



STATION **C** CHARLTON (P) 5500 TS.

Owners Name.....  
 Current Occupant.....  
 Address.....  
 Address.....

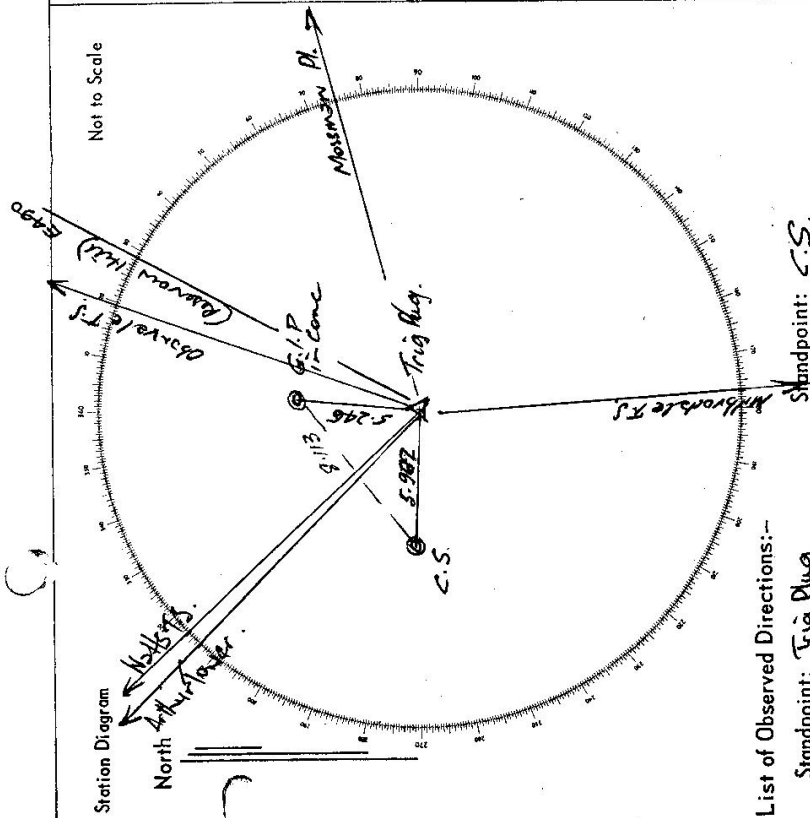
31-7-75

Access *via previous repair.*

Travel Putty Road from Singleton towards Windlesor for approx. 17 km. to BROKE TURN OFF ON L.H.S.

- 0.0 m. Intn of Broke Rd & Putty Rd. Take Broke Rd.
- 0.1 m. Turn left into Partidge Road.
- 0.75 m. Pass Charlton Rd. on Left.
- 2.0 m. Leave Partidge Rd. at cut-da-sac. follow contour drain in a westerly direction.
- 2.2 m. Leave contour drain and drive up hill to north.
- 2.3 m. Leave car and walk to trig. (abt 4-5 min).

Access only in dry weather.  
 Drive to trig. in 4WD vehicle.



List of Observed Directions:-

Standpoint: Trig Plug.

Station	Direction	Station	Direction
Watts TS	0.80.66	Charlton TS	399.44.52
Obonvale TS	63.25.0.83	G.I.P.	399.44.52
Putty Hill E490	71.45.50.01		
Monman Pillar	120.81.04.01		
Mulbrooke T-S	221.35.44.43		
At Hunt Tower	359.18.14.67		
C.S.	315.42.19.5		
G.I.P. Conc.	48.05.88.5		

7-4-89

Trigonometrical Survey of N.S.W.

