

Ravensworth No. 2 Opencut
Mined Extent - Bayswater Seam
For More Information Refer to
Record Tracing No RT722 &
RT722A

Ravensworth No. 2 Opencut
Mined Extent - Ravensworth Seam
For More Information Refer to
Record Tracing No RT722 & RT722A

Hunter No. 1 Colliery
For More Information Refer to
Record Tracing No RT721

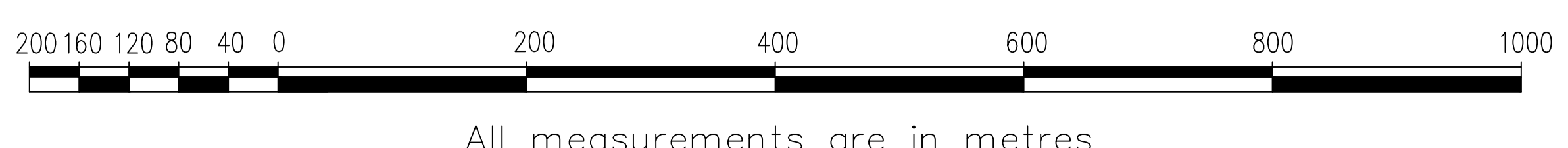
Ashton Opencut
Mined Extent - Barrett Seam
For More Information Refer to
Record Tracing No RT815

OPEN CUT MINING APPROVAL

I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

Mining Engineering Manager _____ Date _____

- Legend**
- Extraction Plan Area - Proposed
 - Proposed Longwall Extraction - LW201 to LW204
 - Existing ULLD Workings
 - Proposed ULLD Workings
 - Open Cut Mining Approval
 - Lease Boundary
 - Development Consent Boundary
 - Pikes Gully Seam Workings
 - Pikes Gully Seam - LW Extraction
 - Upper Liddell Seam Workings
 - Upper Liddell Seam - LW Extraction
 - Ashton Open Cut (Barrett Seam)
 - Hunter No.1 Colliery workings (Pikes Gully Seam)
 - Ravensworth No. 2 Opencut (Bayswater Seam)
 - Ravensworth No.2 Opencut (Ravensworth Seam)
- Pillar Dimensions are Centre-line distances
• Void Dimensions are from ribline of goaf edge
- NOTE: Application area lies wholly within Patrick Plains Mine Subdistrict**

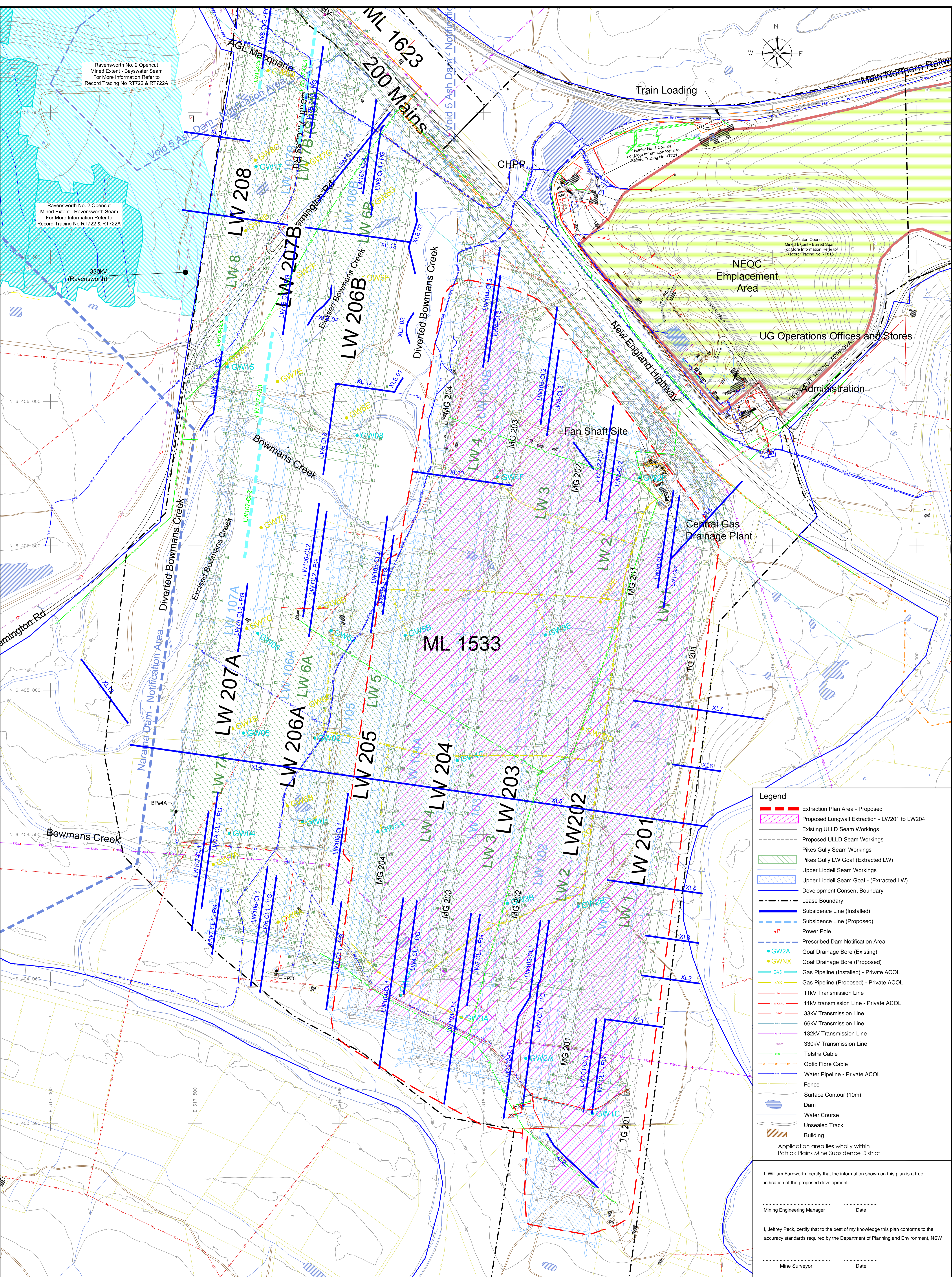


All measurements are in metres

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Phone 61+ 02 6576 1111 Fax 61+ 02 6576 1122

ASHTON UNDERGROUND MINE
PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM
PLAN No.1A - Extraction Area Boundary

| | | | | | |
|------------|--------|--------|----------|-----------|--------------|
| Date | Scale: | Drawn: | Checked: | Approved: | Drawing No. |
| 27/10/2016 | 1:4000 | JJP | DL | WF | C-4001_A |
| | | | | | Revision No. |
| | | | | | 1 |
| | | | | | Sheet Size |
| | | | | | A0 |



200 160 120 80 40 0 200 400 600 800 1000
All measurements are in metres

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ASHTON UNDERGROUND MINE
PROPOSED LW201 TO LW204 - UPPER LOWER LIMDELL SEAM
PLAN No. 7 - Subsidence Monitoring

| Date | Scale | Drawn | Checked | Approved |
|------------|--------|-------|---------|----------|
| 27/10/2016 | 1:4000 | JIP | DL | WF |

| | |
|--------------|--------|
| Drawing No. | C-4009 |
| Revision No. | 2 |
| Sheet Size | A0 |

Legend

- [Red dashed line] Extraction Plan Area - Proposed
- [Pink hatched area] Proposed Longwall Extraction - LW201 to LW204
- [Black solid line] Existing ULLD Seam Workings
- [Black dashed line] Proposed ULLD Seam Workings
- [Green hatched area] Pikes Gully Seam Workings
- [Blue hatched area] Upper Liddell Seam Workings
- [Blue dashed line] Upper Liddell Seam Goaf - (Extracted LW)
- [Blue solid line] Development Consent Boundary
- [Black dashed line] Lease Boundary
- [Red dashed line] Subsidence Line (Installed)
- [Blue dashed line] Subsidence Line (Proposed)
- [Red dot] Power Pole
- [Blue outline] Prescribed Dam Notification Area
- [Blue dot] Goaf Drainage Bore (Existing)
- [Yellow dot] Goaf Drainage Bore (Proposed)
- [Green line] Gas Pipeline (Installed) - Private ACOL
- [Yellow line] Gas Pipeline (Proposed) - Private ACOL
- [Red line] 11kV Transmission Line
- [Red line] 11kV Transmission Line - Private ACOL
- [Blue line] 33kV Transmission Line
- [Blue line] 66kV Transmission Line
- [Blue line] 132kV Transmission Line
- [Blue line] 330kV Transmission Line
- [Blue line] Telstra Cable
- [Blue line] Optic Fibre Cable
- [Blue line] Water Pipeline - Private ACOL
- [Brown line] Fence
- [Blue outline] Surface Contour (10m)
- [Blue outline] Dam
- [Blue outline] Water Course
- [Brown outline] Unsealed Track
- [Brown outline] Building

