

Fourth Affidavit of Sean Nelson Costello

WAD 37 of 2022

Federal Court of Australia

District Registry: Western Australia

Division: General

YINDJIBARNDI NGURRA ABORIGINAL CORPORATION RNTBC

Applicant

STATE OF WESTERN AUSTRALIA & ORS

Respondents

Affidavit of:

Sean Nelson Costello

Address:

c/ Fortescue Metals Group, Level 2, 87 Adelaide Terrace, East Perth WA

6004

Occupation:

Geospatial Analyst

Date:

16 February 2024

FMG Pilbara Pty Ltd, Pilbara Energy (Generation) Pty Ltd, Pilbara Energy Company Pty Ltd, Pilbara Gas Pipeline Pty Ltd and The Pilbara Infrastructure

Filed on behalf of (name & role of party) Prepared by (name of person/lawyer)

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- I, Sean Nelson Costello, c/- Fortescue Metals Group, Level 2, 87 Adelaide Terrace, East Perth WA 6004, geospatial analyst, make oath and say as follows:
- 1. I am currently employed by Fortescue Metals Group Ltd (FMGL) as Lead Geospatial Analyst. FMGL is the holding company of a number of related companies including the 2nd to 6th respondents (FMG Respondents) in this case (together FMG).
- 2. I am authorised to make this affidavit on behalf of the FMG Respondents.
- 3. Unless otherwise stated, the facts contained in this affidavit are within my own knowledge and are true.
- 4. This is my fourth affidavit in these proceedings. The purpose of this affidavit is to outline the source of certain data which was prepared by FMG for provision to FMG's expert witnesses in these proceedings.

Information regarding FMG Tenements

- 5. I have been shown a spreadsheet titled "20230821 FMG Tenement Data and EL Overlap Change Analysis.xlsx" (August Spreadsheet). A copy of the August Spreadsheet is attached and marked "SNC-17".
- 6. I did not create the August Spreadsheet. The August Spreadsheet contains data that was extracted from FMG's records by a member of FMG's Geographical Information System (GIS) team who is currently on maternity leave.

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- Shortly after the preparation of the August Spreadsheet, I was asked to review the August Spreadsheet for the purpose of confirming that the data contained within that spreadsheet was correct. Save for the errors identified at paragraph 10 below, I consider that the data contained within that spreadsheet is correct.
- 8. In relation to each of FMG's mining leases, miscellaneous licences and prospecting licences in the Solomon Mine area, the August Spreadsheet set out the size of each individual tenement, and the extent to which those tenements fell within the Yindjibarndi compensation application area, as at the date of grant of the relevant tenement. That information is set out in the worksheets named "Mining Leases", "Miscellaneous Licences", and "Prospecting Licences".
- 9. In relation to FMG's exploration licences, the August Spreadsheet relevantly set out (in the worksheets named by reference to the relevant exploration licence), amongst other matters, the size of each exploration licence, and the extent to which that exploration licence fell within the compensation application area, as at the date on which the relevant exploration licence was granted.
- 10. As part of my review of the August Spreadsheet referred to in paragraph [7] above I became aware of several errors which I corrected when preparing the spreadsheet which is annexed to my third affidavit in these proceedings and marked "SNC-16", and to which I refer to as the "Final Spreadsheet" in that affidavit. Specifically:
 - (a) the grant date of exploration licence E47/1319 is incorrectly listed (in cell B21) as 2 June 2007, rather than the correct date of 16 March 2012 (as listed in cell B3);
 - (b) the area of mining lease M47/1475 is incorrectly identified as 809 ha, rather than 525.4 ha; and
 - (c) the area of tenement L 1SA which fell within the compensation application area as at its date of grant is incorrectly identified in the August Spreadsheet. Tenement L 1SA was first granted on 29 November 2006, but at that time no part of L 1SA fell within the compensation application area. This is because the tenement area of L1SA changed over time as the relevant mining project areas (to be serviced by the railway) became more precisely defined and developed.

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11. Other than these issues, I consider that the data contained in the August Spreadsheet is correct.