CENTRAL MAPPING AUTHORITY

Department of Lands

RECONNAISSANCE and MAINTENANCE REPORT

This Trig. Station has been:-

Note: Cross out word or words which do not apply

1. Completely cleared to permit 360° vision to surrounding Trig. (276° 31' 28" / 280° 31' 28" / 281° 31' 28" / 282° 31' 28" / 283° 31' 28" / 284° 31' 28" / 285° 31' 28" / 286° 31' 28" / 287° 31' 28" / 288° 31' 28" / 289° 31' 28" / 290° 31' 28" / 291° 31' 28" / 292° 31' 28" / 293° 31' 28" / 294° 31' 28" / 295° 31' 28" / 296° 31' 28" / 297° 31' 28" / 298° 31' 28" / 299° 31' 28" / 300° 31' 28" / 301° 31' 28" / 302° 31' 28" / 303° 31' 28" / 304° 31' 28" / 305° 31' 28" / 306° 31' 28" / 307° 31' 28" / 308° 31' 28" / 309° 31' 28" / 310° 31' 28" / 311° 31' 28" / 312° 31' 28" / 313° 31' 28" / 314° 31' 28" / 315° 31' 28" / 316° 31' 28" / 317° 31' 28" / 318° 31' 28" / 319° 31' 28" / 320° 31' 28" / 321° 31' 28" / 322° 31' 28" / 323° 31' 28" / 324° 31' 28" / 325° 31' 28" / 326° 31' 28" / 327° 31' 28" / 328° 31' 28" / 329° 31' 28" / 330° 31' 28" / 331° 31' 28" / 332° 31' 28" / 333° 31' 28" / 334° 31' 28" / 335° 31' 28" / 336° 31' 28" / 337° 31' 28" / 338° 31' 28" / 339° 31' 28" / 340° 31' 28" / 341° 31' 28" / 342° 31' 28" / 343° 31' 28" / 344° 31' 28" / 345° 31' 28" / 346° 31' 28" / 347° 31' 28" / 348° 31' 28" / 349° 31' 28" / 350° 31' 28" / 351° 31' 28" / 352° 31' 28" / 353° 31' 28" / 354° 31' 28" / 355° 31' 28" / 356° 31' 28" / 357° 31' 28" / 358° 31' 28" / 359° 31' 28" / 360° 31' 28")
2. Cleared by lanes bearing.....
3. Trig. Mast & Vanes have been painted white & black respectively. AND NOT REPAIRED
4. The Trig. was unpiled/~~not~~ dimensions now being:
  - Description of mark..... BRONZE PIN <sup>Live Sandstone!</sup> should be explicit, e.g. Steel plug, Brass plug, Bolt, G.I. Pipe
  - Height of mark..... 0.222 m <sup>Pin at Spire</sup> ~~0.222 m~~ <sup>above</sup> ~~rock/concrete~~ <sup>rock/concrete</sup> ~~below~~ <sup>G.L.</sup> ~~below~~
  - Height of Top Vanes to Top Mast 1.392 m <sup>Diameter of Vanes (vertical) 0.750 m</sup>
  - Height of Cairn..... m. Diameter of Cairn..... m.
5. A CONCRETE ~~CONCRETE~~ <sup>CONCRETE</sup> ~~set in conc/rock~~ <sup>has been placed.</sup> 2.600 m <sup>to top of</sup> ~~2.600 m~~ <sup>bearing</sup> 250° <sup>0°M from Trig. Mast</sup> ~~0°M from Trig. Mast~~
6. A CONCRETE ~~CONCRETE~~ <sup>CONCRETE</sup> ~~set in conc/soil~~ <sup>has been placed.</sup> 8.416 m <sup>to top of</sup> ~~8.416 m~~ <sup>bearing</sup> 88° <sup>0°M from Trig. Mast</sup> ~~0°M from Trig. Mast~~
7. A G.I. PIPE ~~G.I. PIPE~~ <sup>G.I. PIPE</sup> ~~set in conc/soil~~ <sup>has been placed.</sup> 4.707 m <sup>to top of</sup> ~~4.707 m~~ <sup>bearing</sup> 158° <sup>0°M from Trig. Mast</sup> ~~0°M from Trig. Mast~~
8. A.....set in conc/rock has been placed..... m. bearing..... <sup>NOTE: 0°M from Trig. Mast</sup>
9. Connection COPPER NAIL ~~COPPER NAIL~~ <sup>COPPER NAIL</sup> 8.111 m <sup>bearing</sup> 49° <sup>0°M</sup> ~~0°M~~ <sup>ORIGINAL STATION MEASUREMENTS BEFORE</sup> ~~STATION WAS UNPILED WERE,~~
10. Connection IRON AUGER COPPER NAIL ~~IRON AUGER COPPER NAIL~~ <sup>IRON AUGER COPPER NAIL</sup> 5.973 m <sup>bearing</sup> 214° <sup>DIAMETER OF VANES 1.010M</sup> ~~DIAMETER OF VANES 1.010M~~
11. Connection IRON AUGER COPPER NAIL ~~IRON AUGER COPPER NAIL~~ <sup>IRON AUGER COPPER NAIL</sup> 5.247 m <sup>bearing</sup> 8° <sup>MAST SQUARE 0.105M</sup> ~~MAST SQUARE 0.105M~~
12. Connection..... to..... m. bearing..... <sup>PILLAR PLATE</sup> ~~PILLAR PLATE~~ <sup>DIAMETER OF CAIRN 1.200M</sup> ~~DIAMETER OF CAIRN 1.200M~~
13. Diff. Ht. BRONZE TRIG PIN ~~BRONZE TRIG PIN~~ <sup>BRONZE TRIG PIN</sup> is 1.588 m <sup>above</sup> ~~below <sup>PILLAR PLATE</sup> ~~PILLAR PLATE~~~~
14. Diff. Ht. COPPER NAIL ~~COPPER NAIL~~ <sup>COPPER NAIL</sup> is 1.540 m <sup>above</sup> ~~below <sup>PILLAR PLATE</sup> ~~PILLAR PLATE~~~~
15. Diff. Ht. G.I. PIPE ~~G.I. PIPE~~ <sup>G.I. PIPE</sup> is 1.701 m <sup>above</sup> ~~below <sup>PILLAR PLATE</sup> ~~PILLAR PLATE~~~~
16. Diff. Ht. .... is ..... m. <sup>above</sup> ~~below <sup>PILLAR PLATE</sup> ~~PILLAR PLATE~~~~

