






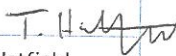
REPORT

Supporting Information Report -Spring Gully Interconnecting Pipeline Regional Interests Development Application

Q-1800-15-EA-0075_02

Australia Pacific LNG Upstream Project

Supporting information report to authorise construction of the Spring Gully Interconnect Pipeline in a Strategic Cropping Area on Lot 16 on Plan AB174.

Revision	Date	Description	Originator	Checked	QA/Eng	Approved
0	28.10.2015	Issued for Use	V. Brady 	S. Dale 	S. Dale 	T. Hatfield 

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- **May or can** indicate a possible course of action.

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1. Introduction

1.1. Overview

Origin Energy Resources Limited, as the upstream operator of Australia Pacific LNG Pty Limited (Australia Pacific LNG), has prepared this supporting information report to accompany an application under Section 28 of the *Regional Planning Interests Act 2014* (RPI Act) to the Department of Infrastructure, Local Government and Planning (DILGP).

This application relates to the construction and operation of the Australia Pacific LNG Spring Gully Interconnect Pipeline (SGIP) on an Australia Pacific LNG owned property, 'Spring Gully', on Lot 16 on Plan AB174.

This application includes:

- Cover letter (Q-1800-15-EA-0075)
- Attachment 1 - completed DNRM application form (Version 2.0) (Q-1800-15-EA-0075 _01)
- Attachment 2 - Supporting Information Report (Q-1800-15-EA-0075_02) (this document).

The values sought to be protected by the RPI Act are still achieved whilst allowing Australia Pacific LNG to plan and design for the safe access to properties. Attachment 1 provides maps outlining the proposed pipeline route.

1.2. Document References and Abbreviations

In support of this amendment application, associated documents are presented in Table 1, and appended where relevant.

Table 1: Associated Document References

Document Number	Title	Attachment
Q-1800-15-EA-0075	Cover letter	-
Q-1800-15-EA-0075_01	Application form	-
Q-1800-15-RP-0132	Australia Pacific LNG Upstream Pipelines Project Audit Report	Attachment 2
Q-1803-15-RP-0039	Western High Pressure Gas Network Strategic Cropping Land Photo Monitoring Report	Attachment 2
NA	Map suite	Attachment 1
Q-LNG01-15-MP-0107	Australia Pacific LNG Remediation, Rehabilitation, Recovery and Monitoring Plan	Attachment 2
Q-LNG01-15-MP-1005	Australia Pacific LNG Construction Environmental Management Plan	Attachment 2

Table 2: Abbreviations

Abbreviation	Description
DNRM	Department of Natural Resources and Mines
EA	Environmental Authority
EHP	Department of Environment and Heritage Protection
EP Act	<i>Environmental Protection Act 1994</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
FA	Financial assurance
GPF	Gas Plant Facility
Ha	Hectare
Km	Kilometre
PCF	Pipeline Compression Facility

Abbreviation	Description
PL	Petroleum Lease
PPL	Petroleum Pipeline Licence
RPI Act	<i>Regional Planning Interests Act 2014</i>
RIDA	Regional Interests Development Approval
ROW	Right of Way
SCA	Strategic Cropping Area
SCL	Strategic Cropping Land

1.3. Revision History

Table 3: Revision History

Date	Revision Number	Description of changes

2. Background and Project Overview

2.1. Project Overview

The SGIP will be constructed under petroleum pipeline licence (PPL) 180 and Environmental Authority (EA) EPPG00836213 (noting that both these instruments are undergoing amendment applications to authorize the infrastructure subject to this application). The SGIP is being constructed in order to connect the Spring Gully Gas Plant Facility (GPF) and Spring Gully Pipeline Compression Facility (PCF). The project will involve installation of a high pressure carbon steel pipeline between the two facilities.

The carbon steel gas line will be 450mm in diameter and will run directly between the two facilities (taking into account perpendicular crossing requirements for existing access tracks / roads). The pipeline will be 950m in total length which includes the pipeline length within the abovementioned facilities. The SGIP will additionally provide access to PPL90 and PPL143 at the GPF, which will allow gas to be transported either domestically or to Gladstone for export.

The pipeline footprint will consist of a Right of Way (RoW) of up to 30m, which will be reduced to an 8m operational access easement with a number of laydowns / work spaces for equipment / machinery storage during construction.

