

Petroleum and Gas (Production and Safety) Act 2004



QUEENSLAND GOVERNMENT

PETROLEUM LEASE

No. 260

PETROLEUM AND GAS (PRODUCTION AND SAFETY) ACT 2004**[Section 120(1)]****Petroleum Lease No. 260**

I, **THE HONOURABLE STEPHEN ROBERTSON, MINISTER FOR NATURAL RESOURCES, MINES AND ENERGY AND MINISTER FOR TRADE** for the State of Queensland, pursuant to the *Petroleum and Gas (Production and Safety) Act 2004* (the Act), grant this petroleum lease authorising the holder(s) to explore, develop and store petroleum in accordance with the terms and conditions of this petroleum lease and the provisions of the Act relating to petroleum leases. Any endorsements, or schedules to this lease, form part of this lease.

1. HOLDER(S):

Arrow (Tipton) Pty Ltd	42%
Arrow CSG (Australia) Pty Ltd	30%
Arrow (Tipton Two) Pty Ltd	28%

2. DATE OF EFFECT: 1 April 2011

3. TERM: 30 Years

4. EXPIRY DATE: 31 March 2041

5. INITIAL DEVELOPMENT PLAN

The initial development plan for PL 260 for the period ending five years after the date of effect is the plan lodged with the application.

6. CONDITIONS AND PROVISIONS OTHER THAN MANDATORY CONDITIONS (INCLUDING ANY SPECIAL CRITERIA): NIL

7. AREA DESCRIPTION:

That part of the State of Queensland within the boundaries of the blocks and sub-blocks as defined and shown on the Queensland Mines and Energy Block Identification Map (BIM) - Series B and set out below.

BIM	Block(s)	Sub-Block(s)
BRIS	2678	a, f, g, l, m, n, q, r, s, t, v, w, x, y, z
BRIS	2750	ALL
BRIS	2751	f
BRIS	2822	a, b, c, d, e, f, g, h, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y
BRIS	2894	a, b, c, d, f, g, h

Area of Tenure (Total): 72 Sub-Blocks (Approx 216 sq km²)

other than the following:

- land detailed under "Excluded/Unavailable Land" of this authority; and
- land which a mining interest cannot be granted in relation to by operation of the *Nature Conservation Act 1992*.

8. EXCLUDED/UNAVAILABLE LAND:

Unavailable land: NIL

Excluded land: Land that may be subject to Native Title

sch4p4(6) Personal information

Hon Stirling Hinchliffe MP
Minister for Employment, Skills and Mining

Date Granted: 16 / 3 / 2011

Environmental Protection Act 1994
Level 1 Environmental Authority (chapter 5A activities)

DERM Permit¹ Number: PEN100449509

Under section 310M of the *Environmental Protection Act 1994* this permit is issued to:

Principal Holder	Joint Holders	
Arrow Energy Pty Ltd AM-60 Level 19 42-60 Albert Street BRISBANE QLD 4000	Arrow CSG (Australia) Pty Ltd Arrow Energy Ltd AM-60 Level 19 42 Albert Street BRISBANE QLD 4000	Arrow (Tipton Two) Pty Ltd AM-60 Level 19 42 Albert Street BRISBANE QLD 4000
	Australian CBM Pty Ltd AM-60 Level 19 42 Albert Street BRISBANE QLD 4000	Arrow (Daandine) Pty Ltd AM-60 Level 19 42 Albert Street BRISBANE QLD 4000
	Arrow (Tipton) Pty Ltd AM-60 Level 19 42 Albert Street BRISBANE QLD 4000	CS Energy Limited Level 21 Central Plaza Two 66 Eagle Street BRISBANE QLD 4000

in respect to carrying out a Level 1 chapter 5A activity(ies) as per Section 23 of the *Environmental Protection Regulation 2008* on the relevant resource authorities listed below:

Project Name	Petroleum Authority Type(s) and Number(s)
Arrow Energy Dalby Expansion Project	Petroleum Lease (PL) PL 194, PL198, PL230, PL238, PL252, PL258 and PL260

This environmental authority takes effect from 17 December 2010.

