

PEL 94 Cooper/Eromanga Basin South Australia

Annual Report Permit Year 3

5th November 2003 to 4th November 2004

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1 Introduction

Petroleum Exploration Licence No. 94 is situated on the southern margin of the Cooper/Eromanga Basin, South Australia. The third year of the licence covers the period 5th November 2003 to 4th November 2004.

This report details the work performed by the Joint Venture during this third year of the licence, in accordance with the requirements of Section 33 of the Petroleum Regulations 2002.

2 Permit Summary

The working interests in PEL 94 at the end of this reporting period were:

Beach Petroleum Ltd (Operator)	50%
Magellan Petroleum (NT) Pty Ltd	50%

Magellan Petroleum has entered into an agreement to farm out 15% of their equity to a third party. Meanwhile, the farminee has no Joint Venture rights until the terms of the agreement have been met.

Licence Year	Minimum Work Program*	Actual Work
Year 1 (5/11/01-4/11/02)	One well 260km 2D seismic reprocess 200km existing seismic	Three wells
Year 2 (5/11/02-4/11/03)	One well; 90km 2D seismic	395km 2D seismic 133km reprocess seismic
Year 3 (5/11/03-4/11/04)	One well	
Year 4 (5/11/04-4/11/05)	50km 2D seismic	
Year 5 (5/11/05-4/11/06)	One well	

The original work commitments for PEL 94 are summarised as follows:

• On 19/01/04, the Minister formally granted a work program variation that combines the Years 1-3 drilling and seismic commitments (ie. three wells in the three years, 360 km of new seismic and 133 km of reprocessed seismic).

3 Exploration Activity

1.1 Drilling.

One exploration well (Myponga-1) was approved for drilling during the year. Although testing a prospect primarily within PEL 94, the well was spudded on a mapped crest about 400m outside of PEL 94, and within the adjacent PEL 95. The Minister approved credit of the well toward the PEL 94 permit in a letter dated 1/6/04.

Myponga-1 spudded on 15/6/04 and drilled to a total depth of 1470metres. Myponga-1 intersected an Eromanga section directly overlying pre-Permian meta-sediments. The well was plugged and abandoned after encountering no significant hydrocarbon shows, and the rig released on 25/6/04. Compliance reporting for Myponga-1 is detailed within the PEL 95 Annual Report(s).

The failure of Myponga-1, together with Waitpinga-1 and Seacliff-1 in 2003, significantly downgrades the prospectivity of a number of prospects along a ridge south of Myponga-1.

1.2 Seismic Data Acquisition

A total of 85km of 2D seismic was acquired during the permit year, part of Beach's Malleus South seismic program. This brings the total seismic acquired to 395 km during the first three years of the permit term, as compared to the 360km guaranteed work program variation.

1.3 Seismic Data Processing/ Reprocessing

No existing seismic data was re-processed during 2004. At the end of year 3, the total reprocessed seismic was 133km compared to the 133km guaranteed in the permit work program variation.

1.4 Geological and Geophysical Studies.

Technical studies during this second permit term were primarily directed toward preparations for the drilling of Myponga-1 and the seismic acquisition program over the Maslins Horst area.

4 Administration

4.1 <u>Regulatory Compliance</u>

A Compliance Report is attached which details the operator's compliance with the 2000 Petroleum Act, its Regulations, the terms and conditions of the Licence, and the agreed Statements of Environmental Objectives governing field operations undertaken during the permit term.

4.2 Data submissions.

A list of the items submitted during the report period is contained in the table below.

Table 1

PEL 94 Annual Report

Licence Year 3

5th November 2003 to 4th November 2004

List of Reports Generated

<u>Title</u>	Date Submitted to PIRSA
Waitpinga-1 Well Completion Report	24-May-04
Nautilus Seismic Survey Interpretation Report	15-Jul-04

4.3 Planned Exploration Program for Year 4

No drilling is planned for 2005.

A total of 20 km² of 3D seismic data is proposed at an estimated cost of \$320,000. The program is part of a larger survey of the crestal portion of the Dunoon Horst, which straddles the northern boundary of PEL 94. The data aims to improve structural control updip of the Harpoono-1 oil discovery in the Murta Formation.

5 Expenditure statement

A licence expenditure summary for the period 5th November 2003 to 4th November 2004 is presented as Table 2.

