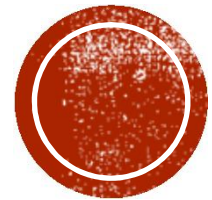


16 ASCII

JTB hendaklah menghantar format data berdigit dalam bentuk ASCII yang terdiri daripada:

- i. .fbk – Field Observation Data
 - ii. .cor – Corrections
 - iii. .sob – Solar Observation Data
 - iv. .bcs – Bearing Close Statement
 - v. .acs – Area Comparison
 - vi. .ncp – Deduced Field Data
 - vii. .tps – Traverses
 - viii. .lot – Lot Details
 - ix. .bdy – Bearing, Distance & Coordinates
 - x. .job – Job Details
 - xi. .edm – EDM Test
 - xii. .fah – Fahasat
 - xiii. .coo – Coordinates Information
 - xiv. .bln – Base Line
 - xv. .tpo – Topography
 - xvi. .po – Old Value
- Serta;
 - i. .xml – Digital Signature



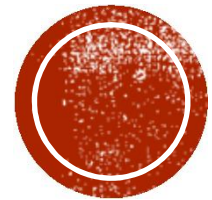


IT TOOLS UPGRADE IN FUTURE



1. Precomp PU ASCII Processing
2. Export StarNet DAT
 - For Least Square Adjustment





ASCII CHECKER (DIFFERENT SOFTWARE)

ASCII CHECKER FOR 16 ASCII

The screenshot displays the 'ASCII Checker' software interface. The main window contains a table with the following data:

	FileName	FileNo	StrnNo	Type	Serial	North	East	Code	Remarks
1	PUBLT	7964_2007	19	BKB		37149.478	16064.375	4	
2	PUBLT	7964_2007	4	BKL		37169.397	16155.054	9	!
3	PUBLT	7964_2007	3	Pkt		37125.404	16205.657	4	
4	PUBLT	7964_2007	2	Pkt		37177.865	16155.241	4	
5	PUBLT	7964_2007	1	BKL		37200.519	16132.060	9	!
6	PUBLT	7964_2007	12	Pkt		37164.116	16090.525	4	
7	PUBLT	7964_2007	13	BKL		37163.266	16075.852	4	
8	PUBLT	7964_2007	10	Pkt		37146.496	16054.951	4	
9	PUBLT	7964_2007	11	BKL		37143.616	16059.497	4	
10	PUBLT	7964_2007	16	BKB		37114.463	16162.544	4	
11	PUBLT	7964_2007	20	BKB		37162.402	16103.941	4	
12	PUBLT	7964_2007	17	BKB		37101.788	16123.742	4	
13	PUBLT	7964_2007	14	BKL		37195.147	16120.009	4	
14	PUBLT	7964_2007	9	BKL		37086.962	16081.673	9	!
15	PUBLT	7964_2007	15	BKB		37177.212	16149.281	4	
16	PUBLT	7964_2007	8	Pkt		37084.129	16076.003	4	
17	PUBLT	7964_2007	7	Pkt		37099.238	16119.828	4	
18	PUBLT	7964_2007	6	BKL		37113.429	16162.683	4	
19	PUBLT	7964_2007	5	Pkt		37114.084	16166.558	4	
20	PUBLT	7964_2007	18	BKB		37087.921	16081.298	4	

The interface also features a menu bar with options: File, Regenerate, Edit, View, Display, Jupem Check Rpt, Help. A toolbar with various icons is located below the menu bar. A red box highlights the menu bar, and a red circle highlights the 'Description' field in the right-hand panel. Below the table is a diagram of a polygon with vertices labeled with numbers 1 through 20.

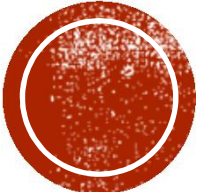
Checker for 16 ASCII File except *.EDM

If have any Error the box Description will detail the error where to fixed it.





DEMO

 Q & A

Thanks 😊