No formed access track is required either during construction or operation. Vehicle movements will occur along the existing access tracks/ roads, within the RoW width or over natural ground. Geotechnical investigations may be conducted prior to construction of the project.

There is no requirement for a construction worker's accommodation facility.

2.2. Existing RIDA

A Strategic Cropping Land (SCL) Protection Decision (SCLRD2013/000126) was issued to Australia Pacific LNG for the temporary impacts associated with construction of PPL180, however at the time of lodging and obtaining the decision the area upon which the SGIP is proposed was not mapped as a strategic cropping area (SCA).

The land over which the SGIP is proposed to be built was mapped as an SCA during the update to the Department's trigger maps in December 2014.

2.3. Infrastructure Subject to RIDA Application

The RIDA application consists of the following infrastructure located within Lot 16 on Plan AB174 and as depicted in Attachment 1, Map ID GISWR_29319:

- Pipeline RoW
 - Approximately 660m between the GPF and PCF operational footprints up to a maximum 30m width during construction, reduced to an 8m operational easement, maximum construction disturbance 1.98ha
 - Approximately 190m within the GPF disturbance footprint, maximum disturbance accounted for in EWS01
 - Approximately 80m within the PCF disturbance footprint, maximum disturbance accounted for in EWS02
- Extra work space 01 (EWS01) approximately 0.3ha within the PCF – consisting of the pipeline RoW, temporary pipe and machinery storage
- Extra work space 02 (EWS02) approximately 1.1ha within the GPF - consisting of the pipeline RoW, temporary pipe and machinery storage, pig launcher facility, transfer metering station, flow controls etc)
- Laydown 01 (LD01) approximately 1.12ha – temporary storage of pipe and equipment / machinery

- Laydown 02 (LD02) approximately 1.2ha – temporary storage of pipe and equipment / machinery. This laydown is within the existing disturbance footprint of a coal seam gas well

Total disturbance to the mapped SCA is 5.7ha.

3. Legislative Context

3.1. Owner

The applicant, Australia Pacific LNG, is the owner of the property, Lot 16 on Plan AB174.

3.2. Location of Development

The SGIP is located entirely within Lot16 on Plan AB174 which is located within the Maranoa Regional Council local government area and Australia Pacific LNG's Spring Gully development area.

3.3. Current Land Uses

3.3.1. Lot 16 on Plan AB174

Lot 16 on Plan AB174 is characterised by broad expanses of low hills and gently undulating plains. Elevations range from 240m to 490m. The property has been extensively cleared of its original native vegetation. The property was purchased by Australia Pacific LNG in 2003.

The property currently holds extensive infrastructure associated with coal seam gas activities. These include:

- 40 gas wells
- 3 injection wells
- 1 GPF
- 1 PCF
- 1 water treatment facility
- Numerous water storage ponds
- A 248 bed capacity camp (permanent accommodation)
- A 300 bed construction camp (temporary accommodation)
- Communications towers
- Access tracks (30km) and major access roads (9km)

There is one homestead located on the property. The building is brick, in good condition and has three associated buildings (a garage, office and workshop).

Five easements are registered on the title, with four being in relation to the location of coal seam gas pipelines and one being for an electricity corridor.

3.3.2. Surrounding Land Uses

The following properties are located within 1km of Lot 16 on Plan AB174 (refer Attachment 1, Map ID GISWR_29319):

- Lot 15 on Plan SP269470
- Lot 3 on Plan 204532
- Lot 4 on Plan SP204532
- Lot 9 on Plan SP262435
- Lot 6 on Plan AB212
- Lot 1 on Plan AB110
- Lot 2 on AB237

The closest neighbouring property is Lot 4 on Plan SP204532, which is located approximately 480m to the north. It should be noted that this is the only property within 1km of the proposed clearing.

Of those surrounding properties, only two are not owned and operated by Australia Pacific LNG:

- Lot 3 on Plan SP204532
- Lot 6 on Plan AB212

The surrounding properties are largely used for cattle grazing and continuing coal seam gas activities, associated with Australia Pacific LNG. One of the surrounding properties (Lot 6 on Plan AB212) may be utilised for cropping activities.

