## TENGRAPH

Legend Document ver 2.2 (Updated 15<sup>th</sup> July 2014)

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## **Mining Tenure and Symbology**

Mineral Field and District Boundaries	•
Mining Tenement Number	M70/193
Dead Mining Tenement Number	<del>M70/193</del>
Inspection Compilation (Refer survey diag, Number is not on Pegs)	M70/193*
Mining Centre	KUNDANA
Granted Mining Tenements	
Pending Mining Tenements	<b>1</b>
The patterns and colours of features displayed in the Marking Out, Recent Activity, Tenement, Land, Survey, Native Title and Petroleum screens are shown in the Thematic Legend situated under the Windows	

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menu.

## Mining Act 1978

Application to Amalgamate	AM
Exploration Licence	E
Exploration Licence (Christmas Island)	ECI 70/
Exploration Licence (Cocos Keeling Island)	EKI 70/
General Purpose Lease	G
Mining Lease	М
Mining Lease (Christmas Island)	MCI 70/
Miscellaneous Licence	L
Restoration Pending	<i>RE</i>
Prospecting Licence	Р
Release Number Under Section 65	<i>RN08/</i>
Retention Licence	R 70/
Special Prospecting Licence	P70/193S

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#### Western Australian State Agreement Acts

Exploration Licence Special Agreement General Purpose Lease Special Agreement Mineral Lease Special Agreement Mining Lease Special Agreement Miscellaneous Licence Special Licence Lease Special Agreement AE 70/1...(E 1SA) AG 70/3...(G 1SA) AML 70/1...(ML 1SA) AM 70/258...(M 258SA) AL 70/2...(L 2SA) ASL 70/1...(SL 1SA)

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#### Western Australian Offshore Minerals Act 2003

Exploration Licence Offshore Mining Licence Offshore Retention Licence Offshore Special Purpose Consent Offshore Works Licence Offshore EOS 70/1...(WA-1-EOS) MOS 70/1...(WA-1-MOS) ROS 70/1...(WA-1-ROS) SOS 70/1...(WA-1-SOS) WOS 70/1...(WA-1-WOS)

## **Commonwealth Offshore Minerals Act**

CTWH Exploration Licence	MEL 70/
CTWH Mining Lease	MML 70/
CTWH Retention Licence	MRL
CTWH Special Purpose Consent	MSP
CTWH Works Licence	MWL

## **Old Commonwealth Offshore Minerals Act**

Minerals Exploration Permit	WEP 70/
Minerals Production Licence	WPL 70/
Mineral Works Authority	WWA

## Mining Act 1904

Alluvial Claim, Extended Alluvial Claim	AC, EAC
Business Area	BA
Coal Mining Lease	CML
Dam Site	DS
Dam Water Right	DWR
Dredging Lease, Claim	DL, DC
Furnace Area	FA
Garden Area	GA
Gold Mining Lease	Prefix GML is Omitted
Licence to Treat Tailings	LTT
Lode Claim	LC
Machinery Lease, Area	MyL, MA
Mineral Lease, Claim	ML, MC
Miners Homestead Lease	MHL
Pipe track Water Right	PTWR
Poultry Farm	PF
Prospecting Area	PA
Quarry Area	QA
Quartz Claim	QC
Residence Lease, Area	RL, RA
Reward Claim, Lease	RC, RL
Stream Water Right	SWR
Tailings Lease, Area	TL, TA
Temporary Reserve	TR
Tramway Lease	TyL
Washing Area	WA
Water Lease, Right	WL, WR
Well Site	WS

## **Mineral Field and District Codes**

District Code	Mineral Field	District	Prefix Code
	Ashburton		08
W	Broad Arrow		24
	Collie River		12
	Coolgardie	Coolgardie	15
S		Kunanalling	16
	Dundas		63
E	East Coolgardie	East Coolgardie	26
Y		Bulong	25
	East Murchison	Lawlers	36
J		Wiluna	53
В		Black range	57
	Gascoyne		09
	Greenbushes		01
	Kimberly		80
Т	Mt Margaret	Mt Margaret	38
F		Mt Morgans	39
С		Mt Malcolm	37
	Murchison	Cue	20
D		Day Dawn	21
Μ		Mt Magnet	58
N		Meekatharra	51
	Northhampton		66
Z	North Coolgardie	Menzies	29
U		Ularring	30
R		Yerilla	31
G		Niagara	40
X	North E. Coolgardie	Kanowna	27
K		Kurnalpi	28
Р	Peak Hill		52
	Pilbara	Marble bar	45
L		Nullagine	46
	Phillips River		74
	West Kimberly		04
	West Pilbara		47
	Yalgoo		59
	Yilgarn		77
Н	Southwest		70
OP	Warburton		69

