



WELL ABANDONMENT REPORT
ATP 626P, SURAT BASIN, QLD
LYDIA 1

Authors: Ian Scott, Wenfeng Zhang, John Carroll

Reviewed and Approved by: Martin Berry

(Exploration Manager)

Report Lodged by: Wenfeng Zhang

Date : 25/10/2013



TABLE OF CONTENTS

1.	WELL CARD.....	4
2.0	WELL DETAILS.....	5
2.1	Summary	5
2.2	Hole Schematic	6
2.3	Formations Penetrated	7
2.4	Coal Seams Intersected.....	7
3.0	DRILLING OPERATIONS	8
3.1	Hole Size and Depth	8
3.2	Casing and Cementing.....	8
3.3	Deviation Surveys.....	8
3.4	Mudlogging / Ditch Cuttings	9
3.5	Coring.....	9
3.6	Wireline Logging	9
3.7	Drill Stem Test	9
3.8	Bit Record.....	10
3.9	Drilling Fluid	10
3.10	Perforations	10
3.11	Work Over	10
3.12	Transducer Installation and Grouting	10
3.13	Time Utilisation	10
4.0	WELLHEAD REMOVAL AND REHABILITATION (WR&R).....	12
4.1	Procedure.....	12
4.1.1	Wellhead B and C Sections Removal.....	12
4.1.2	Excavate, Remove Cellar and A Section	12
4.1.3	Wellhead Cap	13
4.1.4	Rehabilitation.....	13
4.2	Operations	13
Appendix 1	Well Location Survey Report.....	15
Appendix 2	Icon Site Rehabilitation Guidelines	16
Appendix 3	Risk Assessment Rehabilitation.....	17
Appendix 4	Landholder Release Form	18



LIST OF FIGURES

Figure 1	Well Location of Lydia 1	5
Figure 2	Well Profile of Lydia 1	6
Figure 3	Time versus Depth Curve of Lydia 1.....	11
Figure 4	Lydia 1 Casing Sealed 1.5m below Ground	13
Figure 5	Lydia 1 Well Sign.....	14

LIST OF TABLES

Table 1	Well Card of Lydia 1.....	4
Table 2	Formations Encountered in Lydia 1.....	7
Table 3	Coal Seams Encountered in Lydia 1.....	7
Table 4	Hole Profile Summary of Lydia 1	8
Table 5	Casing and Cementing of Lydia 1.....	8
Table 6	Sampling Request of Lydia 1.....	9
Table 7	Wireline Logging Summary of Lydia 1	9
Table 8	Bit Record of Lydia 1.....	10

REFERENCES

Lydia 1 Well Completion Report, March 2008



1. WELL CARD

WELL NAME	Lydia 1	WELL TYPE	Exploration Well
TOTAL DEPTH (m RT)	816.1 (Driller's) 813.8 (Logger's)	STATUS	P & A, Rehabilitated
LATITUDE	28° 04' 07.22" S	EASTING (m)	246, 819
LONGITUDE	150° 25' 25.86 E	NORTHING (m)	6, 892, 511
GROUND ELEVATION (m AMSL)	291.7	ROTARY TABLE HEIGHT (m)	1.2
LOCATION	60 km North of Goondiwindi, QLD	TITLE	ATP 626P
SPUDED	09 Nov 2007	DATUM / PROJECTION	GDA 94 / MGA Zone 56
REACHED TD	14 Nov 2007	RIG RELEASED	17 Nov 2007
TENEMENT HOLDER	Jakabar Pty Ltd 4 Miami Key, Broadbeach, Gold Coast, QLD 4218 Tel: 07 5554 7111 Fax: 07 5554 7100 Email: Info@iconenergy.com		
OPERATOR	Icon Energy Ltd 4 Miami Key, Broadbeach, Gold Coast, QLD 4218 Tel: 07 5554 7111, Fax: 07 5554 7100, Email: Info@iconenergy.com		
DRILL RIG / COMPANY	Rig 101 / Mitchell Drilling		
LANDHOLDER	Sandow Family Trust, "Arahana" 16131 Gore Highway, Goondiwindi, QLD 4390		
SIZE (BIT)	CASING SIZE (")	CASING TYPE	DEPTH (m RT)
16" (Auger)	14	Line Pipe	6
12/4" (PDC)	10 3/4	Line Pipe	61
9 7/8" (PDC)	7	BTC	614
DRILLED (m RT)	0 - 816	CORED (m RT)	0
WELLSITE GEOLOGISTS	Jan Hulse	WELL REPORT PREPARED BY	Jan Hulse
DATE LOGGED	15 Nov 2007	LOGGING COMPANY	Weatherford
LOGGING SUITE	Gamma-Caliper-Induction-Density	RECORDED BY	Sam Austin
UNIT NUMBER	13066	LOGGED INTERVAL (m RT)	0 – 813.82

Table 1 Well Card of Lydia 1

2.0 WELL DETAILS

2.1 Summary

Lydia-1 was located 60km north of Goondiwindi in southern Queensland with the objective to evaluate the Coal Seam Gas potential (CSG) of the Walloon Coal Measures (WCM). The well was the second of a three well exploration programme in ATP626 (Natasha-1, Lydia-1 and Stitch-1).