3.4. Existing Approvals and Decisions

The SGIP will be constructed and operated in accordance with all Australia Pacific LNG existing approvals, including:

- *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* approval 2009/4974
- The Coordinator General's Report for the Australia Pacific LNG Project
- EA# EPPG00836213
- PPL180

3.5. Guidelines, Standards and Codes of Practice

The following Department of State Development, Infrastructure and Planning (DSDIP) guidelines have been consulted during the preparation of this RIDA:

- Guideline 01/14: How to make an assessment application for regional interest development application under the RPI Act
- Guideline 03/14: Carrying out activities in strategic cropping area
- Guideline 06/14: Public notification of assessment applications
- Guideline 09/14: How to determine if an activity has a permanent impact on strategic cropping land
- Guideline 10/14: Changes to the SCL Trigger Map: Implications for activities in the strategic cropping area

The Project will be constructed in general accordance with the Australian Pipeline Industry Association (APIA) Code of Environmental Practice – Onshore Pipelines (APIA, 2013). Additionally, the pipeline will be designed, constructed, tested, operated and maintained in accordance with Australian Standard AS2885.

4. SCA Assessment Criteria

4.1. Location within SCA

A review of the DNRM regional interests mapping tool has identified that Lot 16 on Plan AB174 is within a mapped SCA. Avoidance of this SCA is not practicable due to the existing location of the GPF and PCF which the SGIP will connect with (refer Attachment 1 - Map ID GISWR_29319).

Lot 16 on Plan AB174 is 4,553ha, which includes 2,868ha of SCA. The proposed disturbance to mapped SCA is 5.7ha which equates to 0.19% of the mapped SCA on the property (noting that 3.6ha of this disturbance will be occurring on pre-existing disturbed areas (EWS01, EWS02 and LD02) authorised under previous environmental authorities which are exempt from the requirements of the RPI Act.

4.1.1. Alternate Locations Considered

Due to the location of the GPF and PCF, the pipeline RoW cannot avoid mapped SCA. Instead of an alternate location the length and width of the RoW has been minimised to the greatest extent possible (accounting for perpendicular crossing requirements at roads and the entrances of the GPF and PCF).

Similarly, whilst located within mapped SCA, existing disturbed areas within the GPF and PCF have been preferentially used for extra work spaces where equipment and machinery storage can occur. Due to insufficient space being available within the GPF and PCF an existing coal seam gas well lease is also going to be used as a temporary laydown (LD02) for pipe stockpiling and equipment / machinery. An additional laydown (LD01) is also required for pipe stockpiling and equipment / machinery and has been partially located within the SGIP RoW to maximise co-location and minimise new disturbance to SCA.

Note that EWS01 and EWS02 represent the maximum areas available within the PCF and GPF respectively for the extra work spaces due to safety exclusion zones associated with these facilities.

4.2. Duration of impact

Construction is scheduled to occur over a five month period, between January and June 2016 (subject to scheduling constraints). Progressive reinstatement will occur and be completed in accordance with the Australia Pacific LNG Rehabilitation, Remediation, Recovery and Monitoring Report (Q-LNG01-15-MP-0107) (Attachment 2).

The pipeline will have an operational life of no more than 50 years. Australia Pacific LNG has a PPL term of 50 years, which is consistent with the design life of the Australia Pacific LNG project. Australia Pacific LNG foresees that pipeline integrity is essential and, therefore, does not recommend any design life of less than 50 years.

4.3. Nature of the Impact

Guideline 09/14 ('How to determine if an activity has a permanent impact on strategic cropping land') identifies that an activity has a permanent impact if by carrying out the activity, the land cannot be restored to its pre-activity condition.

Following completion of construction works, the land will meet the following acceptance criteria:

- Reinstated to pre-disturbed land use and land use potential
- Reinstated to pre-disturbed soil suitability class
- Landform is safe for humans and fauna
- Landform is stable with no subsidence or erosion gullies for at least 3 years

Although the pipeline has an approval for 50 years, Australia Pacific LNG does not consider the impact to be permanent and has been issued a number of previous SCL Protection Decisions for temporary impacts to SCAs. Australia Pacific LNG's ability to restore the land to its pre-activity condition can be evidenced by its compliance with Conditions 4.1- 4.9 (Benchmarking the predevelopment site condition, monitoring impacts and monitoring restoration of those impacts) on SCL Protection Decision SCLRD2013/000126 for 19km of pipeline constructed under PPL180, as outlined in Table 4.