Groundwater Map

- 12. On or around 31 January 2024, I was requested by Mr Michael Carroll, a member of FMG's Hydrogeology team to prepare a map showing the geological surrounds of the Solomon Hub Mine, as well as the locations of certain monitoring bores and flora sampling species. Mr Carroll provided me with a project package file containing spatial data specifying flora species locations, the native title determination boundary, and the locations of bores containing groundwater data. This data was depicted on a raster geology base map. I explain raster data at paragraph 8 of my affidavit dated 30 June 2023 (First Affidavit).
- 13. To prepare that map, I opened the project package provided by Mr Carroll in the GIS software, ArcGIS Pro, and copied the data (other than the raster geology base map) from the project package into a new project file to generate a new map. In the new map, I added the equivalent geology vector data to ensure that the geological formations could be identified in the legend and then I formatted the labels to ensure that they were clear and identifiable. I explain vector data at paragraph 8 of my First Affidavit.
- 14. On 1 February 2024, I issued a map titled "Regional Groundwater Level Monitoring" in accordance with the request from Mr Carroll. I have been shown a map titled "Regional Groundwater Level Monitoring", which I am informed will be produced by FMG as an annexure to an affidavit in these proceedings. I confirm that the map titled "Regional Groundwater Level Monitoring" is the map I prepared at the request of Mr Carroll.

Sault 10

Sworn by Sean Nelson Costello
At East Perth
in the State of Western Australia
on 16 February 2024

Signature of deponent

Before me:

Signature of witness

KALL WELVER

a legal practitioner who has held a practice certificate for at least 2 years and who holds a current practice certificate.

"SNC-17"

WAD 37 of 2022

Federal Court of Australia

District Registry: Western Australia

Division: General

YINDJIBARNDI NGURRA ABORIGINAL CORPORATION RNTBC

Applicant

STATE OF WESTERN AUSTRALIA & ORS

Respondents

This is the annexure marked **SNC-17** referred to in the affidavit of Sean Nelson Costello sworn on 16 February 2024.

Signature of witness

KARL WELKER

a legal practitioner who has held a practice certificate for at least 2 years and who holds a current practice certificate.

Core Details
Tenement ID
Grant Date
Type
Holder E47-1333 28/07/2007 0:00 Exploration Licence FMG Pilbara Pty Ltd

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha)

666 89595 666 895874 0 00007

At Gurrent
Tenement Area within YiN (ha)
Area within YiN not overlapped (ha)
Area within YIN overlapped (ha)

527.60969 527.60968 0.00001

Timeline	Date	Date (extracted)	Ten Area	Increase of Decrease	Impact on Ten Area (Govt)	Ten Area Post-Impact (Govt)	Ten Area within YIN	Increase of Decrease	in the	npact on Ten Area within YIN (FMG)	Ten Area within YIN post-impact (FMG)
Grant	28/07/2007 0:00	4/12/2006 0:00	16039,73117	NA	0.00000	16039.73117	The second secon	666 89595	N/A	0.00000	666.89595
Conversion	3/02/2011	6/08/2011 0:00	12457 34169	Decrease	3582 38949	12457 34169		531 97812	Decrease	134 91783	531 97612
Conversion	10/12/2021	30/03/2022 0:00	10847 97093	Decrease	1609.37076	10847 97093	1	527 61080	Decrease	4.36732	527 61080
CURRENT	1/06/2023	25/04/2023 0:00	10847 95585	Decrease	0 01508	10847 95585		527 60969	Decrease	0.00111	527 60969

Core Details Tenement ID Grant Date Type Holder E 47/1334 2/06/2007 0:00 Exploration Licence FMG Pilbara Pty Ltd

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 9514 28937 5279 725586 4234 56397

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 1198 79537 726 62402 472 17136