## **Petroleum Act Titles**

#### State Onshore Titles PGERA67 (Petroleum and Geothermal Energy

Resources Act of 1967) (Mainland and Coastal Waters)	<u> </u>
Petroleum Lease (1936 Act)	L1H
Production Licence	L
Exploration Permit	EP
Exploration Permit Application	Appl 5/07-8 EP
Production Licence Application	Appl 5/07-8 L
Drilling Reservation Application	Appl 5/07-8 DR
Infrastructure Licence Application	Appl 5/07-8 IL
Retention Application	Appl 5/07-8 R
Retention Lease	R
Drilling Reservation	DR
Special Prospecting Authority	SPA
Infrastructure Licence	IL
<u>Geothermal Tenure</u>	
Geothermal Exploration Permit	GEP
Geothermal Production Licence	GL
Geothermal Retention Lease	GR
Geothermal Drilling Reservation	GDR
Geothermal Special Prospecting Authority	GSPA
Geothermal Infrastructure Licence	GIL
Geothermal Exploration Permit Application	Appl 2/07-8 GEP
Geothermal Production Licence Application	Appl 2/07-8 GL
Geothermal Retention Lease Application	Appl 2/07-8 GR
Geothermal Drilling Reservation Application	Appl 2/07-8 DR
Geothermal Infrastructure Licence Application	Appl 2/07-8 GIL
Pipeline Licences	DI
State Onshore Pipeline Licence (Petroleum Pipeline Act, 1969)	PL
Territorial Sea Pipeline Licence	TPL
Pipeline Licence	WA-6-PL
State Offshore P(SL)A82	
Territorial Sea Production Licence	TL
Territorial Sea Exploration Permit	TP
Territorial Sea Retention Lease	TR
Infrastructure Licence	TIL

# Commonwealth Offshore OPGGSA06 (Offshore PetroleumGreenhouse Gas Storage Act 2006)Production LicenceWExploration PermitW

Retention Lease Infrastructure Licence WA-1-L WA-1-P WA-1-R WA-1-IL

#### **Release Areas**

State Onshore PGERA1967 Release (Petroleum Discrete) Area	L08-5
State Onshore PGERA1967 Release (Geothermal Discrete) Area	G08-5
State Offshore P(SL)A1982 Release (Petroleum Discrete) Area	T08-5
Commonwealth Offshore OPGGSA2006 (Petroleum Discrete) Area	W08-5

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## Land Tenure Symbology

Agricultural Estate Area, Suburban Area	XX
Agricultural, Estate Lot Number	122
Baseline (Inner Limit of Territorial Sea)	<b></b> •• <b></b> •• <b>_</b> _
Crown Location Number	139
Crown Location Number Broken	139
Drainage District	)(
Freehold Land - Crown and LTO	139 or <i>139</i>

#### Lease Types - Land Administration Act 1997

General Lease (number)	<b>GE A123456</b>
Reserve Lease (number)	<b>RL A123456</b>
Purchase Lease (number)	PU A123456
Aboriginal Lease (number)	AB A123456
Pastoral Lease (number)	PL A123456

#### Lease Types – Land Act 1933

	JEEDAMYA
Pastoral Lease Name and Number	3114
	1121
Pastoral Lease Name (to year 2015) and Number	398
Special Purpose Lease (number)	3116

General Lease (number)	3117
Reserve Lease (number)	332
Purchase Lease (number)	386
Conditional Purchase Lease (number)	347
Govt Agency Lease (number)	37
Aboriginal Lease (number)	39

Irrigation District Land District	)(
Local Authority	·
Low Water Mark	••••
Marine Park Reserve	0
Outer Limit Territorial Sea	_•_•_•_•_•
Reserve; Land Act & Forest Act.	<b>小</b> 12345, F <b>小</b> 146
State Forest	++
Surveyed Boundary	
Townsite	X
Unsurveyed Boundary	
Unallocated Crown Land, (Vacant Crown Land)	UCL, (VCL)
Water Catchment Area	———)(———
Water Reserve and Named Water reserve	

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## **Abbreviations and Symbols**