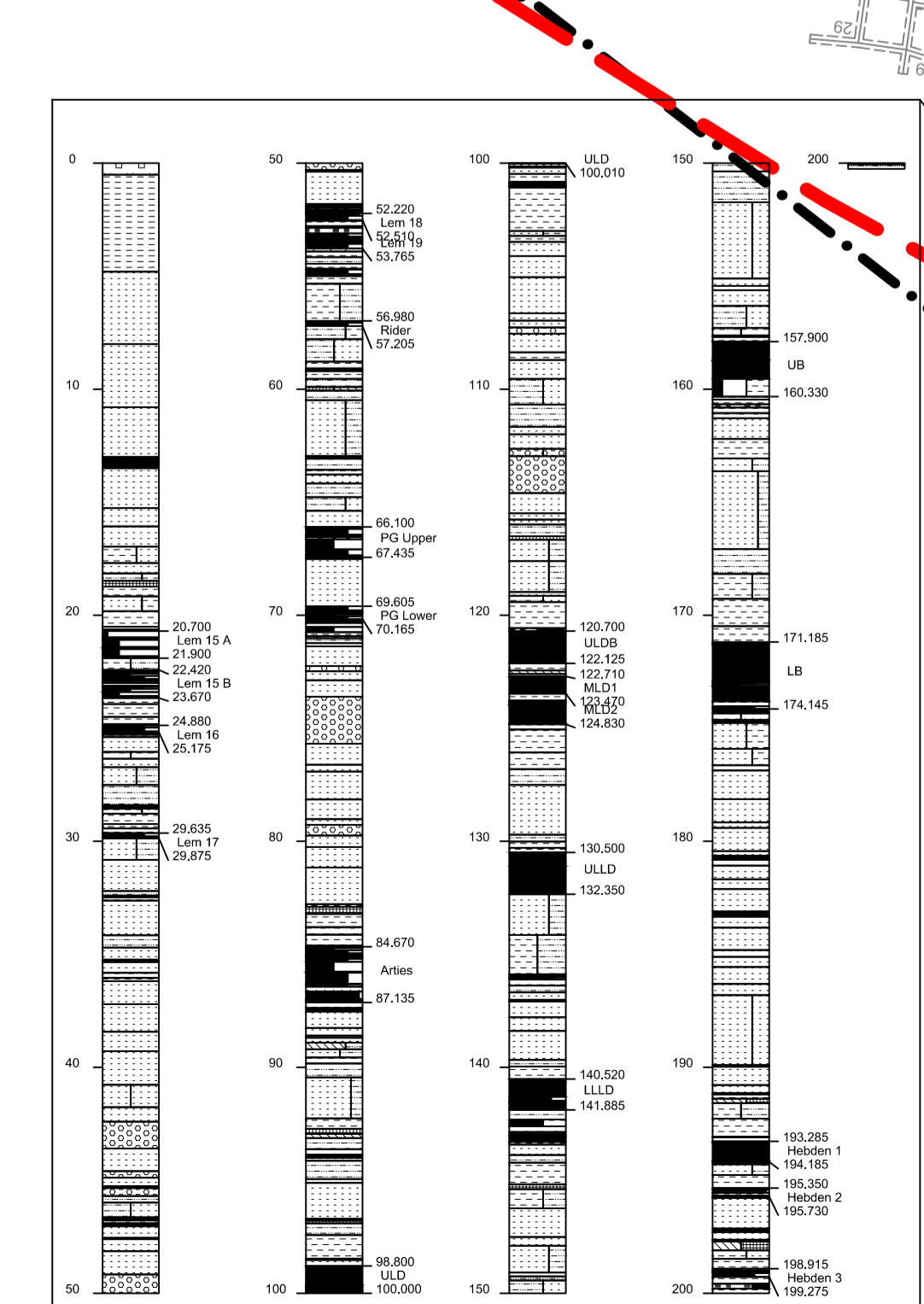
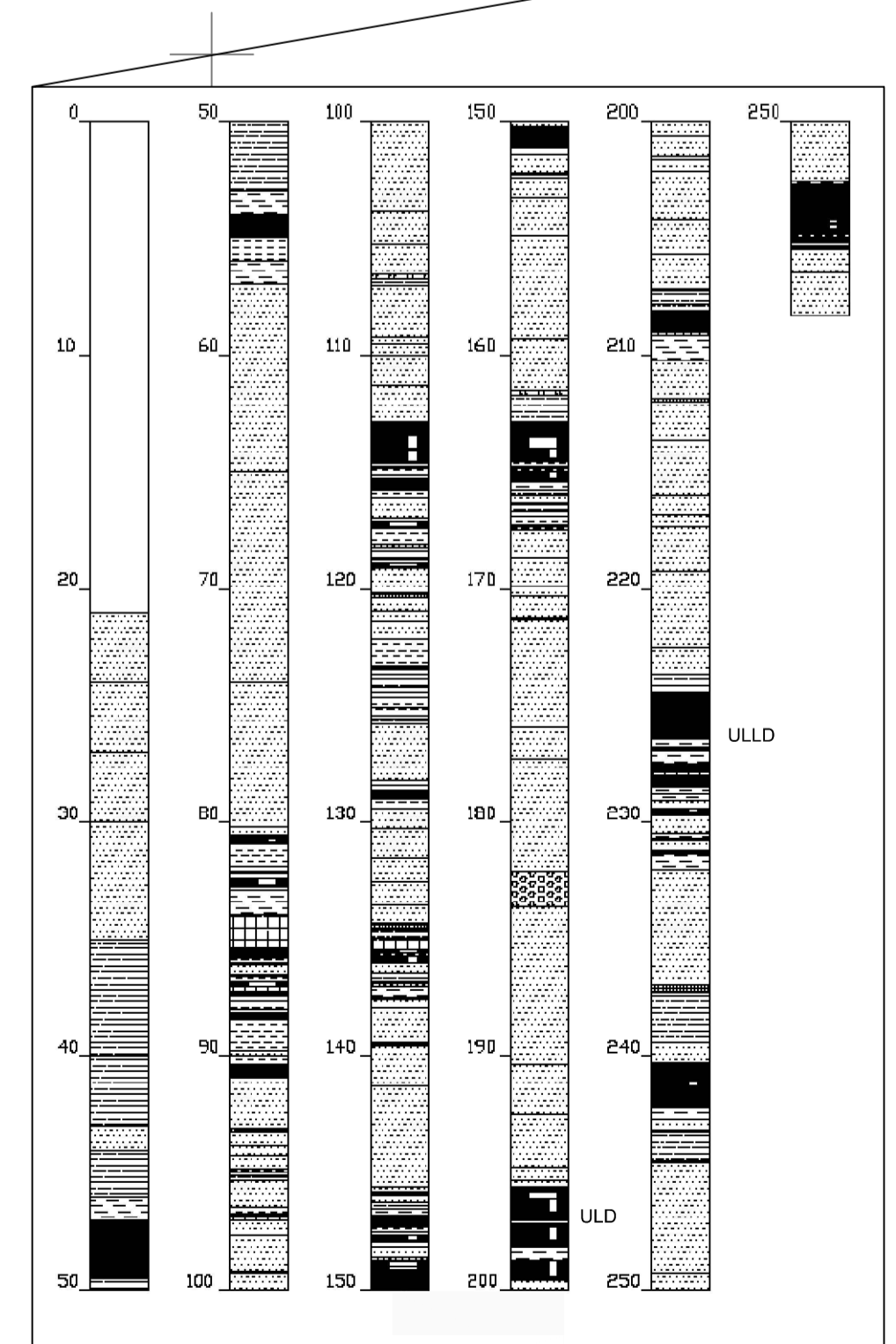
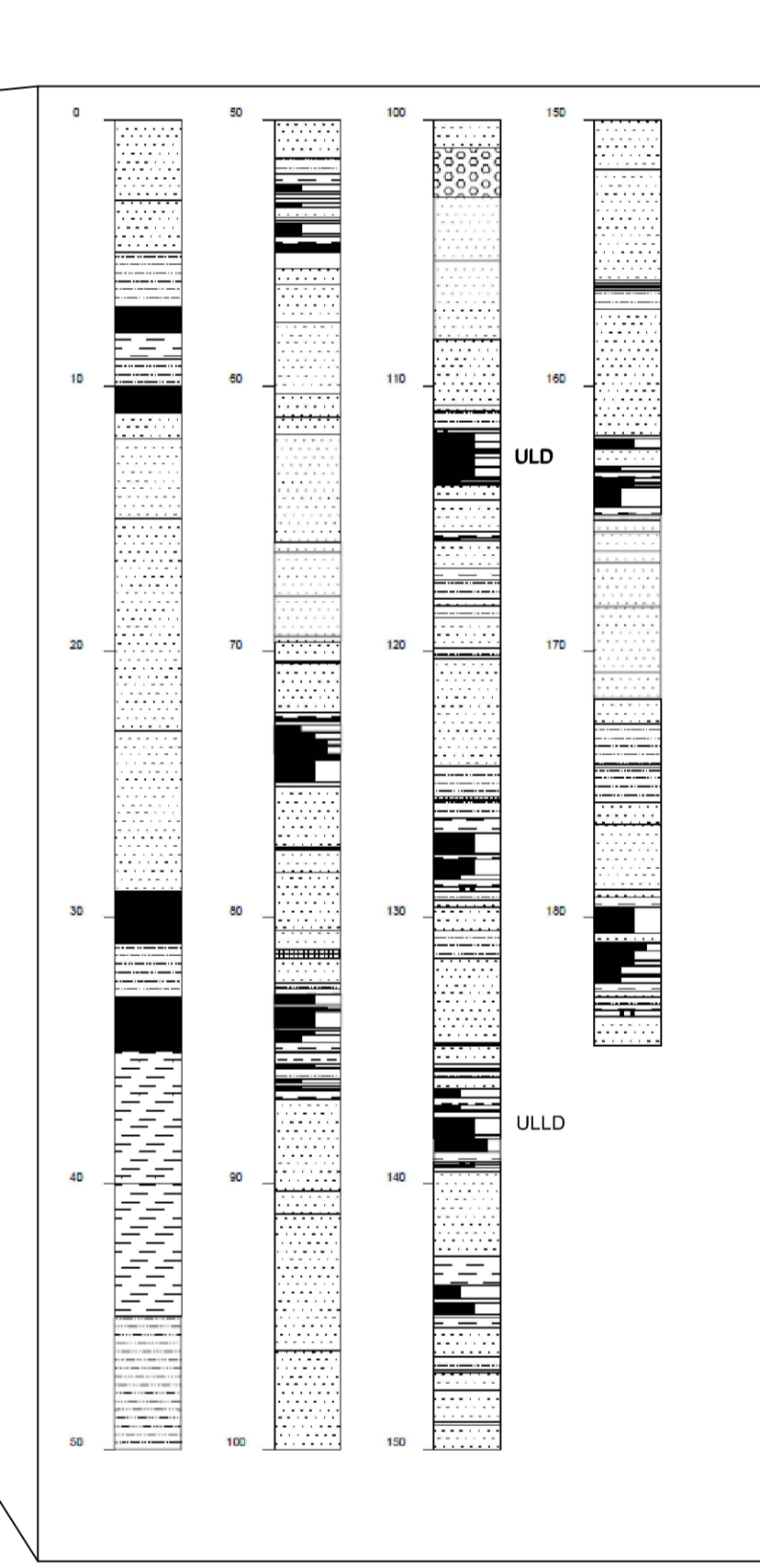
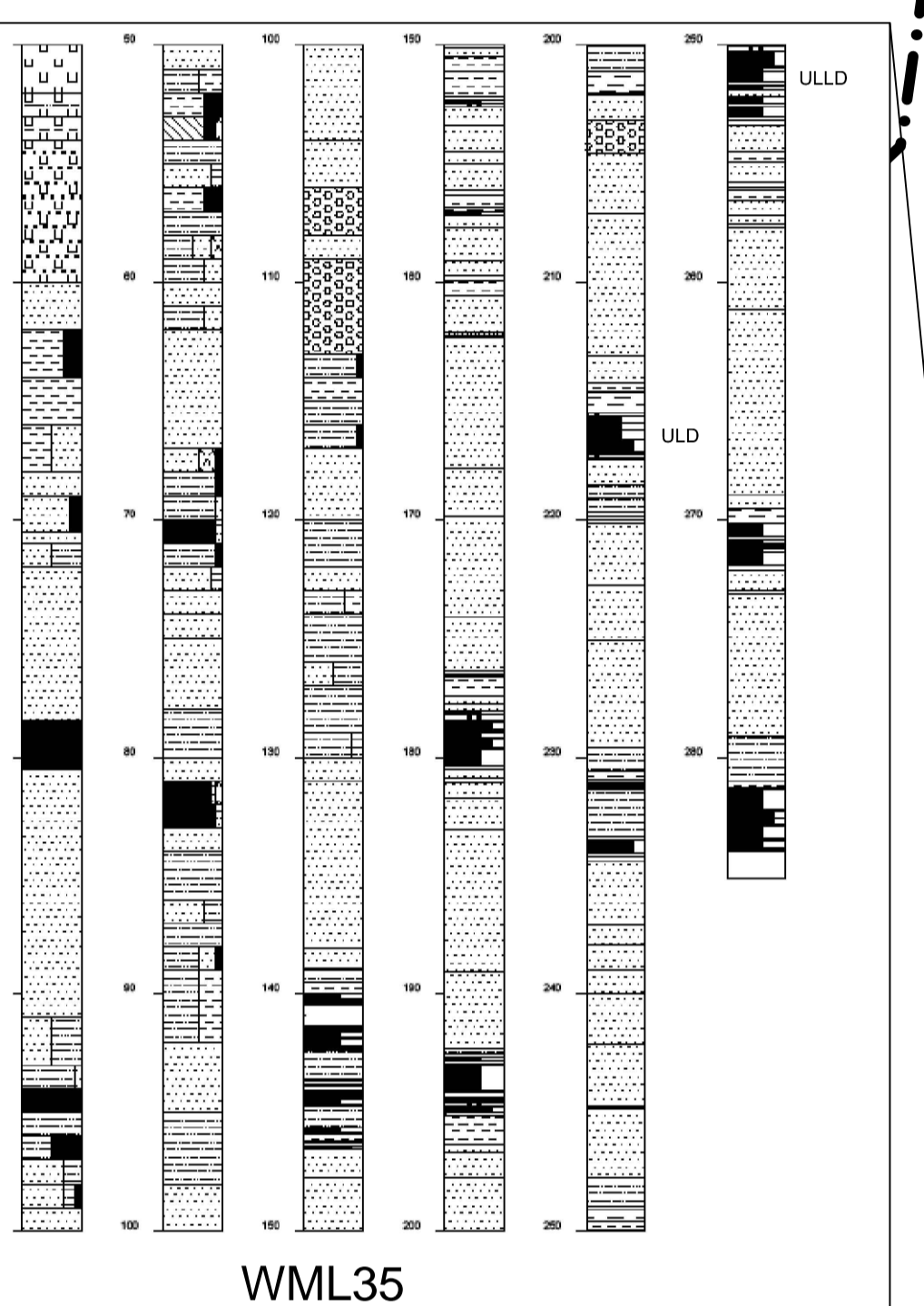