The anniversary date of this environmental authority is 17 December.

This environmental authority is subject to the attached schedule of conditions.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management.

sch4p4(6) Personal infor

17/12/10
Date

Rod Kent
Delegate of Administering Authority
Department of Environment and Resource Management

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RTI Act 2009

Environmental authority

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Permit¹ number: EPPG00972513

Project Name: Arrow Energy Dalby Expansion Project

Environmental authority takes effect 11 October 2013

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee which is currently \$36,432.00 will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Arrow Energy Pty Ltd	Level 39 111 Eagle Street BRISBANE QLD 4001
Australian CBM Pty Ltd	Level 39 111 Eagle Street BRISBANE CITY QLD 4000
Arrow CSG (Australia) Pty Ltd	Level 39 111 Eagle Street BRISBANE CITY QLD 4000
Arrow (Tipton) Pty Ltd	Level 39 111 Eagle Street BRISBANE CITY QLD 4000
Arrow (Tipton Two) Pty Ltd	Level 39 111 Eagle Street BRISBANE CITY QLD 4000
Arrow (Daandine) Pty Ltd	Level 39 111 Eagle Street BRISBANE CITY QLD 4000
Stanwell Corporation Limited	Level 13, 42 Albert Street BRISBANE QLD 4001

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation



Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
<p>Schedule 2A – 6 – a petroleum activity carried out on a site containing a high hazard dam or a significant hazard dam</p> <p>Schedule 2A – 8 – a petroleum activity, other than a petroleum activity in 1 to 7, that includes one or more prescribed ERAs for which an aggregate environmental score is stated, namely:</p> <p>8. A petroleum activity, other than a petroleum activity mentioned in items 1 to 7, that includes 1 or more chapter 4 petroleum activities for which an aggregate environmental score is stated, namely:</p> <p>ERA 14(1) – Electricity generation - generating electricity by using gas at a rated capacity of 10MW electrical or more</p> <p>ERA 15 – Fuel burning – using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour</p> <p>ERA 60(1)(d) – Waste disposal, operating a facility for disposing of, in a year, more than 200 000t of regulated waste and any, or any combination, of the following –</p> <p>(a) general waste;</p> <p>(b) limited regulated waste;</p> <p>(c) if the facility is in a scheduled area – no more than 5t of untreated clinical waste in a year</p> <p>ERA 63(1)(b) – Sewage treatment - operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 100 - 1500 EP</p> <p>ERA 64(2)(b) – Water treatment - desalinating, in a day, more than 5ML of water, allowing the release of waste to waters other than seawater</p>	<p>PL194</p> <p>PL198</p> <p>PL230</p> <p>PL238</p> <p>PL252</p> <p>PL258</p> <p>PL260</p>

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

Date Granted – 11 October 2013

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

sch4p4(6) Personal information

Signature

11/10/2013

Date

Kate Wall
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Energy Assessments
Department of Environment
and Heritage Protection

7th Floor, 400 George Street
GPO Box 2454
BRISBANE QLD 4001

Phone: (07) 3330 5618
Fax: (07) 3330 5634

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Date Granted – 11 October 2013



Queensland
Government

Department of
Natural Resources and Mines

Our Ref: PL 198, 230, 238, 252, 258, 260

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Tenement Manager
Arrow Energy Pty Ltd
GPO Box 5262
BRISBANE QLD 4001

Dear Sir/Madam

PROPOSED LATER DEVELOPMENT PLAN

I refer to the lodgement of a proposed later development plan for Petroleum Lease (PL) Numbers 198, 230, 238, 252, 258 and 260 received on 30 June 2015 and the amendment made on 9 May 2016, pursuant to sections 79 and 844 of the *Petroleum and Gas (Production and Safety) Act 2004* (the Act). This proposed later development plan was requested to be considered as a project-based later development plan for these PLs.