Timeline	Date	Date (extracted)	Ten Area	Increase of Decrease	Impact on Ten Area (Govt)	Ten Area Post-Impact (Govf)	Ten Area within YiN		Impact on Ten Area within YIN (FMG)	Ten Area within YIN post-impact (FMG)
Grant	2/06/2007	4/12/2008 0:00	17118 64081	N/A	0.0000	17118 64081	9514.289	37	0,00000	9514,28937
Conversion	28/11/2010	6/06/2011 0:00	9972 57706	Decrease	7146 06375			Decrease		4400 63907
Conversion	8/07/2011	21/09/2011 0:00	8666 77476	Decrease	1305 80230	8666 77476			1305,70701	3094 93206
Partial Expiry	22/11/2012	8/01/2013 0:00	5728 09520	Decrease	2938 67956	5728 09520		24 Decrease	5,57182	3069.36024
Conversion	17/01/2013	29/01/2013 0:00	5002 79834	Decrease	725 29686	5002,79834	2364.064	17 Decrease	725 29607	2364.06417
Conversion	29/08/2014	12/06/2015 0 00	4429 48435	Decrease	573 31399	4429 48435	1791.981	44 Decrease	572,08273	1791.98144
Partial Expiry	3/12/2018	5/12/2018 0 08	3799 40621	Decrease	630,07814	3799 40621	1109 350	38 Decrease	682.63106	1109.35038
CURRENT	1/06/2023	25/04/2023 0 00	3928 09185	Increase	128 68564	3928 09185	1198.795	37 Increas	89 44498	1196 79537

18/02/2024 3 0096539-0000106 SYO1; 2002943710: 1

Core Details
Tenement ID
Grant Date
Type
Holder E47-1398 8/07/2011 0:00 Exploration Licence FMG Pilbara Pty Ltd

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha)

21511 69342 18358 51953 3153 17407

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 21390 05415 18424 51563 2985 53857

Timeling	Date	Date (extracted) Te	n Area	increase of Decrease Impac	t on Ten Area (Govi) Ten	Area Post-Impact (Govt) Ten Area v	within YIN Increase of Decrease	Impact on To	en Area within YIN (FMG) Te	n Area within YIN post-impact (FMG)
Grant	8/07/2011 0 00	21/09/2011 0.00	21619.19206	N/A	0.00000	21619 19296	21511 69342	NA	0.00000	21511.69342
CURRENT	1/06/2023	25/04/2023 0:00	21497 55145	Decrease	121.64061	21497 55145	21390 05415	Decrease	121.63927	21390,05415

Core Details
Tenement ID
Grant Date E47-1399 8/07/2011 0:00 Exploration Licence FMG Pilbara Pty Ltd Type Holder

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 6203.47034 6004.729981 198.74036

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 6203,47034 6013,85791 189,61243

Timeline	Date	Date (extracted) Ten Area	Increase of Decrease	Impact on Ten Area (Govt)	Ten Area Post-Impact (Govt)	Ten Area within YIN	Increase of Decrease	Impact on Ten Area within Y	Ten Area within YIN post-impact (FMG)
Grant Date	8/07/2011 0:00	21/09/2011 0:00 21565.47903	N/A	0.00000	21565.47903	6203,47034	N/A	0.00000	6203.47034
Partial Expiry	15/08/2019	28/08/2019 0:00 19699.11852	Decrease	1866.36052	19699.11852	6203,47034	Nil	0.0000	6203 47034
Сиптепт	1/06/2023	25/04/2023 0:00 19699 11956	Increase	0,00104	19699.11956	6203.47034	Nil	0.00000	6203 47034

Core Details
Tenement ID
Grant Date E47-1447 2/06/2007 0:00 Exploration Licence FMG Pilbara Pty Ltd Type Holder

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 10153.41186 7439.945801 2713.46607

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 7598,94814 7153,37549 445,57266

Timeline	Date	Date (extracted)	Ten Area	Increase of Decrease	Impact on Ten Area (Govt) Ten Ar	ea Post-Impact (Govt)	Ten Area within YIN	Increase of Decrease	Impact on Ten Area within	Ten Area within YIN post-impact (FMG)
Grant Date	2/06/2007 0:00	4/12/2008 0:00	10153.41691	N/A	0.00000	10153.41691		N/A	0,00000	10153,41186
Conversion	8/07/2011	21/09/2011 0:00	8058,66258	Decrease	2094.75432	8058.66258	8058.65911	Decrease	2094.75274	8058.65911
Conversion	29/08/2014	29/05/2015 0:00	7598.95817	Decrease	459.70441	7598 95817	7598.95443	Decrease	459.70468	7598 95443
Current	1/06/2023	25/04/2023 0:00	7598 95256	Decrease	0.00561	7598.95256	7598.94814	Decrease	0,00629	7598.94814