Mitchell Rig 101 was used for the drilling of Lydia-1. An Open Hole Production test was performed, however no gas only water was observed, so the well head was installed and the well suspended. On the 30th of May 2009, Easternwell Service Rig 17 was mobilized to complete a workover of the well so as it could eventually be completed as a monitoring well. On 4 June 2009 Sibra installed 3 VWT (Vibrating Wire Transducers) and grouted them into the well, however, during the grouting operations on 12 June, the connections to the transducers were lost. It was presumed that the data lines had been cut during withdrawal of the grouting line, so a decision was made to cement the well to surface, replace the wellhead and abandon the operation. The well site was then rehabilitated in August 2012 following the legislative requirements of Queensland government.

All depth values in this report were measured depths and counted from the natural ground level.

The well was located on a flat lying bush land approximately 60 km North of Goondiwindi, Southern Queensland (Figure 1), and is owned by the Sandow Family Trust.

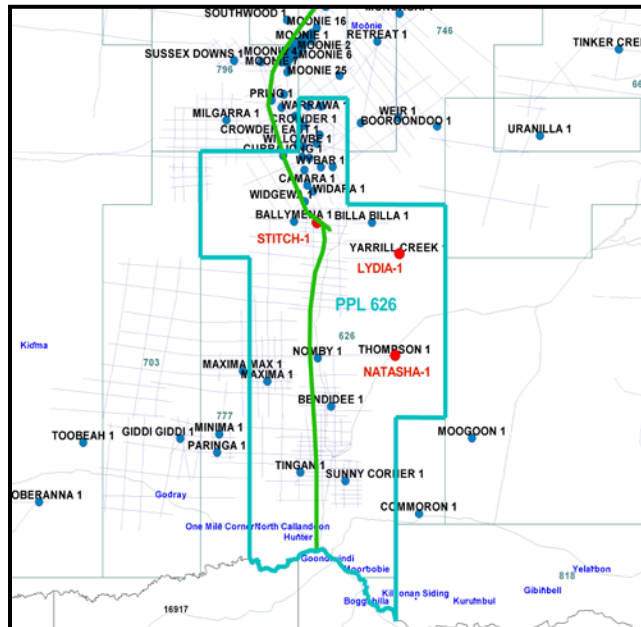


Figure 1 Well Location of Lydia 1

The well location was surveyed by Dynamic Satellite Surveys and details are seen in Appendix 1.

2.2 Hole Schematic

The final hole profile of Lydia 1 is shown below.