Prepared by:

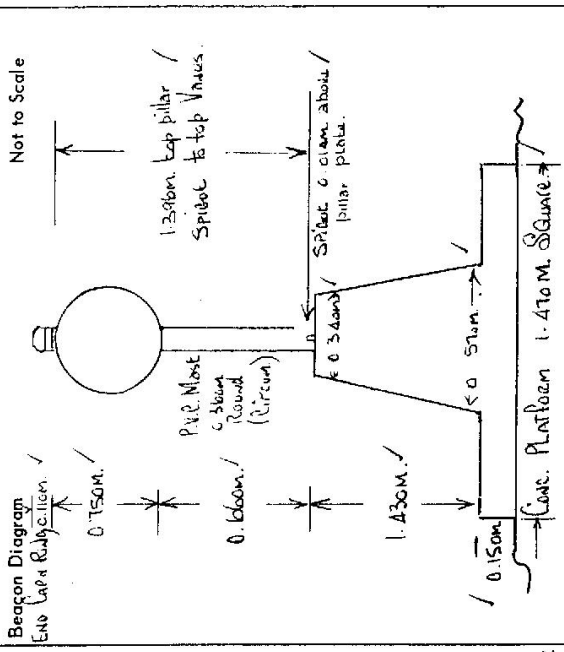
Checked:

Noted on U.T.M. Card

Record of Station

Checked

STATION CHARLTON (Pillar) T.S. 5500  
 Co: NORTHUMBERLAND / Ph: WOLLUMBI  
 Map Sheet: CRESSBARK NORTH / No: 9132  
 Inspected by: DAVID J. KEVIN / Date: 21 October 1975  
 Authority: / Field Book: 01397



Date	Record of Station

STATION Chanelion (Pillar) T.S. IS. 5500

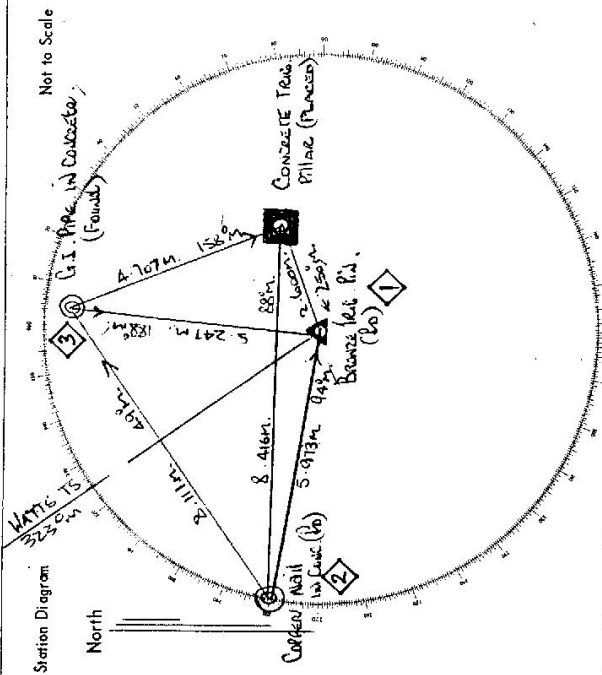
Owners Name: PERUO PROPERTIES  
 Address: 315 Pitt Street,  
Sydney, Phone No. 61 9435.  
 Current Occupant: .....  
 Address: .....