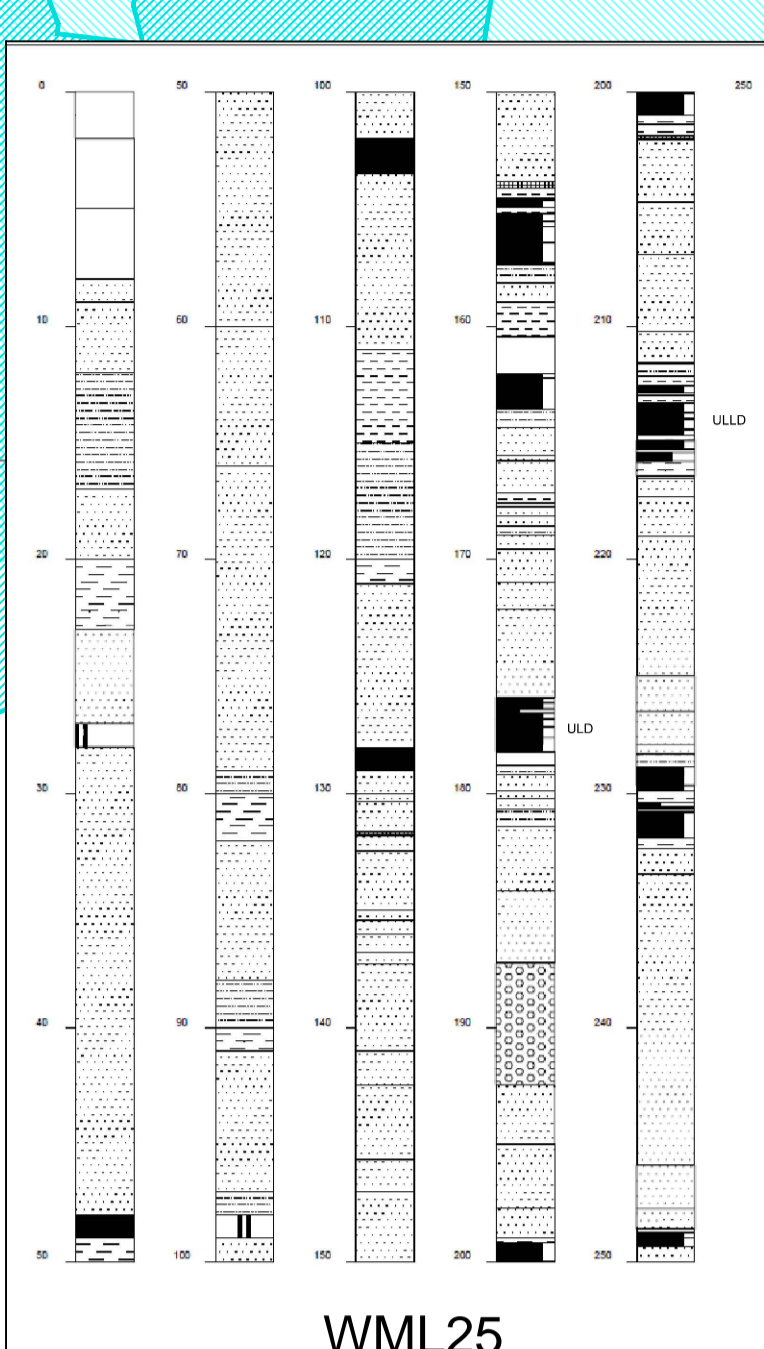
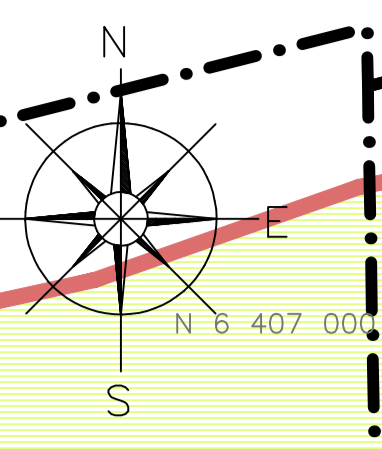
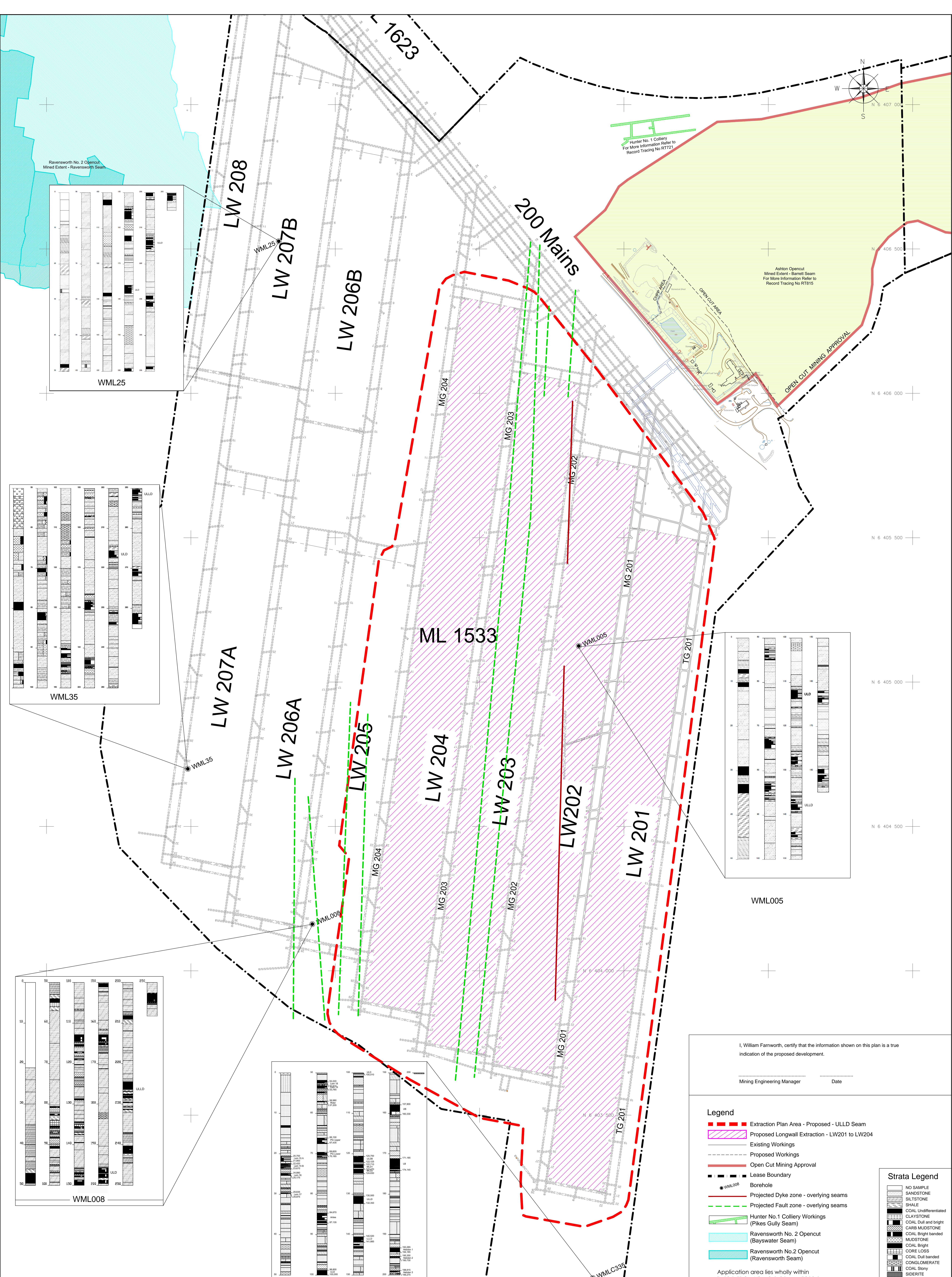
Application area lies wholly within Patrick Plains Mine Subsidence District