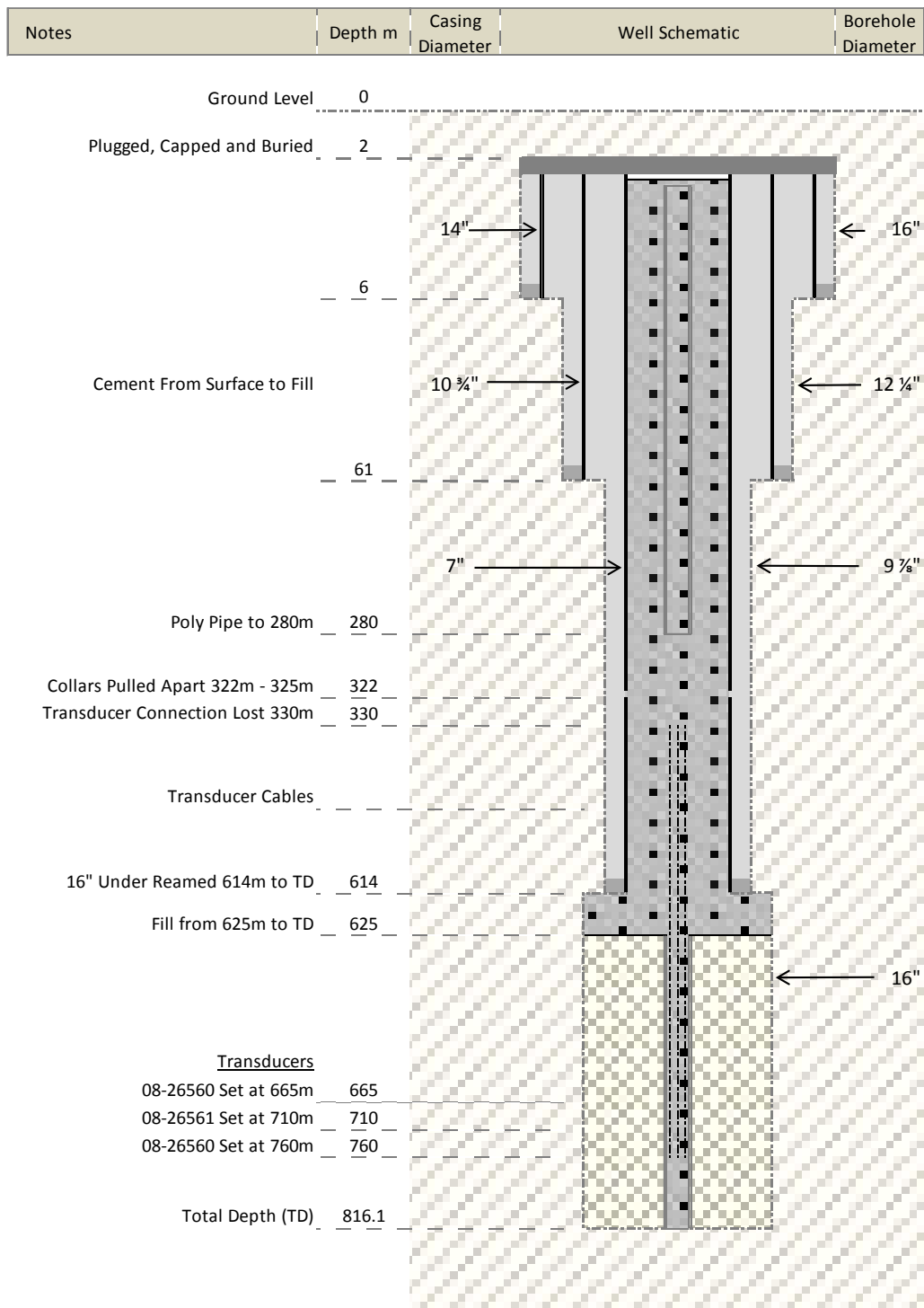


Figure 2 Well Profile of Lydia 1



2.3 Formations Penetrated

FORMATION	PROGNOSED DEPTH		ACTUAL DEPTH		DIFF. (m)	THICKNESS (m)
	(mGL)	(mSS)	(mGL)	(mSS)		
Ground Level	0	290	0	291.7	0	-
Bungil Formation	0	290	0	291.7	0	396.8
Gubberamunda Sandstone	409	-119	396.8	-105.1	12.2H	61.8
Westbourne Formation	467	-177	458.6	-166.9	8.4H	49.1
Springbok Sandstone	507	-217	507.7	-216	0.7L	135.8
Walloon Coal Measures	645	-355	643.5	-351.8	1.5H	172.6+
TD	800	-510	816.1	-524.4	16.1L	-

Table 2 Formations Encountered in Lydia 1

2.4 Coal Seams Intersected

Seam #	Top (mGL)	Base (mGL)	Thickness (m)
1	643.65	644.53	0.88
2	655.75	657.05	1.30
3	657.18	658.00	0.83
4	658.18	659.05	0.88
5	659.73	660.25	0.52
6	679.10	679.58	0.48
7	685.65	685.75	0.10
8	686.15	686.50	0.35
9	698.33	699.78	1.45
10	703.90	704.48	0.58
11	704.63	704.80	0.17
12	708.60	708.93	0.32
13	712.68	713.10	0.43
14	713.48	713.68	0.20
15	715.98	716.35	0.38
16	716.88	717.35	0.48
17	720.40	720.70	0.30
18	723.98	724.23	0.25
19	727.05	727.10	0.05
20	764.03	764.48	0.45
21	767.73	768.20	0.48
22	774.45	774.85	0.40
23	776.83	777.23	0.40
24	779.48	779.68	0.20
25	798.70	800.55	1.85
26	801.68	802.95	1.28
27	804.33	804.40	0.07

Table 3 Coal Seams Encountered in Lydia 1



3.0 DRILLING OPERATIONS

Mitchell Rig 101 was used for the drilling of Lydia-1 spudding at 01:00 hour on 9 November 2007. Total Depth was reached on 14 November 2007 and the rig released at 09:00 hours on 17 November 2007 (Figure 3). There were no significant incidents to either personnel or property during the drilling operations.

An Open Hole Production test was performed, however, no gas only water was observed, so the well head was installed and the well suspended.

3.1 Hole Size and Depth

The details of the hole profile are shown in Table 4 below.

HOLE SIZE (BIT)	DEPTH (m)	CASING SIZE (")	CASING TYPE	SETTING DEPTH (m)	MUD TYPE
16" (Auger)	0 – 6	14	Conductor	6	-
12 1/4" (PDC)	6 – 63	10 3/4	Surface	61	Water and Gel as required
9 7/8 (PDC)	61 - 614	7	Production	-	Water and Gel as required
6 (PDC)	614 - 816	-	-	-	Water and Gel as required
16 Under reamer	816 - 643	-	-	-	Water and Gel as required

Table 4 Hole Profile Summary of Lydia 1

3.2 Casing and Cementing

Size (")	Type	Weight (lb/ft)	Number of Joints	Length (m)	Depth Set (mGL)	Cementing
14	Line Pipe	54.57	1	6	6	Cemented by hand.
10 3/4	Line Pipe		10	60	61	3m ³ Readymix, 15.6ppg. Top of cement tagged at 52m.
7	Buttress	23	102	614	614	10bbl water pre-flush. 160 sacks Class A 9% gel, 260 sacks Class A neat. Plug did not bump, float did not hold. Tagged cement bridge at 304m, hard cement at 608m.

Table 5 Casing and Cementing of Lydia 1

3.3 Deviation Surveys

No deviation surveys were conducted.



3.4 Mudlogging / Ditch Cuttings

Ditch cuttings from the 6” section of Lydia-1 were collected by the site Geologist at the following intervals.

Interval/Formation	Sample Type (and recipient)	Sample Volume and Frequency
614 – 816.1m	Washed and dried (QDME)	1 x 200 g @ 2.5 m intervals
	Samplex trays (Icon Energy)	1 x 5 g @ 2.5 m intervals

Table 6 Sampling Request of Lydia 1

3.5 Coring

The well was drilled to the designed depth without any coring.

