Environmental Impact Classification Pursuant to Section 98 of the Petroleum Act 2000

Geothermal Exploration Drilling within GEL 175 - Riverland, South Australia

13 November 2007

INTRODUCTION

Pursuant to section 98 of the *Petroleum Act 2000* (the Act) the Minister must classify the regulated activities covered by a prepared Environmental Impact Report (EIR) as either of low, medium or high environmental impact.

The classification must be made on the basis of:

- The prepared EIR:
- Criteria established for classifying the level of environmental impact of regulated activities, a copy of which is found on the PIRSA Petroleum and Geothermal Group (PIRSA) web page:
 (http://www.pir.sa.gov.au/dhtml/ss/section.php?sectID=437&tempID=8); and
- Comment received from relevant Government departments in accordance with established administrative arrangements between these departments and PIRSA.

This document summarises the classification made by PIRSA on Eden Energy's proposed geothermal exploration drilling within Geothermal Exploration Licence 175. This classification is based on information provided in the EIR dated September 2007, submitted to PIRSA on 11 September 2007.

SUMMARY OF CLASSIFICATION

- From an analysis of the environmental significance of the various events and
 potential impacts associated with this activity against the classification criteria
 referred to above (assessment provided as Attachment 1), this regulated activity has
 been classified as low environmental impact.
- 2) All events associated with the proposed geothermal exploration drilling activities were assessed to be of low environmental significance, as appropriate management measures will be implemented to avoid or mitigate any potential environmental consequences.
- 3) For a low environmental impact classification, PIRSA is required to consult with the Department for Environment and Heritage (DEH) and the Environment Protection Authority (EPA) in accordance with the administrative arrangements dated 11 November 2005 and 21 November 2003 respectively. Comments received from DEH dated 31 October 2007 and EPA dated 23 October 2007 agreed with the low environmental impact classification.

Pursuant to delegated powers, I hereby classify this regulated activity as **low environmental impact**.