Access 29-10-1975 Access To Chanelion Pillar T.S. From SINGLETON.

- AT POST OFFICE AT SINGLETON AT 0.0 MILES, TURN ALONG PUTTY WINDSOR BULBA ROAD.
- MILEAGE: Cross Railway Line. ✓  
 0.50  
 5.65 PASS WOLLOMIE ROAD ON YOUR LEFT. ✓  
 7.15 PASS DENMON/JERRY'S PLAINS ROAD ON YOUR RIGHT. ✓  
 9.85 THROUGH IRON GATE ON YOUR LEFT. NAME OF GATE, "J. BEATIE." ✓  
 9.90 TAKE TRACK OFF TO YOUR LEFT. ✓  
 9.95 LOCKED WIDE GATE. KEY OBTAINABLE FROM "BEATIE HOUSE" ON THE HILL.

Follow Road Track Access Paddock onto Ridge Thence Along Ridge to Carb. Pillar at 10.30 Miles. ✓

Note: Access to this station is very easy and could be driven to by station sedan type vehicle in dry weather. ✓



List of Observed Directions:-

Standpoint: Conc. Trig. Pillar / Standpoint: TRIG AUG.

Station	Direction	Station	Direction
WATTS T.S.	100.00.00	WATTS T.S.	100.00.00
COOPER NAIL	308.28.40	COOPER NAIL	315.40.40
TRIG AUG.	371.40.50	CONC. TRIG. PILLAR	171.59.00
G.I. PIPE	18.25.40	G.I. PIPE	148.43.00

Standpoint: COOPER NAIL

Station	Direction	Station	Direction
WATTS T.S.	00.00.00		
G.I. PIPE	95.23.20		
CONC. TRIG. PILLAR	128.25.20		
TRIG AUG.	135.39.30		

CENTRAL MAPPING AUTHORITY  
Department of Lands

Trigonometrical Survey of N.S.W.

RECONNAISSANCE and MAINTENANCE REPORT

STATION CHARLTON O.P. TS-5500

Co: NORTHUMBERLAND Ph: WOLLUMBI

Map Sheet: CESSNOCK No: 9132-N

Inspected by: C. BROWN Date: 5th January 1976

Authority: C.M.A. Field Book: 1472

This Trig. Station has been:

1. Completely cleared to permit 360° vision to surrounding Trigs.
2. Cleared by lanes bearing..... from Trig. Mast
3. Trig. Mast & Vanes have been painted white & black respectively. ✓
4. The Trig. was unpiled/~~not~~ <sup>revised</sup> ~~unpiled~~, dimensions now being: *Revised Station mark book*

Note: Cross out word or words which do not apply

Description of mark: *Concrete observation pillar* should be explicit, e.g. Steel plug, Brass plug, Bolt, G.I. Pipe  
*Set* *Pillar Plate*  
 Height of mark..... *0.06* m above *steel observation pillar*  
 Height of Top Vanes to Top *Mast*..... *1.410* m. *Pillar Plate*  
 Diameter of Vanes (vertical)..... *0.150* m.  
 Height of ~~mark~~..... *1.43* m. *✓* Diameter of ~~Center~~..... m.

Length of Mast..... *1.520* m. (approximate if not unpiled) *Part of construction. 27/10/75*

5. A Brass Trig. plug/set in conc/rock has been placed..... *2.538* m. bearing..... *2.46*° from Trig. Mast *Pillar*
6. A Copper nail set in conc/rock has been placed..... *8.413* m. bearing..... *2.63*° from Trig. Mast *Pillar*
7. A G.I. Pipe set in conc/rock has been placed..... *4.706* m. bearing..... *3.33*° from Trig. Mast *Pillar*
8. A..... set in conc/rock has been placed..... m. bearing.....° from Trig. Mast