3.6 Wireline Logging

Wireline logging services were provided by Weatherford (see Table 7) with a combination wireline tool (GR-Caliper-Induction-Density) being run to TD and logged to the casing shoe at 614m; while the GR log was acquired to surface. The logs were sampled at high resolution of 2.5cm / sample in the open hole and 10cm / sample in the casing. The loggers casing depth was 614.7m, 0.7m deeper than the drillers tally, so for the purpose of correlation this was considered to be insignificant and depths, as originally recorded, have been maintained.

RUN	TOOL STRING	INTERVAL (mGL)	SAMPLES PER METRE	LOG SCALES
2*	GR	0-614	10	Digital Data
2*	GR-CALIPER-INDUCTION-DENSITY	614-813.82	40	Digital Data

Table 7 Wireline Logging Summary of Lydia 1

*Run #1 encountered a bridge at 734m; the section above was logged and spliced to Run #2 once the bridge was cleared with the bit.

3.7 Drill Stem Test

No Drill Stem Test was performed.



3.8 Bit Record

Bit #	Size (")	Type	Jets (1/32")	Condition
AUGER	16	-	-	Good
1	12 ¼	PDC	5 x open	Good
2	9 7/8	PDC	5 x 13	Good
3	6 1/8	PDC	3 x open	Unusable
4	5 7/8	Tricone	3 x 15	Good
5	6	PDC	-	Good
6	6	PDC	-	Good
7	16	Under Reamer	-	Good

Table 8 Bit Record of Lydia 1

3.9 Drilling Fluid

The hole was drilled using water and native clays with gel added as required; however Bentonitic clays were abundant in the WCM section and the viscosity increased noticeably.

3.10 Perforations

There were no perforations conducted in this well.

3.11 Work Over

On 30 May 2009 the Eastern Well Service Rig #17 was assigned to clean out the well and leave it stable so that Sigra could install 3 pressure sensors at 655, 710 and 760 meters.

The well was circulated with 3% KCl brine while running into the hole and cleaning out fill to TD at 816 m, then the adapter flange and 2 1/16" gate valve were reinstalled and the rig released on 3 June 2009.

3.12 Transducer Installation and Grouting

Sigra was contracted to install 3 VWT (Vibrating Wire Transducers) and grout them into the well that would then be sealed as a monitoring well.

This work was commenced on 4 June 2009, however, during the grouting operations on 12 June, the connections to the transducers were lost and, presuming that the data lines had been cut during withdrawal of the grouting line, a decision to cement the well to surface, replace the wellhead and abandon the operation was made.

3.13 Time Utilisation

Lydia-1 took 8.33 days (200 hours) to complete with a total of 3 hours lost for rig repair of wash pipe and mud pumps. Another three hours were spent waiting on arrival of services.