Barry A. Goldstein

Director Petroleum & Geothermal

Delegate of the Minister for Mineral Resources Development

Environmenta ACTIVITY:	al Significance	Assessment othermal Exploration Drilling within	GEL 175															
	EDEN ENERGY Deepank Gupta	/ Belinda Close			PRE	DIC	TAB	ILIT	Y			MANA	GEAE		Y	T		
EIR REF	TYPE OF IMPACT	EVENT(S)	POTENTIAL CONSEQUENCES	SIZE	SCOPE	DURATION	FREQUENCY	STAKEHOLDERS	SIGNIFICANCE	AVOIDANCE	PROBABILITY	DURATION	SIZE AND SCOPE	CUMULATIVE EFFEC	STAKEHOLDERS	SIGNIFICANCE	COMMENTS	Environmental Significance
	Natural Environment Impacts																	
2.1.2; 2.2.3; 2.3; 4.1.1; 5.2.1; 5.5; Table 5	Soil Impacts	Earthmoving activities during preparation of drill pad, sump, access tracks, camp sites; Heavy vehicle trafficking	Soil erosion; Soil inversion; Soil compaction; Disturbance to soil structure	н	Н	н	н	М	2	No	Low					1	Site is generally clear and level so minimal earthworks needed. Major works will be sump excavation. Drill site area = 20m x 30m. No need to import borrow materail. Sumps will be 3 unlined holes of 1.5m deep by 2m wide by 3 m long. Rig is truck mounted and is of lighter setup than a traditional oilgas rig. Topsoil will be stockpiled. Compacted areas will be lightly ripped where necessary. No movement will be allowed on wet surfaces to avoid bogging and deep rutting. Drilling duration: 10-14 days, life of a hole- approx 1 year.	LOW
2.1.2; 22.2; 2.3; 2.4; 3.2.1; 4.2, 5.2.1 Table 5		Vehicle movement during construction, drilling and monitoring activities	Soil erosion; Soil inversion; Soil compaction; Wheel tracks	М	Н	М	М	М	2	No	Low					1	Access to the site will utilise public roads & existing station tracks. The proposed drilling will not require major road convoys or significant traffic movements. No off track driving. The rig and caravan moves in and out for the drill site would involve approximately 4 truckloads per move. Logging will be from a light vehicle equipped with a winch & suitable logging tools. Movement on tracks and surfaces will not be undertaken under wet conditions to avoid bogging and deep rutting. Duration for drilling: approximately 10-14 days. Compacted areas will be lightly ripped where necessary. The adoption of safe driving practices, including low speeds and no of track driving, will also help prevent impacts to the soils or	LOW
2.2.4; 2.2.5; Table 5; SEO objective 9,10		Disposal of domestic and chemical waste, sewage treatment, drilling mud	Soil contamination	М	н	н	М	М	2	No	Med	Short				2	drainage of the area. Rubbish will be held on site in covered bins/skips for later removal to the disposal facilities (e.g. at Renmark or Berri). Sumps will have sufficient capacity to hold muds and cuttings. Some waste (minor non-toxic wastes, drill cuttings and muds) will be disposed in the drilling sumps. Cleanup, sumps and pits filled, facilities removed. Eden Energy will have an onsite supervisor for tidiness and cleanliness of the site and access. There will be no sewage system on site as the drilling will be short term with few (4-6) personnel. Accommodation and ablutions facilities at the Chowilla shearing shed 10km from the site will be used.	LOW
