



ANNUAL REPORT

PRELIMINARY SURVEY
LICENCE No. 10

BALLERA TO MOOMBA PIPELINE

FEBRUARY 2003

1.0 INTRODUCTION

This report is submitted in accordance with the requirements of Regulation 33(1) of Part 4 of the South Australian Petroleum Act 2000.

The report reviews the activities completed in association with the Preliminary Survey Licence for the proposed Ballera to Moomba Pipeline (South Australian section only) for the year 2003.

During the past year, the preliminary survey activities were limited to a broad scale flyover of the route and field survey of the proposed route.

2.0 ANNUAL REPORT

2.1 Summary of Regulated Activities

Epic Energy completed high level survey work on the proposed Ballera to Moomba Pipeline:

- Broad scale fly over of the route to identify major topographical constraints;
- Field survey of the route to identify major topographical constraints and identify existing access to the proposed route; and
- Obtaining Survey Consents from some landholders along the route.

2.2 Compliance with the Act

All activities were completed in accordance with the Petroleum Act and Regulations.

An assessment of compliance with the Statement of Environmental Objectives is included in Attachment 1.

2.3 Actions to Rectify Non-Compliance

No non-compliances were identified in association with the preliminary survey activities. Therefore no remedial actions were necessary.

2.4 Management System Audits

No audits were completed in association with the preliminary survey activities.

2.5 List of Reports and Data Generated

No formal reports were generated in association with the preliminary survey activities. The data collected as part of the survey activities included:

- Minor adjustments to the route;
- Major topographical constraints;
- Existing access tracks;
- Cattle grids;
- Property residences; and
- Existing infrastructure.

This data has been captured and stored in the Epic Energy GIS system and used to prepare preliminary maps for the project. This data might be made available to PIRSA if required.

2.6 Reportable Incidents

There were no reportable incidents in association with the preliminary survey.

2.7 Foreseeable Threats

Not applicable to the preliminary survey activities.

2.8 Statement of Expenditure

Commercial in Confidence

2.9 Operations for Ensuing Year

As outlined in the introduction, the majority of activities associated with the proposed Ballera to Moomba Pipeline were in association with the 300m wide corridor outlined in the licence document. Subject to the outcome of the negotiation with interested customers, Epic Energy intends to complete the following activities once there is commercial certainty in relation to the project associated with project. These activities may include:

- More Detailed Land Survey
- Geo-technical Survey
- Ecological Survey
- Heritage Survey

ATTACHMENT 1

COMPLIANCE TO STATEMENT OF ENVIRONMENTAL OBJECTIVES

Environmental Objectives and Assessment Criteria

Environmental Objectives	Assessment Criteria	Objective Achieved
<p>1. To minimise disturbance to landowners/managers.</p>	<ul style="list-style-type: none"> • The project has a nominated person with specific responsibility for maintaining contact with all potentially affected landowners/managers. • All landowners/managers are consulted prior to preliminary survey activities and their specific requirements are recorded and addressed appropriately. • All reasonable landowner requirements are incorporated into management strategies. • Landowners/managers are provided with information regarding the scope, schedule and duration of preliminary survey activities. • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • Landowner complaints are recorded and reported to the licensee. 	<ul style="list-style-type: none"> • Activity during the year remains low level with minimal field activities carried out. • No incidents were reported • Records of all contacts made with landowners has been maintained within Epic Energy's LMS database and GIS • No landholder complaints. • Landholder activities not restricted or disturbed as a result of survey
<p>2. To minimise damage to crops and pasture.</p>	<ul style="list-style-type: none"> • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • Existing tracks are used where available. • The area utilised for excavation is restricted to the smallest practicable (ie approx 20 m² per site). • Disturbance is restricted to the proposed construction right-of-way where practicable (right-of-way width is likely to vary from between 10 to 25 metres). • Topsoil is kept separate from subsoil. • The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowner's satisfaction. • Landowner complaints are recorded. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • No excavation was carried out • No incidents were reported • Records of all contacts made with landowners has been maintained within Epic Energy's LMS database and GIS • No landholder complaints. • Landholder activities not restricted or disturbed as a result of survey
<p>3. To minimise disturbance to stock.</p>	<ul style="list-style-type: none"> • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • Landowners/managers are provided with adequate prior notice of proposed land access (as per requirements of Part 10 of the Act). • Vehicles are driven at appropriately slow speeds to avoid undue disturbance. • Gates are left as found. • Landowner complaints are recorded. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • Vehicle speeds were restricted and gates were left as found. • No incidents were reported • No landholder complaints. • Landholder activities not restricted or disturbed as a result of survey

