

Tuesday 16 April 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors document

Daedalus | APO0001744

Decision Maker	Monique Meyer
Prepared by	Nicole Wallwood
Title	EL 5323 (1992)
Authorised Representative	
Project name	Daedalus
Activity type	Complying Exploration Activity

Issue

has sought an activity approval in respect of Daedalus, within EL 5323 (1992), at Daedalus EL5323.

Pursuant to section 2.8 of *State Environmental Planning Policy (Resources and Energy) 2021*, development for the purposes of exploration (i.e. prospecting) may be carried out without development consent.

An authority issued under the *Mining Act 1992* is subject to a condition that the authority holder must not carry out an assessable prospecting operation on land over which the authority is granted unless an activity approval has been obtained for the carrying out of the assessable prospecting operation.

As assessable prospecting operations require approval by the Minister under the *Mining Act 1992*, a duty is imposed on determining authorities under Part 5 of the *Environmental Planning and Assessment Act 1979* to:

- examine and take into account to the fullest extent possible all matters affecting or likely to affect the environmental by reason of the proposed activity; and
- if the activity is likely to significantly affect the environment, examine and consider an environmental impact statement in respect of the activity.

The Minister is the determining authority for all exploration activities subject to environmental assessment under Part 5 of the *Environmental Planning and Assessment Act 1979*.

The Decision Maker, under delegation from the Minister, is required to determine whether:

- the proposed activity is not likely to have a significant impact on the environment and is not likely to significantly affect threatened species, populations or ecological communities (or their habitats) or impact biodiversity values and can be approved,
- the proposed activity is likely to have a significant impact on the environment and therefore an Environmental Impact Statement (EIS) is required,
- the proposed activity will be carried out in a declared area of outstanding biodiversity value and is likely to significantly affect threatened species, populations or ecological communities, or their habitats or impact

biodiversity values, meaning a Species Impact Statement (SIS) and/or Biodiversity Development and Assessment Report (BDAR) is required, or

• there is insufficient information to make a decision.

Background

APO0001744 seeking approval under EL 5323 (granted 18/7/1997, expiry 18/7/2028) to undertake the "Daedalus" project involving upto 7x Reverse Circulation drillholes (each to approx 200m depth).

Current security held and required for EL 5323 (1992) is \$128,000.

Approved activities with rehabilitation outstanding on the title include:

• APO0001494 for the "E44 Region EL 5323" project involving 3x reverse circulation holes, approved 20/10/23.

• APO0001463 for the "E44 Seismic Survey" project involving non-explosive 2D seismic surveys, approved 21/7/23.

• APO0001405 for the "E44 Deeps" project involving 4x Diamond drillholes, approved 13/6/23.

The assessment has determined that the activity is not likely to significantly affect the environment, including threatened species or ecological communities (or their habitats), or declared areas of outstanding biodiversity value/critical habitat.

Proposed exploration activity

The proposed exploration activity (including details of the site, the existing environment, impact thresholds and impact management) are described in *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Daedalus* report and the information provided in support of the application.

The objective of the proposed exploration activity is to carry out works on, or to remove samples from, land for the purpose of testing the resource quality and/or quantity of the land. This is consistent with the objects of the *Mining Act 1992*, including to facilitate the discovery and development of resources in NSW.

No alternatives options to the proposed activity were considered.

Security

Refer to RCE Record RCE0001947

Assessment of Impacts (Complying exploration activity)

An assessment of the significance of environmental impacts associated with the proposed activity was undertaken in accordance with the Department of Planning and Environment's "*Guidelines for Division 5.1 assessments*". The results of this assessment are documented in the attached Review of Environmental Factors document.

Additional terms (if approved)

No additional terms are required.

Summary

Based on the information provided in the *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Daedalus* report, and the Review of Environmental Factors document, the proposed activity has been assessed as is not likely to have a significant impact on the environment and therefore an EIS is not required.

The application has been assessed and the recommendation is to Approve the activity.

Certification

I, Nicole Wallwood, certify that I have reviewed and endorsed the contents of the attached Review of Environmental Factors document and, to the best of my knowledge, it is in accordance with the *Environmental Planning and Assessment Act 1979*, the Environmental Planning and Assessment Regulation 2021 and the Guidelines approved under clause 170 of the EP&A Regulation, and the information it contains is neither false nor misleading.

Recommendation

The Decision Maker, under delegation from the Minister:

- Assesses the environmental impact of Daedalus and determines that the activity is is not likely to have a significant impact on the environment and therefore an EIS is not required under Part 5 of the *Environmental Planning and Assessment Act 1979*.
- Approve the activity pursuant to the *Mining Act 1992*.

Review of Environmental Factors document

Criteria	Air Impacts: Air quality impacts (including impacts on nearby sensitive receptors).		
Potential impacts	Particulates and emissions from vehicle exhausts, plant and machinery. Wind erosion and dust from disturbed soils during construction and operations. Dust from vehicles travelling over tracks. Dust generation from operating plant and machinery. Air quality impacts on nearby		
	sensitive receivers.		

Proposed management controls	 Sealed collar and sampling system to be used on rig. Dust suppression unit for collecting sample during reverse circulation drilling, with air filter banks and closeable cyclone valves to limit the potential for dust emissions. Water injection to sampling system when drilling to dampen dust/drilling returns and prevent airborne dust. Clean and maintained drilling rig and ancillary equipment with air filters cleaned on a regular basis. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must comply with cumulative AQ criteria. b. Emissions from the activities should not result in cumulative PM10 levels exceeding 50ug/m3 (24hr) or 30 ug/m3 (annual average) at any occupied residence. c. Emissions from the activities should not result in cumulative PM2.5 emissions exceeding 25 ug/m3 (24hr) or 8 ug/m3 (annual average) at any occupied residence. d. Vehicle speeds limited to minimise dust. e. Roads watered during high traffic periods. f. Surface disturbance managed in accordance with Blue Book. 				
	All disturbed areas to be rehabilitated in according and the second seco	ordance with title cur as soon as p	conditions (Exploration Code of racticable after completion of activity		
Duration	(Including sealing of any borenoles).				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or	No		
How recilient is the environment to	N1/A	Mitigation ?	Low		
cope with impacts?	N/A	level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential	Low		
Can the impacts be mitigated?	Partly	Justification for	or ranking		
Do the operations comply with	Yes				
standards, plans, policies? Criteria	Air Impacts: Greenhouse or ozone impacts.				
Potential impacts	Emissions from combustion of fuel associated with vehicles, plant and machinery during construction, operations and rehabilitation. Fugitive methane emissions from intercepted seams.				
Proposed management controls	Sealed collar and sampling system to be used on rig. Dust suppression unit for collecting sample during reverse circulation drilling, with air filter banks and closeable cyclone valves to limit the potential for dust emissions. Water injection to sampling system when drilling to dampen dust/drilling returns and prevent airborne dust. Clean and maintained drilling rig and ancillary equipment with air filters cleaned on a regular basis. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Petroleum exploration activities cannot be a CEA. CO2 emissions from activities are extremely limited and inconsequential in context of global emissions and impact. Restrictions on use of ozone depleting substances in NSW also limits ozone depletion. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes)				
Duration	Medium term atmospheric residence.				
Application ranking What is the confidence in predicting impacts?	Medium term atmospheric residence. High Are further studies required on impacts or mitigation?				

How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
Can the impacts be mitigated?	Partly	Signification f	or ranking
Do the operations comply with	Ves	Justification	
standards, plans, policies?			
Criteria	Air Impacts: Additional impacts on areas with	n degraded air qu	uality.
Potential impacts	Potential for temperature inversions in winter	to trap dust and	air particulates. Wind erosion
	possible from exposed soils. Particulate	emissions from v	ehicles and machinery. Dust
	generation from operating machinery, vehicle	es travelling over	tracks, etc.
Proposed management controls	Sealed collar and sampling system to be used on rig. Dust suppression unit for collecting sample		
	during reverse circulation drilling, with air filter banks and closeable cyclone valves to limit the		
	potential for dust emissions. Water injection	to sampling syst	em when drilling to dampen
	dust/drilling returns and prevent airborne dus	st. Clean and ma	aintained drilling rig and ancillary
		al Dasis.	
	Activities must comply with CEA Location Re	estrictions. Impac	t Thresholds and Criteria.
		, ,	
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the
	commitment in the application (APO). Relev	ant requirements	s of this Code include:
	a. Activities must comply with cumulative AQ	criteria.	
	b. Emissions from the activities should not re (24br) or 30 ug/m3 (appual average) at apv	suit in cumulativ	e PM10 levels exceeding 500g/m3
	c Emissions from the activities should not re	sult in cumulativ	e PM2 5 emissions exceeding 25
	ug/m3 (24hr) or 8 ug/m3 (annual average) at	any occupied re	er M2.9 emissions exceeding 29
	d. Vehicle speeds limited to minimise dust.		
	e. Roads watered during high traffic periods.		
	f. Surface disturbance managed in accordance with Blue Book.		
	Lange and the second stilling of the land of the second stilling of	to the two of the full to the	less to constants and contine Frankrastica
	Impacts of any drilling limited to immediate v	nt (impacts pedi	due to controls set out in Exploration
		ni (impacts negli	gible due to hature of drining activities).
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity
	(including sealing of any boreholes).		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		significance	
Can the impacts be mitigated?	Partly	Justification f	or ranking
Do the operations comply with	Yes	oustineation	
standards, plans, policies?			
Criteria	Water Impacts: Impacts from the use of surfa	ace or groundwa	ter.
Potential impacts	Water used for exploration not available for e	ecological, stock,	domestic or irrigation purposes.
	Surface runoff can be sediment laden. G	enerally minimal	surface water use (must be licensed
	or use of farm dams through landholder agre	ements). No	use of groundwater but potential loss
	through produced water in drilling / deep excavation operations. Interception, cross		
	contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater		
	uepressurisation effects on surface water.	iviodilisation of	poliutants (such as hydrocarbons) in
	Sanaoo water of aquiters.		

Proposed management controls	SURFACE WATER: No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520. Noting the Creek and associated riparian area are identified as Biodiversity Value in SEED mapping/BOSET Map. GROUND WATER: There no known groundwater sources in the area that will be affected by the activity. Any drill fluids or groundwater encountered through drilling will be captured and pumped from the collar tray to the above ground sumps. This will ensure that no fluids used or encountered through the drilling process can make contact with the local ground or be uncontrollably released into the local environment. As required throughout, and at the end of the program, water will be extracted from the sumps using a vacuum extraction truck and all fluid is deposited in the Surface Surge Dams and processed in accordance with Northparkes Operations 'Operational Water' Management Plan.		
	 Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with Exploration Code of Practice: Environmental Management as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. Activities must not cause adverse impacts to livestock (including any adverse impacts on surface water supplies used by livestock). 		
	consent of owner). Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Departmental Guidelines and Codes of Practice to protect groundwater/aquifers.		
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from storage of wate	er	
Potential impacts	Negligible and only localised impacts from storage of water. Water used for exploration temporarily not available for ecological, stock, domestic or irrigation purposes. Generally minimal redirection of flow and changes to flow rates and volumes of a waterbody. Surface runoff can be sediment laden. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). No use of groundwater but potential loss through produced water in drilling / deep excavation operations.		

Proposed management controls	 located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520. Noting the Creek and associated riparian area are identified as Biodiversity Value in SEED mapping/BOSET Map. GROUND WATER: There no known groundwater sources in the area that will be affected by the activity. Any drill fluids or groundwater encountered through drilling will be captured and pumped from the collar tray to the above ground sumps. This will ensure that no fluids used or encountered through the drilling process can make contact with the local ground or be uncontrollably released into the local environment. As required throughout, and at the end of the program, water will be extracted from the sumps using a vacuum extraction truck and all fluid is deposited in the Surface Surge Dams and processed in accordance with Northparkes Operations 'Operational Water' Management Plan. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. Activities must not cause adverse impacts to livestock (including any adverse impacts on surface water supplies used by livestock). All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or a		
Duration	land use from storage or water).		
Application ranking			
Application ranking What is the confidence in	High	Are further	Na
predicting impacts?	nign	studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes to nat	ural water bodies	s, wetlands or runoff patterns.
Potential impacts	Negligible and only localised changes to surface flows rates and volumes. Surface runoff can be sediment laden. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water.		

Proposed management controls	SURFACE WATER: No drill collars are locat located on previously disturbed agricultural la held in above-ground sumps for pumping an Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed Milpose Creek between proposed drillholes 2 riparian area are identified as Biodiversity Va GROUND WATER: There no known groundy activity. Any drill fluids or groundwater encou from the collar tray to the above ground sum through the drilling process can make contact into the local environment. As required throu extracted from the sumps using a vacuum ex Surge Dams and processed in accordance w Management Plan. Activities must comply with CEA Location Ref Activities must comply with Exploration Code commitment in the application (APO). Relev a. Activities must implement all measures to or quantity. b. All sediment and erosion controls (includir accordance with Blue Book. c. Existing access tracks to be used/upgrade All management and storage of produced was the Exploration Code of Practice: Produced Was the Exploration which requires the m ii. activities which require produced water to incidental groundwater mixed with drilling flui	ed within the pre and. All water col d disposal at the there is an exist 24P519 and 24P alue in SEED ma water sources in intered through c ps. This will ensu- t with the local g ghout, and at the draction truck an vith Northparkes estrictions, Impace e of Practice: Env ant requirements prevent causing ang drainage from ad wherever poss ater must comply Water Managem- nanagement of p be stored on site ids that can be te	scribed 40m buffer. Drill collars are lected during drilling operations will be Northparkes Operations site Surface ing access track/creek crossing across 520. Noting the Creek and associated pping/BOSET Map. the area that will be affected by the trilling will be captured and pumped ure that no fluids used or encountered round or be uncontrollably released e end of the program, water will be d all fluid is deposited in the Surface Operations 'Operational Water' the Thresholds and Criteria. trironmental Management as per the s of this Code include: any adverse impacts on water quality roads/access tracks) to be managed in sible. with the title conditions. In addition, ent, Storage and Transfer applies to roduced water, or (excluding the management of emporarily contained in drilling sumps
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?	Water Impacts: Impacts from aquifer interfer	ence including c	hanges to inter-aquifer connectivity
Potential impacto	No upo of groundwater but notontial lass the	and produced w	nanges to inter-aquiter connectivity.
rotential illipacts	operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		

Proposed management controls	 located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520. Noting the Creek and associated riparian area are identified as Biodiversity Value in SEED mapping/BOSET Map. GROUND WATER: There no known groundwater sources in the area that will be affected by the activity. Any drill fluids or groundwater encountered through drilling will be captured and pumped from the collar tray to the above ground sumps. This will ensure that no fluids used or encountered through the drilling process can make contact with the local ground or be uncontrollably released into the local environment. As required throughout, and at the end of the program, water will be extracted from the sumps using a vacuum extraction truck and all fluid is deposited in the Surface Surge Dams and processed in accordance with Northparkes Operations 'Operational Water' Management Plan. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must minimise cross connection of aquifers or groundwater sources. c. Activities must minimise any depressurisation of aquifers or groundwater sources. d. Coal and petroleum title holders must prepare and implement and Groundwater Monitoring & Modelling Plan in consultation with NSW Office of Water. Boreholes to be constructed, operated and decommissioned in accordance with authority/title conditions, Depa		
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes to flooding or tidal regimes.		
Potential impacts	Negligible and only localised changes to dra sediment laden.	inage flows/flood	ing regime. Surface runoff can be

Proposed management controls	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. SURFACE WATER: No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520. Noting the Creek and associated riparian area are identified as Biodiversity Value in SEED mapping/BOSET Map. GROUND WATER: There no known groundwater sources in the area that will be affected by the activity. Any drill fluids or groundwater encountered through drilling will be captured and pumped from the collar tray to the above ground sumps. This will ensure that no fluids used or encountered through the drilling process can make contact with the local ground or be uncontrollably released into the local environment. As required throughout, and at the end of the program, water will be extracted from the sumps using a vacuum extraction truck and all fluid is deposited in the Surface Surge Dams and processed in accordance with Northparkes Operations 'Operational Water' Management Plan. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the		
	 commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. Existing access tracks to be used/upgraded wherever possible. All management and storage of produced water must comply with the title conditions. In addition, 		
	the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps		
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes	face or groundwa	ster quality and quantity
Botontial impacts	Water used for exploration temporarily not a		aical stock domostic or irrigation
	valuer used for exploration temporarily not available for ecological, stock, domestic or irrigation purposes. Surface runoff can be sediment laden from areas where vegetation has been removed. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Ford across creeks can cause stream bank erosion from vehicle wash. Inappropriate disposal of drilling wastes / overflow from drilling sumps.		