2.1.2; 2.2.2; 2.2.3; 2.3; 2.5.2; 5.2.1; Table 5		Vegetation clearance for wellsite, sumps and access track construction	Soil erosion	н	Н	н	н	М	2	No	Low					1	Existing public roads and access tracks will be used. No off track movement. Site is grazed, open chenopod shrubland on an active pastoral lease and is not a high biological or wilderness value area. Rehabilitation of the drill pad will be undertaken, but station access track will be left in place. Soil will be stockpiled and respread during rehabilitation. Duration for drilling approximately 10 -14 days. Area of drill pad= 600 m2.	LOW
5.2.1, Table 5, SEO Obj:4,	Surface Water	drilling and completion fluids, fuel and chemical storage, refuelling	Soil contamination	н	н	н	н	м	2	No	Low					1	Spills will be cleaned up. Given the nature of the terrain and drainage, spills would be unlikely to result in significant or widespread effects. Sumps to have sufficient capacity to hold muds & cuttings. If sumps overflow, light scarification & resperading of cleared vegetation to blend site with surrounds & encourage regeneration. All rig retuelling will be from a fuel trailer. Drip trays will be used for refuelling & under any parts of the drill rig that represent a leak or spill hazard. Fuel and hydraulic hoses will be checked for signs of wear. Any contaminated soil from refuel areas to be removed from site and disposed of at a licensed facility. Drilling fluids to be disposed of in sump a tend of drilling. Non-tooic muds will be used. Generators to be located in areas designed to contain any spills. Bunded areas to be in accordance with EPA guidelines 080/07. MSDS information readily available on the drill site.	LOW
2.2.3; 3.5.1; 5.2.1; Table 5, SEO	Impacts	Earthmoving activities during preparation of drill pad, sump, access tracks, camp sites, borrow pits; Heavy vehicle trafficking	Flow interception, downstream shifts	н	Н	М	н	М	2	No	Low					1	There are few natural surface water features in the GEL. There are no significant drainage features present. Drainage in all cases is mostly local (sheet flow or ponding) and any interception by drill site or access will be minor to negligible. Sumps will be refilled. Site will be rehabilitated.	LOW
2.2.3; 3.5.1; 5.2.1; Table 5, SEO		Spills and leaks associated with drilling and completion fluids, fuel and chemical storage, refuelling	Surface water contamination	н	М	н	н	М	2	No	Low					1	Hazardous material stored, used and disposed of in accordance with relevant legislation. Spills will be cleaned up. Given the nature of the terrain and drainage, spills would be unlikely to result in significant or widespread effects. Sumps to have sufficient capacity to hold muds & cuttings. If sumps overflow, light scarification & respreading of cleared vegetation to blend site with surrounds & encourage repeneration. All right freulteling will be from a fuel trailer. Drip trays will be used for refuelling & under any parts of the drill right represent a leak or spill hazard. Fuel and hydraulic hoses will be checked for signs of wear. Non-toxic muds will be used. Generators to be located in areas designed to contain any spills. Bunded areas to be in accordance with EPA quidellines 8080/07. MSDS information readily available on the drill site.	LOW
2.2.1; 3.5.1; Table 5, SEO Obj 5		Flow of pressurised water to the surface during drilling	Surface water contamination	М	Н	Н	Н	М	2	Yes						1	No significant drainage features present and few natural surface water features in the GEL Industry-accepted practice for water bore and diamond drilling will be followed. Isolation barriers to be set in place.	LOW