9. Connection Brass T.P. to Copper Nail:..... *5.975* m. bearing..... *270*°

10. Connection Brass T.P. to G.I. Pipe:..... *5.227* m. bearing..... *2*°

11. Connection Copper Nail to G.I. Pipe:..... *8.15* m. bearing..... *50*°

12. Connection..... to..... m. bearing.....°

13. Diff. Ht. Brass Trig. Plug..... is *1.588* m. *✓* *above* *Pillar. Spigot. 4/75*

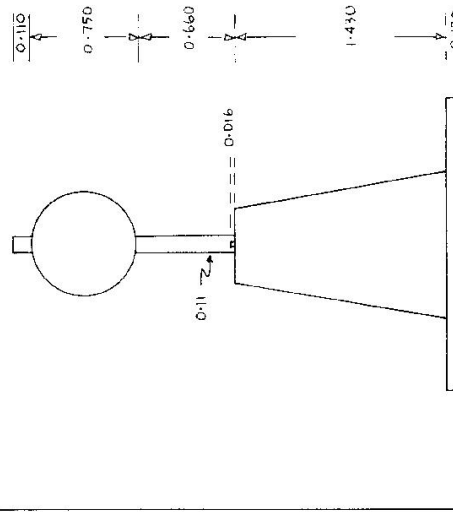
14. Diff. Ht. Copper nail..... is *1.540* m. *✓* *above* *Pillar. Spigot. 4/75*

15. Diff. Ht. G.I. Pipe..... is *1.701* m. *✓* *above* *Pillar. Spigot. 4/75*

16. Diff. Ht. Brass Trig. Plug..... is *0.112* m. *✓* *below* *G.I. Pipe*

Prepared by: *K. Bennett* 29-3-1976 Checked: Noted on U.T.M. Card

Beacon Diagram Not to Scale



Record of Station

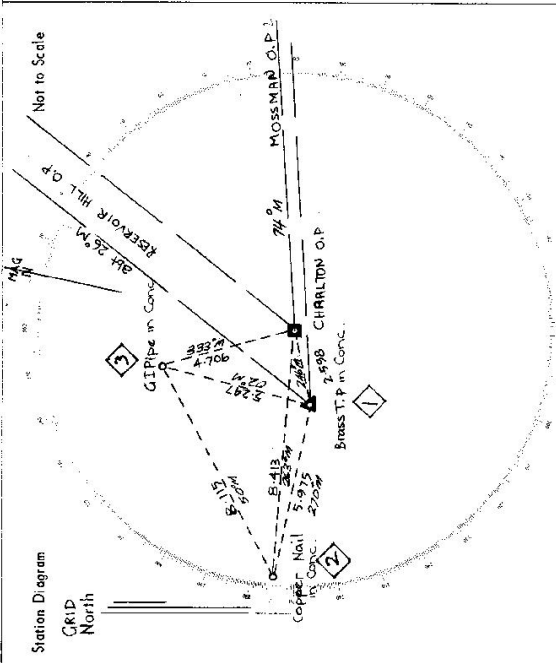
Date	Checked

4 - 8 - 76

STATION CHARLTON O.P. TS- 5500

Owners Name.....  
 Current Occupant.....  
 Address.....  
 Address.....

Access 5-1-1976



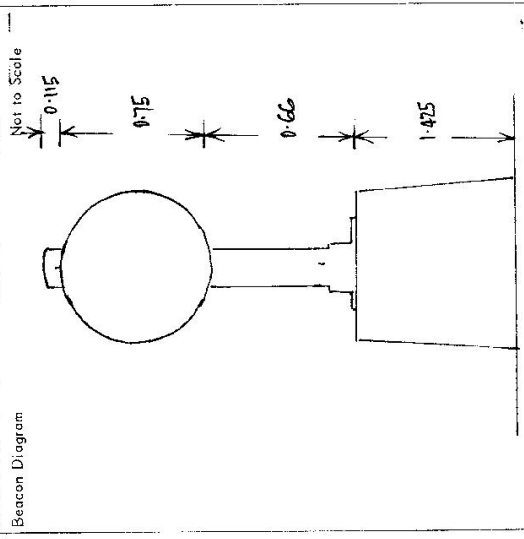
List of Observed Directions:-

Station	Direction	Station	Direction
RESERVOIR HILL O.P.	0° 00' 00"	RESERVOIR HILL O.P.	0° 00' 00"
MOSSMAN O.P.	48 27 22	Pillar Spigget	39 53
BRASS TRIG. PLUG IN CONC.	219 53	MOSSMAN O.P.	48 26 36
COPPER NAIL IN CONC.	236 43	COPPER NAIL IN CONC.	249 57
GI PIPE IN CONC.	306 42	GI PIPE IN CONC.	336 19