Table 2

PEL 94 Annual Report Licence Year 3 5th November 2003 to 4th November 2004

Statement of Expenditure

Commercial in Confidence

ANNUAL

COMPLIANCE

REPORT

FOR

PEL 94 - YEAR 3

(NOVEMBER 2003 - OCTOBER 2004)

COOPER BASIN, SOUTH AUSTRALIA



Introduction

Pursuant to Regulation 33 (2) of the 2000 Petroleum Act, Beach Petroleum, as operator of PEL 94 in the Cooper Basin, South Australia, herewith submits its report on compliance with :

- the Petroleum Act,
- its Regulations,
- the PEL License conditions, and
- the various Statements of Environmental Objectives to which Beach Petroleum was committed in conducting its work commitments for Year 1 of the Licence.

The attached table "*Summary of Non-Compliance with Regulations*" summarizes the instances during Year 3 of the Permit where Beach Petroleum did not comply either with the Regulations of the Act or with the requirements of the relevant SEO under which it conducted its operations.

Further details of the circumstances surrounding the non-compliances are outlined below.

Petroleum Act and PEL Licence Conditions

There were no instances of non-compliance with the 2000 Petroleum Act during Year 3 of PEL 94.

The original work commitments for PEL 94 required a well to be drilled during **Year 2**. However, due to operational delays beyond Beach's control (wet weather), the Year 2 well (Waitpinga-1) did not commence until four days into Year 3 of the Licence. PIRSA subsequently approved an application from Beach to merge the work programs for the first three years of the PEL 94 Licence. Consequently, the commencement date of Waitpinga-1 was in compliance with the revised work program.

The original work commitments for **PEL 94** also required a well to be drilled during **Year 3** of the Licence. Beach sought approval from PIRSA to drill the PEL 94 Year 3 commitment well in adjacent PEL 95. PIRSA granted this approval by correspondence of 1st June 2004, and the Myponga-1 well, located some 400 metres outside the boundary of PEL 94, was subsequently drilled later that month.

The work program commitments for Year 3 of the PEL 94 Licence required no 2D seismic acquisition. However, 85 kilometres of seismic were recorded to compensate for the shortfall of 40 kilometres of seismic recording during the first two years of the Licence. The Licence now has a surplus of 45 kilometres of 2D seismic.

<u>Regulations</u> of the 2000 Petroleum Act

• Drilling

The attached table "*Checklist for Submission of Drilling Reports / Data / Samples to PIRSA*", summarises Beach's compliance with regard to submitting required data and information to PIRSA within the time frames designated under the Regulations.

The attached table "*Checklist for Notifications of Drilling Operations*", summarises Beach's compliance with regard to the notification to appropriate stakeholders of proposed drilling operations.

Beach applied to PIRSA for an extension to the date for submitting the digital **logging data** for Waitpinga –1. PIRSA granted the extension, and the final version of the logging data was submitted within the time frame of the extension.

The **Well Completion Report** for Waitpinga-1 was submitted one week after the due date.

• Seismic

The attached table "*Checklist for Submitting Geophysical Data and Reports to PIRSA*", summarises Beach's compliance with regard to submitting the required data and information relating to seismic acquisition and processing.

There were no instances of non-compliance with the Regulations in regard to Beach's **seismic field operations** in PEL 94 during Year 3 of the Licence.

The 2004 Malleus South Seismic Survey included 85 kilometres of survey lines in PEL 94. This data acquisition was originally programmed for Year 2 of the Licence, however PIRSA granted approval for the work to be deferred until Year 3.

The data was recorded in early July 2004, requiring six days in total.

The attached table shows that the due dates for submitting the various data sets and Reports from the PEL 94 Malleus Survey are not until Year 4 of the Licence

Submission of data and Reports from 2002 (Permit Year 1) Nautilus Survey

The **Interpretation Report** for the **2002** Nautilus Survey was due to be submitted to PIRSA early in Year 3 of the Licence (February, 2004), six months after the processing of the data was completed.

PIRSA granted an extension of the submission date for this Report, and it was submitted in July, 2004.

• Annual Report

The Annual Report for **Year 2** of the Licence was submitted late, which constituted a non-compliance with the Regulations. PIRSA requested some further minor modifications and additional information, and a revised version was subsequently submitted and approved.