	Ground Water Impacts																	
2.2.1;2.2.2; 2.5.1; Tab;e 5; SEO-Obj 5;		Drilling operations; casing or cement failure	Degradation of natural hydrotsatic conditions	н	М	н	н	н	2	No	Low					1	Three aquifer zones will be drilled, cased and cemented separately to isolate and prevent the degradation of natural hydrostatic conditions. Drilling will follow industry-accepted practice for water bore and diamond drilling. Class 3 Water Licence driller required. Procedures and operations will be defined in the contractor's Drilling Operations Manual. Use of controlled water loss / low solids drilling muds (non toxic). The well design has been developed in consultation with DWLBC drilling personnel to manage ground water issues of the region. The three aquifers zones will be drilled cased and cemented separately to isolate and to prevent contamination, interconnection between aquifers. Casing design to prevent aquifer mixing or flow to surface. Cementing and plugging plan in place. Where there is evidence of insufficient isolation, remedial action to be conducted. Cementing and plugging on abandoment to appropriate PIRSA and DWLBC standards.	LOW
2.2.1;2.5.1;3.5 .2; SEO-Obj-5		Drilling fluids in down hole environment	Groundwater contamination	н	М	н	н	Н	2	No	Low					1	The drilled hole will be cased and cemented separately to isolate and to prevent contamination, interconnection between aquifers. Cementing and plugging plan in place. Drilling will follow industry-accepted practice for water bore and diamond drilling. Use of controlled water loss / low solids drilling muds (non toxic). The vell design has been developed in consultation with DWLBC drilling personnel to manage ground water issues of the region.	LOW
2.5.1; 3.5.2; Table 5, SEO	Vegetation	Insufficient plugging between aquifers; casing or cement failure	Interconnection between aquifers; Groundwater contamination	н	М	н	Н	М	2	No	Low					1	Cementing and plugging on abandonment to appropriate PIRSA and DWLBC standards. Casing design to prevent aquifer mixing or flow to surface. The length of plug used will be dependent on the aquifer pressure & thickness. One metre of grout above top of aquifer will be used for every 7kPa of head, with a minimum of 20m of plug. Where there is evidence of insufficient isolation, remedial action to be conducted.	LOW
3.2.2; 5.2.2; 3.4.2; Table 5; SEO	Impacts	Vegetation clearance during wellsite, sump and access track preparation	Loss of vegetation; Loss of biodiversity	н	н	н	Н	н	1	No	Low					1	Chowilla has been grazed for over 120 yeras. Much of the vegetation on the Chowilla Regional Reserve (particularly in the eastern half) could be considered to have lower conservation significance. Existing excess tracks will be used. Drill sith has been selected in an area with low, open vegetation, no trees present. Campsite at Chowilla shearing shed. Very little vegetation clearance is required for the proposed drilling site or access. The vegetation that is proposed to be cleared does not constitute significant habitat. Clearing of overgrown tracks will not create significant habitat fragmentation. No rare or threatened flora recorded with in GEL 175 on DEH biological databases (DEH 2007). Rehabilitation of pad to encourage vegetation.	LOW