Proposed management controls	SURFACE WATER: No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520. Noting the Creek and associated riparian area are identified as Biodiversity Value in SEED mapping/BOSET Map. GROUND WATER: There no known groundwater sources in the area that will be affected by the activity. Any drill fluids or groundwater encountered through drilling will be captured and pumped from the collar tray to the above ground sumps. This will ensure that no fluids used or encountered through the drilling process can make contact with the local ground or be uncontrollably released into the local environment. As required throughout, and at the end of the program, water will be extracted from the sumps using a vacuum extraction truck and all fluid is deposited in the Surface Surge Dams and processed in accordance with Northparkes Operations 'Operational Water' Management Plan.		
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. Activities must minimise cross connection of aquifers or groundwater sources. c. Activities must minimise any depressurisation of aquifers or groundwater sources. d. Coal and petroleum title holders must prepare and implement and Groundwater Monitoring & Modelling Plan in consultation with NSW Office of Water. e. All sediment and erosion controls to be in accordance with Blue Book to minimise off-site		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies required on impacts or mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	3	level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Degradation of soil or acidification).	quality (including	contamination, salinisation or
Potential impacts	Soil erosion and sediment laden runoff from disturbed areas / areas where vegetation has been removed. Mobilisation of pollutants (such as hydrocarbons) in soils. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Exposure of acid sulfate soils. Soil compaction from construction/operations. Impacts on land with high agricultural capability.		

Proposed management controls	The cover is comprised of alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. Existing access tracks to be used/upgraded wherever possible. d. Controls on sumps and management of chemicals to significantly reduce risk to soils. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).		
	Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes)	cur as soon as p	racticable after completion of activity
Duration	Short term		
Application ranking What is the confidence in	High	Are further	No
predicting impacts?	nığıı	studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Impacts on land with	n high agricultura	l capability.
Potential impacts	Areas used for exploration activities, access tracks, etc temporarily not available for agricultural production. Temporary loss of use of land. Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Short term noise, air quality and visual impacts. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Exposure of acid sulfate soils. Spread of weeds, pest animals and animal/plant diseases. Disruption to agricultural / livestock operations.		
Proposed management controls	The cover is comprised or alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on the environment (including livestock protection, control of weeds, pest animals, discourse and were are here a forberts.		
	potential impacts on the environment (including livestock protection, control of weeds, pest animals, diseases, etc - and use of above-ground sumps required on BSAL. Impacts limited to activity site and subject to compensation and landholder access arrangements. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).		

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
prodicting impacts?	riigii	atudios	110
predicting impacts :		required on	
		imposto or	
		mitiration 2	
	High Deeller er	mugation?	1
How resilient is the environment to	High Resilience	what is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Loss of soil from wir	nd or water erosio	on.
Potential impacts	Increased risk of erosion where vegetation h	as been remove	d Potential erosion of disturbed
. eternar impaoro	areas		
Proposed management controls	The cover is comprised of alluvial soils which	have heen subi	ect to decades of agricultural activity
r roposed management controls	The proposed drill program will not impact th	e local rate of er	osion and dispersion, with all holes
	located on proviously disturbed agricultural	and All vohicle tr	cacke will avoid existing contour banke
	and will use established (agricultural activity)	tracke to travers	acks will avoid existing contour barks
	known instances of netential or actual activity	ulfata agila in the	area, and nana of the proposed
	drilling activities are leasted on strategie agri	unate sons in the	area, and none of the proposed
		culturarianu.	
	Activities must comply with CEAL section Destrictions. Inspect Thresholds and Oritoria		
	Activities must comply with GEA Location Restrictions, Impact Thresholds and Criteria.		
	Activities must comply with (Exploration Code of Practice: Environmental Management) as nor the		
	commitment in the application (APO). Relevant requirements of this Code include:		
	a Minimising vogetation clearing and surface	ant requirements	s of this code include.
	b Provent causing any land degradation or r	e disturbance.	nation of land or water
	b. Freveni causing any land degradation of p	drainaga from	reade/access tracks) to be managed in
	c. All sediment and erosion controls (includin	ig urainage nom	Toaus/access tracks) to be managed in
	d Evisting seeses the lock.		-it-la
	a. Existing access tracks to be used/upgrade	ed wherever poss	sible.
	All disturbed areas to be republicated in see	ardanaa with titla	anditions (Evaluration Code of
	All disturbed areas to be renabilitated in acco		conditions (Exploration Code of
	(including appling of any bareholog)	cur as soon as p	racticable after completion of activity
Duration	(including sealing of any borenoles).		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	NO
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Loss of structural int	egrity of the soil.	
Potential impacts	Soil compaction from access traffic, use of p	lant and machine	ery. Soil erosion from disturbed
-	areas / areas where vegetation has been rer	noved. Mobil	isation of pollutants (such as
	hydrocarbons) in soils.		- · ·

Proposed management controls	The cover is comprised of alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. Existing access tracks to be used/upgraded wherever possible. d. Controls on sumps and management of chemicals to significantly reduce risk to soils. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). Deep ripping of any access tracks which need to be rehabilitated can remediate compaction impacts.			
Duration	Short term		· · · · · · · · · · · · · · · · · · ·	
Application ranking		1		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for	or ranking	
Do the operations comply with	Yes		<u> </u>	
standards, plans, policies?		h 114 a suithe la baile aite	the former land all the second states as	
Criteria	Soil & Stability Impacts: Increased land Insta	idility with high ris	sks from land slides or subsidence.	
Potential impacts	Minimal potential impacts. Soil erosion fr removed. Negligible impacts from induce activity, extraction of groundwater, etc.	om disturbed are ed seismicity or g	as / areas where vegetation has been round movements associated with the	
Proposed management controls	 The cover is comprised of alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book (includes to manage instability risks). 			
	 e. Controls on sumps and management of chemicals to significantly reduce risk to soils. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including continue of activity) 			
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	

cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of significance Can the impacts be mitigated? Fully Justification for ranking Do the operations comply with standards, plans, policies? Noise for vehicles, plant and machinery results in unacceptable impacts on nearby sensitive receivers, such as residences, educational establishments, intensive livestok agriculture, etc. Percention Potential impacts Noise from vehicles, plant and machinery results in unacceptable impacts on nearby sensitive receivers, such as residences, educational establishments, intensive livestok and machinery results in unacceptable impacts. Shots machinery has vibration impacts. Proposed management controls The cover is comprised of alluvial solit which have been subject to decades a productura lativity. The proposed dill program to strategic agricultural lativity lives to subject to decades and productura banks and will use established (agricultural lativity) and will which have been application and dispersion, with all which located on previously disturbed agricultural lativity in the anea, and none of the proposed dirlling advirbules are located on actual add sulfate solits in the accel and one of the proposed dirlling advirbules are located on Restrictions. Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant least 24the prior to declorating explosives. Complance with heriting all properties of advirbing the propoplant in the application (APO).	How resilient is the environment to	High Resilience	What is the	Low
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		machinery has vibration impacts which may	impact vibration	sensitive sites.

Proposed management controls	The cover is comprised of alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Implementing all practicable measures to ensure noise levels meet acceptable criteria for sensitive receivers. b. Notifying potentially affected landholders at least 24hrs prior to detonating explosives. c. Compliance with Interim Construction Noise Guidelines and/or EPL and/or landholder agreements. d. Ground vibration thresholds limited to 5 mm/s (peak particle velocity) at any residence/sensitive receiver. e. Ground vibration thresholds limited to 3 mm/s for any item of Aboriginal / European heritage significance or cliff line greater than 4m in height. f. Vibrating machinery not to be used within 200m of sensitive receivers, item/place of Aboriginal / European heritage significance or any cliff line greater than 4m in height.			
	Impacts limited to immediate vicinity of explo	oration activity.		
Duration Application ranking	Short term			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards plans policies?	Yes			
Criteria	Coastal Location & Processes: Affects coast under projected climate change conditions.	al processes and	l coastal hazards, including those	
Potential impacts	Activities along the coastline / floodways hav levels and increased storm activity under pro increased erosion along the coastline / flood	ve the potential to bjected climate ch ways).	exacerbate coastal erosion (rising sea nange conditions could result in	
Proposed management controls	NA - no coastal areas located within propose	ed activity area		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.	
	 Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. 			
	CO2 emissions from activities are extremely limited and inconsequential in context of global emissions and impact.			
	Restrictions on use of ozone depleting subst	ances in NSW al	so limits ozone depletion.	
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes).			
Duration	Short term			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	

cope with impacts? level of public concern? Can the impacts be mitigated? Yes Rahing of significance Low significance Can the impacts be mitigated? Fully Justification for ranking Low Criteria Hazardous substances or chemicals: impacts associated with the use, generation, storage or transport of hazardous substances or chemicals: intrasport of hazardous substances or chemicals. Inappropriate disposed of duling variase? Potential impacts Mobilisation of politicants (such as hydrocarbons) in air, soils or waters. Inappropriate disposed of duling variase? overflow from thing sumps. Surface in vehicles, to avaid commission the local environment. The right when other equipment is located is lined with plastic domainstant to the local environment. The right when other equipment is located is lined with plastic domain aton to be located for any splastic domainstant to the local environment. The right when other equipments is located is lined with plastic domain aton to be located on a bundle where other equipments is located is lined with plastic domain aton to be located on a bundle where other equipments is located is lined with plastic domain requirements of this Code include: a. Preventing contamination of the environment by the release of chemicals, fuels, other potential politating. Preventing any land degradation or poliution/contamination of the domination of the domination of the commitment in the application or poliution/contaministion of the environment. C. Contrus on sumps and management as losardous or splastic domination of the domicals to spliticanty reduce risk to environment. C. Contrus AS4 (including any drilling by-products) to be co	How resilient is the environment to	High Resilience	What is the	Low
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drilling wastes / overflow from drilling sumps. Fugitive emissions of gases or vapour from drilling operations or the operation of flares. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water.	Potential impacts	Mobilisation of pollutants (such as hvdrocarb	ons) in soils. air	or waters. Inappropriate disposal of
		drilling wastes / overflow from drilling sumps. Fugitive emissions of gases or vapour from drilling operations or the operation of flares. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water		

Proposed management controls	 No Special Waste as defined by the EPA Waste Classification Guidelines will be created during the completion of the exploration program. Waste bins are provided onsite. Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. Recyclable items are separated onsite and deposited in Northparkes Mines recycling bins. Training is provided for all contractors and employees during general inductions on characterisation of waste and methods of disposal. Upon completion of the work any grid pegs or survey tape placed by Northparkes Mines shall be removed. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Preventing contamination of the environment by the release of chemicals, fuels, other potential pollutants. b. Preventing any land degradation or pollution/contamination of land or water. c. Controls on sumps and management of chemicals to significantly reduce risk to environment. d. Use of pesticides, herbicides, fertilisers or other chemicals must comply with legislative requirements. e. Wastes (including any drilling by-products) to be collected, segregated and disposed of lawfully. All management and storage				
Duration Application ranking	Short term				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification for	or ranking		
Do the operations comply with standards plans policies?	Yes				
Criteria	Wastes & Emissions: Impacts on drinking wa	ater catchments,	wetlands, natural water bodies,		
	riparian zones or flood prone areas.	,	, , ,		
Potential impacts	Negligible and only localised changes to drainage flows/flooding regime.Water used forexploration temporarily not available for ecological, stock, domestic or irrigation purposes.Surface runoff can be sediment laden from areas where vegetation has been removed.Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements).No use of groundwater but potential loss through produced water in drilling / deep excavation operations.Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations.Groundwater depressurisation effects on surface water.Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.Ford across creeks can cause stream bank erosion from vehicle wash.Inappropriate disposal of drilling sumps.Inappropriate disposal of drilling				

Proposed management controls	Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM.			
	EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises.			
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.	
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.			
	All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks).			
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity			
Duration	Short term			
Application ranking				
What is the confidence in	High	Are further	No	
predicting impacts?	- iigii	studies	110	
producting impacto.		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Wastes & Emissions: Impacts on groundwate	er recharge area	s or areas with high water table.	
Potential impacts	Minimal impact on recharge and salinity. No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Vegetation clearance in recharge areas can increase salinity. Acid drainage due to exposure of acid sulfate soils.			

Proposed management controls	 Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. All management and storage of produced water must comply with the title conditions. In addition, the Exploration Code of Practice: Produced Water Management, Storage and Transfer applies to i. petroleum exploration which requires the management of produced water, or a. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling sumps or above ground tanks). 			
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Wastes and Emissions: Impacts on coastlines or dunes, alpine areas, karst features or other unique landforms.			
Potential impacts	Negligible and only localised impacts on unique landforms. Mobilisation of pollutants in soils, surface water or aquifers. Short term noise, air quality and visual impacts. Particulate emissions from plant and machinery; fugitive emissions of gases or vapour from drilling operations and the operation of flares. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Exposure of acid sulfate soils. Spread of weeds, pest animals and animal/plant diseases. Damage to structures and sensitive features, such as unique landforms. Activities along the coastline / floodways have the potential to exacerbate coastal erosion (rising sea levels and increased storm activity under projected climate change conditions could result in increased erosion along the coastline / floodways).			