Table 4: Evidence of compliance with SCLRD2013/000126

Condition	Evidence of compliance
<p>4.1 Prior to any land disturbance taking place, a land and soil resource inventory must be undertaken of all areas of SCL or potential SCL to be impacted upon in order to fully and faithfully record the predevelopment site conditions to which the land must eventually be returned. The inventory must encompass all aspects of the site's predevelopment characteristics including the vegetation, land surface and soil profile as described with the Australian soil and land survey field handbook, third edition CSIRO publishing. In addition the inventory must capture a full and complete record of any existing modifications to the land or improvements on the land that may serve to support its agricultural use and also capture a full record the condition of those modifications and improvements to inform and aid their effective restoration.</p> <p>4.2 Following commencement of restoration activities inspections must be conducted during the first 6 months at intervals no more than 1 month to identify any incidences of soil subsidence, erosion, weed proliferation, failure of vegetation re establishment and any soil or land condition decline within the impacted areas that may inhibit restoration efforts from reaching the predevelopment condition target.</p>	<p>A third party audit was undertaken in May 2014 against both the PPL180 Environmental Authority and the conditions of SCLRD2013/000126. Additionally, an internal audit was conducted in July 2014 during reinstatement of PPL180 (Q-1800-15-RP-0132, Attachment 2). The internal audit report did not identify any non-compliance and concluded that all ERM audit findings requiring action had been closed out.</p> <p>Annual checks are conducted in February of each year to support the submission of the PPL180 EA annual return.</p>
<p>4.3 Following the first 6 months after restoration commencement, yearly monitoring is to be conducted until all impacted areas are fully restored to their predevelopment condition.</p>	<p>The required monitoring timeframe has not elapsed. However, the aforementioned audit reports and annual checks will incorporate this condition.</p>
<p>4.4 Where monitoring inspections identify any incidence of soil subsidence, erosion, weed proliferation, failure of vegetation re establishment or any other decline in soil or land condition within the disturbed or impacted areas, corrective actions must be implemented immediately to restore and maintain the integrity and productivity of the soil profile and land surface.</p>	<p>No evidence of subsidence, erosion or weed proliferation has been identified. However, this is monitored and checked in accordance with the EA and condition 1.1 of the SCL Protection Decision.</p>
<p>4.5 A fixed point digital photographic monitoring record of all impacted areas of SCL or potential SCL must be maintained as record of the impacted area's pre development, post construction and post restoration condition and be made available on request to the administering authority.</p> <p>4.6 Each digital photograph within the monitoring record must be supported by the date, time, MGA94 geographic location and the compass bearing at which the camera is facing when taking the photograph.</p> <p>4.7 A minimum of four separate photographic positions must be established at least 10m outside of any impacted area that supports above ground infrastructure that has a footprint of 10m² or more, surrounding it and focussing inward toward the centre of the infrastructure. For example photographic positions established to the North, East, South and West of the centre of the impacted area, facing inward from camera positions located 20 metres outside the perimeter of disturbance. In areas of linear disturbance for buried infrastructure, photographs must be taken in either direction along the lineament at fixed intervals of no more than 200m apart.</p> <p>4.8 Successive photographs of the impacted area's pre development, post construction and post restoration conditions over time must be taken from the same position and in the same direction as the former photograph with the horizon in view and no more than 1/5 of the field of</p>	<p>A fixed point photo monitoring record has been developed and reflects pre-construction and post-reinstatement images. This report is attached for reference in Attachment 2 (Q-1803-15-RP-0039)</p>

view occupied by sky.

4.9 Photographic records are to be stored and presented in a format that easily enables temporal comparison between successive photographs and also enables, by way of an accompanying plan, easy reference to the location of the fixed positions from which photographs have been taken and the impacted areas on which they are focussed.

5. Management of Mitigation Measures

5.1. Construction Activities

5.1.1. SGIP RoW

Australia Pacific LNG will clear and operate within a maximum 30m RoW during the construction period. The pipeline will be buried to a minimum depth of 900mm (measured at top of pipe) on the property. This depth will ensure that future cropping activities can occur.

Australia Pacific LNG will minimise impacts to SCAs by ensuring that all construction activities will be conducted in accordance with the Australia Pacific LNG Construction Environmental Management Plan (CEMP) (Q-LNG01-15-MP-1005) (Attachment 2). The CEMP provides details on how all construction activities are to occur and how environmental harm will be mitigated.