	Chowilla-2, Geo	thermal Exploration Drilling within	GEL 175											-	-			
	Deepank Gupta				PRE	DIC	TAB	ILITY				MANA			Ý			
EIR REF	TYPE OF IMPACT	EVENT(S)	POTENTIAL CONSEQUENCES	SIZE	SCOPE	DURATION	FREQUENCY	STAKEHOLDERS	SIGNIFICANCE	AVOIDANCE	PROBABILITY	DURATION	SIZE AND SCOPE	CUMULATIVE EFFEC	STAKEHOLDERS	SIGNIFICANCE	COMMENTS	Environmental Significance
Table 5; SEO		Vegetation clearance during wellsite and access track preparation	Weed invasion	н	Н	Н	Н	М	2	No	Low					1	Alten introduction due to drilling operation is a low incremental risk, given the long-term pastoral use of the region. Records relating to the assessment are kept and available for review. The site and access will be monitored on a regular basis for new weed species and treated as necessary following discussions with DEH and the lessee. Records of detection, monitoring or eradication of exotic weeds or noxious species introduced by activities are kept and are available for review. Vegetation clearance for pad and access tracks will be minimal.	LOW
3.2;3.3.2;5.2.2 ; Table 5; SEO		drilling and completion fluids, fuel and chemical storage, refuelling	Loss of vegetation; Loss of biodiversity Damage to vegetation	н	н	н	н	н	1	No	Low					1	Refer to comments for soil contamination as avoiding soil contamination reduces the likelihood of loss of vegetation as a result of spills and leaks. No rare or threatened flora recorded with in GEL 175 on DEH biological databases (DEH 2007). Existing access tracks will be used, no off-track traffic. Traffic rules in place.	LOW
2.1.2; 2.3; 2.5.3; 5.2.2; Table 5. SEO		wellsite; during construction, drilling and monitoring activities		н	н	Н	н	М	2	No	Low					1		LOW
Table 5, SEO		Vehicle movement to and from wellsite; during construction, drilling and monitoring activities	Introduction and spread of weeds	Н	Н	Н	Н	М	2	No	Low					1	All vehicles and equipment entering the region to be assessed for risk of transporting weeds and pathogens and washed down where appropriate. A requirement for contractor/other vehicles to be clean prior to entering district. Wash downs required where vehicles or equipment are coming from an area of known weed infestation.	LOW
5.2.2; Table 5, SEO		Fire or explosion during drilling operations	Loss of vegetation; Loss of biodiversity	н	М	Н	н	М	2	No	Low					1	There is little fuel load at the site, and the site will be kept clear of flammable material. Access tracks will be cleared which will minimise fire risk. Drillsite site has been selected in an area with low, open vegetation, no trees present. Campsite at Chowilla Shearing shed. Confinement of flammable sources, restrictions on certain procedures and ready access to suitable fire fighting equipment. Construction of a fire break around drill site if flammable ground cover is present. Response to fire included in Emergency Response Plan. All personnel are fully informed on the fire danger season and associated restrictions. Fire risk included in induction. Fire equipment maintained at drill site. Requirements of the Fire and Emergency Services Act 2005 will be complied with.	LOW
	Fauna Impacts	Forther and a sound or sound on	Lange of the control															
Table 5; SEO		drill pad, sump, access tracks, camp sites	Loss of fauna habitat; hazard to stock; impeded fauna movement	н	Н	Н	Н	н	2	No	Med	Short				2	Site is generally clear and level so minimal earthworks needed. Minimal vegetation clearance and location of site in open area will result in no significant habitat disturbance for rare or threatened fauna species. Stock will be excluded from sumps using temporary fencing. Drill site is not close to the stock watering points therefore probability for stock hazard is low. Drill site area = 20m x 30m. Sumps will be 3 unlined holes of 1.5m deep by 2m wide by 3 m long. Drilling duration: 10-14 days, life of a hole= approx 1 year.	LOW
Table 5; SEO		Vehicle collision with wildlife during movement to and from wellsite Fire or explosion during drilling operations	Fauna mortality Loss of habitat, disturbance to native fauna	н	н	Н	н	Н	2	No	Low					1	Maintain low vehicle speeds to avoid animals on access roads. No off-track driving, Drilling site is not close to a stock water point so stock not likely to be present around drill site. Drill site is temporary: activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Liaison maintained with pastoral lessee. There is little fuel load at the site, and the site will be kept clear of flammable material. Access tracks will be cleared which will minimise fire risk. Drillistie site	LOW
5.2.2; Table 5; SEO				М	М	н	н	М	2	No	Low						has been selected in an area with low, open vegetation, to minimise potential for wildfire to spread. Confinement of flammable sources, restrictions on certain procedures and ready access to suitable fire fighting equipment. Construction of a fire break around drill site if flammable ground cover is present. Response to fire included in Emergency Response Plan. All personnel are fully informed on the fire danger season and associated restrictions. Fire risk included in induction. Fire equipment maintained at drill site. Requirements of the Fire and Emergency Services Act 2005 will be compiled with. Drilling site is not close to a stock water point so stock not likely to be present around drill site. Dill site is temporary: activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Liaison maintained with pastoral lessee.	LOW