Proposed management controls	NA - coastlines or dunes, alpine areas, karst proposed activity area.	features or othe	r unique landforms located within	
	Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises.			
	Impact limited to activity site and subject to c	compensation and	d landholder access arrangements.	
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.	
	Activities must comply with (Exploration Cod commitment in the application (APO).	e of Practice: En	vironmental Management) as per the	
	All disturbed areas to be rehabilitated in accord Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes).	ordance with title cur as soon as p	conditions (Exploration Code of racticable after completion of activity	
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Wastes & Emissions: Impacts on erosion pro degrees.	one areas, areas	with slopes of greater than 18	
Potential impacts	Minimal potential impacts. Soil erosion a where vegetation has been removed. Mo Riverbed / riparian zone disturbance from us	nd sediment lade obilisation of pollu e of poorly const	en runoff from disturbed areas / areas utants (such as hydrocarbons) in soils. ructed or maintained river crossings.	
Proposed management controls	Local relief in the area is less than 15m, with the locations to be drilled in gently undulating land with relief less than 5m.			
	Any conteminated or general waste will be re-	turned to Northn	arkas mine site and dispaced of in	
	Any contaminated or general waste will be re accordance with Northparkes Mines 'Non Mi cleared of any refuse as soon as practicable (non-putrescible) that contains or is exposed separately from general waste. All drill cutting purposes at NPM. EPL 4784 attached to APO – notes waste fro by the licensee during exploration" can be ac	eturned to Northp neral Waste' Mar after completion to hydrocarbons gs will be remove om "Drilling mud ccepted at the pro	arkes mine site and disposed of in hagement Plan. The drill site shall be of operations. General solid waste will be collected and disposed of ed from site and kept for analysis and cuttings that have been generated emises.	
	Any contaminated or general waste will be re accordance with Northparkes Mines 'Non Mi cleared of any refuse as soon as practicable (non-putrescible) that contains or is exposed separately from general waste. All drill cutting purposes at NPM. EPL 4784 attached to APO – notes waste fro by the licensee during exploration" can be ac Activities must comply with CEA Location Re permitted on slopes exceeding 18 degrees.	eturned to Northp neral Waste' Mar after completion to hydrocarbons gs will be remove om "Drilling mud ccepted at the pro- estrictions, Impac	aarkes mine site and disposed of in hagement Plan. The drill site shall be of operations. General solid waste will be collected and disposed of ed from site and kept for analysis and cuttings that have been generated emises. t Thresholds and Criteria. CEA not	
	Any contaminated or general waste will be re accordance with Northparkes Mines 'Non Mi cleared of any refuse as soon as practicable (non-putrescible) that contains or is exposed separately from general waste. All drill cutting purposes at NPM. EPL 4784 attached to APO – notes waste fro by the licensee during exploration" can be ac Activities must comply with CEA Location Re permitted on slopes exceeding 18 degrees. Activities must comply with (Exploration Cod commitment in the application (APO). Relev a. Minimising vegetation clearing and surface b. Prevent causing any land degradation or p c. All sediment and erosion controls (includin accordance with Blue Book (includes control d. Existing access tracks to be used/upgrade	eturned to Northp neral Waste' Mar after completion to hydrocarbons gs will be remove om "Drilling mud ccepted at the pro- estrictions, Impace e of Practice: En rant requirements e disturbance. pollution/contaming drainage from s to manage inst ed wherever pose	Parkes mine site and disposed of in hagement Plan. The drill site shall be of operations. General solid waste will be collected and disposed of ed from site and kept for analysis and cuttings that have been generated emises. It Thresholds and Criteria. CEA not vironmental Management) as per the s of this Code include: hation of land or water. roads/access tracks) to be managed in ability risks). sible.	
Duration	Any contaminated or general waste will be re accordance with Northparkes Mines 'Non Mi cleared of any refuse as soon as practicable (non-putrescible) that contains or is exposed separately from general waste. All drill cutting purposes at NPM. EPL 4784 attached to APO – notes waste fro by the licensee during exploration" can be ad Activities must comply with CEA Location Re permitted on slopes exceeding 18 degrees. Activities must comply with (Exploration Cod commitment in the application (APO). Relev a. Minimising vegetation clearing and surface b. Prevent causing any land degradation or p c. All sediment and erosion controls (includin accordance with Blue Book (includes control d. Existing access tracks to be used/upgrade All disturbed areas to be rehabilitated in accor Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes). Short term	eturned to Northp neral Waste' Mar after completion to hydrocarbons gs will be remove om "Drilling mud ccepted at the pro- estrictions, Impace e of Practice: En tant requirements e disturbance. bollution/contaming drainage from s to manage inst ed wherever poss ordance with title cur as soon as p	Parkes mine site and disposed of in hagement Plan. The drill site shall be of operations. General solid waste will be collected and disposed of ed from site and kept for analysis and cuttings that have been generated emises. It Thresholds and Criteria. CEA not vironmental Management) as per the s of this Code include: hation of land or water. roads/access tracks) to be managed in ability risks). sible. conditions (Exploration Code of racticable after completion of activity	

Will at the time of the second statement in	1.B.sh	A	NL-		
What is the confidence in	High	Are further	NO		
predicting impacts?		studies			
		required on			
		impacts or			
		mitigation?			
How regilient is the environment to	High Popilioneo	What is the	Low		
How resilient is the environment to	nigh Resilience	what is the	LOW		
cope with impacts?		level of			
		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	Eully Lightification for ranking				
Do the operations comply with	Voc				
standarde plane policios?	103				
Criteria	Wester & Emissioner Impacts on subsidence	or alia araga			
Criteria	wastes & Emissions: Impacts on subsidence	e or slip areas.			
Potential impacts	Soil erosion from disturbed areas / areas wh	ere vegetation ha	as been removed may increase risk of		
	slips. Drilling operations unlikely to contri	ibute to slips or s	ubsidence.		
Proposed management controls	The cover is comprised of alluvial soils which	n have been subi	ect to decades of agricultural activity.		
	The proposed drill program will not impact th	e local rate of er	osion and dispersion, with all holes		
	located on previously disturbed agricultural l	and All vehicle to	cacke will avoid existing contour banks		
	and will use established (agricultural estivity)	tracka ta travar	acks will avoid existing contour banks		
	and will use established (agricultural activity)) tracks to travers	se where necessary. There are no		
	known instances of potential or actual acid s	ulfate soils in the	area, and none of the proposed		
	drilling activities are located on strategic agri	cultural land.			
	Any contaminated or general waste will be re	eturned to Northp	parkes mine site and disposed of in		
	accordance with Northparkes Mines 'Non Mi	neral Waste' Ma	nagement Plan. The drill site shall be		
	cleared of any refuse as soon as practicable	after completion	of operations. General solid waste		
	(non-putrescible) that contains or is exposed	to hydrocarbons	will be collected and disposed of		
	separately from general waste All drill cuttin	as will be remove	ed from site and kent for analysis		
	purposes at NPM	go will be relition			
	FDL 4704 etteched to ADO motor worth for		and authing a that have been as a set of		
	EPL 4784 attached to APO – notes waste tro	om "Drilling mud	and cuttings that have been generated		
	by the licensee during exploration" can be accepted at the premises.				
	Asticities must complement OFA Location Destrictions, loss of Three holds and Other				
	Activities must comply with CEA Location Restrictions, impact Infesholds and Criteria.				
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the		
	commitment in the application (APO) Relev	ant requirements	of this Code include:		
	- Minimialing vagatation clearing and surface	ant requirements	s of this Code include.		
	a. Minimusing vegetation cleaning and surface				
	b. Prevent causing any land degradation or p	poliution/contami	nation of land or water.		
	c. All sediment and erosion controls (includin	ng drainage from	roads/access tracks) to be managed in		
	accordance with Blue Book (includes control	s to manage inst	ability risks).		
	d. Existing access tracks to be used/upgraded wherever possible.				
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of		
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.		
Duration	Short term				
Application ranking					
What is the confidence in	High	Are further	No		
prodicting imagete?	i ngn	Ale luitiel			
predicting impacts?		Studies			
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	High Resilience	What is the	Low		
cope with impacts?		level of			
		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		notontial			
		significance			
Can the immedia be without 10	Fully	significance	er renking		
Can the impacts be mitigated?		Justification f	or ranking		
Do the operations comply with	Yes				
standards, plans, policies?					
Criteria	Wastes & Emissions: Impacts on areas with	acid sulphate, so	odic or highly permeable soils.		
Potential impacts	Vegetation removal unlikely to exacerbate ad	cid sulfate or sod	icity issues. Drilling activities		
• • • • • • •	unlikely to exacerbate acid sulfate or sodicity	issues. Soi	l erosion and sediment laden runoff		
	from disturbed areas / areas where vegetation has been removed.				

Proposed management controls	The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. d. Existing access tracks to be used/upgraded wherever possible. e. Controls on sumps and management of chemicals to significantly reduce risk to soils. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.			
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Wastes & Emissions: Impacts on areas with	salinity or potent	ial salinity problems.	
Potential impacts	Activities unlikely to exacerbate salinity problems. Vegetation removal may reduce vegetation drawdown of water table. Spills of saline produced water. Vegetation removal unlikely to exacerbate acid sulfate or sodicity issues. Soil erosion and sediment laden runoff from disturbed areas / areas where vegetation has been removed.			

Proposed management controls	The cover is comprised of alluvial soils which have been subject to decades of agricultural activity. The proposed drill program will not impact the local rate of erosion and dispersion, with all holes located on previously disturbed agricultural land. All vehicle tracks will avoid existing contour banks and will use established (agricultural activity) tracks to traverse where necessary. There are no known instances of potential or actual acid sulfate soils in the area, and none of the proposed drilling activities are located on strategic agricultural land. Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the licensee during exploration" can be accepted at the premises. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. d. Controls on sumps and management of chemicals to significantly reduce risk to soils. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activ
Duration	Short term

Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	0	level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated land.		
Potential impacts	Activity unlikely to result in any change to existing contaminated soils or migration of contaminants. Soil erosion and sediment laden runoff from disturbed areas / areas where vegetation has been removed. Mobilisation of pollutants (such as hydrocarbons) in soils. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Exposure of acid sulfate soils. Soil compaction from construction / operations. Vegetation removal unlikely to have any impact on contaminated soils.		

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area.		
	Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated		
	Activities must comply with CEA Location Restrictions. Impact Thresholds and Criteria.		
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimising vegetation clearing and surface disturbance. b. Prevent causing any land degradation or pollution/contamination of land or water. c. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book.		
	d. Controls on sumps and management of chemicals to significantly reduce risk to soils.		
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.		
	Impacts generally limited due to short term nature of exploration. Activity unlikely to exacerbate any existing contamination.		
Duration	Short term		
Application ranking			
What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
	Mara	concern?	1
Can the impacts be reversed?	Yes	Ranking of	LOW
		significance	
Can the impacts be mitigated?	Fully	lustification f	or ranking
Do the operations comply with	Yes	oustineation	
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on areas with	degraded or con	taminated water (ground or surface).
Potential impacts	Activities unlikely to have any additional imp	acts on areas wit	h existing degraded or contaminated
	Activities unlikely to have any additional impacts on areas with existing degraded or contaminated water (ground or surface). Boreholes to be cased when aquifers intercepted. Surface runoff can be sediment laden from areas where vegetation has been removed. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Inappropriate disposal of drilling wastes / overflow from drilling sumps. Excavations excluded from acid sulfate soils.		

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area.		
	Any drill fluids or groundwater encountered t collar tray to the above ground sumps. This the drilling process can make contact with th local environment. As required throughout, a from the sumps using a vacuum extraction to Dams and processed in accordance with No Plan.	through drilling w will ensure that n le local ground of and at the end of ruck and all fluid rthparkes Opera	ill be captured and pumped from the to fluids used or encountered through r be uncontrollably released into the the program, water will be extracted is deposited in the Surface Surge tions 'Operational Water' Management
	Any contaminated or general waste will be returned to Northparkes mine site and disposed of in accordance with Northparkes Mines 'Non Mineral Waste' Management Plan. The drill site shall be cleared of any refuse as soon as practicable after completion of operations. General solid waste (non-putrescible) that contains or is exposed to hydrocarbons will be collected and disposed of separately from general waste. All drill cuttings will be removed from site and kept for analysis purposes at NPM. EPL 4784 attached to APO – notes waste from "Drilling mud and cuttings that have been generated by the		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.
	 Activities must comply with (Exploration Code of Practice: Environmental Management) as per commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water of or quantity. b. Activities must minimise cross connection of aquifers or groundwater sources. c. Activities must minimise any depressurisation of aquifers or groundwater sources. d. Coal and petroleum title holders must prepare and implement and Groundwater Monitoring Modelling Plan in consultation with NSW Office of Water. e. All sediment and erosion controls to be in accordance with Blue Book to minimise off-site impacts. 		
	Boreholes to be constructed, operated and c conditions, Departmental Guidelines and Co	lecommissioned des of Practice to	in accordance with authority/title o protect groundwater/aquifers.
	All management and storage of produced water must comply with the title conditions. In a the Exploration Code of Practice: Produced Water Management, Storage and Transfer app i. petroleum exploration which requires the management of produced water, or ii. activities which require produced water to be stored on site (excluding the management of incidental groundwater mixed with drilling fluids that can be temporarily contained in drilling or above ground tanks). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of (including sealing of any boreholes).		with the title conditions. In addition, ent, Storage and Transfer applies to roduced water, or e (excluding the management of emporarily contained in drilling sumps
			conditions (Exploration Code of racticable after completion of activity
	Activities unlikely to exacerbate any existing	surface or groun	dwater contamination.
Duration	Short term		
What is the confidence in	High	Are further	No
predicting impacts?		studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public	Low
	No	concern?	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Vegetation: Any clearing or modification of vegetation (including impacts on wildlife corridors, remnant vegetation & habitat for species of conservation significance).		

Potential impacts	Vegetation removal can decrease available f displace species from regular place of reside	oraging/ shelterii	ng/ breeding habitat for species and
	Impacts on vegetation species and ecologica	al communities.	
	Vegetation removal and activities can tempo	rarily impact wild	life corridors and remnant vegetation.
	Areas used for exploration activities, access	tracks, etc not av	vailable for fauna habitat.
	Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna.		
	Drilling sumps can be a hazard for fauna.		
	Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water.		
	Short term noise and air quality impacts.		
	Soil erosion and sediment laden runoff from contamination or land degradation.	disturbed areas,	that could lead to soil or water
	Exposure of acid sulfate soils.		
	Spread of weeds, pest animals and animal/p	lant diseases.	
	Relatively flat topography with land use in the area is dominated by cereal cropping, with minor grazing – the majority of the area having been cleared for these purposes. The proposed work areas for the activity lie on these cleared land. Minor small stands of Cypress Pine and lesser remnant open eucalypt scrub occur on areas of outcrop or subcrop, typically around low ridges and rises. Drilling avoids areas of native vegetation. Areas identified as "Terrestrial Biodiversity" are located no less than 70m away from the proposed work area, with each drill pad to be fenced off to		
Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna. c. Access track widths unlikely to pose significant barrier to fauna. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of		
Duration	Practice: Rehabilitation). Rehabilitation to oc Short term	cur as soon as p	racticable after completion of activity.
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public	Low
		concern?	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards plans policies?	Yes		
Criteria	Threatened Fauna Species: Any adverse eff	ect on the life cy	cle of any threatened species such that
Potential impacts	No impacts. CEA impact thresholds appl	v. An activity ca	nnot be a CEA if it: 1. occurs on land
	declared as areas of outstanding biodiversity	value / critical h	abitat, 2. has a significant effect on
	threatened species or ecological communites, or their habitats.		

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. SEED search 16.4.24 – Land zoned RU1. Proposed drillholes avoid areas of terrestrial biodiversity and PCTs. Site significantly cleared, minor native veg existing within drilling area. No areas of Bushfire Prone land. Contours indicate flat terrain. No Bionet sightings for endangered or critically endangered species within or near the proposed		
	drilling area. Area of biodiversity value along Milpose Creek running between 4 southern drillholes 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520.		
	 PCTs outside of drillhole locations include: PCT 80 - Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion PCT 76 - Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions Both related to: State listed TEC EEC - 20072 - EEC (Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions) Federal listed TEC EEC - 20395 - Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia PCT 217 - Mugga Ironbark - Western Grey Box - cypress pine tall woodland on footslopes of low hills in the NSW South Western Slopes Bioregion – associated with NSW CEEC - TEC 20149 (Mallee and Mallee-Broombush dominated woodland and shrubland, lacking Triodia, in the NSW South Western Slopes Bioregion) 		
	 MNES report dated 16.4.24 notes – Endangered species likely in the are wakoolica Endangered TECs likely to occur in Grey Box (Eucalyptus microcarpa) C South-eastern Australia Poplar Box Grassy Woodland on All Critically endangered TEC likely to c White Box-Yellow Box-Blakely's Rec SEED search notes PCTs related to above Text 	ea: Australian Pai the area: Grassy Woodland uvial Plains occur within the a d Gum Grassy W TECs are not with	nted Snipe, Koala, Austrostipa Is and Derived Native Grasslands of rea: oodland and Derived Native Grassland nin proposed drilling area.
Duration	N/A		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Threatened Flora Species: Any adverse effe	ect on the life cycl ely to be placed a	e of any threatened species such that at risk of extinction.
Potential impacts	No impacts. CEA impact thresholds app declares as areas of outstanding biodiversity any threatened species or ecological comm	ly. An activity ca y value or critical unities, or their ha	nnot be a CEA if it: 1. occurs on land habitat, 2. has a significant effect on abitats.