I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

Mining Engineering Manager Date

I, Jeffrey Peck, certify that to the best of my knowledge this plan conforms to the accuracy standards required by the Department of Planning and Environment, NSW

Mine Surveyor Date



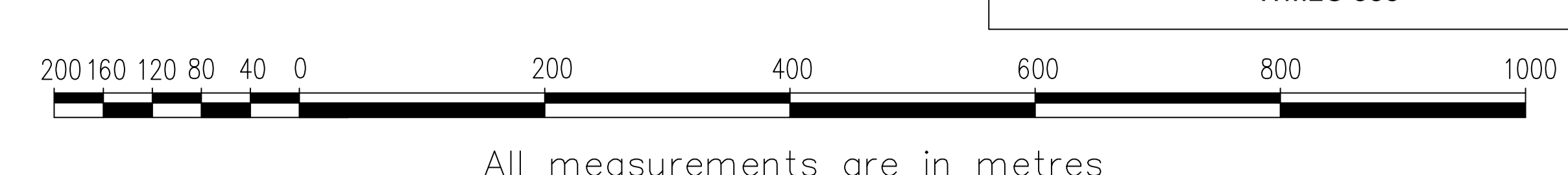
I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

.....
Mining Engineering Manager Date

- █ Extraction Plan Area - Proposed - ULLD Seam
- █ Proposed Longwall Extraction - LW201 to LW204
- Existing Workings
- Proposed Workings
- Open Cut Mining Approval
- Lease Boundary
- Borehole
- Projected Dyke zone - overlying seams
- Projected Fault zone - overlying seams
- Hunter No.1 Colliery Workings (Pikes Gully Seam)
- ▨ Ravensworth No.2 Opencut (Bayswater Seam)
- ▨ Ravensworth No.2 Opencut (Ravensworth Seam)

Strata Legend

| | |
|-----------|-----------------------|
| [Pattern] | NO SAMPLE |
| [Pattern] | SANDSTONE |
| [Pattern] | SILTSTONE |
| [Pattern] | SHALE |
| [Pattern] | COAL Undifferentiated |
| [Pattern] | CLAYSTONE |
| [Pattern] | COAL Dull and bright |
| [Pattern] | CARB MUDSTONE |
| [Pattern] | COAL Bright banded |
| [Pattern] | MUDSTONE |
| [Pattern] | COAL Bright |
| [Pattern] | CORE LOSS |
| [Pattern] | COAL Dull banded |
| [Pattern] | CONGLOMERATE |
| [Pattern] | COAL Story |
| [Pattern] | SIDERITE |
| [Pattern] | COAL Dull |