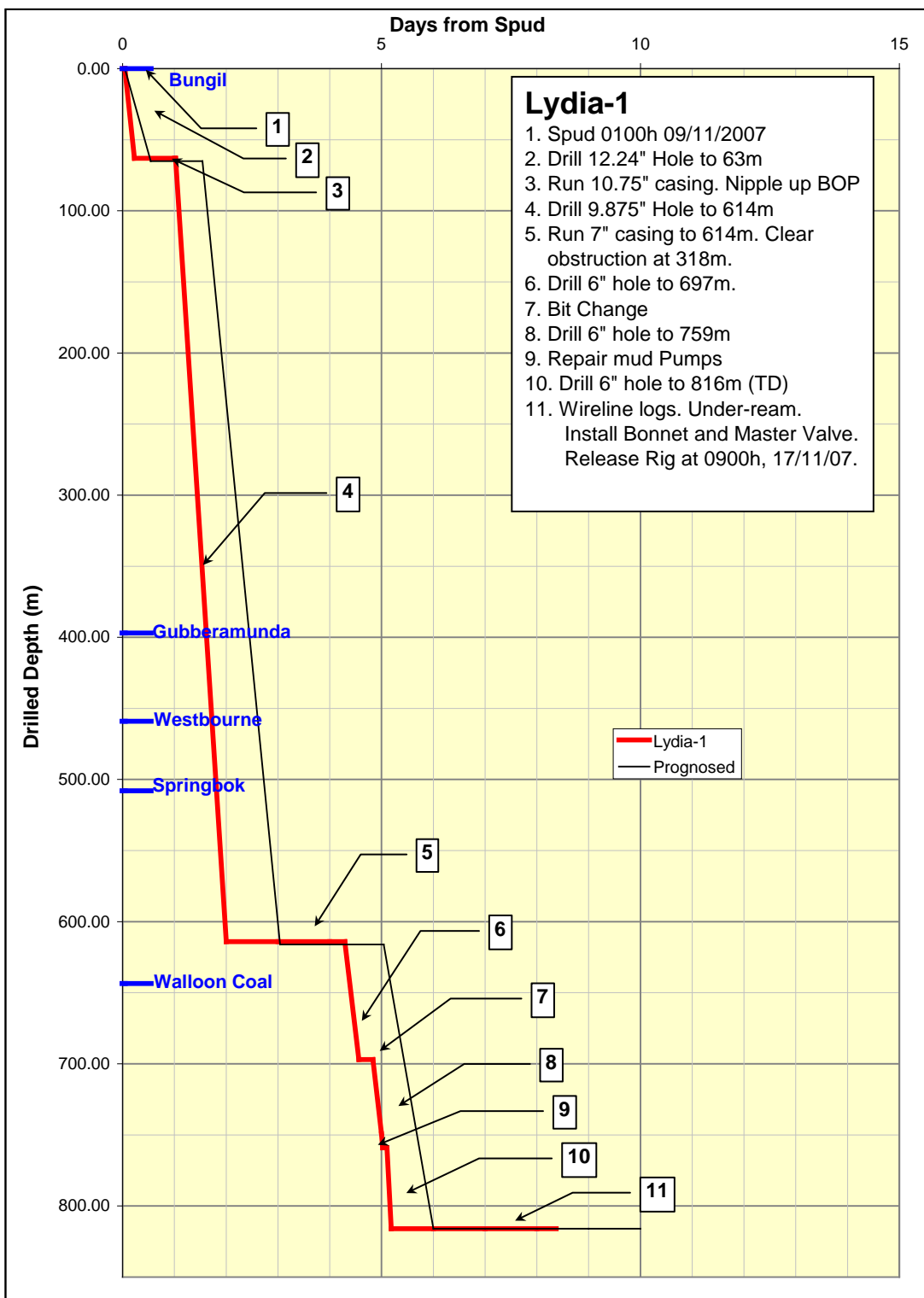


Figure 3 Time versus Depth Curve of Lydia 1



4.0 WELLHEAD REMOVAL AND REHABILITATION (WR&R)

Icon has carried out its obligation to remove the wellhead from Lydia 1 and rehabilitate the site in line with Government regulations contained in the Petroleum & Gas (Production & Safety) Act 2004, the Petroleum & Gas (Production & Safety) Regulation 2004 of the State of Queensland, and the Environmental Authority issued by the Department of Environment and Resource Management for ATP626.

4.1 Procedure

The site rehabilitation guidelines are attached in Appendix 4, the risk assessment in Appendix 5 and the specific program for this well is outlined below:

4.1.1 Wellhead B and C Sections Removal

- 1) Notify the Landholder of our operation and date;
- 2) Skim off vegetation around wellhead and pump out cellar (if required);
- 3) Hold a toolbox meeting prior to the start of the job. All Contractors and Employees must attend this meeting, and go over the safety procedures for doing onsite hot work as below and complete a Permit to Work and Confined Space Entry forms:
 - Complete JSA for bleed off and wellhead removal;
 - Ensure there is no gas present on site;
 - All materials to be cut are open to the atmosphere.
- 4) Open annulus bleed valve and ensure that all annuli are opened and gas free, check site with gas sniffer to ensure that no gas or expansion pressure is present in the well;
- 5) RIH to tag Top of cement with dip or tape, fill with water and check for any bubbles;
- 6) Ensure that Master Valve is supported properly with D shackles and slings;
- 7) Unbolt master valve and lift off tree. If master valve cannot be unbolted cut off bolts, lift off tree, and ensure that the proper steps above are followed prior to any hot work or cutting;
- 8) Cut or unbolt B section and remove;

4.1.2 Excavate, Remove Cellar and A Section

- 1) Hold a JSA for excavation cellar and cut off A section and weld on cap;
- 2) Dig out excessive mud or cement in cellar, jackhammer if required and remove cellar box;
- 3) Excavate sides of cellar (Batter sides) to provide adequate and safe space to work;
- 4) Measure to see if clearance is sufficient to 1.5 m below Ground Level (GL);
- 5) Ensure that wellhead A section is supported by appropriate shackles and sling on payloader or forklift;
- 6) Recheck cellar with sniffer to ensure no gas present prior to doing cutting/welding hotwork;
- 7) Cut off wellhead by cutting 10 3/4 inch & 7 inch casing at 1.5 m below GL with grinder cutter;
- 8) Lift wellhead out of cellar and place on ground.

4.1.3 Wellhead Cap

- 1) Recheck cellar with sniffer to ensure no gas present prior to doing cutting/welding hot work;
- 2) Weld on cap with Well Name, Date Drilled and Total Depth.

4.1.4 Rehabilitation

- 1) Bury casing stub and excavated cellar approximately 20 cm then add tiger tape. Continue filling excavated cellar and compact until 20 cm below ground level, add top soil and level off and re-seed as per landowner's instructions;
- 2) Ensure that the old sign is removed from the well guard and a new sign is placed on the fence at the nearest point to the well, with directions and distances from the fence to the wellhead;
- 3) Remove all redundant material (fence, wellhead) and return them to the warehouse. Finally clean and tidy up the site;
- 4) Acquire Landholder's signoff.

4.2 Operations

The landholder was notified of the Rehabilitation Operations and a Landholder Agreement was reached. Operations work was commenced after toolbox Safety meetings, JSA's, risk assessments, gas calibration tests, Wellsite Permits to Work and excavation permits were actioned. The work was completed as per the requirements laid out above and Landholder signoff was obtained on 20 November 2012 (Refer to Landholder Release Form, Appendix 4).

The photos of the drill site after all operations are seen below.