	All planned drill pads are in areas currently t	ised for pastoral.	cropping purposes. These areas have
	been extensively disturbed by farming activit	ies with consider	able historical drilling in the area.
	Holes are to be drilled off level ground in agr	icultural land, wit	h no ground preparation required,
	other than manual clearing of material that p	oses a hazard to	either drill crews or equipment (trip or
	fire hazards), such as old crop stubble, stone	es, rotten and fall	en timber. The maximum extent of
		2 Nilvar alaariy	a or everytions proposed
	TOTAL SURFACE DISTURBANCE - SOUTIZ. NII Veg cleaning of excavations proposed.		
	SEED search 16.4.24 – Land zoned RU1. Proposed drillholes avoid areas of terrestrial biodiversity		
	and PCTs. Site significantly cleared, minor native veg existing within drilling area. No areas of		
	Bushfire Prone land. Contours indicate flat terrain.		
	No Bionet sightings for endangered or critica	ally endangered	species within or near the proposed
	drilling area.		
	Area of biodiversity value along Milpose Cre	ek running betwe	een 4 southern drillholes 16.4.24:
	Phone call with applicant confirmed there is Creek between proposed drillboles 24P519	an existing acces	ss track/creek crossing across Milipose
		and 241 020.	
	PCTs outside of drillhole locations include:		
	- PCT 80 - Western Grey Box - White	Cypress Pine tal	l woodland on loam soil on alluvial
	plains of NSW South Western Slopes Biorec	ion and Riverina	Bioregion
	- PCT 76 - Western Grey Box tall gras	ssy woodland on	alluvial loam and clay soils in the NSW
	South Western Slopes and Riverina Bioregic	ons	
	Both related to:	(Inland Cray Pa	v Woodland in the Rivering, NSW
	- State listed TEC EEC - 20072 - EEC South Western Slopes Cobar Penenlain Na	ndewar and Brid	alow Belt South Bioregions)
	- Eederal listed TEC EEC – 20395 - C	irev Box (Eucalvi	atus microcarpa) Grassy Woodlands
	and Derived Native Grasslands of South-eas	stern Australia	nierosarpa, eracey weedande
	- PCT 217 - Mugga Ironbark - Western Grey	Box - cypress pi	ne tall woodland on footslopes of low
	hills in the NSW South Western Slopes Biore	egion – associate	ed with NSW CEEC - TEC 20149
	(Mallee and Mallee-Broombush dominated v	voodland and shr	ubland, lacking Triodia, in the NSW
	South Western Slopes Bioregion)		
	MNES report dated 16 4 24 peter		
	- Endangered species likely in the are	a [.] Australian Pai	nted Snine, Koala, Austrostina
	wakoolica		nice onipe, Roala, Austrostipa
	- Endangered TECs likely to occur in	the area:	
	Grey Box (Eucalyptus microcarpa) G	Grassy Woodland	s and Derived Native Grasslands of
	South-eastern Australia		
	Poplar Box Grassy Woodland on Alluvial Plains		
	- Critically endangered TEC likely to occur within the area:		
	White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland		
	SEED search notes PCTs related to above TECs are not within proposed drilling area.		
Duration	N/A	ECs are not with	nin proposed drilling area.
Duration Application ranking	N/A	ECs are not with	in proposed drilling area.
Duration Application ranking What is the confidence in	N/A N/A	FECs are not with	nin proposed drilling area.
Duration Application ranking What is the confidence in predicting impacts?	N/A N/A	ECs are not with Are further studies	nin proposed drilling area.
Duration Application ranking What is the confidence in predicting impacts?	N/A N/A	Are further studies required on	nin proposed drilling area.
Duration Application ranking What is the confidence in predicting impacts?	N/A N/A	Are further studies required on impacts or	nin proposed drilling area.
Duration Application ranking What is the confidence in predicting impacts?	N/A N/A	ECs are not with Are further studies required on impacts or mitigation?	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A N/A	Are further studies required on impacts or mitigation? What is the level of	nin proposed drilling area.
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A N/A	Are further studies required on impacts or mitigation? What is the level of public	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern?	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	N/A N/A N/A N/A N/A	ECs are not with Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	N/A N/A N/A N/A N/A N/A Areas of outstanding biodiversity value/Critic	ECs are not with Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for cal habitat: This ir	N/A Low or ranking ncludes: a. declared areas of
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	N/A N/A N/A N/A N/A N/A N/A Areas of outstanding biodiversity value/Critic outstanding biodiversity value under the Biod	ECs are not with Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for al habitat: This ir diversity Conserv	N/A N/A Low or ranking ncludes: a. declared areas of ation Act 2016 b. areas declared
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	N/A N/A N/A N/A N/A N/A N/A Areas of outstanding biodiversity value/Critic outstanding biodiversity value under the Biodiversity val	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservient Act 1994.	N/A Low or ranking ncludes: a. declared areas of ation Act 2016 b. areas declared
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A N/A N/A N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe diversity Conservient Act 1994.	N/A N/A Low nor ranking ncludes: a. declared areas of ation Act 2016 b. areas declared ions. CEAs are not permitted to
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A N/A N/A N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe diversity Conservient Act 1994. threshold restrict ing biodiversity vertices of the second form	N/A N/A Low nor ranking ncludes: a. declared areas of ation Act 2016 b. areas declared ions. CEAs are not permitted to alue or critical habitat. CEAs are or effect on anomenous or conclosed
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A N/A N/A N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe diversity Conservent Act 1994. threshold restrict ing biodiversity ve threatened faun- to fora and faun-	N/A N/A Low Low cor ranking N/A Low Cor ranking N/A Low Cor ranking N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N/A N/A N/A N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservient Act 1994. threshold restrict ing biodiversity v threatened fauna to fora and fauna laue/Critical habit	IN/A N/A Low Low Cor ranking N/A Low Cor ranking N/A Low Cor ranking N/A
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N/A - No areas of outstanding biodiversity value N/A - No areas of outstanding biodiversity value	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservient Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	IN/A N/A Low N/A Low Cor ranking Ncludes: a. declared areas of ation Act 2016 b. areas declared tions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches:
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N/A N/A N/A N/A N/A N/A N/A	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservient Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	N/A N/A Low Nor ranking Ncludes: a. declared areas of ation Act 2016 b. areas declared ions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches:
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fi al habitat: This ir diversity Conservient Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	N/A N/A N/A Low Low Cor ranking Ncludes: a. declared areas of ation Act 2016 b. areas declared tions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches: Pviewer=Fisheries_Data_Portal
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservent ent Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	N/A N/A Low or ranking ncludes: a. declared areas of ation Act 2016 b. areas declared ions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches: 2viewer=Fisheries_Data_Portal
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservent ent Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	N/A N/A Low Low Cor ranking Note: a. declared areas of ation Act 2016 b. areas declared tions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches: Pviewer=Fisheries_Data_Portal ts/biodiversity/areas-of-outstanding-
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A N	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conservent ent Act 1994. threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	In proposed drilling area. N/A Low Low or ranking ncludes: a. declared areas of ation Act 2016 b. areas declared tions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches: Pviewer=Fisheries_Data_Portal tts/biodiversity/areas-of-outstanding- ster
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	N/A No areas of outstanding biodiversity value/area of outstanding biodiversity value re N/A - No areas of Outstanding Biodiversity Value re https://wew.environment.	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for diversity Conserving threshold restrict ing biodiversity v threatened faun- to flora and faun- alue/Critical habit	In proposed drilling area. N/A Low Low cor ranking ncludes: a. declared areas of ation Act 2016 b. areas declared tions. CEAs are not permitted to alue or critical habitat. CEAs are a or flora species or ecological a impact tables). at as identified in following searches: eviewer=Fisheries_Data_Portal tts/biodiversity/areas-of-outstanding- ster

Application ranking			
What is the confidence in	N/A	Are further	N/A
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Endangered ecological community or critical	ly endangered ed	cological community: Whether the
	activity: is likely t	to have an adver	se effect on the extent of the ecological
	community such that its local occurrence is l	ikely to be placed	at risk of extinction, or D is likely
	to substantially and adversely modify the cor	nposition of the e	ecological community such that its local
	occurrence is likely to be placed at risk of ex	tinction.	
Potential impacts	Vegetation removal and activities can tempo	rarily impact eco	logical communities. Areas cleared
	for exploration activities, access tracks, etc not available for flora / fauna habitat. Use of		
	pesticides, herbicides, fertilisers or other che	micals have the	potential to build up residues in the
	environment, including in soils and water.	Soil erosion an	d sediment laden runoff from disturbed
	areas, that could lead to soil or water contan	nination or land d	egradation. Spread of weeds, pest
	animals and animal/plant diseases. Rem	oval of vegetatio	n, barriers created by access tracks,
	etc can interrupt movement of fauna species		

Proposed management controls	VEGETATION: Relatively flat topography with land use in the area is dominated by cereal cropping, with minor grazing – the majority of the area having been cleared for these purposes. The proposed work areas for the activity lie on these cleared land. Minor small stands of Cypress Pine and lesser remnant open eucalypt scrub occur on areas of outcrop or subcrop, typically around low ridges and rises. Drilling avoids areas of native vegetation. Areas identified as "Terrestrial Biodiversity" are		
	located no less than 70m away from the pro ensure no disturbance within the "Terrestrial	posed work area, Biodiversity" mai	with each drill pad to be fenced off to ked areas.
	SEED search 16.4.24 – Land zoned RU1. Proposed drillholes avoid areas of terrestrial biodiversity and PCTs. Site significantly cleared, minor native veg existing within drilling area. No areas of Bushfire Prone land. Contours indicate flat terrain		
	drilling area.		
	Area of biodiversity value along Milpose Creek running between 4 southern drillholes 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520.		
	PCTs outside of drillhole locations include: - PCT 80 - Western Grey Box - White plains of NSW South Western Slopes Bioreg	Cypress Pine tall	woodland on loam soil on alluvial Bioregion
	South Western Slopes and Riverina Bioregic Both related to:	ssy woodland on a	alluvial loam and clay soils in the NSW
	 State listed TEC EEC - 20072 - EEC South Western Slopes, Cobar Peneplain, Na Federal listed TEC EEC – 20395 - G and Derived Native Grasslands of South-east 	andewar and Brig ardewar and Brig arey Box (Eucalyp atern Australia	x Woodland in the Riverina, NSW alow Belt South Bioregions) tus microcarpa) Grassy Woodlands
	- PCT 217 - Mugga Ironbark - Western Grey Box - cypress pine tall woodland on footslopes of low hills in the NSW South Western Slopes Bioregion – associated with NSW CEEC - TEC 20149 (Mallee and Mallee-Broombush dominated woodland and shrubland, lacking Triodia, in the NSW South Western Slopes Bioregion)		
	MNES report dated 16.4.24 notes – - Endangered species likely in the area: Australian Painted Snipe, Koala, Austrostipa		
	waxuulica Endangered TECs likely to occur in the area: Grev Box (Eucalyntus microcarpa) Grassy Woodlands and Derived Native Grasslands of		
	South-eastern Australia Poplar Box Grassy Woodland on Alluvial Plains 		
	 Critically endangered TEC likely to occur within the area: White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland 		
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.		
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable.		
	fauna. c. Access track widths unlikely to pose signif	icant barrier to fa	una.
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of
Duration	Practice: Rehabilitation). Rehabilitation to oc Short term	cur as soon as p	racticable after completion of activity.
Application ranking		Arra Granth arr	NL.
what is the confidence in predicting impacts?	High	Are further studies	No
		required on	
		impacts or mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of public concern?	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for	or ranking
Do the operations comply with	Yes		
standards, plans, policies?	Habitat of a threatened species or ecologica	l community	
Potential impacts	Potential impacts limited due to CEA impact	threshold restrict	ions CEAs are not permitted to
	occur in areas of outstanding biodiversity va	lue or critical hab	itat. CEAs are not permitted to
	have a significant impact on threatened faun	a or flora species	or ecological communities (or their
	habitats). (Also refer to flora and fauna impact tables).		

Proposed management controls	 VEGETATION: Relatively flat topography w with minor grazing – the majority of the area work areas for the activity lie on these cleare remnant open eucalypt scrub occur on areas rises. Drilling avoids areas of native vegetati located no less than 70m away from the proj ensure no disturbance within the "Terrestrial SEED search 16.4.24 – Land zoned RU1. Pl and PCTs. Site significantly cleared, minor n Bushfire Prone land. Contours indicate flat te No Bionet sightings for endangered or critica drilling area. Area of biodiversity value along Milpose Cre Phone call with applicant confirmed there is Creek between proposed drillholes 24P519 at PCTs outside of drillhole locations include: PCT 80 - Western Grey Box - White plains of NSW South Western Slopes Bioregic outh Western Slopes and Riverina Bioregic Both related to: State listed TEC EEC - 20072 - EEC South Western Slopes, Cobar Peneplain, Na Federal listed TEC EEC - 20395 - G and Derived Native Grasslands of South-eas - PCT 217 - Mugga Ironbark - Western Grey hills in the NSW South Western Slopes Bioregion South Western Slopes Bioregion) MNES report dated 16.4.24 notes – Endangered species likely in the area wakoolica Endangered TECs likely to occur in file Grey Box (Eucalyptus microcarpa) G South-eastern Australia 	ith land use in the having been clea ed land. Minor sm s of outcrop or su on. Areas identifi posed work area, Biodiversity" ma roposed drillholes ative veg existing errain illy endangered s ek running betwe an existing acces and 24P520. Cypress Pine tal jon and Riverina ssy woodland on ons C (Inland Grey Bo andewar and Brig Grey Box (Eucaly) stern Australia Box - cypress pi egion – associate woodland and shr a: Australian Pai the area: Grassy Woodland	e area is dominated by cereal cropping, ared for these purposes. The proposed hall stands of Cypress Pine and lesser bcrop, typically around low ridges and red as "Terrestrial Biodiversity" are , with each drill pad to be fenced off to rked areas. s avoid areas of terrestrial biodiversity g within drilling area. No areas of species within or near the proposed een 4 southern drillholes 16.4.24: ss track/creek crossing across Milpose Il woodland on loam soil on alluvial Bioregion alluvial loam and clay soils in the NSW w Woodland in the Riverina, NSW yalow Belt South Bioregions) otus microcarpa) Grassy Woodlands ne tall woodland on footslopes of low ad with NSW CEEC - TEC 20149 rubland, lacking Triodia, in the NSW
	White Box-Yellow Box-Blakely's Rec	I Gum Grassy W	oodland and Derived Native Grassland
Duration	N/A		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards plans policies?	N/A		
Criteria	Habitat of protected aquatic species or those	with conservation	on status.
Potential impacts	Negligible and only localised changes to drainage flows/flooding regime. Water used for exploration not available for ecological purposes. Surface runoff can be sediment laden from areas where vegetation has been removed. Generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). No use of groundwater but potential loss through produced water in drilling / deep excavation operations. Interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. Mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers. Ford across creeks can cause stream bank erosion from vehicle wash. Inappropriate disposal of drilling wastes / overflow from drilling sumps.		

Proposed management controls	No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling.		
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.		
	 Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Activities must implement all measures to prevent causing any adverse impacts on water quality or quantity. b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with Blue Book. c. No significant impact on any threatened species, threatened populations, threatened ecological communities, or their habitats. d. No removal of vegetation in waterfront land. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as scen as practicable after completion of activity. 		
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Key Threatening Processes: As outlined in Schedule 4 of Biodiversity Conservation Act 2016. Includes: a. alteration, removal, clearly or degradation of habitat and native vegetation b. loss of hollow bearing trees c. removal of dead wood and dead trees d. invasion and establishment of exotic species.		
Potential impacts	Vegetation removal can harm threatened species or reduce local abundance of species. Areas cleared for exploration activities, access tracks, etc not available for flora habitat. Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Spread of weeds, pest animals and animal/plant diseases.		