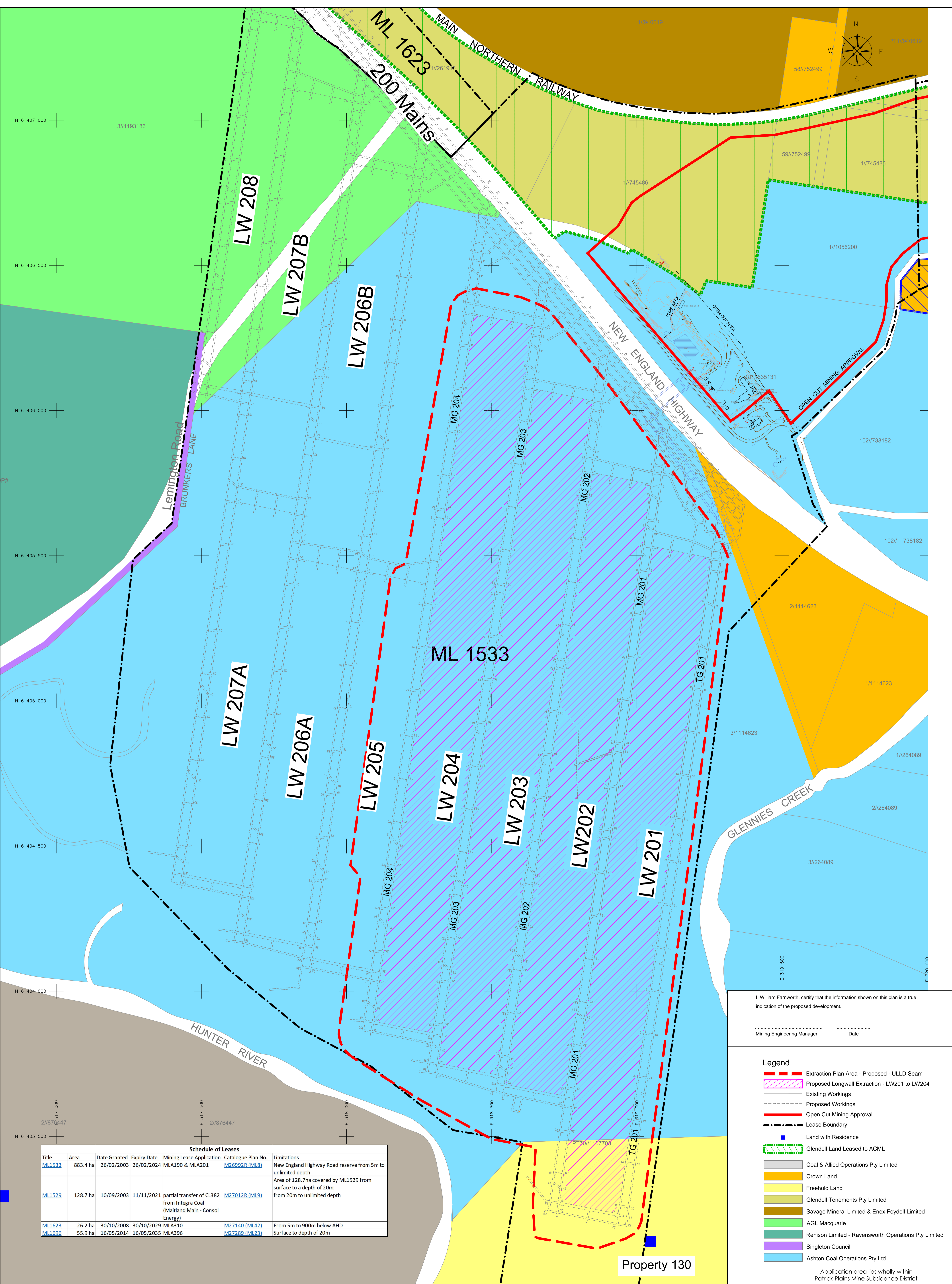


All measurements are in metres

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| | | | | |
|--|------------------|--------------|---------------|-----------------------|
| ASHTON UNDERGROUND MINE PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM PLAN No.6 - Geological Strata Sections | | | | Drawing No. C-4008 |
| Date 27/10/2016 | Scale: 1:4000 | Drawn JJP | Checked DL | Approved WF |
| | | | | Revision No. 1 |
| | | | | Sheet Size A0 |

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I, William Farmworth, certify that the information shown on this plan is a true indication of the proposed development.

Mining Engineering Manager _____ Date _____

- Legend**
- Extraction Plan Area - Proposed - ULLD Seam
 - Proposed Longwall Extraction - LW201 to LW204
 - Existing Workings
 - Proposed Workings
 - Open Cut Mining Approval
 - Lease Boundary
 - Land with Residence
 - Glendell Land Leased to ACML
 - Coal & Allied Operations Pty Limited
 - Crown Land
 - Freehold Land
 - Glendell Tenements Pty Limited
 - Savage Mineral Limited & Enex Foydell Limited
 - AGL Macquarie
 - Renison Limited - Ravensworth Operations Pty Limited
 - Singleton Council
 - Ashton Coal Operations Pty Ltd

Application area lies wholly within Patrick Plains Mine Subsidence District

| Schedule of Leases | | | | | | |
|--------------------|----------|--------------|-------------|---|--------------------|---|
| Title | Area | Date Granted | Expiry Date | Mining Lease Application | Catalogue Plan No. | Limitations |
| ML1533 | 883.4 ha | 26/02/2003 | 26/02/2024 | MLA190 & MLA201 | M26992R (ML8) | New England Highway Road reserve from 5m to unlimited depth Area of 128.7ha covered by ML1529 from surface to a depth of 20m |
| ML1529 | 128.7 ha | 10/09/2003 | 11/11/2021 | partial transfer of CL382 from Integra Coal (Maitland Main - Consol Energy) | M27012R (ML9) | from 20m to unlimited depth |
| ML1623 | 26.2 ha | 30/10/2008 | 30/10/2029 | MLA310 | M2714D (ML4) | From 5m to 900m below AHD |
| ML1696 | 55.9 ha | 16/05/2014 | 16/05/2035 | MLA396 | M27289 (ML23) | Surface to depth of 20m |



All measurements are in metres

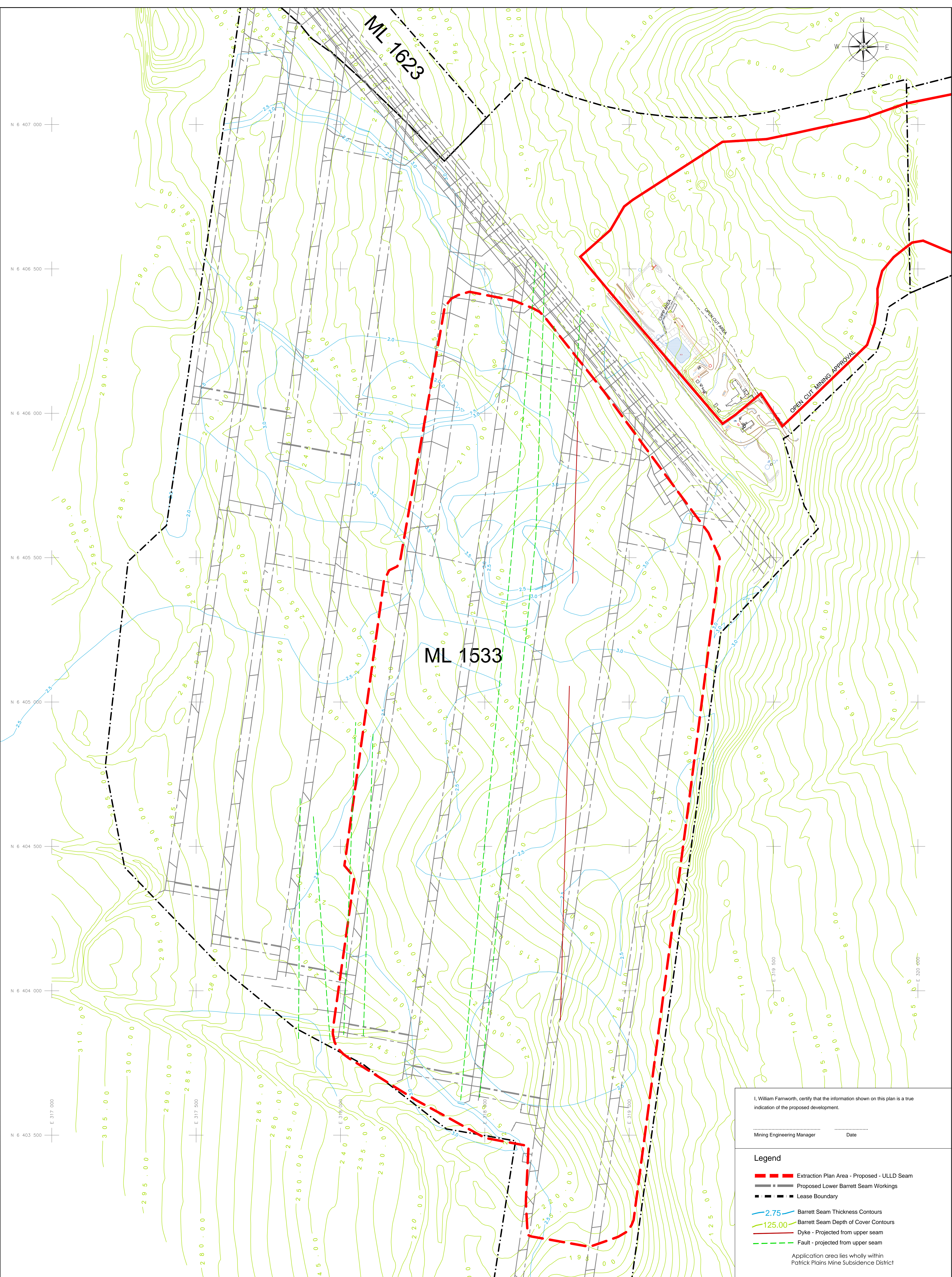
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ASHTON UNDERGROUND MINE
PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM
PLAN No.5 - Mining Titles and Land Ownership

| | | | | |
|------------|--------|-------|---------|----------|
| Date | Scale | Drawn | Checked | Approved |
| 27/10/2016 | 1:4000 | JJP | DL | WF |

Drawing No. C-4007
 Revision No. 1
 Sheet Size AO

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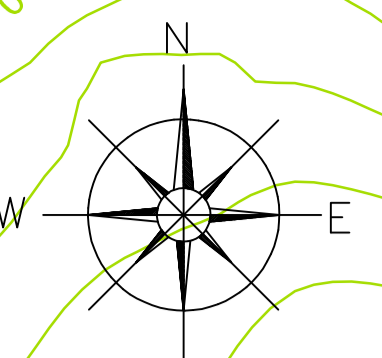
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 N 6 406 500
 N 6 406 000
 N 6 405 500
 N 6 405 000
 N 6 404 500
 N 6 404 000
 N 6 403 500

200 160 120 80 40 0 200 400 600 800 1000

All measurements are in metres

ML 1623

ML 1533



I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

.....
 Mining Engineering Manager Date

Legend

- - - - - Extraction Plan Area - Proposed - ULLD Seam
- - - - - Proposed Lower Barrett Seam Workings
- - - - - Lease Boundary
- ~ ~ ~ ~ ~ 2.75 Barrett Seam Thickness Contours
- ~ ~ ~ ~ ~ 125.00 Barrett Seam Depth of Cover Contours
- - - - - Dyke - Projected from upper seam
- - - - - Fault - projected from upper seam