Your application has been assessed, pursuant to section 147 of the Act, as to whether it complies with the requirements for the approval of a later development plan. It has also been assessed with reference to Operation Policy number 01/2014 "Project-based development plans."

Your application requested the following leases to be considered as a project for the purpose of combining their development plans:

PROJECT NAME	TENURE	LATER DEVELOPMENT PLAN EXPIRY DATE
Surat Domestic Gas Project	PL 198	30 June 2020
	PL 230	
	PL 238	
	PL 252	
	PL 258	
	PL 260	

After due consideration, I have decided to approve the project-based later development plan. If there is any significant change to the project-based later development plan before the expiry date a new development plan is required to be lodged.

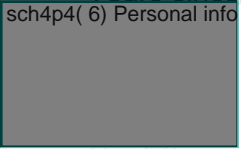
Please find enclosed the signed copies of the original endorsements of the approved later project development plan to be attached to the original instruments of lease for PLs 198, 230, 238, 252, 258 and 260.

Department of Natural Resources & Mines
PO Box 15216
City East
Queensland 4002 Australia
Telephone +61 7 3199 8114
Website www.dnrm.qld.gov.au

Should you have any further enquiries, please contact John McCormack, Registrar, Petroleum Assessment Hub, on telephone 3199 8116 or via email at petroleumhub@dnrm.qld.gov.au .

Yours sincerely

sch4p4(6) Personal info



Jon Thomas
Acting Director
Mining and Petroleum Operations

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PETROLEUM AND GAS (PRODUCTION AND SAFETY) ACT 2004

PETROLEUM LEASE NUMBER 260

AMENDMENT TO AREA

Pursuant to section 170(1) of the *Petroleum and Gas (Production and Safety) Act 2004* and with the consent of the holder amend Petroleum Lease Number 260 by adding the area subject to native title, which was previously excluded.

DELETE:

8. EXCLUDED/UNAVAILABLE LAND:

Unavailable Land: NIL

Excluded Land: Land that may be subject to Native Title

INSERT:

8. EXCLUDED/UNAVAILABLE LAND:

Unavailable Land: NIL

Excluded Land: NIL

Date Approved: 23/8/2017



Queensland
Government

Department of
Natural Resources and Mines

Your Ref:
Our Ref: PL 238 & 260

23 August 2017

Arrow (Tipton) Pty Ltd

sch4p4(6) Personal inform

C/- Tenement Manager
GPO Box 5262
BRISBANE QLD 4001

Dear Sir/Madam

I refer to your request to add "excluded land" to the area of your petroleum tenure Petroleum Lease (PL) Numbers 238 and 260 received on 20 July 2017.

You are advised that the delegated officer has amended the above mentioned petroleum tenure to add "excluded land", to the area of the lease.

Please find enclosed the endorsements for PL 238 and 260 for your safekeeping.

Should you have any further enquiries, please contact Peter Hoppner, Senior Tenures Officer, Petroleum Assessment Hub, on telephone number (07) 3199 8117 or email petroleumhub@dnrm.qld.gov.au.

Yours sincerely

sch4p4(

sch4p4(6) Personal information

John McCormack
Registrar
Petroleum Assessment Hub

Level 4
1 William Street
Brisbane QLD 4000
PO Box 15216 City East
Queensland 4002 Australia
Telephone + 61 7 3006 2603
Facsimile + 61 7 3237 1317
Website www.dnrm.qld.gov.au

Petroleum and Gas (Production and Safety) Act 2004



QUEENSLAND GOVERNMENT

PETROLEUM LEASE

No. 1052

PETROLEUM AND GAS (PRODUCTION AND SAFETY) ACT 2004**[Section 120]****Petroleum Lease No. 1052**

I, **THE HONOURABLE DR ANTHONY LYNHAM, MINISTER FOR NATURAL RESOURCES, MINES AND ENERGY** for the State of Queensland, pursuant to the *Petroleum and Gas (Production and Safety) Act 2004* (the Act), grant this petroleum lease authorising the holder(s) to explore, develop and store petroleum in accordance with the terms and conditions of this petroleum lease and the provisions of the Act relating to petroleum leases. Any endorsements, or schedules to this lease, form part of this lease.