Station	Direction	Station	Direction

75-113

Department of Lands  
 Integration of N.S.W.  
 RECONNAISSANCE and MAINTENANCE REPORT  
 1456 STATION CHARLTON (P) IS-5500  
 Co: NORTHUMBERLAND Ph: WOLLUMBI  
 Map Sheet: CESSNOCK A No: 9132 N  
 Inspected by: A. GRAHAM Date: 12.1.76  
 Authority: I.S.D. NEWCASTLE Field Book: FUP/188



Date	Record of Station
27.10.75	Pillar Placed
1/76	

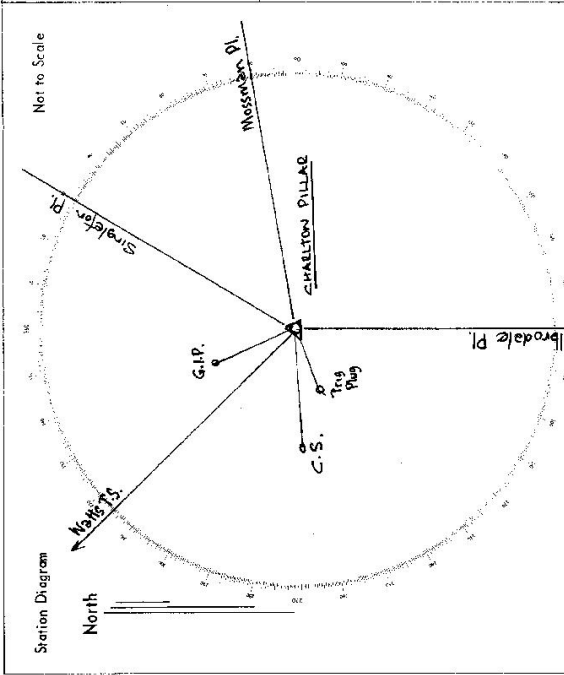
- This Trig. Station has been: *replaced*
- Note: Cross out word or words which do not apply
1. Completely cleared to permit 360° vision to surrounding Trigs.
  2. Cleared by lanes bearing *80° M, 180° M, 316° M, 30° M* from Trig. Mast
  3. Trig. Mast & Vanes have been painted white & black respectively. ✓
  4. The Trig. was unpiled/~~not unpiled~~, dimensions now being:
    - Description of mark: *concrete pillar* should be explicit, e.g. Steel plug, Brass plug, Bolt, Concrete Pillar
    - Height of mark: *1.425* m above ~~rock~~/*concrete* *1.425* m above G.L.
    - Height of Top Vanes to ~~Top plate~~/*Top pillar plate* *1.43* m Diameter of Vanes (vertical) *0.75* m.
    - Height of Cairn: *1.425* m. Diameter of Cairn *0.75* m.
    - Length of Mast: *1.545* m. (approximate if not unpiled)
  5. A Trig. Plug set in conc/~~rock~~ has been placed/*fd* *2.597* m. bearing *250° M* from Trig. Mast/pillar
  6. A G.S. set in conc/~~rock~~ has been placed/*fd* *9.417* m. bearing *266° M* from Trig. Mast/pillar
  7. A S.I.P. set in conc/~~rock~~ has been placed/*fd* *4.708* m. bearing *337° M* from Trig. Mast/pillar
  8. A set in conc/~~rock~~ has been placed/*fd* *0.000* m. bearing *0° M* from Trig. Mast/pillar
  9. Connection Trig. Plug to C.S. *5.978* m. bearing *274° M*
  10. Connection Trig. Plug to G.I.P. *5.246* m. bearing *7° M*
  11. Connection to *0.000* m. bearing *0° M*
  12. Connection to *0.000* m. bearing *0° M*
  13. Diff. Ht. Pillar Plate is *1.59* m. above ~~below~~ Trig. Plug
  14. Diff. Ht. Pillar Plate is *1.542* m. above ~~below~~ C.S.
  15. Diff. Ht. Pillar Plate is *1.704* m. above ~~below~~ S.I.P.
  16. Diff. Ht. Trig. Plug is *0.050* m. above ~~below~~ C.S. Trig. plug is *0.113* above G.I.P.

Prepared by: *AGP* Checked: A. BURROWS

STATION CHARLT N (P) TS 5500

Owners Name: .....  
 Current Occupant: .....  
 Address: .....  
 Address: .....