Proposed management controls	 VEGETATION: Relatively flat topography w with minor grazing – the majority of the area work areas for the activity lie on these cleare remnant open eucalypt scrub occur on areas rises. Drilling avoids areas of native vegetati located no less than 70m away from the pro ensure no disturbance within the "Terrestrial SEED search 16.4.24 – Land zoned RU1. P and PCTs. Site significantly cleared, minor n Bushfire Prone land. Contours indicate flat to No Bionet sightings for endangered or critica drilling area. Area of biodiversity value along Milpose Cre Phone call with applicant confirmed there is Creek between proposed drillholes 24P519 PCTs outside of drillhole locations include: - PCT 80 - Western Grey Box - White plains of NSW South Western Slopes Bioreg Couth Western Slopes and Riverina Bioregid Both related to: State listed TEC EEC - 20072 - EEC South Western Slopes, Cobar Peneplain, Na - Federal listed TEC EEC - 20395 - C and Derived Native Grasslands of South-eas - PCT 217 - Mugga Ironbark - Western Grey hills in the NSW South Western Slopes Biore (Mallee and Mallee-Broombush dominated w 	ith land use in the having been clea- ed land. Minor sm s of outcrop or su on. Areas identifi- posed work area Biodiversity'' ma roposed drillhole hative veg existing errain ally endangered ek running betwe an existing access and 24P520. Cypress Pine tai gion and Riverina ssy woodland on ons C (Inland Grey Bo andewar and Brig Grey Box (Eucaly) stern Australia Box - cypress pie egion – associate voodland and shi	e area is dominated by cereal cropping, ared for these purposes. The proposed nall stands of Cypress Pine and lesser ibcrop, typically around low ridges and ied as "Terrestrial Biodiversity" are , with each drill pad to be fenced off to rked areas. s avoid areas of terrestrial biodiversity g within drilling area. No areas of species within or near the proposed een 4 southern drillholes 16.4.24: ss track/creek crossing across Milpose Il woodland on loam soil on alluvial Bioregion alluvial loam and clay soils in the NSW ex Woodland in the Riverina, NSW galow Belt South Bioregions) otus microcarpa) Grassy Woodlands ne tall woodland on footslopes of low ed with NSW CEEC - TEC 20149 rubland, lacking Triodia, in the NSW
	South Western Slopes Bioregion)		
	- Endangered species likely in the are	ea: Australian Pai	nted Snipe, Koala, Austrostipa
	 Endangered TECs likely to occur in the area: Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native South-eastern Australia Poplar Box Grassy Woodland on Alluvial Plains Critically endangered TEC likely to occur within the area: White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived SEED search notes PCTs related to above TECs are not within proposed drilling a 		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of res fauna.		
	All disturbed areas to be rehabilitated in acc Practice: Rehabilitation). Rehabilitation to oc	ordance with title ccur as soon as p	conditions (Exploration Code of racticable after completion of activity.
Duration	Short term		
Application ranking	High	Aro further	No
predicting impacts?	nigri	Are further studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Barriers to movement of fauna: Any potentia of conservation significance) or create a bar	I to endanger, di rier to their move	splace or disturb fauna (including fauna ment.

Potential impacts	Vegetation removal can decrease available foraging/ sheltering/ breeding habitat for species and displace species from regular place of residence. Access tracks can act as a barrier to movement of small fauna species. Fauna crossing access tracks may be killed or injured if hit by vehicles. Vegetation removal can remove connective corridors used for wildlife movement. Areas used for exploration activities, access tracks, etc not available for fauna habitat. Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna. Drilling sumps can be a hazard for fauna. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Short term noise and air quality impacts. Soil erosion and sediment laden runoff from disturbed areas, that could lead to soil or water contamination or land degradation. Spread of weeds, pest animals and animal/plant diseases.
Proposed management controls	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.
	VEGETATION: Relatively flat topography with land use in the area is dominated by cereal cropping, with minor grazing – the majority of the area having been cleared for these purposes. The proposed work areas for the activity lie on these cleared land. Minor small stands of Cypress Pine and lesser remnant open eucalypt scrub occur on areas of outcrop or subcrop, typically around low ridges and rises. Drilling avoids areas of native vegetation. Areas identified as "Terrestrial Biodiversity" are located no less than 70m away from the proposed work area, with each drill pad to be fenced off to ensure no disturbance within the "Terrestrial Biodiversity" marked areas.
	SEED search 16.4.24 – Land zoned RU1. Proposed drillholes avoid areas of terrestrial biodiversity and PCTs. Site significantly cleared, minor native veg existing within drilling area. No areas of Bushfire Prone land. Contours indicate flat terrain No Bionet sightings for endangered or critically endangered species within or near the proposed drilling area.
	Area of biodiversity value along Milpose Creek running between 4 southern drillholes 16.4.24: Phone call with applicant confirmed there is an existing access track/creek crossing across Milpose Creek between proposed drillholes 24P519 and 24P520.
	PCTs outside of drillhole locations include: - PCT 80 - Western Grey Box - White Cypress Pine tall woodland on loam soil on alluvial plains of NSW South Western Slopes Bioregion and Riverina Bioregion - PCT 76 - Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions
	Both related to: - State listed TEC EEC - 20072 - EEC (Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions) - Federal listed TEC EEC – 20395 - Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia - PCT 217 - Mugga Ironbark - Western Grey Box - cypress pine tall woodland on footslopes of low hills in the NSW South Western Slopes Bioregion – associated with NSW CEEC - TEC 20149 (Mallee and Mallee-Broombush dominated woodland and shrubland, lacking Triodia, in the NSW South Western Slopes Bioregion)
	 MNES report dated 16.4.24 notes – Endangered species likely in the area: Australian Painted Snipe, Koala, Austrostipa wakoolica Endangered TECs likely to occur in the area:
	 Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia Poplar Box Grassy Woodland on Alluvial Plains Critically endangered TEC likely to occur within the area: White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland SEED search notes PCTs related to above TECs are not within proposed drilling area.
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna.
Duration	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.
Application ranking	

What is the confidence in	High	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
How recilient is the environment to	Lligh Decilionee	mitigation?	Low
How resilient is the environment to	High Resilience	what is the	LOW
cope with impacts :		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards plans policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Any threat ecological community.	to the biological	diversity or ecological integrity of an
Potential impacts	Vegetation removal can decrease available foraging/ sheltering/ breeding habitat for species and		
	displace species from regular place of residence. Areas used for exploration activities, access		
	tracks, etc not available for flora / fauna habi	tat. Mobilisat	ion of pollutants (such as
	hydrocarbons) in soils, air or waters can pote	entially impact fa	una / flora. Drilling sumps can be a
	to build up residues in the environment inclu	olcides, tertilisers	s or other chemicals have the potential
	laden runoff from disturbed areas that could	lead to soil or w	ater contamination or land degradation
	Exposure of acid sulfate soils. Spread of	weeds, pest ani	mals and animal/plant diseases.
	Fauna crossing access tracks may be killed may result in removal of/damage to seed sto	or injured if hit by ck.	vehicles. Surface disturbance
Proposed management controls	Holes are to be drilled off level ground in agr	icultural land, wit	h no ground preparation required,
	other than manual clearing of material that p	oses a hazard to	either drill crews or equipment (trip or
	fire hazards), such as old crop stubble, stone	es, rotten and fall	en timber. The maximum extent of
	any drill pad will be 20x25m.	2 Nil vog ologri	ag or executions proposed
	TOTAL SURFACE DISTURBANCE - 550011	12. Nil veg clean	ig of excavations proposed.
	SURFACE WATER: No drill collars are locat	ed within the pre	scribed 40m buffer. Drill collars are
	located on previously disturbed agricultural land. All water collected during drilling operations will be		
	held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface		
	Surge Dams for recycling.		
	VEGETATION: Relatively flat tonography with land use in the area is dominated by coreal grouping		
	with minor grazing – the majority of the area	having been clea	ared for these purposes. The proposed
	work areas for the activity lie on these cleare	d land. Minor sm	all stands of Cypress Pine and lesser
	remnant open eucalypt scrub occur on areas	s of outcrop or su	bcrop, typically around low ridges and
	rises. Drilling avoids areas of native vegetation	on. Areas identifi	ed as "Terrestrial Biodiversity" are
	located no less than 70m away from the prop	oosed work area	, with each drill pad to be fenced off to
	ensure no disturbance within the "Terrestrial	Biodiversity" ma	rked areas.
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the		
	commitment in the application (APO) Relev	ant requirements	s of this Code include.
	a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable.		
	b. Prevent adverse impacts to fauna caused	by vegetation cle	earing, including relocation of resident
	fauna.		
	c. Setbacks from steep slopes/cliffs to limit ir	npact of shots or	n cave dwelling fauna.
	Noise impacts / disruption to fauna are temp	orary. Vehicle m	ovements are limited and unlikely to
	have significant injury/mortality impacts.		
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.
Duration	Short term		
Application ranking	1.0		NL.
What is the confidence in	Hign	Are further	NO
predicting impacts?		studies required on	
		impacts or	
		mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of	
		public	
Can the imposte he reversed?	Voc	Concern?	L ow
Can the impacts be reversed?	100	notential	
		significance	
Can the impacts be mitigated?	Partly	Justification f	or ranking
Do the operations comply with	Yes		

Criteria	Ecological & Biosecurity Impacts: Creates a organisms into an area. Includes impacts fro animal pests, c. plant pests and diseases, genetically modified organisms.	biosecurity risk or introduces genetically modified m the introduction of: a. mobilisation of pollutants b. d. animal diseases, e. noxious weeds, or f.		
Potential impacts	Mobilisation of pollutants (such as hydrocarbons) in soils, air or waters can potentially impact fauna / flora. Use of pesticides, herbicides, fertilisers or other chemicals have the potential to build up residues in the environment, including in soils and water. Spread of weeds, pest animals and animal/plant diseases. Surface disturbance may result in removal of/damage to seed stock. Weed growth in disturbed areas.			
Proposed management controls	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
	SURFACE WATER: No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling.			
	VEGETATION: Relatively flat topography with land use in the area is dominated by cereal cropping, with minor grazing – the majority of the area having been cleared for these purposes. The proposed work areas for the activity lie on these cleared land. Minor small stands of Cypress Pine and lesser remnant open eucalypt scrub occur on areas of outcrop or subcrop, typically around low ridges and rises. Drilling avoids areas of native vegetation. Areas identified as "Terrestrial Biodiversity" are located no less than 70m away from the proposed work area, with each drill pad to be fenced off to ensure no disturbance within the "Terrestrial Biodiversity" marked areas.			
	Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria.			
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include: a. Minimise extent of vegetation clearing and surface disturbance to as low as practicable. b. Prevent adverse impacts to fauna caused by vegetation clearing, including relocation of resident fauna.			
	c. Requirement to prevent introduction and spread of weeds, pest animals & animal and plant diseases (required to implement "come clean, go clean" protocols).			
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (includes weed growth management).			
	Legislative requirement for landholder acces	s arrangements which may include additional mitigation		
Duration	Short term			
Application ranking	l link	And further No		
predicting impacts?	High	studies required on		
		mitigation?		
How resilient is the environment to cope with impacts?	High Resilience	What is the Low level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of Low potential significance		
Can the impacts be mitigated?	Fully	Justification for ranking		
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Ecological & Biosecurity Impacts: Likely to c	ause a significant bushfire risk.		
Potential impacts	Plant and machinery comprises a potential ignition source.			

Proposed management controls	 Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. SURFACE WATER: No drill collars are located within the prescribed 40m buffer. Drill collars are located on previously disturbed agricultural land. All water collected during drilling operations will be held in above-ground sumps for pumping and disposal at the Northparkes Operations site Surface Surge Dams for recycling. VEGETATION: Relatively flat topography with land use in the area is dominated by cereal cropping, with minor grazing – the majority of the area having been cleared for these purposes. The proposed work areas for the activity lie on these cleared land. Minor small stands of Cypress Pine and lesser remnant open eucalypt scrub occur on areas of outcrop or subcrop, typically around low ridges and rises. Drilling avoids areas of native vegetation. Areas identified as "Terrestrial Biodiversity" are located no less than 70m away from the proposed work area, with each drill pad to be fenced off to ensure no disturbance within the "Terrestrial Biodiversity" marked areas. SEED search 16.4.24 – No areas of Bushfire Prone land. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include undertaking a risk assessment and implementing suitable controls to manage risks (e.g. implementation of controls on activities during Extreme or Catastrophic Fire Conditions will largely 		
	negate risk).	e quiremente	
	Activities must comply with WHS legislative i	requirements.	ks in event of fire
Duration	Short term		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	Νο
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Community Resources: Any degradation of i services and infrastructure resources.	nfrastructure or s	ignificant increase in the demand for
Potential impacts	Limited potential for any significant increase degradation of infrastructure, such as roads	in demand for re and bridges.	sources. Negligible potential for
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal	impact
	Negligible impacts likely.		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO) including protection of all elements of the environment, culture and heritage.		
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (includes weed growth management).		
	Legislative requirement for landholder acces	s arrangements a	and compensation.
Duration	Short term		
Application ranking	lliab	Aug fronte -	No
predicting impacts?	i ngri	studies required on impacts or mitigation?	

How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?	0	level of	
		public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		significance	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes	ousinoution	
standards, plans, policies?			
Criteria	Community Resources: Any diversion of reso	ources to the det	riment of other communities or natural
	systems.		
Potential impacts	Limited potential for any significant diversion	of resources to t	the detriment of other communities or
	natural systems. Negligible impacts and	only localised ch	anges. Areas used for exploration
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal	impact
Proposed management controls	Short-term activity (proposed 5 weeks duration	on) with minima	Impact
	Negligible impacts likely.		
	Activities must comply with CEA Location Re	etrictions Impac	t Thresholds and Criteria
		strictions, impac	a micsholds and ontena.
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the
	elements of the environment, culture and her	ant requirements ritage.	s of this Code include protection of all
	All disturbed areas to be rebabilitated in accord	ordance with title	conditions (Exploration Code of
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as b	racticable after completion of activity.
	(includes weed growth management).	ou. ao ooon ao p	
	Legislative requirement for landholder acces	s arrangements a	and compensation.
Duration	Short term		
Application ranking	N1/A	A Countly and	51/6
What is the confidence in prodicting impacts?	N/A	Are further	N/A
predicting impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
Can the impacts be reversed?	Ν/Δ	Ranking of	
can the impacts be reversed:		notential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		-
standards, plans, policies?			
Criteria	Natural Resources: Any disruption, depletion	or destruction o	f natural resources.
Potential impacts	Limited potential for any significant diversion	of resources to t	the detriment of other communities or
	natural systems. Negligible impacts and	only localised ch	anges. Areas used for exploration
	timber resources	esource. veg	Jetation removal may remove potential
	of increased knowledge of geological resource	ces.	resources other than positive in terms
Proposed management controls	Short-term activity (proposed 3 weeks duration	on) with minimal	impact
	Negligible impacts likely.	,	
	Activities must comply with CEA Location Da	atriationa Impos	t Threeholds and Criteria
		strictions, impac	a miesnolus and Chiena.
	Activities must comply with (Exploration Cod commitment in the application (APO). Relev elements of the environment (water, land, so	e of Practice: En ant requirements il, air), culture ar	vironmental Management) as per the s of this Code include protection of all nd heritage.
	All disturbed areas to be rehabilitated in accord Practice: Rehabilitation). Rehabilitation to oc	ordance with title cur as soon as p	conditions (Exploration Code of racticable after completion of activity.
	Legislative requirement for landholder acces impacts.	s arrangements a	and compensation limit any potential
Duration	N/A		
Application ranking			