1. HOLDER(S):

Company Name		Share (%)
Arrow CSG (Australia) Pty Ltd	ACN: 054 260 650	100

2. DATE OF EFFECT: 5 December 2019

3. TERM: 30 years

4. EXPIRY DATE: 4 December 2049

5. PRODUCTION COMMENCEMENT DATE: 31 December 2029

6. INITIAL DEVELOPMENT PLAN

The Minister has approved the initial development plan for PL 1052, for the period ending five years after the date of grant.

7. AREA DESCRIPTION:

That part of the State of Queensland within the boundaries of the blocks and sub-blocks as defined and shown on the Queensland Block Identification Map (BIM) - Series B and set out below.

BIM	Block(s)	Sub-Block(s)
BRIS	2532	x, y, z
BRIS	2604	c, d, e, h, j, k n, o, p, s, t, u, x, y, z
BRIS	2605	ALL

Area of Tenure (Total): 43 sub-blocks approx. 129 km²

other than the following:

- land detailed under "Excluded/Unavailable Land" of this authority; and
- land over which a mining interest cannot be granted in relation to the *Nature Conservation Act 1992*.

8. EXCLUDED/UNAVAILABLE LAND:

Unavailable land: The area within ML 5908.

Excluded land: Nil

Date Granted: 5 December 2019



Queensland
Government

Department of
Natural Resources,
Mines and Energy

5 December 2019

[sch4p4(6) Person]

Vice President External Relations and Tenure Management
Arrow CSG (Australia) Pty Limited
GPO Box 5262
BRISBANE QLD 4001

Dear [sch4p4(6) Person]

I refer to Petroleum Lease (PL) Application Number 1052 lodged by Arrow CSG (Australia) Pty Ltd (Arrow CSG) (ACN 054 260 650) on 14 August 2018 under section 117 of the *Petroleum and Gas (Production and Safety) Act 2004* (P&G Act).

The Department of Natural Resources, Mines and Energy notes that Arrow Energy Holdings Pty Ltd (Arrow) (parent company of Arrow CSG) on 1 December 2017 entered into a Gas Sales Agreement (GSA) with Walloons Coal Seam Gas Company Pty Limited (a QCLNG entity) to support the development of the Surat Gas Project (SGP). PL application 1052 forms part of tranches two and three of the SGP.

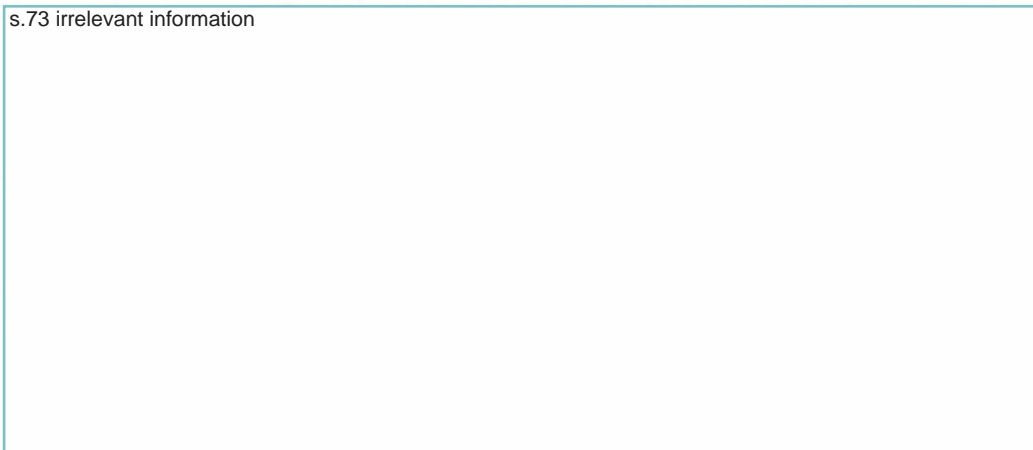
Arrow has advised that under the GSA, 730 terajoules per day of gas over 27 years will be supplied to QGC for domestic and export markets. This GSA forms part of a relevant arrangement (RA) which Arrow CSG has sought to rely upon to delay the production commencement day for PL 1052 by more than two years after the day of effect, until 2029.