Permit : <u>PEL 94</u> Year 3 : 5 November 2003 - 4 November 2004

Drilling		
g		

SEO Non Compliance :

Field Operation	Date		Description of Incident	Resolution
			DWLBC advised PIRSA that, under the terms of the new SEO for Drilling	Further discussions were held with PIRSA to resolve the issue. Beach
			Operations in the Cooper Basin, an additional two plugs should have been	undertook a review of its downhole procedures for well abandonment in
			inserted in the well during the abandonment program to isolate additional	the Cooper Basin. For future wells in the Cooper Basin, DWLBC will be
Plug and Abandonment Program for Waitpinga-1			potential aquifers.	notified prior to the commencement of the abandonment program if the
				program does not include a plug to seal off basement.

Report Non Compliance :

Name of Report	Date Due	Date Submitted	Cause of Overdue Submission	Resolution
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No incidents of Non - Compliance

Data Submission Non Compliance :

Data Type Date		Cause of Overdue Submission	Resolution
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No incidents of Non - Compliance

Seismic		

SEO Non Compliance :

Field Operation Date	Incident Date & Description	Resolution
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No incidents of Non - Compliance

Report Non Compliance :

Name of Report	Date Due		Cause of Overdue Submission	Resolution
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No incidents of Non - Compliance

Data Submission Non Compliance :

Data Type	Date Due	Cause of Overdue Submission	Resolution
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No incidents of Non - Compliance

CHECKLIST FOR NOTIFICATIONS OF DRILLING OPERATIONS

Permit : <u>PEL 94</u> Year 3 : 5 November 2003 - 4 November 2004

Well Name : Waitpinga -1 Commenced Drilling Operations : 8th November 2003 **** Completed Drilling Operations : 19th November 2003

REQUIREMENT	Format	Person / agency to whom Notification is to be provided	Period required for Notification	Due Date for Notification	Actual Date of Notification	Beach officer responsible for compliance	Comments
Notification of proposed drilling activity including demonstration of the suitability of an existing SEO.		PIRSA / Mike Malavazos	35 days prior to proposed start date	4-Oct-03	17-Apr-03	Exploration Manager	Updated Version. PIRSA approval received 6 May 2002.
Notification of proposed commencement of earthworks – preparation of access tracks and well leases		PIRSA / Tony Wright	2 days prior to proposed start date	6-Jul-03	3-Jul-03	Exploration Manager	
Notification to landowner (s)		Pastoral Lessee;	21 days prior to proposed start date	17-Oct-03	21-Feb-03	Exploration Manager	Landowner is NPWS
		National Parks;	21 days prior to proposed start date	17-Oct-03	21-Feb-03		Follow -up letter on 2-July-03 advising start of construction of access track in 3 weeks - maps, photos, aerial photos, etc
		Native Title Claimant(s);	21 days prior to proposed start date	17-Oct-03	27-Feb-03		Yandruwandha / Yawarrawarrka & ALRM
		other PEL or PL licensees as appropriate.	21 days prior to proposed start date	17-Oct-03	Not Required		

**** Note : Waitpinga 1 originally planned as a Year 2 well - reprogrammed to Year3 with PIRSA approval

CHECKLIST FOR SUBMISSION OF DRILLING REPORTS / DATA / SAMPLES TO PIRSA

Permit : PEL 94 Year 3 : 5 November 2003 - 4 November 2004

Well Name : Waitpinga -1 Commenced Drilling Operations : 8th November 2003 **** Completed Drilling Operations : 19th November 2003

REPORT / DATA SET	Format	Person / agency to whom information is to be provided.	Period allowed for Submitting data.	Date Due	Date Submitted	Beach officer responsible for compliance	Comments
Daily Drilling Reports		PIRSA	Within 12 hrs of report period.	During Drilling Operations	During Drilling Operations	Exploration Manager	
Wireline logs		PIRSA	Within 1 month of acquisition of data.	17-Dec-03	15-Jul-04	Exploration Manager	6 months late. PIRSA approved extensions.
Mud logging data			Included with Daily Drilling Reports, then subsequently with the Well Completion Report.	During Drilling Operations	During Drilling Operations	Exploration Manager	
Well samples		PIRSA	Within 6 months of rig release.	18-May-04	30-Mar-04	Exploration Manager	
Well Completion Reports		PIRSA	Within 6 months of rig release.	18-May-04	24-May-04	Exploration Manager	6 days late
Reportable Incidents.			Serious incidents must be reported immediately (within 24 hrs), with a written report following within 3 months.	No Reportable Incidents		Exploration Manager	
Note : Well Completion Rep	I.						