What is the confidence in	N/A	Are further	No
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation2	
	N1/A	muyation	
How resilient is the environment to	N/A	What is the	Low
cope with impacts?		level of	
		public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	Low
	1 4/2 4	notontial	2011
		potential	
	51/6	Significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Natural Resources: Any disruption of existing	g activities which	rely on natural resources, including
	forestry, farming or extractive industries (or r	eduction of optio	ns for future activities).
Potential impacts	Limited potential for any significant disruption	n of existing activ	vities (or reduction of future activities)
·	given temporary nature of exploration N	ealiaible impacts	and only localised & temporary
	changes Areas used for exploration acti	vities temporaril	v removed as a natural resource but no
	long term impacts on future evoilability of for	ootry ogriculturo	Lond coile or water resources
	I long term impacts on future availability of for	estry, agricultura	rianu, sons or water resources.
D	Vegetation removal may remove potential tir	nper resources.	
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal	Impact
	All planned drill pads are in areas currently u	ised for pastoral	/ cropping purposes. These areas have
	been extensively disturbed by farming activit	ies with consider	able historical drilling in the area. All
	activities will be communicated with the land	holder to determ	ine any impact on planned agricultural
	activities There will be no permanent change	e to the current la	and use during the program All
	temporary changes will be rebabilitated as so	oon as practical t	to allow normal land use to resume
	lemporary changes will be renabilitated as s		
	Lipipo are to be drilled off level ground in agr	ioultural land wit	the paraved proportion required
		icultural land, wi	in no ground preparation required,
	other than manual clearing of material that p	oses a hazard to	either drill crews or equipment (trip or
	fire hazards), such as old crop stubble, stone	es, rotten and fal	en timber. The maximum extent of
	any drill pad will be 20x25m.		
	TOTAL SURFACE DISTURBANCE = 3500n	n2. Nil veg cleari	ng or excavations proposed.
		5	5 1 1
	Negligible impacts likely		
	Activities must comply with CEA Location Destrictions, Impact Thresholds and Criteria		
	Activities must comply with CEA Location Re	estrictions, impac	c Thresholds and Criteria.
	Activities must comply with (Exploration Cod	e of Practice: En	vironmental Management) as per the
	commitment in the application (APO). Relev	ant requirements	s of this Code include protection of all
	elements of the environment (water, land, so	oil, air), culture ar	nd heritage.
		, ,,	0
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of
	Practice: Rehabilitation) Rehabilitation to oc	cur as soon as n	racticable after completion of activity
		our do ocorr do p	
	Legislative requirement for landholder acces	e arrangemente	and compensation limit any potential
	impacts	s anangements	and compensation limit any potential
Duration	Short term		
Application replace			
Application ranking			
What is the confidence in	N/A	Are further	NO
predicting impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Low
cono with imposto?	1 1/7 1		
cope with impacts?		ievel OI	
		Sliquq	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	Yes		~
standards nlans nolicios?			
Critoria	Natural Resources: Any use which results in	the degradation	of any area reserved for conconvotion
ontella	natural Resources. Any use which results in	the degradation	or any area reserved for conservation
	purposes.		
Potential impacts	LICEA activity not permitted in areas reserved	tor conservation	nurnoses

Proposed management controls	N/A		
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.		
	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
Duration	N/A		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on National acquired under the National Parks and Wildli	parks and other fe Act 1974.	areas reserved or dedicated or
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent change temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m	on) with minimal sed for pastoral ies with consider holder to determi e to the current la pon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.
Duration	N/A		
Application ranking What is the confidence in	NI/A	Aro further	Ν/Δ
what is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with standards, plans, policies?	N/A		

Criteria Potential impacts Proposed management controls	Sensitive Land Impacts: Land subject to a 'conservation agreement' under the National Parks and Wildlife Act 1974 and/or the Biodiversity Conservation Act 2016. This includes: a. Biobanking agreement (established under the now repealed Threatened Species Conservation Act 1995) or a Biodiversity Stewardship agreement established under the Biodiversity Conservation Act 2016. b. Wildlife Refuge agreement established under the Biodiversity Conservation Act 2016. c. Existing conservation agreements that continue to have effect even where legislation has been repealed: □ Trust agreements under the now repealed Nature Conservation Act 2001 □ Property vegetation plans made under the repealed Native Vegetation Act 2003 □ Registered property agreements under the repealed Native Vegetation Conservation Act 1997 Activity not permitted in these areas. N/A Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.		
	Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n	ncultural land, without a hazard to oses a hazard to es, rotten and fal	th no ground preparation required, either drill crews or equipment (trip or len timber. The maximum extent of ng or excavations proposed.
Duration	N/A		
Application ranking What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification f	or ranking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on aquatic Estate Management Act 2014. Impacts on C 2016.	reserves or mar coastal Zone as c	Ine parks declared under the Marine lefined in the Coastal Management Act
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
Duration	N/A		
Application ranking			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	

Can the impacts be mitigated?	N/A	Justification for ranking		
Do the operations comply with	N/A			
standards, plans, policies?				
Criteria	Sensitive Land Impacts: Fishing grounds and commercial fish breeding or nursery areas.			
Potential impacts	Negligible and only localised changes to dra	inage flows/flooding regime. Surface runoff can be		
	sediment laden from areas where vegetation	has been removed. Generally minimal surface		
	water use (must be licensed or use of farm d	lams through landholder agreements). Interception,		
	cross contamination and/or depressurisation	of groundwater systems in drilling operations.		
	hydrocarbons) in surface water or aquifers	Ford across creeks can cause stream bank erosion		
	from vehicle wash. Inappropriate dispose	al of drilling wastes / overflow from drilling sumps.		
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal impact		
	All planned drill pads are in areas currently u	sed for pastoral / cropping purposes. These areas have		
	been extensively disturbed by farming activities with considerable historical drilling in the area. All			
	activities will be communicated with the land	holder to determine any impact on planned agricultural		
	temporary changes will be rebabilitated as so	e to the current land use during the program. All		
	temporary changes will be renabilitated as so	son as practical to allow normal land use to resume.		
	Holes are to be drilled off level ground in agr	icultural land, with no ground preparation required,		
	other than manual clearing of material that p	oses a hazard to either drill crews or equipment (trip or		
	fire hazards), such as old crop stubble, stone	es, rotten and fallen timber. The maximum extent of		
	any drill pad will be 20x25m.	• Niles and a size of the second state of the		
	TOTAL SURFACE DISTURBANCE = 3500h	12. NII veg clearing or excavations proposed.		
	Activities must comply with CEA Location Re	estrictions, Impact Thresholds and Criteria.		
	Activities must comply with (Exploration Cod	e of Practice: Environmental Management) as per the		
	commitment in the application (APO). Relev	ant requirements of this Code include:		
	a. Activities must implement all measures to prevent causing any adverse impacts on water quality			
	b. All sediment and erosion controls (including drainage from roads/access tracks) to be managed in			
	accordance with Blue Book.			
	c. No significant impact on any threatened species, threatened populations, threatened ecological			
	communities, or their habitats.			
	d. No removal of vegetation in waterfront land.			
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of			
	Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.			
Duration	Short term			
Application ranking				
What is the confidence in	High	Are further No		
predicting impacts?		studies		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the Low		
cope with impacts?		level of		
		public		
Can the impacts he reversed?	Vee	Concern?		
Call the impacts be reversed?	res	notential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ranking		
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Sensitive Land Impacts: Impacts on other se	ensitive lands including: a. Land within a state forest		
	special management (and other) zones h	Drinking water catchment protection areas - land		
	declared to be a 'controlled area' or a 'specia	al area' under the Water NSW Act 2014, or a 'special		
	area' under the Water Management Act 2000 or Hunter Water Act 1991. c. Waterfront land as			
	defined under the Water Management Act 20	000.		
Potential impacts	N/A CEA Location restrictions prevent acti	vities in such sensitive locations.		

Proposed management controls	N/A			
	Short-term activity (proposed 3 weeks duration) with minimal impact			
	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have			
	been extensively disturbed by farming activities with considerable historical drilling in the area. All			
	activities. There will be no permanent chang	e to the current la	and use during the program. All	
	temporary changes will be rehabilitated as s	oon as practical t	o allow normal land use to resume.	
	Holes are to be drilled off level ground in agr	icultural land, wit	h no ground preparation required,	
	other than manual clearing of material that p fire hazards) such as old crop stubble stone	oses a nazard to es rotten and fall	en timber The maximum extent of	
	any drill pad will be 20x25m.			
	TOTAL SURFACE DISTURBANCE = 3500n	n2. Nil veg cleari	ng or excavations proposed.	
Duration	N/A			
Application ranking		I	1	
What is the confidence in	N/A	Are further	N/A	
predicting impacts?		required on		
		impacts or		
	N/A	mitigation?		
cope with impacts?	N/A	level of	Low	
		public		
		concern?		
Can the impacts be reversed?	N/A	Ranking of		
		significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A			
Criteria	Sensitive Land Impacts: Impacts on land res	erved or dedicate	ed within the meaning of the Crown	
	Lands Act 1989/Crown Lands Management	Act 2016 for pres	servation of the environment or other	
Potential impacts	environmental protection purposes.			
Proposed management controls	N/A			
	Short-term activity (proposed 3 weeks durati	on) with minimal	impact	
	been extensively disturbed by farming activit	ies with consider	able historical drilling in the area. All	
	activities will be communicated with the land	holder to determ	ne any impact on planned agricultural	
	activities. There will be no permanent chang	e to the current la	and use during the program. All	
	temporary changes will be renabilitated as s	oon as practical t		
	Holes are to be drilled off level ground in agr	icultural land, wit	h no ground preparation required,	
	other than manual clearing of material that p	oses a hazard to	either drill crews or equipment (trip or	
	any drill pad will be 20x25m.	es, rollen and fai	en timber. The maximum extent of	
	TOTAL SURFACE DISTURBANCE = 3500n	n2. Nil veg cleari	ng or excavations proposed.	
Duration	N/A			
Application ranking				
What is the confidence in	N/A	Are further	N/A	
predicting impacts?		required on		
		impacts or		
		mitigation?		
How resilient is the environment to cope with impacts?	N/A	level of	Low	
		public		
		concern?		
Can the impacts be reversed?	N/A	Ranking of		
		significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A			
Criteria	Sensitive Land Impacts: Impacts on land ide	ntified as wildern	ess or declared a wilderness area	
	under the Wilderness Act 1987.			
Defendial incorrector	Activity not permitted in these areas.			

Proposed management controls	N/A			
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.			
	other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
Duration	N/A			
Application ranking				
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A			
standards, plans, policies? Criteria	Sensitive Lands: Impacts on wetlands of international significance designated under the Ramsar Convention on Wetlands and those designated as a nationally important wetland in the Directory of			
Potential impacts	Activity not permitted in these areas.			
Proposed management controls	N/A			
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
Duration Application ranking	N/A			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A			
Criteria	Sensitive Land Impacts: Impacts on land ide of biodiversity / conservation significance or management. Includes Coastal Wetlands an Planning Policy (Resilience and Hazards) 20	Sensitive Land Impacts: Impacts on land identified in an environmental planning instrument as being of biodiversity / conservation significance or zoned for environmental conservation, protection and/or management. Includes Coastal Wetlands and Littoral rainforests under State Environmental Planning Policy (Resilience and Hazards) 2021.		
Potential impacts	Activity not permitted in these areas.			

Proposed management controls	N/A		
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.		
	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
Duration	NI/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification for	or ranking
Do the operations comply with	N/A		
standards, plans, policies? Criteria	Sensitive Land Impacts: Impacts on Aborigin objects under the National Parks and Wildlife identified in an environmental planning instru	∣ al heritage prote e Act 1974 b. A ıment.	ction areas: a. Aboriginal places and reas of Aboriginal cultural significance
Potential impacts	Activity not permitted in these areas.		
Proposed management controls	N/A		
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
Duration Application repking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	
Can the impacts be mitigated?	N/A	Justification for	or ranking
Do the operations comply with	N/A		
Criteria	Sensitive Land Impacts: Impacts on heritage protection areas (historic or natural): a. Nationally and internationally recognised heritage sites or areas (World Heritage List, National Heritage List of Commonwealth Heritage List) b. Items listed on State Heritage c. Heritage items and conservation areas identified in an environmental planning instrument		
- otential impacts	OLA activities not permitted in these areas.		

Proposed management controls	N/A			
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required,			
	fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
Duration	N/A			
Application ranking			r	
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to	N/A	What is the	Low	
cope with impacts?		level of		
		concern?		
Can the impacts be reversed?	N/A	Ranking of		
		potential		
		significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with standards plans policies?	N/A			
Criteria	Sensitive Land Impacts: Impacts on commun	i hitv land classifie	d under the Local Government Act	
	1993 (for which a plan of management has b	peen prepared).		
Potential impacts	Activity not permitted in these areas.	Activity not permitted in these areas.		
	N/A			
Proposed management controls	N/A			
Proposed management controls	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m	on) with minimal used for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All to allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin Are further studies required on impacts or mitigation?	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin Are further studies required on impacts or mitigation? What is the	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin n2. Nil veg clearin Are further studies required on impacts or mitigation? What is the level of public concern?	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin n2. Nil veg clearin n2. Nil veg clearin n2. Nil veg clearin mitigation? What is the level of public concern? Ranking of	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed.	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin n2. Nil veg clearin n2. Nil veg clearin n2. Nil veg clearin mitigation? What is the level of public concern? Ranking of potential significance	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed. N/A	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin n2. Nil veg clearin n2. Nil veg clearin mitigation? What is the level of public concern? Ranking of potential significance Justification for	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed. N/A	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determi e to the current la oon as practical t icultural land, wit oses a hazard to es, rotten and fall n2. Nil veg clearin n2. Nil veg clearin n3. Nil veg clearin	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed. N/A	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determine to the current la oon as practical t icultural land, wito oses a hazard to es, rotten and fall n2. Nil veg clearing n2. Nil veg clearing n3. Nil veg clearing n4. Nil v	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed. N/A	
Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	N/A Short-term activity (proposed 3 weeks durati All planned drill pads are in areas currently u been extensively disturbed by farming activiti activities. There will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as set Holes are to be drilled off level ground in agr other than manual clearing of material that p fire hazards), such as old crop stubble, stone any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500n N/A N/A N/A N/A N/A N/A N/A N/A	on) with minimal ised for pastoral ies with consider holder to determine to the current la oon as practical t icultural land, wito oses a hazard to es, rotten and fall n2. Nil veg clearing n2. Nil veg clearing n3. Nil v	impact / cropping purposes. These areas have able historical drilling in the area. All ine any impact on planned agricultural and use during the program. All o allow normal land use to resume. h no ground preparation required, either drill crews or equipment (trip or en timber. The maximum extent of ng or excavations proposed. N/A	

Proposed management controls	SEED search 16.4.24 – No areas of Bushfire	e Prone land	
	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other there many all allocing of material that pages a barger to allow drill around a conjugation of the program.		
	fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code including undertaking a risk assessment and implementing suitable controls to manage risks (e.g. implementation of controls on activities during Extreme or Catastrophic Fire Conditions will largely negate risk).		
	Activities must comply with WHS legislative	requirements.	
	Any existing/proposed access tracks can be	used as firebrea	ks in event of fire.
Duration Application repking	Short term		
What is the confidence in	High	Are further	No
predicting impacts?	5	studies required on impacts or mitigation?	
How resilient is the environment to	High Resilience	What is the	Low
cope with impacts?		level of public	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
Can the impacts be mitigated?	Fully	Justification f	or ranking
Do the operations comply with	Yes		
Criteria	Social Impacts: Any impacts which result in a community, including changes to workforce of change in demand for community resources labour force).	a change in the d or industry structi (eg community fa	lemographic structure of the ure of the area/region. Including acilities, community services and
Potential impacts	Limited potential for any significant change in Negligible impacts and only localised change increase in demand for accommodation, foo to warrant significant changes in supply.	n the demograph es in demand for d, mechanical an	ic structure of the community. community resources. Minimal d fuel supplies, etc. Not large enough
Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.		
	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.		
	Negligible impacts likely due to low personne	el numbers and to	emporary nature of exploration.
Duration	Generally positive for suppliers of services a Short term	na gooas utilised	
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or	No
		muyauon?	1

How resilient is the environment to	High Resilience	What is the	Low		
cope with impacts?		level of			
		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with	Yes				
Critoria	Social Impacts: Any environmental impact that may cause substantial chance or disruption to the				
	community (including loss of facilities or loss of community identity).				
Potential impacts	Environmental impacts from activities not of a nature to cause any significant or long term change or				
	disruption to community. Areas used for exploration activities, temporarily removed from natural				
Drepeed menorement controle	systems and / community use. Short term noise, air quality and visual impacts.				
Proposed management controls	Systems and r community use. Short term noise, air quality and visual impacts. Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of				
	(including sealing of any boreholes).				
Duration	Short term				
Application ranking					
What is the confidence in	High	Are further	No		
predicting impacts?		Studies			
		impacts or			
		mitigation?			
How resilient is the environment to	High Resilience	What is the	Low		
cope with impacts?	right toollionoo	level of	2011		
		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
•••••		potential			
		significance			
Can the impacts be mitigated?	Partly	Justification f	or ranking		
Do the operations comply with standards plans policies?	Yes				
Criteria	Social Impacts: Any impacts which result in s	some individuals	or communities being significantly		
	disadvantaged (e.g. change to community fa	cilities, services	or labour force).		
Potential impacts	Impacts from activities not of a nature to cau	se any significan	t or long term change or disruption to		
-	community. Limited potential to significar	ntly impact on inc	lividuals or communities - short term		
	impacts only. Areas used for exploration	activities, tempo	rarily removed from natural systems		
	and / community use. Short term noise, air quality and visual impacts.				