On 5 December 2019, the Minister for Natural Resources, Mines and Energy (the Minister) approved the Initial Development Plan (IDP) for PL 1052 under section 121(1)(d) of the P&G Act and granted PL 1052 to Arrow CSG for a term of 30 years under section 120 of the P&G Act.

In this context, the Minister considered the RA and was satisfied that Arrow CSG had entered into a RA for the purposes of section 123(7) of the P&G Act. As a result, the production commencement day for PL 1052 is 31 December 2029.

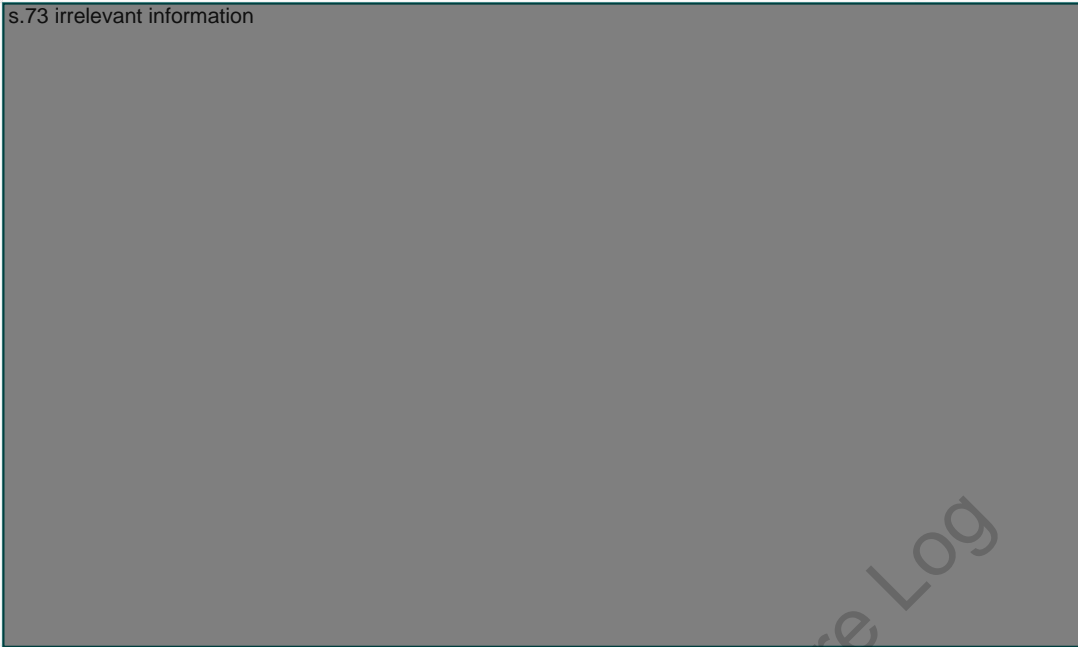
As the Minister's decision to grant PL 1052 with a production commencement day of 31 December 2029 was informed by consideration of the production forecast for PL 1052 in the RA, it is expected that future Later Development Plans (LDPs) for PL 1052 will reflect the following production commitments as provided by Arrow in the RA (reproduced below):