Access 12-1-1976  
 Take Rilly Road from Singleton  
 Travel south approx 17.2 km from Singleton and  
 Turn Left at sign - "Broke 14"  
 Turn Left at bit. road. 0.0 km.  
 Turn Left at Charlton Rd. 0.1 km.  
 Follow track at cul-de-sac up to old shed + Yards  
 Turn Right between 2 fences.  
 Turn Left at end of fences & make own way  
 to top of ridge  
 Turn Right and follow ridge into saddle then  
 up through trees to Trig



List of Observed Directions:-

Station	Direction	Station	Direction
Milbrodale Pl.	0° 00' 00"	Milbrodale Pl.	0° 00' 00"
Trig Plug (Charlton)	62° 57' 38.5"	C.S.	24° 04' 39"
C.S.	86° 49' 49"	G.I.P.	186° 24' 39"
Watts T.S.	138° 20' 50.58"	Pillar	250° 00' 20"
G.I.P.	156° 47' 58"	Mossman Pl.	258° 34' 57.5"

Standpoint: Pillar  
 Standpoint: Orig. Trig Plug.

Station	Direction	Station	Direction
Singleton Pl.	210° 06' 08.75"		
Mossman Pl.	258° 33' 26.83"		



CENTRAL MAPPING AUTHORITY

GEODETIC SURVEY OF N.S.W.

GEODETIC STATION RECONNAISSANCE and MAINTENANCE REPORT

STATION: C. HARTLEIGH (Pillar) No.: 5500  
 MAP SHEET: SINGLETON  
 INSPECTED BY: D. J. Kain DATE: 17 April 1979  
 AUTHORITY: C. M. A. FIELD BOOK: 1673

- Description:
1. Cleared by lanes bearing..... ESX/MARSA..... 11m..... for clearing..... ARRIVAL..... from Trig. Mast  
slight lanes 4 hours (small to medium regrowth trees)
  2. Mast & Vanes have been painted white & black respectively. ✓  
Inspected Masts Vanes were re-painted on..... April 1979..... dimensions now being.....  
The station/pillar was re-painted on..... 17 April 1979..... attached to hollow plate  
of Steel Cap Screws attached to hollow plate  
Description of mark..... Steel Pillar..... should be explicit..... e.g...... S/Steel Pillar Plate..... Steel plug..... Brass plug..... Bolt G.I. Pipe
  3. Height of mark..... 1.420..... m..... above mark..... above G.L.  
Height of Top Vanes to Top Mast/Pillar plate..... 1.410..... m..... Diameter of Vanes (vertical)..... 0.150..... m ✓  
Height of Cairn..... 0.520..... m..... Diameter of Cairn..... 0.150..... m..... C.M.A.  
Length of Mast..... 0.520..... m..... (approximate if not measured)..... Gravels Station
  4. A..... Copper..... Nail..... set in conc/rock..... has been placed..... found..... bearing..... 266..... °M..... from..... C.M.A.  
Gravels Station
  5. A..... G.I...... pipe..... set in conc/rock..... has been placed..... found..... bearing..... 345..... °M..... from..... Mast/Plug/Pillar
  6. A..... set in conc/rock..... has been placed..... found..... bearing..... 0..... °M..... from..... Mast/Plug/Pillar
  7. A..... set in conc/rock..... has been placed..... found..... bearing..... 0..... °M..... from..... Mast/Plug/Pillar
  8. Action required.....

STANDPOINT:			
Mark	Direction	Horiz. Distance	Height Difference
			above standpt.
			below standpt.
			above standpt.
			below standpt.
			above standpt.
			below standpt.
			above standpt.
			below standpt.
			above standpt.
			below standpt.
			above standpt.
			below standpt.
			above standpt.
			below standpt.

Prepared by: [Signature] Checked: [Signature] Noted on U.T.M. Card

GS 24

STATION CHAGLTON (Pillar) TS 5500	Owner's Name: ..... Address: ..... Phone: ..... Current Occupant: ..... Address: ..... Phone: ..... ACCESS Access Report of 9/4/1979 was found suitable/unsuitable.
Beacon Diagram Not to Scale 	This section to be completed by officer constructing pillar. Original station mark found/not found. Description of mark: ..... Original beacon found/not found. Description of beacon: ..... Height Top of Vane to Top Mark: .....m. Height of mark: .....m. above rock/cont .....m. below G.L. Diameter of Vane: .....m. Height of Cairn .....m. Original Beacon has/has not been destroyed by me.
Date	Record of Station