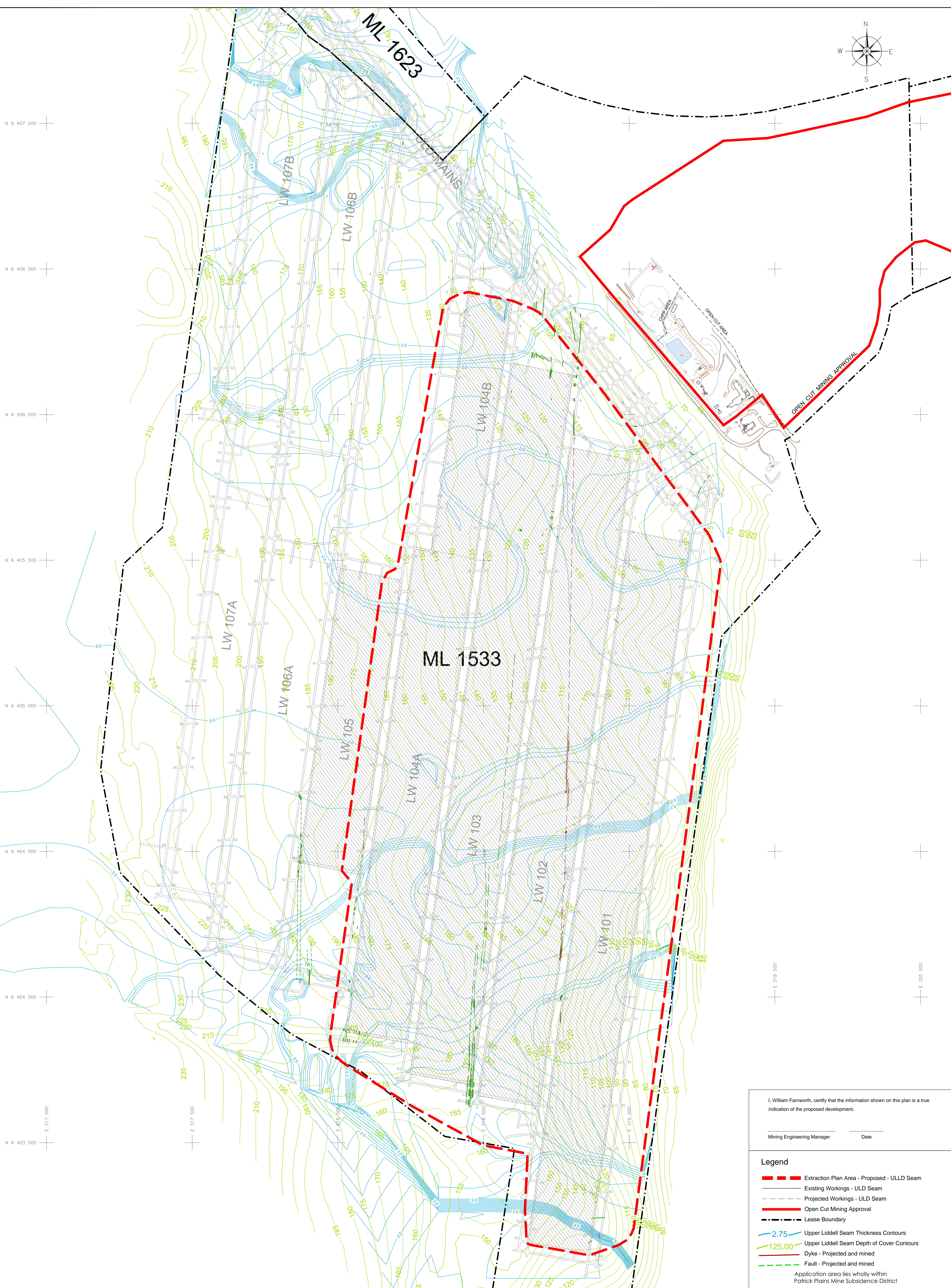
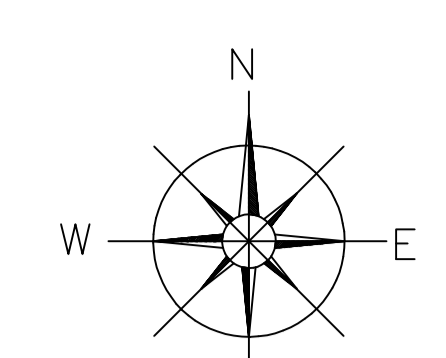
Application area lies wholly within Patrick Plains Mine Subsidence District

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ASHTON UNDERGROUND MINE
PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM
PLAN No.4c - Lower Barrett Seam Thickness & Depth of Cover Contours

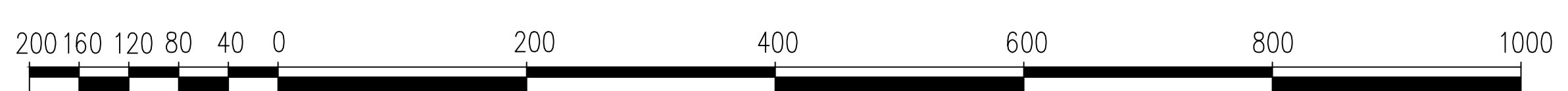
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| Date 27/10/2016 | Scale: 1:4000 | Drawn JJP | Checked DL | Approved WF |
|--------------------|------------------|--------------|---------------|----------------|

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| Drawing No. C-4006 |
| Revision No. 3 |
| Sheet Size A0 |



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All measurements are in metres

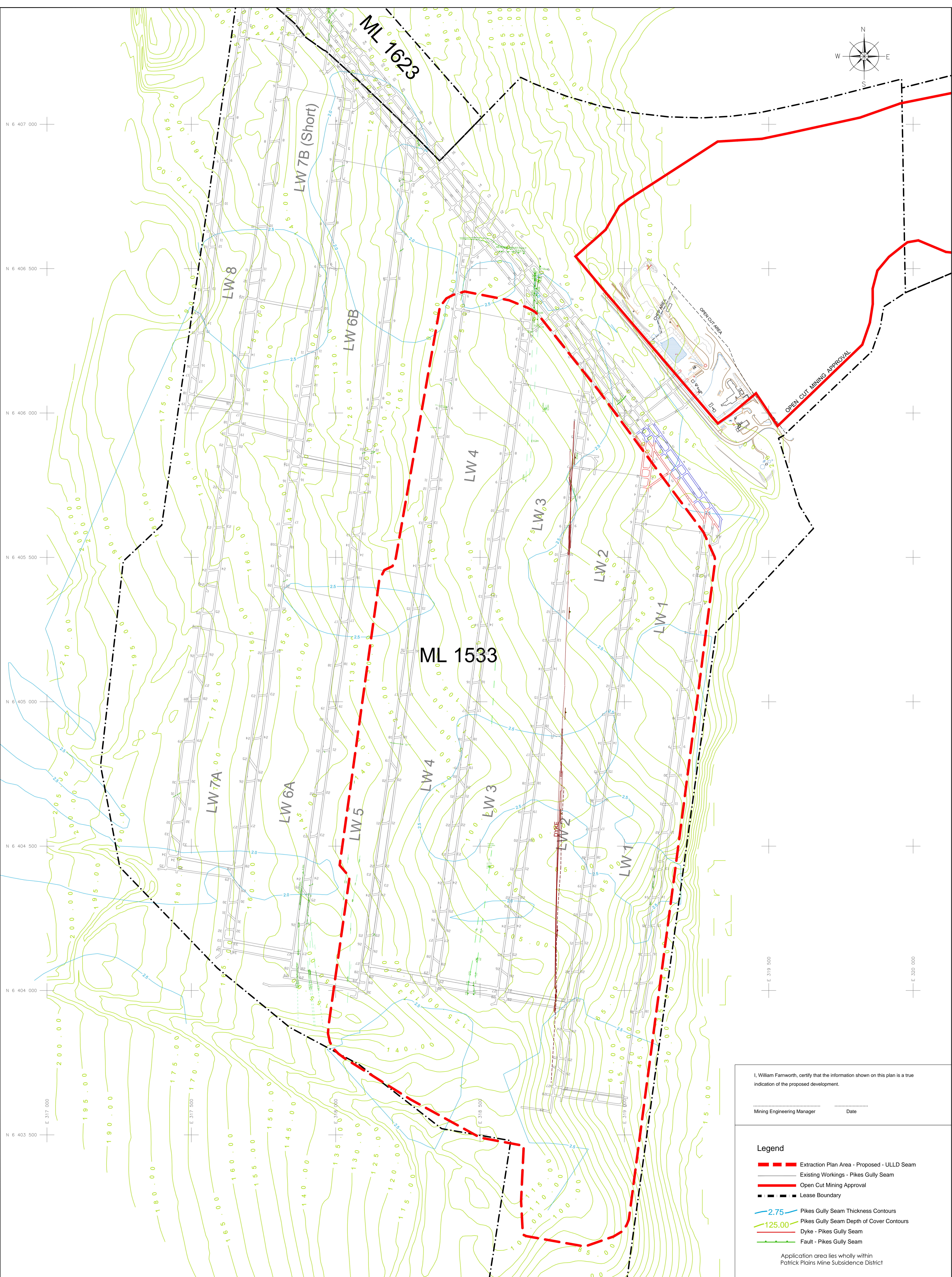
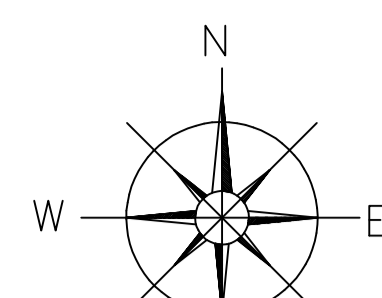
I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.
Mining Engineering Manager _____ Date _____

| Legend | |
|---|---|
| | Extraction Plan Area - Proposed - ULLD Seam |
| | Existing Workings - ULD Seam |
| | Projected Workings - ULD Seam |
| | Open Cut Mining Approval |
| | Lease Boundary |
| | 2.75 Upper Liddell Seam Thickness Contours |
| | 125.00 Upper Liddell Seam Depth of Cover Contours |
| | Dyke - Projected and mined |
| | Fault - Projected and mined |
| Application area lies wholly within Patrick Plains Mine Subsidence District | |