All vegetation along the RoW will be cleared and stockpiled. Topsoil and subsoils will be stored separately.

Detailed erosion and sediment control (ESC) plans and measures will be taken along the entire pipeline route. These ESC measures will be maintained and regularly inspected, particularly prior to, and immediately following, any forecast wet weather. Generally, works will be temporarily ceased during wet weather to minimise impacts to the land.

As no cattle or other livestock are present on Lot16 AB174 no fencing of stockpiles is proposed.

At the completion of construction the SGIP RoW will be reduced to an 8m operational footprint.

5.1.2. Laydown 01

LD01 may require minimal clearing of pasture grasses and topsoil at the site. However, this will only be conducted if necessary for construction activities and safe operation of the site. If clearing of pasture and topsoil stripping is not required, it will not be conducted. If topsoil stripping is required it will be stockpiled and reinstatement of the area will occur in accordance with Section 5.2.

No gravel or similar material is required to stabilise the surface of the laydown area.

5.1.3. Laydown 02

LD02 is an existing disturbed well site which will be utilised to avoid additional disturbance of the mapped SCA.

5.1.4. Extra Work Space 01 and 02

EWS01 and EWS02 are existing disturbed sites within the operational footprint of the PCF and GPF respectively. These areas will remain disturbed until the respective facilities are decommissioned at which time decommissioning of the pipeline component will occur in accordance with Section 5.4.

5.2. Reinstatement

All reinstatement will be carried out in accordance with the following Australia Pacific LNG documents (Attachment 2):

- Rehabilitation, Remediation, Recovery and Monitoring Plan (Q-LNG01-15-MP-0107)
- Construction Environmental Management Plan (Q-LNG01-15-MP-1005)
- EA# EPPG00836213
- The RIDA, once granted

The SGIP RoW will be progressively reinstated and will not be left as an open trench unnecessarily. Any clearing associated with LD01 (if required) will be reinstated following construction, in accordance with those approvals outlined above.

All subsoil and topsoil will be replaced during reinstatement of the RoW. Having been stored separately, and given the relatively short construction period topsoil will largely retain its viable seed bank. From

experience elsewhere on the Australia Pacific LNG project, this is determined to be adequate to ensure regrowth of pasture.

The landform will be reinstated to its original contours following completion of backfilling.

Successful reinstatement will be considered an 80% ground cover within 12 months of project completion. The area will be fully returned to pre-activity condition.

5.3. Operation Activities

Following completion of construction works, the land will meet the following acceptance criteria:

- Reinstated to pre-disturbed land use and land use potential
- Reinstated to pre-disturbed soil suitability class
- Landform is safe for humans and fauna
- Landform is stable with no subsidence or erosion gullies for at least 3 years

Australia Pacific LNG will maintain a photographic record, as required under the Rehabilitation, Remediation, Recovery and Monitoring Plan (Q-LNG01-15-MP-0107) (Attachment 2).

The operational footprint will include a RoW of 8m that will be suitable for dryland cropping and livestock farming. No access track will remain post construction; as such, impacts to agricultural land uses will be minimal during operation.

As the pipeline will have an operational life of over 50 years, continued access to the pipeline will be required for ongoing maintenance and other operational activities. This maintenance will include monitoring for erosion and subsidence, as well as invasive pest species. However, a formed access track will not be constructed and existing tracks will be utilised. As identified in section 4.3, Australia Pacific LNG does not consider this a permanent impact to strategic cropping land.

5.4. Decommissioning

The pipeline will be decommissioned in accordance with the relevant Australian Standards and legislation, current at the time. Due to the operational lifetime of this pipeline, no specific commitments are proposed by Australia Pacific LNG, which may contradict good practice in 50 years' time.

Current good environmental practice, which is exercised across the Australia Pacific LNG project area, is to leave any steel pipe in-situ following its operational lifetime. It is considered that removing the pipe from the ground would cause unnecessary disturbance to the soil profile and affect landholders, compared to leaving the pipeline buried. Current good practice is that prior to abandoning any pipeline, the pipe will be cleaned and assessed for structural integrity.

6. Financial Assurance

Australia Pacific LNG currently holds \$7,739,987 in financial assurance (FA) for the Western High Pressure Gas Network (PPL180). This includes \$330,330 in FA for the Strategic Cropping Land impacts.

As the FA will be recalculated during the EA amendment process, Australia Pacific LNG does not propose to provide any further FA for the SGIP for this application.