Environmental Objectives	Assessment Criteria	Objective Achieved
4. To prevent disturbance to native fauna.	<ul style="list-style-type: none"> • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • Vehicles are driven at appropriately slow speeds to avoid undue disturbance. • Plan/rationalise preliminary survey activities to ensure the number of site visits is as few as practicable. • Clearing native vegetation as part of survey activities avoided. • Excavation holes checked regularly for wildlife. • Undertake ecological survey prior to geo-technical and land/cadastral survey and identify any "no-go" areas. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • Vehicle speeds were restricted and gates were left as found. • No clearing or disturbance to native vegetation/fauna/marine habitats during this period
5. To minimise generation of dust.	<ul style="list-style-type: none"> • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • Vehicles are driven at appropriately slow speeds to avoid undue disturbance. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • Vehicle speeds were restricted and gates were left as found.
6. To avoid the introduction of weeds or disease.	<ul style="list-style-type: none"> • Identify local weed and disease management issues prior to the commencement of preliminary survey activities. • Management procedures in place to prevent the spread of identified weeds/diseases/pathogens. • Ensure all equipment and vehicles are free of soil and vegetative matter prior to entry to and exit from properties and roadsites. • The number of site visits are restricted to as few as practicable (under normal circumstances this will be four or less). • All landowners/managers are consulted prior to preliminary survey activities and their specific requirements are recorded. • Planning has taken account of season/climates, as some pathogen born diseases (eg dieback) are transported during particular conditions. 	<ul style="list-style-type: none"> • Survey activities utilised existing access tracks where available • Assessment were made on existence of weeds and locations as part of planning before visits commenced • Vehicles were washed down at Dry Creek prior to the commencement of activities and checked between properties.

Environmental Objectives	Assessment Criteria	Objective Achieved
7. To avoid or minimise damage to vegetation and wildlife habitat.	<ul style="list-style-type: none"> • Clearing native vegetation as part of land survey is prevented where avoidable in native vegetation areas. Where demonstrated to be unavoidable a location specific environmental management plan is developed and implemented. • Soil excavations are not conducted in areas of native vegetation. • Survey is undertaken by appropriately trained and experienced personnel. • Any sites of significance (due to size, density and/or presence of threatened species) are recorded for subsequent avoidance during construction. • Any areas of clearance are rehabilitated using local seed sources, where available, and appropriate methods. • Preliminary survey activities not conducted within any areas of intact vegetation without prior consultation with relevant government departments. • Samples of native vegetation are collected by qualified botanists or appropriately trained and experienced personnel under appropriate permits from the Department of Environment and Heritage. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • Vehicle speeds were restricted and gates were left as found. • No soil excavation, clearance or disturbance to vegetation or wildlife habitat occurred during this period.
8. To avoid damage or unnecessary disturbance to cultural heritage sites.	<ul style="list-style-type: none"> • Survey is undertaken by appropriately trained and experienced personnel. • The proponent has a mechanism in place to appropriately report and respond to any sites discovered during pipeline survey activities. • Any sites are recorded for subsequent avoidance during construction. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • No disturbance to any sites were reported along the proposed route during the preliminary survey activities
9. To minimise visual impacts.	<ul style="list-style-type: none"> • Marker pegs are limited to those essential for identifying the proposed alignment. • Excavations are restricted to areas away from general public view, where practicable. • Excavations are restored as soon as practicable. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • No peg markers were used
10. To minimise soil disturbance.	<ul style="list-style-type: none"> • The area of excavation is restricted to the smallest practicable (approx 20m² per site). • Disturbance is restricted to the proposed construction right-of-way where practicable (right-of-way width is likely to vary from between 10 to 25 metres). • Topsoil is kept separate from subsoil. • Vehicles use existing road tracks where practicable. • The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowner's satisfaction. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • No excavation occurred as part of the survey activities

Environmental Objectives	Assessment Criteria	Objective Achieved
11. To minimise impact of surface water, groundwater and drainage patterns.	<ul style="list-style-type: none"> • Access tracks are located to avoid any diversion of water during flood inundation. • Areas of inundation, which may result in bogging, or creation of heavy wheeltrack rutting (more than 200mm deep) are avoided. • Vehicles parked away from watercourses or sensitive ecological environments (minimum 50m). 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • Vehicle speeds were restricted • No land or water contamination or disturbance occurred or reported.
12. To minimise the impact on the environment of waste handling and disposal.	<ul style="list-style-type: none"> • All rubbish is removed from survey site. • All vehicle oil spills are managed appropriately. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Survey activities utilised existing access tracks where available • All rubbish were removed from survey site • No vehicle oil spills occurred or reported.
13. To minimise the risk of fire.	<ul style="list-style-type: none"> • Diesel vehicles are used where practicable. • Fire extinguishers and/or knapsacks are kept in all vehicles. • Vehicles are not parked on, or driven through, long grass where avoidable. • Requirements of the landowner/manager are met. • All access to be prohibited on days declared Total Fire Ban. • All requirements of the Country Fires Act 1989 have been met. • Personnel do not smoke while conducting survey activities. 	<ul style="list-style-type: none"> • Activity during the year remains low level with only one field activity carried out. • Diesel vehicle were used • Vehicles were equipped with fire extinguishers and other safety equipment • Smoking was banned.
14. To minimise erosion.	<ul style="list-style-type: none"> • Any areas of erosion are rehabilitated or managed to prevent further erosion. • The soil profile and contours are restored to as near as possible to their undisturbed state as soon as practicable and to the landowner's satisfaction. • Any areas of excavation have been restricted to the smallest practicable. 	<ul style="list-style-type: none"> • No excavation occurred as part of the preliminary survey activities. • Assessment of existence of rocks determined mainly from aboveground and geographical features of adjacent land • Existing access tracks were utilised where available