5.2.2; Table 5		Noise associated with vehicle movement to and from wellsite (includes trucks, drill rigs)	Disturbance to fauna	Н	Н	Н	Н	Н	1	No	Med	Short				2	The noise from drilling may disturb fauna in the vicinity (e.g. within a few hundred metres of the site). However, the area of potential impact is a very small proportion of the available habitat in the area, and drilling will only occur for a short period of time.	LOW
2.2.5; 2.5.2; Table 5; SEO			Attraction of scavenging animals (native and pest species)	н	н	Н	н	М	2	No	Low					1	Wastes on site confined by bins/skips. Litter cleanup during and post-drilling.	LOW
Tables 5; SEO			Disturbance to native fauna	н	н	Н	н	Н	1	No	Low					1	Refer to comments for potential soil contamination. Drilling site is not close to a stock water point so stock not likely to be present around drill site. Drill site is temporary: activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Liaison maintained with pastoral lessee.	LOW
5.4; 2.2.1; SEO	Air Impacts Sensitive Area	Emissions to air (e.g. Dust, smoke, greenhouse gases) during earthworks, drilling, vehicle movement	Atmospheric pollution	н	н	н	н	н	1	No	Low					1	All access surfaces will generate some dust. Dusting will be of relatively short- term duration. Safe driving practices including low vehicle speeds along access tracks will be adopted. Any greenhouse gas emissions from machineray and vehicles will be negligible.	LOW
	Impacts	Disturbance to the Chowilla Regional Reserve	Loss of biological significance	н	н	Н	н	н	2	Yes						1	Regional Reserves permit the utilisation of natural resources while conserving wildlife and natural or historic features of the land. The site proposed for drilling has been selected to avoid most of the issues of biological significance. Vehicle movement will be by existing access tracks and no off-track movement. Minimal earthworks is required. Rehabilitation plan in place. Accomodation will be at existing shearing shed. Liaison with the lessee. Compliance with the National Parks and Wildlife Act 1972 and Regulations pertaining to correct conduct in a reserve. Eden Energy will notify the District Ranger of the commencement date of activities at least ten days prior to work commencing. No pets or firearms will be brought into the Reserve.	Low
	Social Environment																	
	Community Resource Impacts																	
2.1.2; 2.2.7; 2.3; 4.1.4; 5.4; Table 5			Damage to community infrastructure	н	Н	Н	Н	н	1	No	Low						Traffic rules in place. Liaison with lease holder. There will be a very small incremental impact on public roads, primarily due to movement of personnel on a daily basis and rig moves in and out. Most personnel moves will be confined to tracks that are not used by the public. The station track used for access will be repaired before the start of drilling and is expected to be in a better condition following drilling than it is currently. Any station road damage will be repaired.	LOW
Table 5; SEO		Change in visual appearance of the area during well drilling activities Disposal of domestic and chemical waste; Sewage	Reduction in aesthetic value Litter on wellsite; Reduction in aesthetic value	н	Н	Н	Н	н	1	No	Med	Short				2	The site is not accessible to the public or public view. It is not visible from any public roads or station tracks. Visitors are unlikely to pass the site as there is no through access to any notable destination. The drill hole is planned to be abandoned in 1 year time. If borrow material required it will be taken from the pits and sumps. ERP, Fire rules in place. The site is not accessible to the public or public view. It is not visible from any public roads or station tracks. Visitors are unlikely to pass the site as there is not the public or public view. It is not visible from any public roads or station tracks. Visitors are unlikely to pass the site as there is	LOW
Table 5; SEO	Cultural &	treatment		Н	Н	Н	Н	Н	1	No	Med	Short				2	no through access to any notable destination. The drill hole is planned to be abandoned in 1 year time. If borrow required it will be taken from the pits and sumps. Waste Management plan in place. Sumps will be dried and filled.	LOW
	Heritage Impacts	Forthmoning and death in	Disturbance of About														Evision corrected a read No. 45 to 15 to 1	
3.6; 4.1.5; 5.3; Table 5, SEO		Earthmoving and vehicle movement activities during construction of drilling pad, sump, access track, camp sites	Disturbance of Aboriginal heritage sites; Loss of cultural affinity with the area	н	Н	Н	Н	М	2	Yes						1	Existing access tracks used. No off-track driving permitted. No evidence of Abordiginal heritage material noted during site inspection. Drill pad is not in an area of heritage sensitivity. Therefore expect no significant risk posed to Abordiginal cultural heritage. Riverland Abordiginal Community Heritage. Association will be consulted and an inspection of the site is planned (subject to agreement between the parties) to confirm that there will be no impacts to Abordiginal heritage significance. A procedure will be in place for the appropriate response to any sites discovered during drilling and related activities.	LOW