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| | | | | | |
|---|-----------------|--------------|---------------|----------------|-----------------------|
| ASHTON UNDERGROUND MINE PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM PLAN No.4b - Upper Liddell Seam Thickness & Depth of Cover Contours | | | | | |
| Date 27/10/2016 | Scale 1:4000 | Drawn JJP | Checked DL | Approved WF | Drawing No. c-4005 |
| | | | | | Revision No. 1 |
| | | | | | Sheet Size A0 |

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N 6 406 000
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N 6 405 000
N 6 404 500
N 6 404 000
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200 160 120 80 40 0 200 400 600 800 1000

All measurements are in metres

I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.
Mining Engineering Manager Date

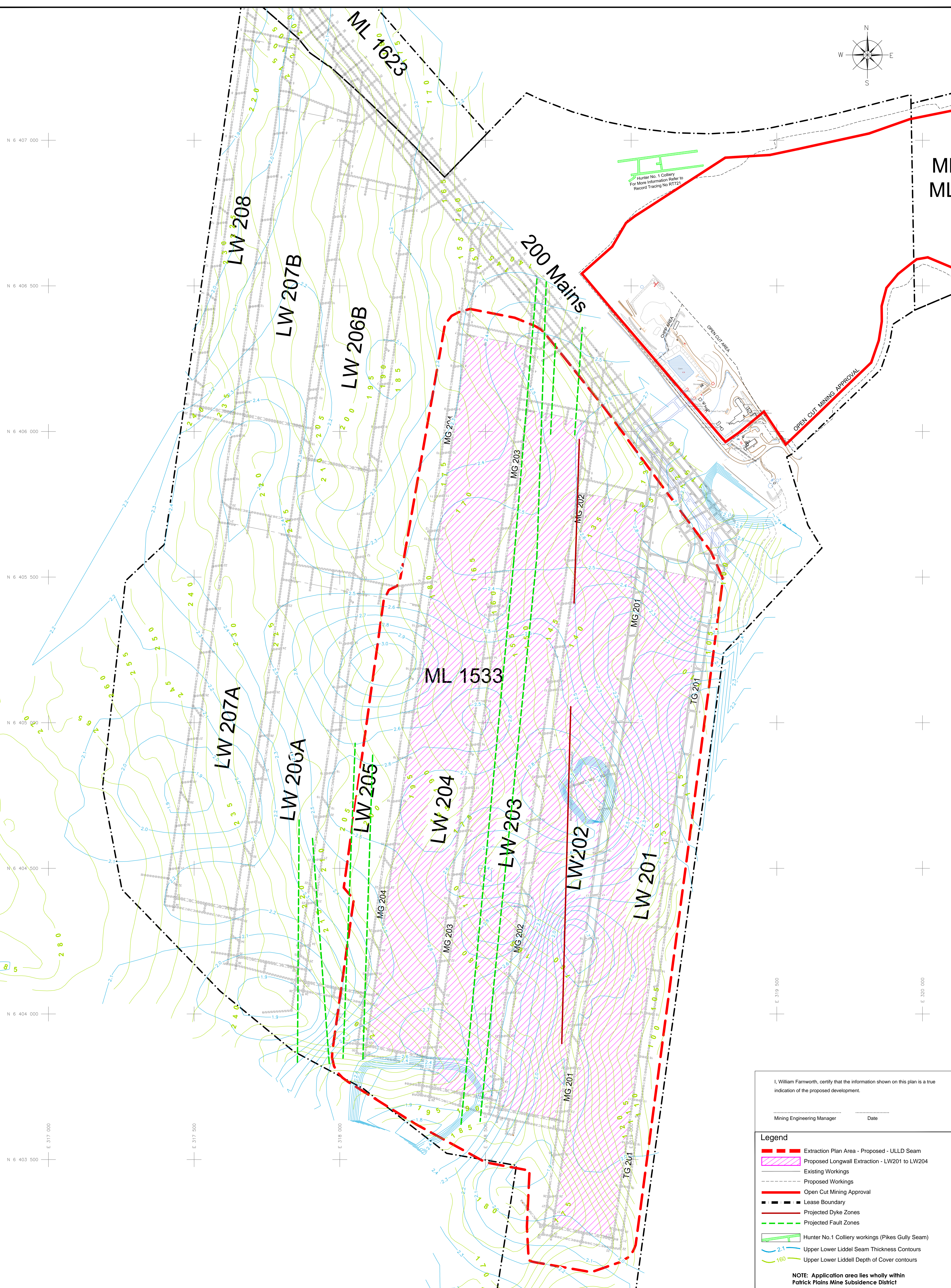
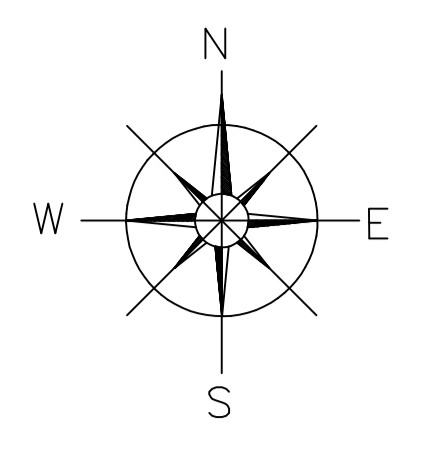
- Legend**
- Extraction Plan Area - Proposed - ULLD Seam
 - Existing Workings - Pikes Gully Seam
 - Open Cut Mining Approval
 - Lease Boundary
 - 2.75 Pikes Gully Seam Thickness Contours
 - 125.00 Pikes Gully Seam Depth of Cover Contours
 - Dyke - Pikes Gully Seam
 - Fault - Pikes Gully Seam
- Application area lies wholly within Patrick Plains Mine Subsidence District

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ASHTON UNDERGROUND MINE
PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM
PLAN No.4a - Pikes Gully Seam Thickness & Depth of Cover Contours

| | | | | | |
|------------|--------|-------|---------|----------|--------------|
| Date | Scale: | Drawn | Checked | Approved | Drawing No. |
| 27/10/2016 | 1:4000 | JIP | DL | WF | C-4004 |
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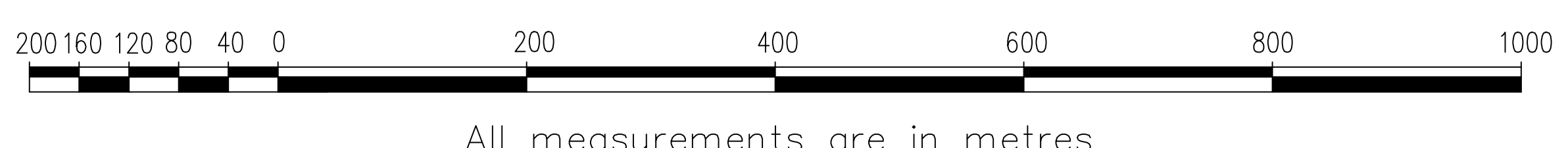
Hunter No. 1 Colliery
For More Information Refer to
Record Tracing No RT721

OPEN CUT MINING APPROVAL

I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.
Mining Engineering Manager Date

- Legend**
- Extraction Plan Area - Proposed - ULLD Seam
 - Proposed Longwall Extraction - LW201 to LW204
 - Existing Workings
 - Proposed Workings
 - Open Cut Mining Approval
 - Lease Boundary
 - Projected Dyke Zones
 - Projected Fault Zones
 - Hunter No.1 Colliery workings (Pikes Gully Seam)
 - Upper Lower Liddell Seam Thickness Contours
 - Upper Lower Liddell Depth of Cover contours

NOTE: Application area lies wholly within Patrick Plains Mine Subsidence District