No Labels	Some large entities such as native title claims have no labels on the graphics - refer to the status bar for identity
PD	Position Doubtful
PR	Position reliable
Abd	Abandoned
PT	PT indicates part of an entity which may or may not have an associated vinculum
Road Names	The convention used is the from and to principle
Punctuation	Is not used unless it is essential for correct understanding eg. G.O Bore, O'Loughlin
Label Repetition	Large Polygons have more than one label displayed
	Arrow is a position indicator for text unable to be shown within a polygon
-	Vinculum to link polygon severances together
$\Delta$	Horizontal Control
LD	Land District
MF	Mineral field

Calc	Exploration License boundary accurately defined by survey calculation (may not apply to all boundaries)
UC	Uncertified Surveyed Tenement

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## **Major Topographic Symbology**

#### Transport/Communication

Ť	Aircraft Landing Ground
	Airfield Runway
<b>*</b>	Airport
	Major Road
	Minor Road
$\overset{\sim}{\sim}$	Tower/Mast (Yellow in Tengraph)
	Transmission Line (Yellow in Tengraph)
	Railway Single/Multi Rail

#### Cultural

Eg. Outhere	Locality / Place Name
0	Tank
0	Tank Outline
ð	Tank with Windmill
0	Well/Bore
X	Well/Bore with Windmill
Ť	Windmill

#### Relief

- Feature Identification Point
- Single Rock Non Hydrographic
- Landmark Point Feature

#### Hydrology

•	Coastal Feature Coastal Waterline
0	Major Coastal Feature
	Major Watercourse (non-permanent) Major Watercourse (permanent)
	Named lakes (non permanent) Named lakes (permanent)

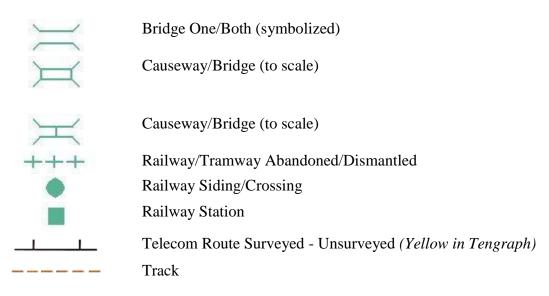
#### Mining

	Tailing Dumps Archive Minesite
KANOWNA	Mining Centre
Ø	Oil Well / Oil Tank (Yellow)

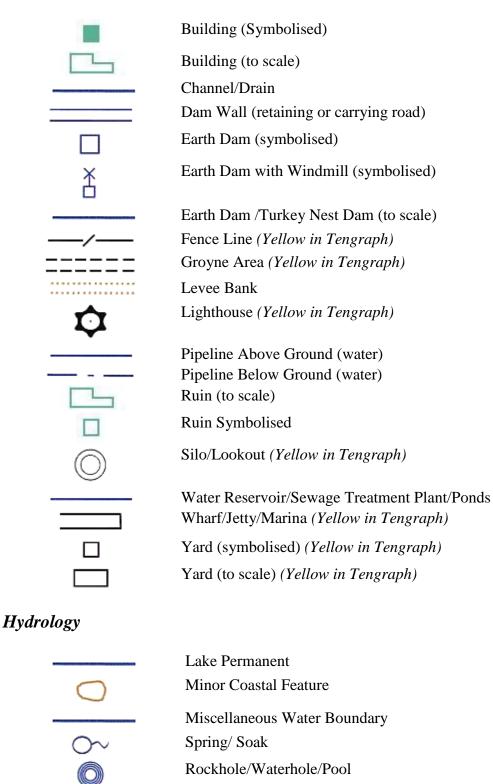
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## **Minor Topographic Symbology**

#### Transport/Communication



#### Cultural



#### Mining



Pipeline below ground (not water) (Yellow in Tengraph) Pipeline above ground (not water) (Yellow in Tengraph) Quarry/Mullock

Tailings Pond/Settling Pond

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## **Detailed Topographic Features**

#### **Transport/Communication**

Cutline/Fire Break/Seismic Survey Line

Cultural

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Race Track

Relief

	Cliff
<del></del>	Breakaway
<u> </u>	Rockridge
	Rock Outcrop (Large)
	Rock Outcrop (Small)
0	Rock Outcrop (Small) Sand Area

#### Hydrology

	Braided Stream Area
>	Flow Arrow (non- permanent/symbolised)
>	Flow Arrow (permanent/symbolised)
	Foreshore Flats
	Named Claypan
	Lake (non- permanent)
+	Offshore Rock