Core Details
Tenement ID
Grant Date
Type
Holder E47-3205 21/09/2016 0:00 Exploration Licence FMG Pilbara Pty Ltd

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 5117.99744 5117.998047 -0.00061

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 613.92601 613.92603 -0.00002

Timeline	Date	Date (extracted)	Ten Area	Increase of Decrease	Impact on Ten Area (Govt)	Ten Area Post-Impact (Govt)	Ten Area within YIN	Increase of Decrease	Impact on Ten Area within YIN (FMG)	Ten Area within YIN post-impact (FMG)
Grant Date	21/09/2016 0:00	21/09/2016 0:00	5118.57003	N/A	0.00000	5118.57003	5117,99744	N/A	0,00000	5117.99744
Voluntary Partial Surrender	11/09/2020	16/09/2020 0:00	614.32691	Decrease	4504.24312	614.32691	613.92601	Decrease	4504.07144	613,92601
Current	1/06/2023	25/04/2023 0:00	614.32723	Increase	0.00032	614 32723	613,92601	Ni	0.00000	613.92601

Core Details
Tenement ID
Grant Date
Type
Holder E47-3464 24/02/2017 0:00 Exploration Licence FMG Pilbara Pty Ltd

At Grant
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 773.73549 594.9066772 178.82881

At Current
Tenement Area within YIN (ha)
Area within YIN not overlapped (ha)
Area within YIN overlapped (ha) 903.27058 713.65094 189.61964

Timeline	Date	Date (extracted) To	en Area 1	ncrease of Decrease	Impact on Ten Area (Govt)	Ten Area Post-Impact (Govt)	Ten Area within YIN	Increase of Decrease	Impact on Ten Area within YIN (FMG)	Ten Area within YIN post-impact (FMG)
Grant Date	24/02/2017 0:00	13/03/2017 0:00	1996.78987	N/A	0,00000	1996.78987		N/A	0.00000	
Current	1/06/2023	25/04/2023 0:00	2133,58926	Increase	136.79939	2133.58926	903.27058	Increase	129.53509	903.27058

TENEMENT ID	TENEMENT STATUS	HOLDER	GRANT DATE	DATA EXTRACT DATE	AREA OF TENEMENT (Ha) AS AT GRANT DATE	AREA OF TENEMENT WITHIN COMPENSATION APPLICATION AREA (Ha) AS AT GRANT DATE
M 47/1409-I	LIVE	FMG PILBARA PTY LTD	26/11/2010 0:00	6/06/2011 0:00	6838.03986	5061.54188
M 47/1411-I	LIVE	FMG PILBARA PTY LTD	26/11/2010 0:00	6/06/2011 0:00	3500.46909	174.22627
M 47/1413-I	LIVE	FMG PILBARA PTY LTD	26/11/2010 0:00	21/09/2011 0:00	1037.11515	1037.09801
M 47/1431-I	LIVE	FMG PILBARA PTY LTD	8/07/2011 0:00	21/09/2011 0:00	2964.65640	2964.59224
M 47/1453-I	LIVE	FMG PILBARA PTY LTD	17/01/2013 0:00	29/01/2013 0:00	725.26216	725.25855
M 47/1473	LIVE	FMG PILBARA PTY LTD	29/08/2014 0:00	9/09/2014 0:00	485.12898	485.12786
M 47/1475	LIVE	FMG PILBARA PTY LTD	29/08/2014 0:00	9/09/2014 0:00	809.09491	809.09606
M 47/1513-I	DEAD	FMG PILBARA PTY LTD	3/12/2018 0:00	5/12/2018 0:00	700.07001	700.05836
M 47/1570	LIVE	FMG PILBARA PTY LTD	31/03/2020 0:00	1/04/2020 0:00	1032.39996	1032.36677