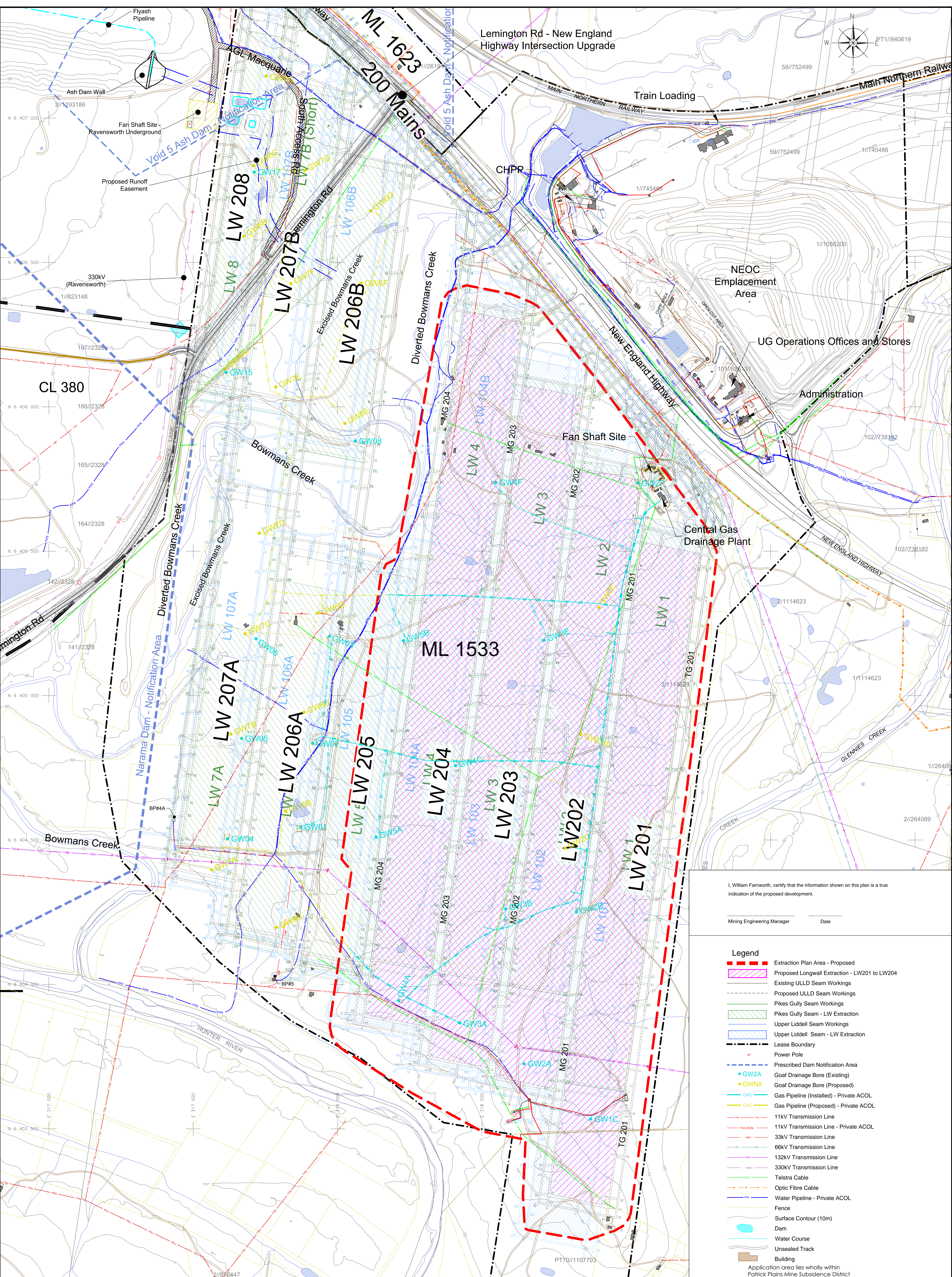


All measurements are in metres

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| | | | | | |
|--|--------|-------|---------|----------|--------------|
| ASHTON UNDERGROUND MINE | | | | | Drawing No. |
| PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM | | | | | C-4003 |
| Plan No.3 - Seam Thickness & Depth of Cover Contours | | | | | Revision No. |
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| Date | Scale: | Drawn | Checked | Approved | Sheet Size |
| 27/10/2016 | 1:4000 | JIP | DL | WF | AO |

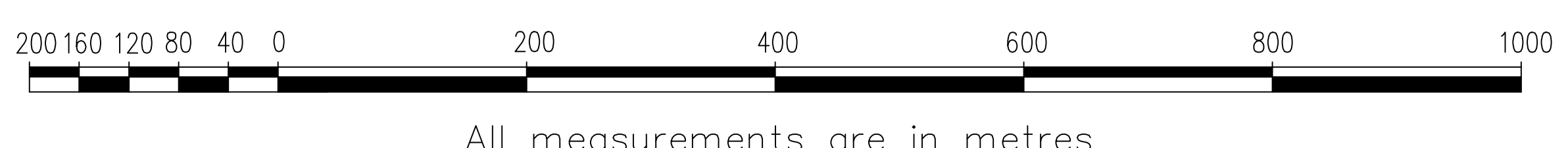
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I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

Mining Engineering Manager _____ Date _____

- Legend**
- Extraction Plan Area - Proposed
 - Proposed Longwall Extraction - LW201 to LW204
 - Existing ULLD Seam Workings
 - Proposed ULLD Seam Workings
 - Pikes Gully Seam Workings
 - Pikes Gully Seam - LW Extraction
 - Upper Liddell Seam Workings
 - Upper Liddell Seam - LW Extraction
 - Lease Boundary
 - Power Pole
 - Prescribed Dam Notification Area
 - Goaf Drainage Bore (Existing)
 - Goaf Drainage Bore (Proposed)
 - Gas Pipeline (Installed) - Private ACOL
 - Gas Pipeline (Proposed) - Private ACOL
 - 11kV Transmission Line
 - 11kV Transmission Line - Private ACOL
 - 33kV Transmission Line
 - 66kV Transmission Line
 - 132kV Transmission Line
 - 330kV Transmission Line
 - Telstra Cable
 - Optic Fibre Cable
 - Water Pipeline - Private ACOL
 - Fence
 - Surface Contour (10m)
 - Dam
 - Water Course
 - Unsealed Track
 - Building
- Application area lies wholly within Patrick Plains Mine Subsidence District



All measurements are in metres

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ASHTON UNDERGROUND MINE
 PROPOSED LW201 to LW204 - UPPER LOWER LIDDELL SEAM
 PLAN No.2 - Surface Features

| | | | | |
|------------|--------|--------|----------|-----------|
| Date | Scale: | Drawn: | Checked: | Approved: |
| 27/10/2016 | 1:4000 | JIP | DL | WF |

Drawing No. C-4002
 Revision No. 1
 Sheet Size AO

© 2016 Survey Drawings 4000 SMP Plan C-4002 ULLD LW201-204 Extraction - Plan 2.dwg

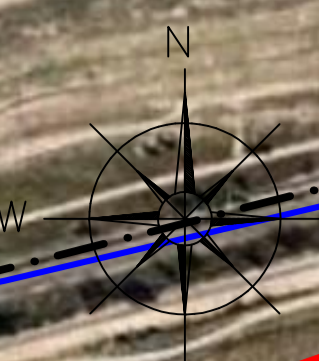
Ravensworth No. 2 Opencut
Mined Extent - Bayswater Seam
For More Information Refer to
Record Tracing No RT722 & RT722A

Ravensworth No. 2 Opencut
Mined Extent - Ravensworth Seam
For More Information Refer to
Record Tracing No RT722 & RT722A

Hunter No. 1 Colliery
Mined Extent - Barrett Seam
For More Information Refer to
Record Tracing No RT721

Ashton Opencut
Mined Extent - Barrett Seam
For More Information Refer to
Record Tracing No RT815

OPEN CUT MINING APPROVAL



All measurements are in metres

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ASHTON UNDERGROUND MINE
PROPOSED LW201 to LW204 - UPPER LOWER LIDELLE SEAM
PLAN No.1B - Extraction Area Boundary - Aerial

| | | | | |
|------------|--------|-------|---------|----------|
| Date | Scale: | Drawn | Checked | Approved |
| 27/10/2016 | 1:4000 | JJP | DL | WF |

| | |
|--------------|-----------|
| Drawing No. | c-4001-1b |
| Revision No. | 1 |
| Sheet Size | A0 |

I, William Farnworth, certify that the information shown on this plan is a true indication of the proposed development.

..... Mining Engineering Manager Date

- Legend**
- Extraction Plan Area - Proposed
 - Proposed Longwall Extraction - LW201 to LW204
 - Existing ULLD Workings
 - Proposed ULLD Workings
 - Open Cut Mining Approval
 - Lease Boundary
 - Development Consent Boundary
 - Pikes Gully Seam Workings
 - Pikes Gully Seam - LW Extraction
 - Upper Liddell Seam Workings
 - Upper Liddell Seam - LW Extraction
 - Ashton Open Cut (Barrett Seam)
 - Hunter No.1 Colliery workings (Pikes Gully Seam)
 - Ravensworth No. 2 Opencut (Bayswater Seam)
 - Ravensworth No.2 Opencut (Ravensworth Seam)
- Pillar Dimensions are Centre-line distances
• Void Dimensions are from ribline of goaf edge
- NOTE: Application area lies wholly within Patrick Plains Mine Subsidence District**