s.73 irrelevant information



Level 4, 1 William Street
Queensland 4000 Australia
Telephone +61 7 3199 8294
www.dnrme.qld.gov.au
ABN 59 020 847 551

s.73 irrelevant information



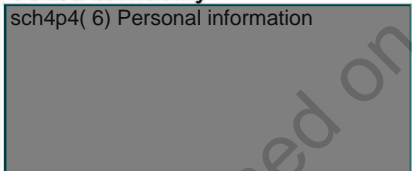
In this context, under section 159(3)(b) of the P&G Act, Arrow CSG is required, as the holder of PL 1052, to lodge a proposed LDP as soon as practicable after the holder proposes or becomes aware of any significant change to the nature and extent of an authorised activity that is not already dealt with under the current development plan for the lease. This includes an increase or decrease in production.

It should be noted that section 159 of the P&G Act is a mandatory condition for PL 1052. A failure to lodge a proposed LDP may amount to non-compliance with the conditions of the PL.

If you have any queries in relation to the above, please do not hesitate to contact Kate Byrne, Registrar, Petroleum Assessment Hub on (07) 3199 8064 or kate.byrne@dnrme.qld.gov.au

Yours sincerely

sch4p4(6) Personal information



Phillip Wilkinson
**Manager Assessment
Petroleum and Gas**

Our Ref: PL 198, 230, 238, 252, 258 and 260

12 June 2020

sch4p4(6) Personal

Tenement Manager
Arrow (Tipton) Pty Ltd
C/- Arrow Energy Pty Ltd
GPO Box 5262
BRISBANE QLD 4001

Dear sch4p4(6) Pe

PROPOSED LATER DEVELOPMENT PLAN

I refer to your Project-based later development plan (LDP) application lodged by Arrow (Tipton) Pty Ltd (ACN: 114927507) on 05/05/2020 for Petroleum Lease Number 198, 230, 238, 252, 258 and 260 under section 159 of the *Petroleum and Gas (Production and Safety) Act 2004 (P&G Act)*.

On 11 June 2020, pursuant to section 147 of the P&G Act, the Ministers delegate has approved the Project-based LDP for the period of 01/07/2020 to 30/06/2025. Pursuant to section 149(2) of the P&G Act, this approval will take effect on 01/07/2020. The Project-based LDP includes the following production:

s.73 irrelevant information

Please note that section 159(3)(b) of the P&G Act requires a holder to lodge a proposed Project-based LDP as soon as practicable after the holder proposes or becomes aware of any significant change to the nature and extent of an authorised activity that is not already dealt with under the current development plan for the lease. This includes a decrease or an increase in production.

Should you have further enquiries, please contact Phillip Wilkinson, Manager Assessment, Petroleum Assessment Hub of the Department of Natural Resources, Mines and Energy on telephone number (07) 3087 8384 or email petroleumhub@dnrme.qld.gov.au.

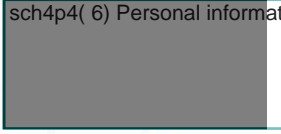


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Mines and Energy**

Yours sincerely,

sch4p4(6) Personal informat



Phillip Wilkinson
**Manager Assessment
Petroleum Assessment Hub**

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1 William Street Brisbane
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Telephone +61 7 3199 8287
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ABN 59 020 847 551

Our Ref: PL 198, 230, 238, 252, 258 and 260

18 June 2020

sch4p4(6) Personal in

Tenement Manager
Arrow (Tipton) Pty Ltd
C/- Arrow Energy Pty Ltd
GPO Box 5262
BRISBANE QLD 4001

Dear sch4p4(6) Per

PROPOSED LATER DEVELOPMENT PLAN

I refer to your Project-based later development plan (LDP) application lodged by Arrow (Tipton) Pty Ltd (ACN: 114927507) on 05/05/2020 for Petroleum Lease Number 198, 230, 238, 252, 258 and 260 under section 159 of the *Petroleum and Gas (Production and Safety) Act 2004 (P&G Act)*.