Proposed management controls	 Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment (water, land, soil, air), culture and heritage. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity. Legislative requirement for landholder access arrangements and compensation limit any potential impacts. Compensation under Mining Act available to mitigate compensation. Activities must comply with 			
Application ranking	Short term			
What is the confidence in	High	Are further	No	
predicting impacts?	, ngu	studies required on impacts or mitigation?		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of	Low	
-		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Social Impacts: Any impacts on the health, s	afety, privacy or	welfare of individuals or communities	
Detential immente	caused by factors such as pollution, odour, f	ioise, vibration, li	gnung, visual impacts, etc).	
Potential impacts	Activities not of a nature to cause any significantly	cant or long term	nealth, safety, privacy or welfare	
	impacts. Limited potential to significantly impact on individuals or communities - short term impacts only. Short term and temporary noise, air quality and visual impacts.			

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include protection of all elements of the environment (water, land, soil, air), culture and heritage.			
	impacts. Compensation under Mining Act available to WHS legislative requirements	mitigate comper	nsation. Activities must comply with	
Duration	Short term			
Application ranking		I		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards plans policies?	Yes			
Criteria	Social Impacts: Effect on a locality, place or archaeological, architectural, cultural, historic value for present or future generations?	building having a cal, scientific or s	esthetic, anthropological, social significance or other special	
Potential impacts	Negligible potential to effect a locality, place archaeological, architectural, cultural, historic value due to location restrictions of a CEA.	or building havin cal, scientific or s Short term an	g aesthetic, anthropological, social significance or other special d temporary impacts only.	
Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.			
	Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
	Negligible impacts likely due to low impact or of exploration.	f complying explo	pration activities and temporary nature	
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.	
	Activities must comply with (Exploration Cod commitment in the application (APO).	e of Practice: En	vironmental Management) as per the	
	Impacts limited to immediate vicinity of explo	pration activity.		
Description (
Duration	Short term			

What is the confidence in	High	Are further	No	
predicting impacts?		studies		
		required on		
		impacts or		
	Libels Dis Stresses	mitigation?	1	
How resilient is the environment to	High Resilience	what is the	LOW	
cope with impacts?		level of		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential	2011	
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Social Impacts: Impacts on communities with	n strong sense of	identity.	
Potential impacts	Community likely to include members who have	ave concerns ab	out possible future mining following any	
	exploration program. Short term and tem	porary impacts c	only.	
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal	impact	
	All planned drill pads are in areas currently u	ised for pastoral	/ cropping purposes. These areas have	
	been extensively disturbed by farming activit	ies with consider	able historical drilling in the area. All	
	activities will be communicated with the land	noider to determi	ine any impact on planned agricultural	
	temporary changes will be rebabilitated as so	oon as practical t	and use during the program. All	
	temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.			
	Holes are to be drilled off level ground in agricultural land, with no ground preparation required			
	other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or			
	fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of			
	any drill pad will be 20x25m.			
	TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed.			
	Short term impacts on the community and pr	edominantly lim	ited to immediate site.	
	Subject to landholder agreement and any co	mpensation.		
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of	
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity.	
Duration	Short term		· · · · ·	
Application ranking				
What is the confidence in	Medium	Are further	No	
predicting impacts?		studies		
		required on		
		Impacts or		
How resilient is the environment to	High Resilience	What is the	Low	
cone with impacts?	l light Resilience		LOW	
cope with impacts i		public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
•		potential		
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?	Or dellar and the large state and the state of the			
Criteria	Social Impacts: Impacts on disadvantaged c	ommunities.		
Potential impacts	No negative impacts predicted.			

Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Short term impacts on the community and predominantly limited to immediate site. Subject to landholder agreement and any compensation. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of			
Duration	Short term		completen of doutity.	
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	a decrease to net economic welfare.		activity (positive or negative), including	
Potential impacts	No significant impacts predicted. Minima mechanical and fuel supplies, etc. Not large	l increase in derr enough to warra	nand for accommodation, food, ant significant changes in supply	
Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Negligible impacts likely due to low personnel numbers and temporary nature of exploration. Generally positive for suppliers of services and goods utilized			
Application ranking	Short term			
What is the confidence in	High	Are further	No	
predicting impacts?		studies required on impacts or mitigation?		
cope with impacts?	nığı resillerice	level of public concern?		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Economic Impacts: Any impacts that result in	n a decrease in th	ne economic stability of the community.	

Potential impacts	Activities not of a scale to warrant changes in supply side. Temporary increase in demand will result in increased income for some suppliers			
Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Negligible impacts likely due to low personnel numbers and temporary nature of exploration.			
Duration	Short term		-	
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Economic Impacts: Any impacts which result in a change to the public sector revenue or expenditure base.			
Potential impacts	Rehabilitation security bond covers any futur exploration may lead to significant mining inv impacts from exploration.	re public liability f vestment. Lin	or rehabilitation. Investment in nited long term negative economic	
Proposed management controls	Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.			
Duration	Short term	mar expression,	initial ing taxtee item hagee	
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	No	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Heritage Impacts: Any impacts on a locality, heritage significance.	place, landscape	e, building or archaeological relic of	
Potential impacts	Damage to structures and sensitive features. Limited potential to significantly impact on locality, places, landscapes or buildings. Short term noise, air quality and visual impacts. Potential for temporary impact on aesthetics of a locality.			

Proposed management controls	 Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of 			
	(including sealing of any boreholes).	-		
Duration	Short term			
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes			
Criteria	Aesthetic Impacts: Any impacts on the visual flaring of gas.	l or scenic landso	cape, including lighting, venting or	
Potential impacts	Limited potential to significantly impact on vis quality and visual impacts. Potential for t during night time operations and use of acce	sual or scenic lar emporary impact ss tracks by vehi	ndscape. Short term noise, air on aesthetics of a locality. Lighting icles at night may affect local amenity.	
Proposed management controls	 Short-term activity (proposed 3 weeks duration) with minimal impact All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including water, land, air), culture and heritage (including code areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including code areas to be rehabilitation). 			
Duration	Short term			
Application ranking	High	Are further	No	
predicting impacts?	i ngn	studies required on impacts or mitigation?		

How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
		concern?		
Can the impacts be reversed?	N/A	Ranking of	Low	
		potential		
Can the impacts be mitigated?	Fully	Signification f	or ranking	
Do the operations comply with	Yes	Justification		
standards, plans, policies?	103			
Criteria	Aesthetic Impacts: Areas or items of high ae	sthetic or scenic	value.	
Potential impacts	Limited potential to significantly impact on aesthetic or scenic value Short term noise, air quality			
	and visual impacts. Potential for temporary impact on aesthetics of a locality. Lighting during			
	night time operations and use of access tracks by vehicles at night may affect local amenity.			
	Exploration activities, including any removal	of vegetation and	d access track locations, may impact	
	on visual amenity.		-	
Proposed management controls	Short-term activity (proposed 3 weeks durati	on) with minimal	impact	
	All planned drill pads are in areas currently u	ised for pastoral	/ cropping purposes. These areas have	
	activities will be communicated with the land	holder to determi	able historical drilling in the area. All	
	activities There will be no permanent change	e to the current la	and use during the program All	
	temporary changes will be rehabilitated as so	oon as practical t	o allow normal land use to resume.	
	Holes are to be drilled off level ground in agr	icultural land, wit	h no ground preparation required,	
	other than manual clearing of material that p	oses a hazard to	either drill crews or equipment (trip or	
	fire nazards), such as old crop stubble, stone	es, rotten and fail	en timper. The maximum extent of	
	TOTAL SURFACE DISTURBANCE = 3500n	n2. Nil veg clearin	ng or excavations proposed.	
	Short term impacts predominantly limited to	immediate site.		
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria.	
	Activities must comply with (Exploration Code of Practice: Environmental Management) as per the			
	commitment in the application (APO). Relevant requirements of this Code include minimising			
	potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage)			
	All disturbed areas to be rehabilitated in acco	ordance with title	conditions (Exploration Code of	
	Practice: Rehabilitation). Rehabilitation to oc	cur as soon as p	racticable after completion of activity	
	(including sealing of any boreholes).			
Duration	Short term			
Application ranking What is the confidence in	High	Are further	No	
predicting impacts?	- iigii	studies		
h		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
Can the impacts be reversed?	Vac	Banking of	Low	
Call the impacts be reversed?	res	notential	LOW	
		significance		
Can the impacts be mitigated?	Partly	Justification f	or ranking	
Do the operations comply with	Yes		~~~~~	
standards, plans, policies?	Cultural Impacts: Any disturbance of the gray	und surface or ar	av culturally modified trace (o.g. a coor	
ontella	tree).		iy culturally moulled trees (e.g. a scal	
Potential impacts	Short term ground disturbance. Potential	for temporary in	npact on aesthetics of a locality.	

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. AHIMS search dated 4/4/24: Nil Aboriginal sites or places identified within the proposed activity area. NPO will also undertake an inhouse Level One visual assessment of the drill sites for any unidentified Cultural Heritage artefacts using appropriately experienced/trained personnel. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities cannot occur on land declared an Aboriginal Place and activities must not harm Aboriginal Objects. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage).			
	(including sealing of any boreholes)	cur as soon as p	racticable after completion of activity	
Duration	Short term			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for	or ranking	
Do the operations comply with standards plans policies?	Yes			
Criteria	Cultural Impacts: Any impacts on known Abo	original objects or	Aboriginal places.	
Potential impacts	Short term ground disturbance. Potential	l for impact on At	ooriginal objects and places through	
Proposed management controls	 ground disturbance, excavations, vegetation clearing, etc. All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. AHIMS search dated 4/4/24: Nil Aboriginal sites or places identified within the proposed activity area. NPO will also undertake an inhouse Level One visual assessment of the drill sites for any unidentified Cultural Heritage artefacts using appropriately experienced/trained personnel. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities cannot occur on land declared an Aboriginal Place and activities must not harm Aboriginal Objects. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (including sealing of any boreholes). 			
	activities will be communicated with the land activities. There will be no permanent chang- temporary changes will be rehabilitated as so AHIMS search dated 4/4/24: Nil Aboriginal si area. NPO will also undertake an inhouse Level O unidentified Cultural Heritage artefacts using Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Activities must comply with (Exploration Cod commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in acco Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes).	holder to determine e to the current la oon as practical t ites or places ide ne visual assess g appropriately ex estrictions, Impac Place and activit le of Practice: En vant requirements onment (including pordance with title ccur as soon as p	and use during the program. All o allow normal land use to resume. ntified within the proposed activity ment of the drill sites for any perienced/trained personnel. t Thresholds and Criteria. Activities ies must not harm Aboriginal Objects. vironmental Management) as per the s of this Code include minimising water, land, air), culture and heritage conditions (Exploration Code of racticable after completion of activity	
Duration	Activities must comply with CEA Location Cod cannot occur on land declared an Aboriginal Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Activities must comply with (Exploration Cod commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in acco practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes). Short term	holder to determine to the current la oon as practical t ites or places ide ne visual assessing appropriately ex- estrictions, Impac Place and activit Place and activit e of Practice: En cant requirements porment (including pordance with title cour as soon as p	and use during the program. All o allow normal land use to resume. ntified within the proposed activity ment of the drill sites for any perienced/trained personnel. t Thresholds and Criteria. Activities ies must not harm Aboriginal Objects. vironmental Management) as per the s of this Code include minimising water, land, air), culture and heritage conditions (Exploration Code of racticable after completion of activity	
Duration Application ranking	activities will be communicated with the land activities. There will be no permanent chang- temporary changes will be rehabilitated as so AHIMS search dated 4/4/24: Nil Aboriginal si area. NPO will also undertake an inhouse Level O unidentified Cultural Heritage artefacts using Activities must comply with CEA Location Re- cannot occur on land declared an Aboriginal Activities must comply with (Exploration Cod commitment in the application (APO). Relev potential impacts on all aspects of the enviro (Aboriginal and Non-Indigenous heritage). All disturbed areas to be rehabilitated in acco Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes). Short term	holder to determine to the current la oon as practical t ites or places ide ne visual assess appropriately ex estrictions, Impac Place and activit the of Practice: En vant requirements onment (including ordance with title cur as soon as p	and use during the program. All o allow normal land use to resume. ntified within the proposed activity ment of the drill sites for any perienced/trained personnel. t Thresholds and Criteria. Activities ies must not harm Aboriginal Objects. vironmental Management) as per the of this Code include minimising water, land, air), culture and heritage conditions (Exploration Code of racticable after completion of activity	