Figure 4 Lydia 1 Casing Sealed 1.5m below Ground



Figure 5 Lydia 1 Well Sign



APPENDIX 1 WELL LOCATION SURVEY REPORT

Final Operations Report

on the

Petroleum Well Location Survey

for

Icon Energy Limited

September 2009



© Dynamic Satellite Surveys Pty Ltd 2009

This work is copyright. No part may be reproduced by any process without prior written permission from Dynamic Satellite Surveys Pty Ltd. Requests and inquiries concerning reproduction and rights should be addressed to:

The Director
Dynamic Satellite Surveys Pty Ltd
PO Box 713
Yeppoon QLD 4703
Telephone: 07 4939 2866
International: +61 7 4939 2866
Facsimile: 07 4939 2867
E-mail: yeppoon@dss.com.au

**Dynamic Satellite Surveys Pty Ltd has a Quality Management System,
externally certified to AS/NZS ISO 9001:2008 standards by
SAI Global Pty Ltd (Lic# QEC10046).**

This project was undertaken for Icon Energy Limited.

*The sole purpose of the job was to survey the Tingan 2 and Lydia 1-5 Well locations.
The use of the data for any other purpose is not authorised.*

*All data contained in this report and on the attached CD is deemed to be final and
overrides any previous data received from DSS, unless otherwise stated.*

Table of Contents

INTRODUCTION	1
INSTRUMENTATION AND PERSONNEL	2
2.1 Personnel and Logistics	2
2.2 Equipment	3
SURVEY REFERENCE SYSTEMS	4
3.1 Geodetic Datum	4
3.2 Map Projection	5
3.3 Height Datum	5
SURVEY CONTROL	7
MONUMENTATION	8
METHOD OF SURVEY	9
6.1 Survey Methods	9
6.2 GPS Processing	10
DATA PRESENTATION	11
SAFETY	12
CONCLUSIONS AND RECOMMENDATIONS	13
APPENDICES	14
Summarised Values	A - 1
Project Map	B - 1
Mining Plans	C - 1
Reference Sketch Plans	D - 1
Photographs	E - 1



1

INTRODUCTION

The following report covers the **Petroleum Well Location Survey**, performed by **Dynamic Satellite Surveys Pty Ltd (DSS)** to whilst contracted to **Icon Energy Limited**.

The survey area was located in two areas, one North of Goondiwindi (Lydia Wells) and one Northwest of Goondiwindi (Tingan 2 site), Queensland. (See **Appendix B - Project Map**).

The survey operations were completed in September 2009.



2

INSTRUMENTATION AND PERSONNEL

2.1 Personnel and Logistics

DSS personnel involved in the survey were as follows:

- | | |
|-----------------------|---|
| Joseph Mucheto | - National Diploma of Surveying |
| | - Survey, Processing |
| Denis Williams | - Bachelor of Applied Science (Surveying) |
| | - Bachelor of Information Technology |
| | - Processing and Final Report |

Personnel and equipment logistics were supported by the DSS Yeppoon office.

Survey operations were based from the Jolly Swagman Motel and were run concurrently with the 2D Seismic Survey.

2.2 Equipment

Equipment provided by DSS and used on this project:

	Description	Qty
Vehicles	DSS Toyota Landcruiser Trayback	1
Communications	Iridium satellite phone and car kit	1
	UHF radio	1
GPS receivers	NovAtel GPS receivers with VHF telemetry	3
Computers	Toshiba Terca	1
	Fujitsu XP tablet	1
	iPAQ PC's	2
Software	MapInfo Professional	Ver 8.5
	GrafNet	Ver 7.60
Printer	Canon iX4000	1
Miscellaneous	Digital Camera	1
	Sundry office and transport equipment	
	Field and Office Consumables	



3

SURVEY REFERENCE SYSTEMS

3.1 Geodetic Datum

This project was based on the Geocentric Datum of Australia 1994 (GDA94), which is based on the Geodetic Reference System 1980 (GRS80) model defined by the following parameters:

<i>Datum:</i>	GDA94(Geocentric Datum of Australia 1994)
<i>Spheroid:</i>	GRS80
<i>Reference Frame:</i>	ITRF92 (International Terrestrial Reference Frame)
<i>Semi-Major Axis Length:</i>	6 378 137.0
<i>Inverse Flattening:</i>	298.257222101
<i>The Unit of Measure:</i>	International Metre

3.2 Map Projection

Final rectangular coordinates were based on the Map Grid of Australia 1994 (MGA94). Parameters for this projection are as follows:

<i>Projection:</i>	Universal Transverse Mercator (MGA Zone 56)
<i>Latitude of Origin:</i>	0°
<i>Central Meridian (CM):</i>	153° E
<i>Scale Factor at CM:</i>	0.9996
<i>False Easting:</i>	500 000
<i>False Northing:</i>	10 000 000
<i>The Unit of Measure:</i>	International Metre

3.3 Height Datum

All elevations obtained relative to GDA94 have been reduced to the Australian Height Datum (AHD) using the AUSGeoid98 Geoid - Spheroid separation model to determine the separation (N) for the particular area.

GPS observations are made on the GDA94 datum. The height associated with this datum is an ellipsoidal height (h). The Australian Height Datum (AHD), the height datum associated with MGA94, is an orthometric height, which is measured as the height above mean sea level, or the geoid (H).

The function that defines the relationship between the ellipsoid and orthometric heights is:

$$H = h - N$$

Or

$$\text{AHD} = \text{GDA94} - (\text{Geoid / Ellipsoid Separation})$$

The value for the geoid/spheroid separation is interpolated from a national model called AUSGeoid98.