		thermal Exploration Drilling within	GEL 175															
	EDEN ENERGY								,			MANAG			لب			
EIR REF	Deepank Gupta TYPE OF IMPACT	7 Belinda Close EVENT(S)	POTENTIAL CONSEQUENCES	SIZE	SCOPE	DURATION	FREQUENCY IBAT	STAKEHOLDERS	SIGNIFICANCE	AVOIDANCE	PROBABILITY	DURATION	SIZE AND SCOPE	CUMULATIVE EFFEC	STAKEHOLDERS	SIGNIFICANCE	COMMENTS	Environmental Significance
	Community Health & Safety	Vehicle/Heavy-Vehicle	Increased traffic, vehicle														The site is not in an area that is likely to be visited by tourists or the general	
2.3; 5.4; Table 5; SEO		movement to and from wellsite.	accidents and inconvenience to the public commuters	н	н	H	Н	М	2	No	Med	Short				2	public. The proposed drilling does not require major road convoys or significant traffic movements. Vehicle movements are relatively light (road truck-mounted drilling rigs) and will utilise existing tracks. The rig and caravan moves in and out for the drill site would involve approximately 4 truckloads per move. Most personnel moves will be confined to tracks that are not used by the public. Observation of speed limits and safe speeds on access tracks. Where appropriate, signage at site and access to indicate restricted access. Liaison with DEH and pastoral lessee regarding movements.	LOW
5.4; Table 5, SEO		Dust generation during vehicle movement to and from wellsite	Road use hazard	н	Н	Н	н	М	2	No	Med	Short				2	Vehicle movements will be of relatively short-term duration. The adoption of safe driving practices and including low vehicle speeds along access tracks will also go someway to ameliorating the impacts associated with dust generation. SEO: Control production and dispersion of dust on unsealed roads and drilling lease areas.	LOW
5.2.2; SEO; Table-5		Noise associated with vehicle movement to and from wellsite (includes trucks, drill rigs)	Risk to human health; disturbance to community	М	Н	Н	н	М	2	No	Low					1	Noise is not a significant issue as there are no residences in the vicinity (the station homestead is 30 km away). The proposed drilling does not require major road convoys or significant traffic movements. Vehicle movements are relatively light.	LOW
2.2.5; 2.5.2; Table -5, SEO		Disposal of domestic and chemical waste; Sewage treatment	Risks to human health	н	н	Н	н	н	1	No	Low					1	Wastes on site confined by bins/skips. Disposal eventually to licensed waste disposal facility. Minor non-toxic wastes, chippings and muds disposed in drill sump. Litter cleanup during and post-drilling. Rehabilitation program in place.	LOW
	Economic Environment Existing Land																	
	Use Impacts																	
2.5.2; Table 5 SEO		Alternative water source provided by the sumps and pits	Undesirable redistribution of stock	н	н	Н	н	Н	1	No	Low					1	On completion of drilling the sump will be allowed to dry out and then backfilled level with the surrounding landscape. Stock will be excluded in the interin by temporary fencing. Drill site is temporary: activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Liaison maintained with pastoral lesses.	LOW
2.3; 5.4; Table 5, SEO		Vehicle movement during construction, drilling and monitoring activities	Disturbance to stock; stock mortality	н	н	н	н	н	1	No	Low					1	The proposed drilling does not require major road convoys or significant traffic movements. Vehicle movements are relatively light (road truck-mounted drilling rigs) and will utilise existing tracks. All vehicles will be required to remain on designated roads and access tracks or parking areas. Drilling site is not close to a stock water point. Drill site is temporary. Activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock.	LOW
Table 5; SEO		Fire or explosion during drilling operations	Disturbance to stock	н	н	н	Н	Н	1	No	Low						Drilling will be carried out after shearing, to avoid disruption to shearing. Drillsite site has been selected in an area with low, open vegetation, to minimise potential for wildfire to spread. Confinement of flammable sources, restrictions on certain procedures and ready access to suitable fire fighting equipment. Construction of a fire break around drill site if flammable ground cover is present. Response to fire included in Emergency Response Plan. All personnel are fully informed on the fire danger season and associated restrictions. Fire risk included in induction. Fire equipment maintained at drill site. Requirements of the Fire and Emergency Services Act 2005 will be complied with. Drilling site is not close to a stock water point so stock not likely to be present around drill site. Drill site is temporary: activity would be sufficient to deter stock from pad but untilkely to otherwise affect stock. Liaison maintained with pastoral lessee.	Low
Table 5; SEO		Spills and leaks associated with drilling and completion fluids, fuel and chemical storage, refuelling	Disturbance to stock; disruption to land use	н	н	н	н	н	1	No	Low					1	Refer to comments for potential soil contamination. Drilling site is not close to a stock water point so stock not likely to be present around drill site. Drill site is temporary: activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Liaison maintained with pastoral lessee.	LOW
5.2.2; Table 5		Noise associated with vehicle movement to and from wellsite (includes trucks, drill rigs)	Disturbance to stock	Н	Н	Н	Н	Н	1	No	Med	Short				2	The noise from drilling may disturb stock in the vicinity (e.g. within a few hundred metres of the site). Activity would be sufficient to deter stock from pad but unlikely to otherwise affect stock. Drilling activities temporary.	LOW