TENEMENT ID	TENEMENT STATUS	HOLDER	GRANT DATE	DATA EXTRACT DATE	AREA OF TENEMENT (Ha) AS AT GRANT DATE	AREA OF TENEMENT WITHIN COMPENSATION APPLICATION AREA (Ha) AS
L 47/302	DEAD	FMG PILBARA PTY LTD	5/06/2009 0:00	23/08/2010 0:00	246.91476	AT GRANT DATE 246.91546
L 47/361	LIVE	FMG PILBARA PTY LTD	11/10/2011 0:00			
L 47/362	LIVE	FMG PILBARA PTY LTD	3/05/2011 0:00			
L 47/363	LIVE	FMG PILBARA PTY LTD	3/05/2011 0:00	9/11/2011 0:00		
L 47/367	LIVE	FMG PILBARA PTY LTD	2/03/2012 0:00	9/04/2012 0:00	1225.08793	1225.08481
L 47/396	DEAD	FMG PILBARA PTY LTD	23/05/2012 0:00	4/06/2012 0:00	215.68139	215.68045
L 47/472	LIVE	FMG PILBARA PTY LTD	18/07/2014 0:00	21/07/2014 0:00	962.44899	962.44405
L 47/697	LIVE	PILBARA GAS PIPELINE PTY LTD	2/12/2013 0:00	9/12/2013 0:00	96.00682	94.94868
L 47/801	LIVE	THE PILBARA INFRASTRUCTURE PTY LTD	24/05/2019 0:00	29/05/2019 0:00	651.63537	570.41506
L 47/813	LIVE	THE PILBARA INFRASTRUCTURE PTY LTD	6/04/2018 0:00	11/04/2018 0:00	577.63264	428.79206
L 47/814	LIVE	THE PILBARA INFRASTRUCTURE PTY LTD	6/04/2018 0:00	11/04/2018 0:00	931.04347	875.83820
L 47/859	LIVE	PILBARA ENERGY COMPANY PTY LTD	6/02/2019 0:00	6/02/2019 0:00	5.97230	5.97230
L 47/901	LIVE	PILBARA ENERGY (GENERATION) PTY LTD	26/06/2019 0:00		10.56293	10.56294
L 47/914	LIVE	PILBARA ENERGY COMPANY PTY LTD	15/11/2019 0:00	20/11/2019 0:00	294.92738	209.39820
L 47/919	LIVE	FMG PILBARA PTY LTD	10/01/2020 0:00	15/01/2020 0:00	931.04347	875.83820
L 1SA	LIVE	THE PILBARA INFRASTRUCTURE PTY LTD	29/11/2006 0:00	16/04/2007 0:00	20535.56682	3052.35119

TENEMENT ID	TENEMENT STATUS	HOLDER	GRANT DATE	DATA EXTRACT DATE	AREA OF TENEMENT (Ha) AS AT GRANT DATE	AREA OF TENEMENT WITHIN COMPENSATION APPLICATION AREA (Ha) AS AT GRANT DATE
P 47/1945	LIVE	FMG PILBARA PTY LTD	11/08/2021 0:00	11/08/2021 0:00	166.01307	140.30751
P 47/1946	DEAD	FMG PILBARA PTY LTD	11/08/2021 0:00	11/08/2021 0:00	165.86915	146.16320
P 47/1947	DEAD	FMG PILBARA PTY LTD	11/08/2021 0:00	11/08/2021 0:00	149.16670	145.25317

NOTICE OF FILING

Details of Filing

Document Lodged: Affidavit - Form 59 - Rule 29.02(1)

Court of Filing FEDERAL COURT OF AUSTRALIA (FCA)

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8721 AND STATE OF WESTERN AUSTRALIA & ORS

Registry: WESTERN AUSTRALIA REGISTRY - FEDERAL COURT OF AUSTRALIA



Sia Lagor

Registrar

Important Information

This Notice has been inserted as the first page of the document which has been accepted for electronic filing. It is now taken to be part of that document for the purposes of the proceeding in the Court and contains important information for all parties to that proceeding. It must be included in the document served on each of those parties.

The date of the filing of the document is determined pursuant to the Court's Rules.