AUSGeoid98 is the third in a series of national geoid models produced for Australia by the Australian Surveying and Land Information Group (AUSLIG). The geoid-ellipsoid data is prepared for the Australian region from:

- EGM96 Global Geopotential Model;
- 1996 Australian Gravity DataBase, from the Australian Geological Survey Organisation (AGSO);
- AUSLIG / AGSO GEODATA nine-second digital elevation model;
- Satellite altimeter - derived free air gravity anomalies offshore;
- Theories, techniques and software developed by Associate Professor Will Featherstone, Curtin University of Technology¹.

AUSGeoid98 N values were interpolated using the GrafNet Version 7.60 software, distributed by Waypoint Consulting Inc.

¹ Johnston, G.M., Featherstone, W.E. (1998) AUSGEOID98: A New Gravimetric Model for Australia



4

SURVEY CONTROL

The datum for both surveys used existing state survey control stations as described below:

Station	Easting	Northing	AHD	Comments
PM8470	238104.100	6901439.000	269.666	HZ Ord / VT 4 th
PM8474	233819.442	6872052.072	215.472	HZ Ord / VT 4 th

DSS observed the well sites in a static control network and then surveyed other features at the sites using kinematic methods.



5

MONUMENTATION

Two (2) recovery marks were placed at the Tingan 2 well and four (4) recovery marks were placed for the five (5) Lydia wells. DSS confirmed with the Department of Employment, Economic Development and Innovation that this was acceptable to install four recovery marks at the Lydia site, as this is not exactly what is required in the Petroleum Act.

Each recovery mark consisted of a star picket driven to refusal, and was marked with an additional star picket and a stamped witness tag.





6

METHOD OF SURVEY

6.1 Survey Methods

The Global Positioning System (GPS) utilises US Department of Defence NAVSTAR satellites to provide real-time three-dimensional positioning. When phase data from the satellites is post-processed, a significant increase in the accuracy of results can be obtained. Accuracies of 1-2 parts per million (ppm) are achieved with dual-frequency units.

DSS use the GPS system in various modes of operation; static, kinematic and real-time differential techniques. On this project, the static GPS survey method was selected as the most appropriate means of completing the control survey in an efficient manner.

The method of static GPS involves setting one receiver over a point of known position and another receiver over a point to be coordinated. The observation period required for this method is dependent upon the level of accuracy desired and the length of the line being observed. Observation times for this project were typically around 30 minutes.

The kinematic method involves a base station logging data and a roving GPS surveying required features such as fences and gates. These data are post-processed to derive coordinates for each feature and allows a rapid survey.

6.2 *GPS Processing*

The Fujitsu Tablet and PDA data loggers were downloaded to the main processing computer at the conclusion of the day's observations. The NovAtel GPS data from the control networks was then processed using GRAFNET software developed by Waypoint Consulting of Canada.

All factors indicating quality of the obtained solutions were monitored during processing. Reliable static solutions were obtained using observed baselines.



7

DATA PRESENTATION

Summarised values for the wells are located in **Appendix A - Summarised Values**.

A project map is located in **Appendix B - Project Map**. Mining Plans, registered with the Department of Employment, Economic Development and Innovation, are located in **Appendix C - Mining Plans**.

Also contained on the final data CD are the MapInfo files and photographs taken whilst on the project.

All coordinates are listed in MGA Zone 56, GDA94 and AHD71.



8

SAFETY

DSS personnel are aware of safety conditions concerning all exploration surveys. The DSS “**Quality Policy Statement**” and “**Health, Safety and Environment Policy**” were adhered to at all times.

Each vehicle was fitted with a Satellite phone kit, UHF radio, shovel, first-aid kit, dry powder and water fire extinguishers, vehicle recovery equipment, rotating beacon and weekly vehicle maintenance check lists.

The survey was accident and incident free.



9

CONCLUSIONS AND RECOMMENDATIONS

The well survey was completed in minimal time as DSS had previously established good control in the area as part of the seismic survey for Icon Energy.

Access to the well sites was easy and there were minimal additional features to be surveyed at each location.

DSS wishes to apologise for the delay in providing the final information and report to Icon Energy, but is sure that Icon Energy understands the delay in having the plans approved by the government department.