Please note that the department has updated this letter as per information provided by Arrow on 15 June 2020. The updated details are presented below.

On 11 June 2020, pursuant to section 147 of the P&G Act, the Ministers delegate has approved the Project-based LDP for the period of 01/07/2020 to 30/06/2025. Pursuant to section 149(2) of the P&G Act, this approval will take effect on 01/07/2020. The Project-based LDP includes the following production:

s.73 irrelevant information

Please note that section 159(3)(b) of the P&G Act requires a holder to lodge a proposed Project-based LDP as soon as practicable after the holder proposes or becomes aware of any significant change to the nature and extent of an authorised activity that is not already dealt with under the current development plan for the lease. This includes a decrease or an increase in production.



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Department of
**Natural Resources,
Mines and Energy**

Should you have further enquiries, please contact Phillip Wilkinson, Manager Assessment, Petroleum Assessment Hub of the Department of Natural Resources, Mines and Energy on telephone number [sch4p4(6) Person] or email petroleumhub@dnrme.qld.gov.au.

Yours sincerely,

[sch4p4(6) Personal informat]

Phillip Wilkinson
Manager Assessment
Petroleum Assessment Hub

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Our Ref: PL 198, 230, 238, 252, 258 and 260

22 June 2020

[sch4p4(6) Personal in

Tenement Manager
Arrow (Tipton) Pty Ltd
C/- Arrow Energy Pty Ltd
GPO Box 5262
BRISBANE QLD 4001

Dear [sch4p4(6) Pe

PROPOSED LATER DEVELOPMENT PLAN

I refer to your Project-based later development plan (LDP) application lodged by Arrow (Tipton) Pty Ltd (ACN: 114 927 507) on 5 May 2020 for Petroleum Lease Number 198, 230, 238, 252, 258 and 260 under section 159 of the *Petroleum and Gas (Production and Safety) Act 2004* (P&G Act).

On 11 June 2020, pursuant to section 147 of the P&G Act, the Ministers delegate has approved the Project-based LDP for the period of 1 July 2020 to 30 June 2025. Pursuant to section 149(2) of the P&G Act, this approval will take effect on 1 July 2020. The Project-based LDP includes the following production:

s.73 irrelevant information



Please note that section 159(3)(b) of the P&G Act requires a holder to lodge a proposed Project-based LDP as soon as practicable after the holder proposes or becomes aware of any significant change to the nature and extent of an authorised activity that is not already dealt with under the current development plan for the lease. This includes a decrease or an increase in production.

Should you have further enquiries, please contact Phillip Wilkinson, Manager Assessment, Petroleum Assessment Hub of the Department of Natural Resources, Mines and Energy on telephone number sch4p4(6) Person or email petroleumhub@dnrme.qld.gov.au.

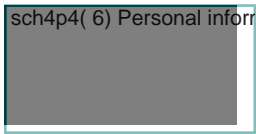


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Mines and Energy

Yours sincerely,

sch4p4(6) Personal inform



Phillip Wilkinson
Manager Assessment
Petroleum Assessment Hub

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ABN 59 020 847 551

Petroleum and Gas (Production and Safety) Act 2004

**PETROLEUM LEASE NUMBER 198, 230, 238, 252, 258
and 260**

APPROVED PROJECT-BASED LATER DEVELOPMENT PLAN

Surat Gas Project

I, THE DELEGATE OF THE HONOURABLE DR ANTHONY LYNHAM, MINISTER FOR NATURAL RESOURCES, MINES AND ENERGY for the State of Queensland, Pursuant to section 147 of the *Petroleum and Gas (Production and Safety) Act 2004* approve the Project-based Later Development Plan for Petroleum Lease Number 198, 230, 238, 252, 258 and 260 to commence on **1 July 2020** expire on **30 June 2025**.

Date Approved: 11 June 2020