7. Public Notification

Australia Pacific LNG is the landholder of the property under which this application is being sought. Due to the nature of the project proposed being similar to the existing activities in the area, along with the applicant being the landholder, no further public notification is being proposed. All properties within a 1km radius of the SGIP are owned by Australia Pacific LNG

Surrounding landholders within 1km of the applicable property will not be approached by Australia Pacific LNG, due to the distances involved from the actual disturbance.

The surrounding landholders outside of Australia Pacific LNG properties are frequently consulted by Australia Pacific LNG due to existing construction and operations in the area.

Due to the volume of petroleum activities in the area, it is not considered that any new impacts will occur and that any additional value would be gained from public notification of this RIDA.

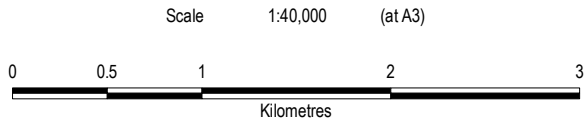
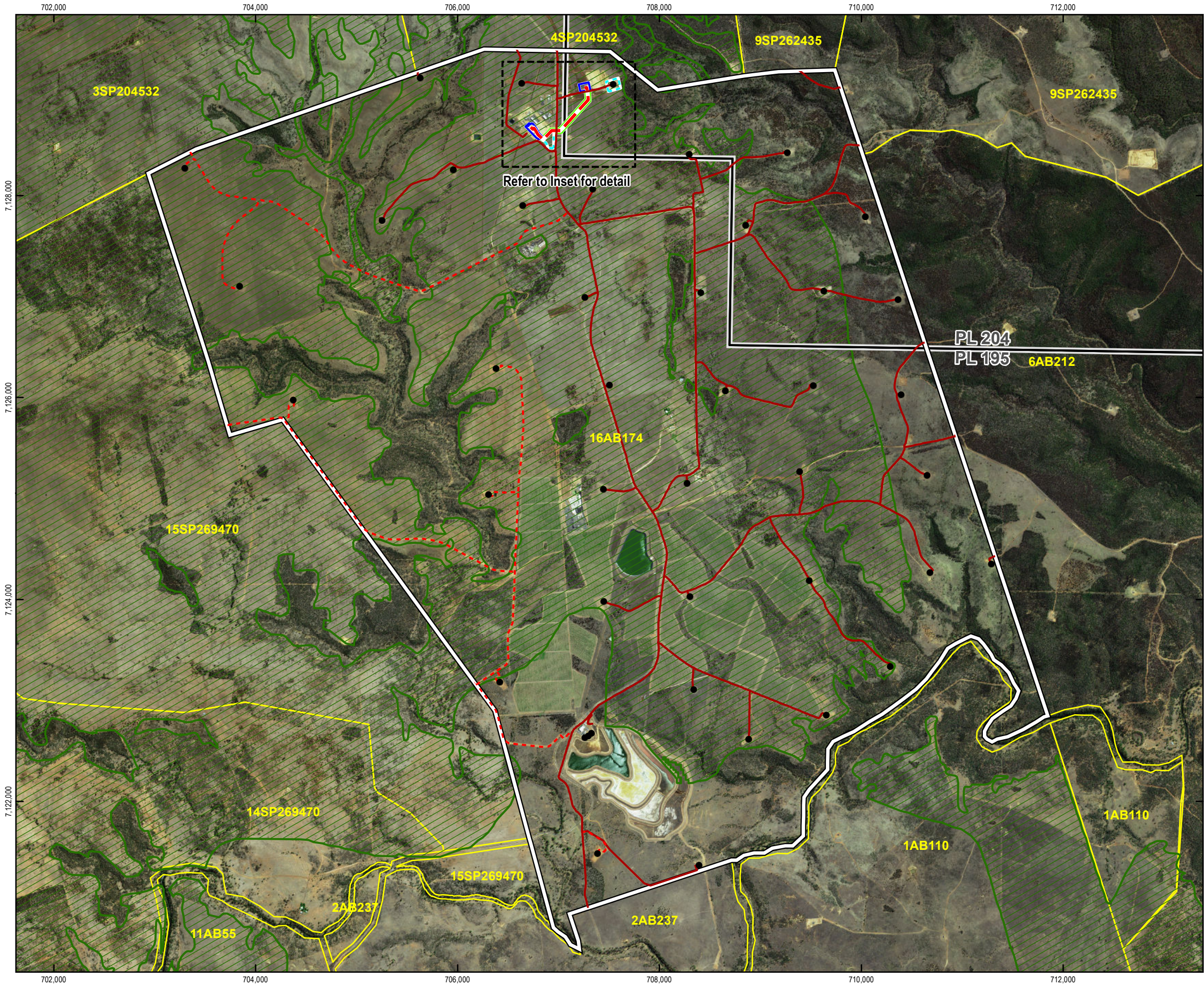
Attachment 1 - Maps