**** Note : Waitpinga 1 originally planned as a Year 2 well - reprogrammed to Year 3 with PIRSA approval

CHECKLIST FOR SUBMITTING GEOPHYSICAL DATA AND REPORTS TO PIRSA

Permit : <u>PEL 94</u> Year 3 : 5 November 2003 - 4 November 2004

Geophysical Data	Specifics	Format	Transmittal	Sent to	Time Period	Due Date	Comments	
Survey Name : 2004 Malleus Seismic Survey Completed Recording 7th July 2004								
Geophysical Progress Reports		Word or PDF		email or fax : cockshell.david@saugov.sa.gov.au	Periodic basis determined after consultation with Minister			
Geophysical Operations Reports - recording and processing		Hardcopy, PDF			Within 12 months of completion of recording data	5-Jul-05		
Geophysical Data - Seismic	Seismic Field Data		Operations Report, field data , nav		Same time as associated Operations Reports	5-Jul-05	Operations Report, field data , nav data, obs logs, statics etc are due to be submitted in Year 4 of the Licence.	
Geophysical Data - Seismic	Obs Logs	GDA 94	data, obs logs, statics etc are due			5-Jul-05		
Geophysical Data - Seismic	Nav data including elevations & bathymetry	GDA 94	to be submitted in Year 4 of the Licence.			5-Jul-05		
Geophysical Data - Seismic	Field statics					5-Jul-05		
Geophysical Data - Seismic	Processed 2D seismic sections	CGM+				5-Jul-05		
Geophysical Interpretation Report		Hardcopy, PDF	Due date for Interp Report cannot be determined as proessing is not yet complete.		Within 12 months of the completion of the processing of the data	mid - Feb 2004	Not Required until Year 4 of Licence	
Geophysical Data - Seismic	Processed 3D data vols and velocities					N / A	No 3D surveys recorded during Permit Year	
Geophysical Data - Seismic	Processed 3D time slices (if they have been produced)]	N / A	No 3D surveys recorded during Permit Year	
Geophysical Data	Any other field acquisition data!!!!					N / A		

Statements of Environmental Objectives.

A) Drilling Operations

Drilling of the **Waitpinga 1** in PEL 94 well commenced four days into Year 3 of the Licence. The well was initially scheduled to be drilled in Year 2 well, but its commencement was delayed due to unavoidable operational delays (wet weather).

Government approval for Beach to drill the Waitpinga-1 well was conditional on Beach committing to achieving the objectives defined in the "Statement of Environmental Objectives for Drilling and Well Operations in the Cooper / Eromanga Basins – South Australia (SEO)".

The assessment of Beach's performance in achieving the SEO objectives cannot be completed until the well site has been rehabilitated, which cannot commence until after the water in the sump pit has fully evaporated. The water level in the sump is periodically checked, however intermittent rain during the year has prevented the sump from drying out completely.

The access track to Waitpinga 1 commences in the Tinga Tingana Pastoral Block but is mainly located in the Strzelecki Regional Reserve. Beach received written advice from both the owner of the Tinga Tingana Pastoral Block and the District Ranger from Innamincka National Parks and Wildlife that no rehabilitation is required on any part of the access track to Waitpinga 1.

Beach were satisfied that it met all the other objectives required by the SEO for the drilling operations on Waitpinga 1. The Annual Report for Year 2 of the Licence included a spreadsheet which summarised the strategies that were employed to achieve this compliance.

During Year 3 of the permit, the Department of Water Land Biodiversity and Conservation (DWLBC) advised PIRSA that Beach's abandonment program for the Waitpinga -1 well was in breach of the guidelines specified in the SEO for Cooper Basin Drilling and Well Operations (PIRSA, August 2000). Waitpinga -1 was drilled in November 2003, prior to the current (Santos) Drilling SEO coming into effect.

The breach relates to the number of the cement plugs that were set in the well to prevent cross-flow of groundwater between the formations which have aquifer potential. DWLBC advised that in their view, an additional plug should have been placed in the Waitpinga -1 well.

Beach undertook a review of its Plug and Abandonment procedures in relation to the current (Santos) SEO which resulted in some updates to Beach's Drilling Operations Manual (DOM).