How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?		level of		
		public		
Can the impects he reversed?	Yee	Concern?	Low	
Call the impacts be reversed?	Tes	notential		
		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes		~	
standards, plans, policies?				
Criteria	Cultural impacts: Affects areas where the landscape features indicate the likely presence of Aboriginal objects.			
Potential impacts	Short term ground disturbance. Potential for impact on Aboriginal objects and places through ground disturbance, excavations, vegetation clearing, etc.			
Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. AHIMS search dated 4/4/24: Nil Aboriginal sites or places identified within the proposed activity area. NPO will also undertake an inhouse Level One visual assessment of the drill sites for any unidentified Cultural Heritage artefacts using appropriately experienced/trained personnel. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities cannot occur on land declared an Aboriginal Place and activities must not harm Aboriginal Objects. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage).			
	All disturbed areas to be rehabilitated in according Practice: Rehabilitation). Rehabilitation to oc (including sealing of any boreholes).	ordance with title ocur as soon as p	conditions (Exploration Code of racticable after completion of activity	
Duration	Short term			
Duration Application ranking	Short term	And Courth and		
Duration Application ranking What is the confidence in predicting impacts?	Short term High	Are further studies	No	
Duration Application ranking What is the confidence in predicting impacts?	Short term High	Are further studies required on	No	
Duration Application ranking What is the confidence in predicting impacts?	Short term High	Are further studies required on impacts or	No	
Duration Application ranking What is the confidence in predicting impacts?	Short term High	Are further studies required on impacts or mitigation?	No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Short term High High Resilience	Are further studies required on impacts or mitigation? What is the	No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of	No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern?	No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Short term High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	No Low Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Short term High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	No Low Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Short term High High Resilience Yes Fully	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	No Low Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies?	Short term High High Resilience Yes Fully Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fo	No Low Low or ranking	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for tive title claims, in	No Low Low or ranking	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na joint management arrangements. Condition of exploration title/authority prohib	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for tive title claims, in	No Low Low or ranking ndigenous land use agreements or any land or waters on which Native	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na joint management arrangements. Condition of exploration title/authority prohib Title has not been extinguished, unless the p	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification function tive title claims, in its exploration on poror consent of th	No Low Low or ranking ndigenous land use agreements or any land or waters on which Native the Minister has been obtained.	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na joint management arrangements. Condition of exploration title/authority prohib Title has not been extinguished, unless the p All planned drill pads are in areas currently u been extensively disturbed by farming activitiactivities will be communicated with the land activities. There will be no permanent change temporary changes will be rehabilitated as set area. AHIMS search dated 4/4/24: Nil Aboriginal si area. NPO will also undertake an inhouse Level O unidentified Cultural Heritage artefacts using	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for tive title claims, in its exploration on prior consent of the used for pastoral ies with consider holder to determine to the current la oon as practical to its or places ide ne visual assess appropriately ex	No Low Low Low or ranking ndigenous land use agreements or any land or waters on which Native me Minister has been obtained. / cropping purposes. These areas have rable historical drilling in the area. All ine any impact on planned agricultural and use during the program. All to allow normal land use to resume. entified within the proposed activity ment of the drill sites for any typerienced/trained personnel.	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na joint management arrangements. Condition of exploration title/authority prohib Title has not been extinguished, unless the p All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as so AHIMS search dated 4/4/24: Nil Aboriginal si area. NPO will also undertake an inhouse Level O unidentified Cultural Heritage artefacts using Condition of exploration title/authority prohib	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fr its exploration on prior consent of th ised for pastoral ies with consider holder to determine to the current la oon as practical to its or places ide ne visual assess appropriately ex-	No Low Low or ranking ndigenous land use agreements or any land or waters on which Native he Minister has been obtained. / cropping purposes. These areas have rable historical drilling in the area. All ine any impact on planned agricultural and use during the program. All to allow normal land use to resume. entified within the proposed activity ment of the drill sites for any sperienced/trained personnel. any land or waters on which Native any land or waters on which Native	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	Short term High High Resilience Yes Fully Yes Cultural Impacts: Affects areas subject to na joint management arrangements. Condition of exploration title/authority prohib Title has not been extinguished, unless the p All planned drill pads are in areas currently u been extensively disturbed by farming activit activities will be communicated with the land activities. There will be no permanent chang temporary changes will be rehabilitated as set AHIMS search dated 4/4/24: Nil Aboriginal si area. NPO will also undertake an inhouse Level O unidentified Cultural Heritage artefacts using Condition of exploration title/authority prohib Title has not been extinguished, unless the p	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for tive title claims, in its exploration on orior consent of th sed for pastoral ies with consider holder to determine to the current la con as practical to its or places ide ne visual assess appropriately ex-	No Low Low or ranking ndigenous land use agreements or nany land or waters on which Native ne Minister has been obtained. / cropping purposes. These areas have rable historical drilling in the area. All ine any impact on planned agricultural and use during the program. All to allow normal land use to resume. untified within the proposed activity ment of the drill sites for any perienced/trained personnel. nany land or waters on which Native ne Minister has been obtained.	

What is the confidence in	High	Are further	No	
what is the confidence in	Tign	Ale fuitier		
predicting impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	High Resilience	What is the	Low	
cope with impacts?	-	level of		
		public		
		concern?		
Can the impacts be reversed?	Vec	Panking of	Low	
our the impacts be reversed?	103	notontial		
		potential		
<u> </u>		significance		
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Cultural Impacts: Impacts on Aboriginal com	munities or areas	s subject to land rights claims.	
Potential impacts	All planned drill pads are in areas currently i	used for pastoral	cropping purposes and privately	
Fotential impacts	All plained unit paus are in areas currently d	disturbed by form	ping activities with considerable	
	owned. These areas have been extensively			
	historical drilling in the area. All activities will	be communicate	ed with the landholder to determine any	
	impact on planned agricultural activities. The	ere will be no peri	manent change to the current land use	
	during the program. All temporary changes v	vill be rehabilitate	ed as soon as practical to allow normal	
	land use to resume.			
	AHIMS search dated 4/4/24 Nil Aboriginal s	ites or places ide	ntified within the proposed activity	
	area		nanou mann are proposed dearray	
	NDO will also undertake en inheuro Level O	no vieual acceso	ment of the drill sites for any	
	NPO will also undertake an innouse Level O	ne visual assess	ment of the drift sites for any	
	unidentified Cultural Heritage artefacts using appropriately experienced/trained personnel.			
	Condition of exploration title/authority prohibits exploration on any land or waters on which Native			
	Title has not been extinguished, unless the prior consent of the Minister has been obtained.			
	Activities must comply with CEA Location Re	estrictions, Impac	t Thresholds and Criteria. Activities	
	cannot occur on land declared an Aboriginal	Place and activit	ties must not harm Aboriginal Objects.	
	5		5 - 1	
	Any impacts are short term and temporary			
	, any impublic are energied in and temperary.			
Drange of management controls	Condition of exploration title/outherity prohib	ita avalaration an	any land ar waters on which Nativa	
Proposed management controls	Condition of exploration title/authority prohib	Condition of exploration title/authority prohibits exploration on any land or waters on which Native		
	Title has not hear avtinguished unless the prior expected the Minister hear hear attriated			
	litle has not been extinguished, unless the p	prior consent of th	ne Minister has been obtained.	
	Activities must comply with CEA Location Re	orior consent of the strictions, Impac	te Minister has been obtained.	
	Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal	prior consent of the estrictions, Impace Place and activit	te Minister has been obtained. It Thresholds and Criteria. Activities ites must not harm Aboriginal Objects.	
Duration	Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term	prior consent of the estrictions, Impace Place and activit	te Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects.	
Duration Application ranking	Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term	prior consent of the estrictions, Impace Place and activit	te Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects.	
Duration Application ranking What is the confidence in	I title has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term	prior consent of the estrictions, Impace Place and activit	e Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects.	
Duration Application ranking What is the confidence in prodicting impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term High	prior consent of the estrictions, Impace Place and activite Are further	e Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term High	Are further studies	e Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term High	Are further studies required on	No Minister has been obtained. thresholds and Criteria. Activities ties must not harm Aboriginal Objects.	
Duration Application ranking What is the confidence in predicting impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Re cannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or mitigation?	e Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or mitigation? What is the	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or mitigation? What is the level of	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or mitigation? What is the level of public	e Minister has been obtained. t Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Ittle has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High	Are further studies required on impacts or mitigation? What is the level of public concern?	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern?	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience Yes	Are further strictions, Impace Place and activit Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	e Minister has been obtained. It Thresholds and Criteria. Activities lies must not harm Aboriginal Objects. No Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience Yes Fully	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	e Minister has been obtained. tr Thresholds and Criteria. Activities iies must not harm Aboriginal Objects. No Low Low or ranking	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Fulle has not been extinguished, unless the productivities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Resilience Yes Fully Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	e Minister has been obtained. It Thresholds and Criteria. Activities ities must not harm Aboriginal Objects. No Low Low bor ranking	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for	e Minister has been obtained. tr Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No Low Low	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Fully Yes Cultural Impacts: Impacts on areas or items	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for of high anthropol	e Minister has been obtained. tr Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No Low Low or ranking ogical, archaeological, architectural,	
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	Title has not been extinguished, unless the p Activities must comply with CEA Location Recannot occur on land declared an Aboriginal Short term High High Yes Fully Yes Cultural Impacts: Impacts on areas or items cultural, heritage, historical, recreational or s	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for of high anthropol cientific value	e Minister has been obtained. tr Thresholds and Criteria. Activities ties must not harm Aboriginal Objects. No Low Low or ranking ogical, archaeological, architectural,	

Proposed management controls	An planned ornil pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. AHIMS search dated 4/4/24: Nil Aboriginal sites or places identified within the proposed activity area. NPO will also undertake an inhouse Level One visual assessment of the drill sites for any unidentified Cultural Heritage artefacts using appropriately experienced/trained personnel. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising potential impacts on all aspects of the environment (including water, land, air), culture and heritage (Aboriginal and Non-Indigenous heritage). Aboriginal or European heritage objects/items/areas to be demarcated and avoided. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity			
Duration	(including sealing of any boreholes).			
Application ranking	N/A			
What is the confidence in	High	Are further	No	
predicting impacts?		studies required on impacts or mitigation?		
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with	Yes		-	
Standards, plans, policies?	Land Use Impacts: Any major changes in lar uses.	l nd use, including	curtailment of other beneficial land	
Potential impacts	Limited potential for any major changes in la exploration. Negligible impacts and limite exploration activities, temporarily removed from temporary impacts on productive rural indust remove potential timber resources.	nd use due to sh ed to immediate v om existing land tries, including aç	ort term and temporary nature of vicinity of site. Areas used for use/s but no long term impacts (e.g. griculture). Vegetation removal may	
Proposed management controls	 remove potential timber resources. All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Minimal impacts likely and limited to immediate site of the activity. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the current in the availation of the current and management of the current and the current and the current and use to resume. 			
	All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity.			
Duration	Impacts.			
Application ranking	Snort term			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or	No	
		mitigation?		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	

	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	No Justification for ranking				
Do the operations comply with	Yes				
standards, plans, policies?	The second station is a second statistic in the second				
Criteria	I ransportation impacts: Substantial impacts	on existing trans	portation systems (road, rail,		
Detential increasts	pedestrian) which alter present patterns of c	irculation or move	ement.		
Potential impacts	Short term additional traffic during exploration activity, primarily during set-up/construction stage.				
Proposed management controls	An planned drill pads are in areas currently u	ised for pastoral	able historical drilling in the area. All		
	activities will be communicated with the land	holder to determi	ne any impact on planned agricultural		
	activities There will be no permanent change	e to the current la	and use during the program. All		
	temporary changes will be rehabilitated as so	oon as practical t	o allow normal land use to resume		
		oon do practical e			
	Short term additional traffic during exploratio	n activity, primar	ly during set-up/construction stage.		
	Limited to immediate site.				
	Subject to landholder agreement and any co	mpensation.			
Duration	Short term				
Application ranking					
What is the confidence in	High	Are further	No		
predicting impacts?		studies			
		required on			
		mitigation2			
How resilient is the environment to	High Posilionco	What is the	Low		
cone with impacts?	riigh Resilience		LOW		
		public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with	Yes				
standards, plans, policies?					
Criteria	Transportation Impacts: Impacts associated	with direct or ind	rect additional traffic.		
Potential impacts	Short term additional traffic during exploratio	n activity, primar	ly during set-up/construction stage.		
Proposed management controls	All planned drill pads are in areas currently u	ised for pastoral	cropping purposes. These areas have		
	been extensively disturbed by farming activit	ies with consider	able historical drilling in the area. All		
	activities will be communicated with the land	holder to determine	ne any impact on planned agricultural		
	activities. There will be no permanent change to the current land use during the program. All				
	tomporary changes will be rebabilitated as s	oon as practical t	temporary changes will be rehabilitated as soon as practical to allow normal land use to resume.		
	temporary changes will be rehabilitated as so	oon as practical t			
	temporary changes will be rehabilitated as so Short term additional traffic during exploratio	oon as practical t	ly during set-up/construction stage		
	temporary changes will be rehabilitated as so Short term additional traffic during exploratio	oon as practical t n activity, primar	ly during set-up/construction stage.		
	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site.	oon as practical t n activity, primari	ly during set-up/construction stage.		
	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site.	oon as practical t n activity, primar	ly during set-up/construction stage.		
	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co	oon as practical t n activity, primar mpensation.	ly during set-up/construction stage.		
Duration	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation.	ly during set-up/construction stage.		
Duration Application ranking	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation.	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation. Are further	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation. Are further studies	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation. Are further studies required on	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitiaction?	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern?	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High High Resilience Yes	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Additional traffic during exploration Short term additional traffic during exploration Limited to immediate site. Subject to landholder agreement and any construction Short term High High Resilience Yes	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Additional traffic during exploration Short term additional traffic during exploration Limited to immediate site. Subject to landholder agreement and any construction Short term High High Resilience Yes Fully	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fo	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Eventues: Here will be repeating the permanent of angly temporary changes will be rehabilitated as so Short term additional traffic during exploration Limited to immediate site. Subject to landholder agreement and any construction Short term High High Resilience Yes Fully Yes	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Additional traffic during exploration Short term additional traffic during exploration Limited to immediate site. Subject to landholder agreement and any construction Short term High High Resilience Yes Fully Yes	oon as practical t n activity, primar mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	Eventues: Increase will be rehabilitated as set Short term additional traffic during exploration Limited to immediate site. Subject to landholder agreement and any construction Short term High High Resilience Yes Fully Yes Consistency with applicable local strategic point	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe	ly during set-up/construction stage.		
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be reversed? Do the operations comply with standards, plans, policies? Criteria	Eventues: more will be repartition of angle temporary changes will be rehabilitated as so Short term additional traffic during exploratio Limited to immediate site. Subject to landholder agreement and any co Short term High High Resilience Yes Fully Yes Consistency with applicable local strategic plans.	oon as practical t n activity, primari mpensation. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification fe	ly during set-up/construction stage.		

Proposed management controls	All planned drill pads are in areas currently used for pastoral / cropping purposes. These areas have been extensively disturbed by farming activities with considerable historical drilling in the area. All activities will be communicated with the landholder to determine any impact on planned agricultural activities. There will be no permanent change to the current land use during the program. All temporary changes will be rehabilitated as soon as practical to allow normal land use to resume. Land zoned RU1 Exploration comprises development that does not need consent under the EP&A Act and associated local, regional and district plans. There will be no conflict or inconsistency with applicable local strategic planning statements, regional strategic plans or district strategic plans. Minimal impacts likely and limited to immediate site of the activity. Impacts are compensable under relevant legislation, including Mining Act 1992 and Petroleum (Onshore) Act 1991. Subject to landholder agreement and any compensation. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of Practice: Rehabilitation). Rehabilitation to occur as soon as practicable after completion of activity (instruction and or parts of any therebace)			
Application replice	Short term - until land is rehabilitated.			
Application ranking				
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No	
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low	
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification f	or ranking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Matters of National Environmental Significance: Impacts on MNES under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999:			
Potential impacts	N/A as activities must comply with CEA Loca Cannot impact on MNES.	ation Restrictions	, Impact Thresholds and Criteria.	
Proposed management controls	 MNES report dated 16.4.24 notes – Endangered species likely in the area: Australian Painted Snipe, Koala, Austrostipa wakoolica Endangered TECs likely to occur in the area: Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia Poplar Box Grassy Woodland on Alluvial Plains Critically endangered TEC likely to occur within the area: White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland SEED search notes PCTs related to above TECs are not within proposed drilling area. 			
Duration	N/A			
Application ranking				
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A	
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low	
Can the impacts be reversed?	N/A	Ranking of potential significance		
Can the impacts be mitigated?	N/A	Justification f	or ranking	
Do the operations comply with	N/A			
Criteria	Cumulative Impacts: Cumulative environmer	ntal effects with o	ther existing or likely future activities.	
Potential impacts	Only short term and temporary impacts. No significant additional impacts on the environment from past, current and relevant future projects.			

Proposed management controls	 Holes are to be drilled off level ground in agricultural land, with no ground preparation required, other than manual clearing of material that poses a hazard to either drill crews or equipment (trip or fire hazards), such as old crop stubble, stones, rotten and fallen timber. The maximum extent of any drill pad will be 20x25m. TOTAL SURFACE DISTURBANCE = 3500m2. Nil veg clearing or excavations proposed. Any surficial material removed prior to the commencement of works will be replaced on the completion of the program. Apart from the drill collar, no in-ground excavation anticipated on site, with above ground sumps to hold excess water encountered in drilling. All water and fluids created or used in the drilling process will be captured and pumped in the sumps. Short term impacts predominantly limited to immediate site. Subject to landholder agreement and any compensation. Activities must comply with CEA Location Restrictions, Impact Thresholds and Criteria. Activities must comply with (Exploration Code of Practice: Environmental Management) as per the commitment in the application (APO). Relevant requirements of this Code include minimising all impacts on the environment. All disturbed areas to be rehabilitated in accordance with title conditions (Exploration Code of 				
Duration	(including sealing of any boreholes).				
Application ranking					
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No		
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low		
Can the impacts be reversed?	Yes	Ranking of potential significance	Low		
Can the impacts be mitigated?	Fully	Justification f	or ranking		
Do the operations comply with standards, plans, policies?	Yes				

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