Refer to attached CD for GIS files

- GISWR_29319 (Map 1) - Lot 16 AB174, SGIP, surrounding land and regional interests
- GISWR_29319 (Map 2) - Lot 16 AB174, detailed view of SGIP

- Legend**
- Infrastructure**
- Existing Well
 - Existing Flowline
 - Proposed Flowline
 - Spring Gully Interconnect Pipeline
 - Extra Work Space
 - Laydown Area
 - Right of Way
- Agriculture**
- Strategic Cropping Land
- Boundary**
- Site Location - 16AB174
 - Cadastral Boundary
 - Australia Pacific LNG Operated Permit

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Coordinate System: GDA 1994 MGA Zone 55

Rev	Description	Drawn	Check	QA	Approved	Date
2	Issued For Use	SAW	SD	GNH	SD	28/10/2015
1	Issued For Use	SAW	VB	GNH	SD	23/10/2015
0	Issued For Use	SAW	VB	XML	SD	22/09/2015
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A	Issued For Review	SAW	VB	GNH		21/09/2015

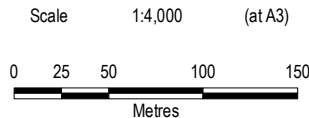
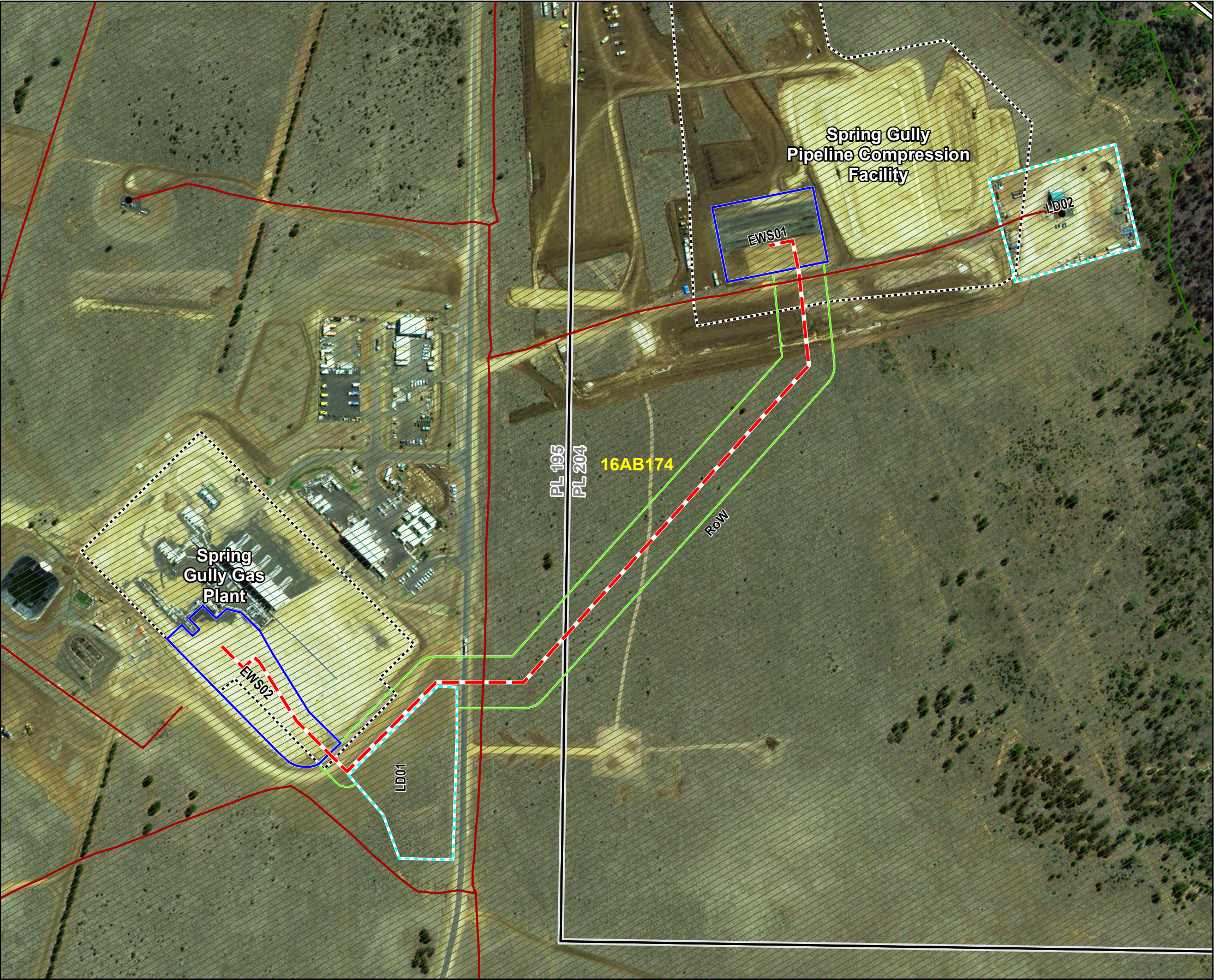
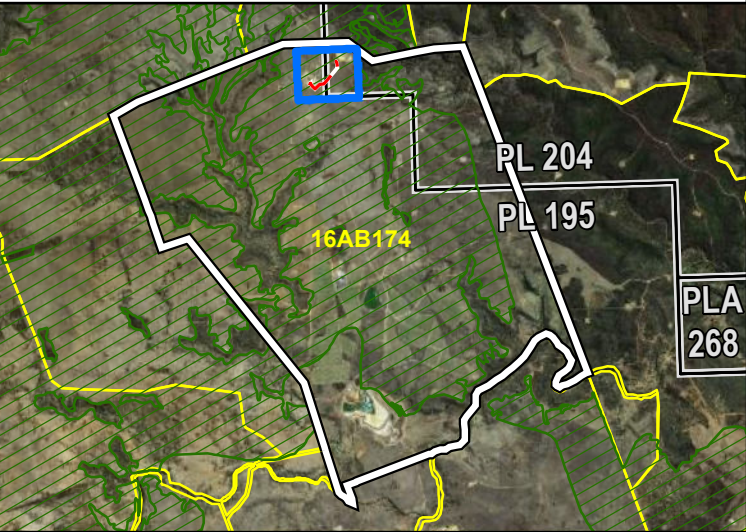