For future wells drilled by Beach in the Cooper Basin, DWLBC will be notified prior to the commencement of the abandonment program if the program does not include a plug to seal off basement.

B) Seismic Operations

New Field Operations

Government approval for Beach to undertake its Seismic Operations in PEL 94 was conditional on Beach committing to the objectives defined in the "Statement of Environmental Objectives for Seismic Operations in the Cooper / Eromanga Basins – South Australia ".

A summary of the strategies employed to achieve these objectives is provided in the spreadsheet below.

Beach is satisfied each of the objectives listed in the SEO were achieved .

SEO Objective 1 :	Ensure that the potential impacts of the proposed
	seismic operations on biological diversity and cultural
	requirements of the environment are assessed within
	a planning process and incorporated into field
	management procedures.

Goal 1.1 : Identify important or sensitive environmental and cultural components.

PEL 94 straddles the boundary between the Claim Areas of two Native Title Groups - the Ngayana Dieri Karna (NDK) Claimant Group and the Yandruwhanda / Yawarrawarrka (Y-Y) Claimant Group. Beach has Agreements with both Claimant groups. Prior to the commencement of survey line preparation, Work Area Clearances were undertaken by representatives of both Groups under the terms of these Agreements. Each scouting party inspected a representative sample of the proposed lines.

A report was prepared by the accompanying anthropologists, documenting the locations where deviations would be required to the proposed seismic lines to avoid sites of cultural significance. The report further documented general guidelines to assist the line preparation crew on appropriate deviation procedures in the event that further sites of cultural significance were identified along proposed survey lines that had not been inspected by the scouting team.

All field crews associated with the seismic survey program attended an induction on cultural heritage issues for this area, with particular emphasis on identification and avoidance of significant cultural material.

Goal 1.2 : Identify threatening processes and activities

No processes or activities associated with the survey operations were considered to be threatening to the subject environment.

Goal 1.3 : Assess any adverse impact on biological diversity likely to arise from the proposed operation on a regional basis.

The area covered by PEL 94 is predominantly a dunefield environment with a small portion of floodplain land system on the eastern border. GAS criteria for assessing adverse impacts on biodiversity for the se two land systems are provided in the Statement of Environmental Objectives (Tables A2.2. and A2.3).

The impacts of the Malleus South Seismic survey in PEL 94 were audited against these criteria. A report of this assessment was submitted to PIRSA on 7^{th} December, 2004.

Goal 1.4 : Ensure that issues raised in the planning process are incorporated into field management procedures.

All personnel involved in the field operations were briefed at the commencement of the survey operations as to appropriate procedures for environmental management and protection of cultural heritage.

A company representative was present with the line clearing and recording crews throughout the field operations to ensure adherence to the planned field management procedures.

SEO Objective 2 :	Monitor and manage those activities that have, or
	are likely to have, temporary impacts on biological
	diversity, cultural components of the environment,
	groundwater, or other land users, and facilitate
	rehabilitation so as to minimize such impacts if they
	occur.

As defined in the SEO, the goals of this objective are to minimize :

- **clearing** of native vegetation,
- **disturbance** to native fauna,
- **impacts** on soil, surface drainage, visual ambience and other land users, and
- the **potential for third parties** to use survey tracks and sites following completion of operations.

Two sets of GAS criteria are defined in the SEO for assessing the extent of these impacts. One set of criteria relates to assessment carried out at the completion of the field operations. The second set relates to assessment carried out when the lines have been left to rehabilitate for some period.

At the completion of the Malleus South survey, an assessment of the impacts was undertaken against the first set of criteria. As part of that assessment, five representative locations were selected as Environmental Monitoring Points (EMPs). Two of these, BC04 - EMP-03 and BC04 - EMP-04, are located in PEL 94. Both are in a dunefield environment.

The results of the GAS audit are presented in the attached table. The GAS scores for the two EMPs in PEL 94 were all in the range of 0 to +2.

A report of this assessment was submitted to PIRSA on 7th December, 2004.

SEO Objective 3:	Avoid undertaking any activities which have , or are likely to have, long-term significant adverse impact(s) on biological diversity, cultural components					
	of the environment, groundwater, or other land uses					

The crew which prepared the access lines for the Malleus South seismic survey were supervised to ensure they used environmentally appropriate techniques that will enable the combination of wind action and occasional rainfall to revegetate the lines to the point where they will be indiscernible within a few years.