	Mangrove boundary
×2	Mangrove
	Marsh Area (Similar to swamp)
	Minor Watercourse (non-permanent)
	Minor Watercourse (permanent)
$\gg$	Rapids
	Reef
1	Swamp (non-permanent)
$\checkmark$	Swamp Permanent
0	Swamp Marsh Area (non-permanent)
$\bigcirc$	Tidal Flats
	Waterfall

Mining

<		$\supset$	
_	_		

Salt Evaporator (Yellow in Tengraph) Sand/Gravel Pit Conveyor (Yellow in Tengraph)

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## **Topographic Abbreviations**

Bore	В
Brook	Bk
Creek	Ck
Dam	D
Gnamma Hole	GH
Gully	Gy
Headland	Hd
Highway	Hwy
Inlet	In
Island	Ι
Islands	Is
Kilometre	Km
Lake	L

Microwaya Dopastor Station	MRS
Microwave Repeater Station Mount	Mt
Mountains	Mts
	Pass
Passage (Hydro Only)	
Peak	Pk
Peninsula	Pen
Plateau	Plat
Point	Pt
Pool	Р
Railway	Rly
Range	Ra
Reef	Rf
Reservoir	Resvr
River	R
Road	Rd
Rock	Rk
Rock Hole	RH
Siding	Sdg
Soak	Sk
Spring	S
Springs	Sps
Strait	Str
Tank	Т
Waterhole	WH
Well	W
Yard	Y
	-

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## Land Category Abbreviations

*Special Land Categories* - (For more detailed descriptions of Special Land Categories and Proposals please refer to the online document 'Description of Land Type Categories').

## **Abbreviation examples**

Aerial Landing Ground Agriculture Cemetery Church **Community Welfare Purposes** Conservation Country Automatic Exchange Site Excepted or Exempt from Sale Foreshore Flora and Fauna Geological Monument Management Government Historical Landscape Protection National Park Preservation of Natural Formations Protection of Geological Monument Public Public Utility **Rabbit Proof Fence** Railway **Recreation and Parkland Rehabilitation** Repeater Requirements Rubbish Sanitary School Sewage Pumping Station Station **Stopping Place** Transmitter Trigonometrical Use and Benefit of Aboriginal Inhabitants Use and Requirements of the Minister for Works Waste Water Treatment Site

Air Ldg Grd Agric Cemt Chur Com Wel Purp Cons CAX E S Fshore FL & F Geol Mon Mgmt Govt Hist Land Prot Nat Pk Pres of Nat Form Prot of Geol Mon Pub PU RPF Rly Recn & Park rehab Rept Reqt Rub Sani Sch Sew Pump Stn Stn Stop Pl Trans Trig U & B of AB Inh U & Req of Min Works W W Treat Site

## Minedex Sites for Tengraph Display

K	Mineral deposit/Exploration Site (open pit, underground, both, tailings re-treatment)
X	Mine open pit, under developed or operating
×	Mine open pit, care and maintenance or shutdown
X	Mine underground, under development or operating
*	Mine underground, care and maintenance or shutdown
$\otimes$	Mine both, under development or operating
$\bigotimes$	Mine both, care and maintenance or shutdown
$\times$ $\times$ $\times$ $\times$ $\times$ $\times$ $\times$ $\land$ $\checkmark$ $\checkmark$	Process/Power plant or handling facility; under development or operating ; Powerplant
Z	Process/Power plant or handling facility; care and maintenance
	Mine tailings retreatment, under development or operating
	Mine tailings retreatment, care and maintenance or shutdown
1	Historical Minesite (Pre 1986 gold mine or pre 1989 non-gold mine)
Ts	Tailings Storage Facility, under development or operating
K	Tailings Storage Facility, care & maintenance or shutdown
$\triangle$	Abandoned Minesite

## **Data Provisions - Acknowledgments**

The provision of data from the following agencies is acknowledged.

Landgate - Geonoma Feature Names, Cadastral, Topographic and Native Title Information.

Geoscience Australia, (GA) - *Topographic Information and Australian Maritime Boundaries*.

Australian Army - Topographic Information.

Department of Parks and Wildlife, (DPaW) - *Proposal and Special Category Land Information*.

Department of Water, (DOW) - Proposal and Special Category Land Information.

Western Power - Carrier Information.

Alinta - Carrier Information.

Telstra Corporation Limited - Carrier Information.

Public Transport Authority of WA - Rail Corridor Information.

Department of Fisheries - Aquaculture - Pearling Leases/Licenses.

#### **Tengraph Disclaimer**

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