Regional Interests Development Application
Spring Gully Interconnect Pipeline - 16AB174
Date: 29 October 2015

Map Number	Doc No	Rev
1 of 2	Q-1800-15-EA-0075	2
	Map ID GISWR_29319	

- Legend**
- Spring Gully Interconnect Infrastructure**
- Existing Well
 - Existing Flowline
 - Spring Gully Interconnect Pipeline
 - Extra Work Space
 - Laydown Area
 - Right of Way
 - Facility
- Agriculture**
- Strategic Cropping Land
- Boundary**
- Site Location - 16AB174
 - Cadastral Boundary
 - Australia Pacific LNG Operated Permit

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Coordinate System: GDA 1994 MGA Zone 55

Rev	Description	Drawn	Check	QA	Approved	Date
0	Issued For Use	SAW	SD	GNH	SD	29/10/2015
A	Issued For Review	SAW	SD	GNH		28/10/2015



Regional Interests Development Application
Spring Gully Interconnect Pipeline - 16AB174
Date: 29 October 2015

Map Number	Doc No	Rev
2 of 2	Q-1800-15-EA-0075	0
	Map ID GISWR_29319	

Attachment 2 - Relevant Documents

Refer to attached CD:

- Australia Pacific LNG Rehabilitation, Remediation, Recovery and Monitoring Plan (Q-LNG01-15-MP-0107)
- Australia Pacific LNG Construction Environmental Management Plan (Q-LNG01-15-MP-1005)
- Australia Pacific LNG Upstream Pipelines Project Audit Report (Q-1800-15-RP-0132)
- Western High Pressure Gas Network Strategic Cropping Land Photo Monitoring Report (Q-1803-15-RP-0039)