The technique of weaving the routes of the seismic lines was practiced extensively, allowing significant trees to be left standing, thereby minimizing any long term visual impact arising from the operations.

This technique has been used successfully in this area for previous surveys (refer below).

There is no anticipation of long term adverse impacts.

Rehabilitation of the seismic lines from the Nautilus Survey (Permit Year 1)

The Environment Report for the (Year 1) **2002 Nautilus** Survey specified the location of an Environmental Monitoring Point (EMP – 05) on one of the seismic lines from that survey in PEL 94. EMPs are used to monitor the progress of natural rehabilitation of the disturbed ground along access tracks.

The Annual Report for **Year 2** of PEL 94 included photographs taken at EMP – 05, which showed that natural rehabilitation of the Nautilus Survey seismic lines in this region was virtually complete twelve months after recording, due to favorable climatic conditions (wind and rain) in the intervening period.

GAS scores for assessing seismic lines on completion of survey in the Cooper Basin, South Australia

Beach Petroleum Limited.: 2004 PEL 94/95 Malleus South 2D Seismic Survey: Recorded July 2nd – 20th, 2004: Audited by: Bruce Beer

LAND SYSTEM	MEASURE	SCORE				
(Locations)	(Associated goals) ^(a)	+2 ^(b, c)	+1 ^(b, c)	0 ^(b, c)	-1	-2 ^(d)
Non land system specific EMP Locations 1) BC04-EMP-03; Line BC04-26 # 279 2) BC04-EMP-04; Line BC04-21 # 306 3) BC04-EMP-05; Line BC04-04 # 422+8 4) BC04-EMP-06; Line BC04-13 # 203 5) BC04-EMP-07; Line BC04-09 # 545	Impact on infrastructure 2.6			• N/A	•	•
	Visual impact 2.5, 2.7	•	• 1), 2)	1),2),3),	• 4), 5)	•
	Uphole site restoration 2.3, 2.5 ^(e)	•	•	N/A	•	•
Note: GAS scores refer to the area 500m either side of the EMP location	Pollution or litter 2.1, 2.2, 2.3, 2.5	1),2), 3). 4). 5)	•		•	•
Dunefield	Impact on vegetation 2.1, 2.2 ^(f)	•	1),2),3),4), 5)		•	•
	Disturbance to land surface 2.2, 2.3 ^(e)	•		1). 2). 3). 4), 5)	•	•

(.../cont.)

(Table A2.2 cont.)

LAND SYSTEM	MEASURE	SCORE				
	(Associated goals) ^(a)	+2 ^(b, c)	+1 ^(b, c)	0 ^(b, c)	-1	-2 ^(d)
Floodplain and wetlands	Impact on vegetation 2.1, 2.2 ^(f)	•		• N/A	•	•
	Disturbance to land surface 2.2, 2.3, 2.4, 2.5 ^(e)	•		• N/A	•	•
Gibber plain and tableland	Impact on vegetation 2.1, 2.2	•	•	• N/A	•	•
	Disturbance to land surface 2.2, 2.3, 2.5 ^(e)	•	•	• N/A	•	•
Salt lake	Disturbance to land surface 2.3, 2.5 ^(e)	•	•	• N/A	•	•

(a) Goals under Objective 2:

- 2.1 Clearing or other impacts on native vegetation are minimised.
- 2.2 Disturbance or other impacts on native fauna and their habitats are minimised.
- 2.3 Impact on soil is minimised.
- 2.4 Impact on surface drainage is minimised
- 2.5 Visual impact of operations (including litter) is minimised.
- 2.6 Impact on other land users is minimised.
- 2.7 Third party use of sites, following the completion of operations, is discouraged.

- (b) If any criterion (dot point) within a -1 or -2 cell occurs, then a score of -1 or -2 will be allocated.
- (c) For 0,+1 and +2 cells, all relevant criteria (dot point) within the cell must be satisfied to score at that level.
- (d) Some criteria at -2 level may also be subject to defined conditions, but are included in this table to ensure that they are clearly identified.
- (e) All vertical measurements to be measured from normal ground surface.
- (f) Priority classification refers to Wiltshire and Schmidt (1977).

(g) 'Windrows' in this context means mounding of gibbers through the action of wheel trafficking and associated dispersal of gibbers away from wheel tracks.