Submitted by,

Dynamic Satellite Surveys Pty Ltd

Denis Williams

Survey Support Manager



10

APPENDICES

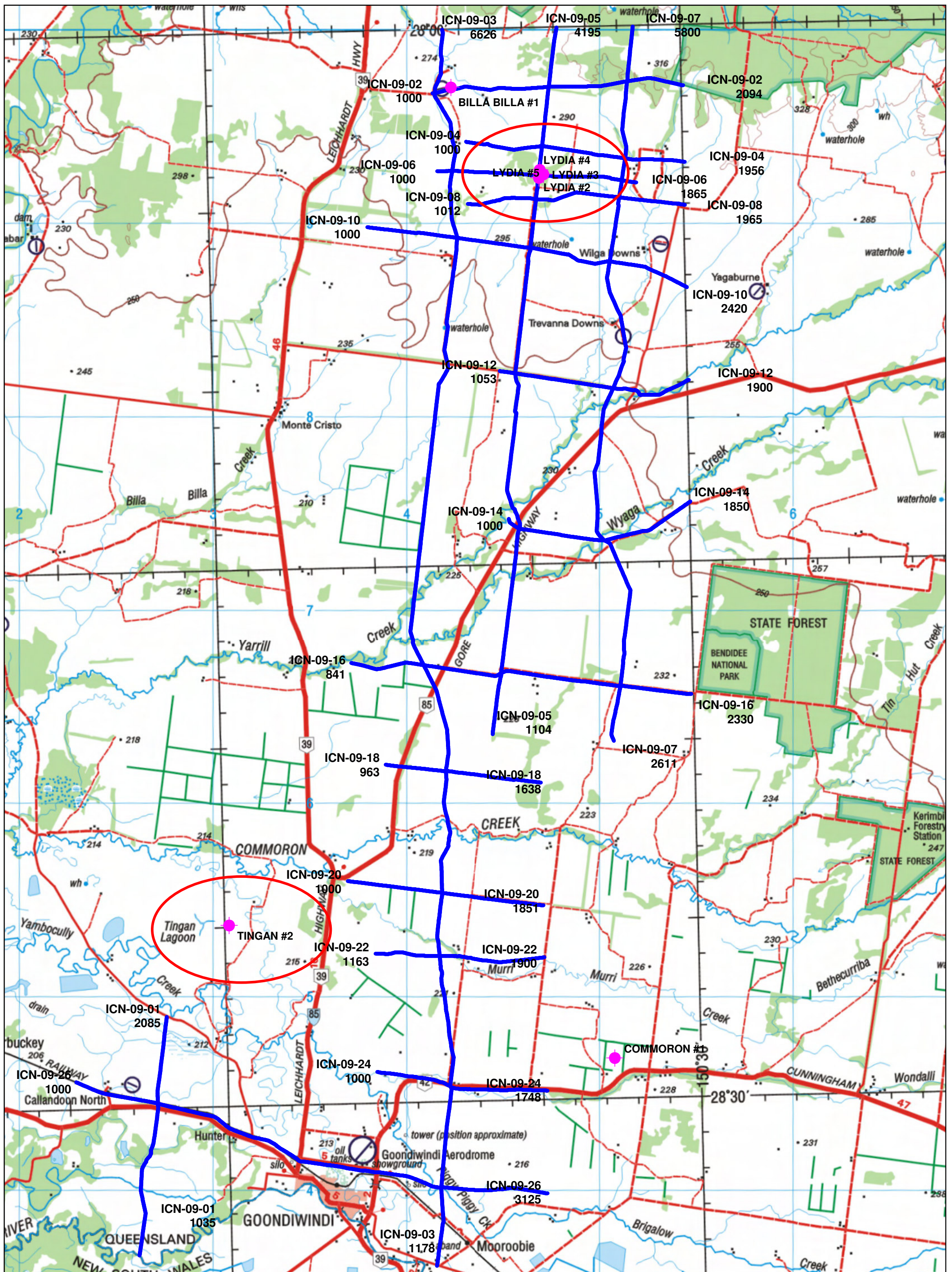
Summarised Values

Coordinates are MGA94 - Zone 56
Central Meridian is 153°
Heights are AHD71 - Using AusGeoid98 N Value Model

Heights are at natural ground level for each well, top of dumpy for recovery marks.

Station	MGA Easting	MGA Northing	AHD71
LYDIA #1	246819.29	6892511.06	291.68
LYDIA #2	246784.11	6892309.22	291.81
LYDIA #3	247020.62	6892483.71	293.67
LYDIA #4	246829.79	6892715.71	288.76
LYDIA #5	246820.80	6892522.43	291.41
LYDIA RM1	246766.37	6892417.35	292.10
LYDIA RM2	246789.89	6892620.01	289.72
LYDIA RM3	246906.47	6892553.27	292.05
LYDIA RM4	246845.46	6892452.40	292.65
TINGAN #2	230769.05	6853652.31	207.62
TINGAN #2 BM1	230532.48	6853846.96	207.57
TINGAN #2 BM2	230843.05	6853658.15	207.80

Project Map



The purpose of this map is to represent the surveyed digital data in a pictorial manner only. The accuracy of the underlying topographic image in no way relates to the accuracy of the surveyed digital data. Features on the topographic map have not necessarily been surveyed by DSS. Any use of this map for reasons other than the purpose for which it was created is not authorised.

Dynamic Satellite Surveys : Phone 1800 060 407

Icon Energy Limited

Petroleum Well Location Survey
(with Seismic Survey)

Scale	1:175,000 (A3)
Drawn	DW
File	09067 Map
Job#	09067
Rev	0.0

Mining Plans

GEOG CO-ORDS GDA 94

STATION	SOUTH	EAST
Lydia #1	28°04'07.223	150°25'25.860
Lydia #2	28°04'13.750	150°25'24.416
Lydia #3	28°04'08.249	150°25'33.208
Lydia #4	28°04'00.584	150°25'26.404
Lydia #5	28°04'06.852	150°25'25.925
Lydia RM1	28°04'10.229	150°25'23.851
Lydia RM2	28°04'03.662	150°25'24.866
Lydia RM3	28°04'05.909	150°25'29.082
Lydia RM4	28°04'09.142	150°25'26.771
PSM 8470	27°59'11.3015	150°20'14.0346
PSM 8474	28°15'02.1764	150°17'13.3500

MGA 94 CO-ORDS (ZONE 56) and AHD71

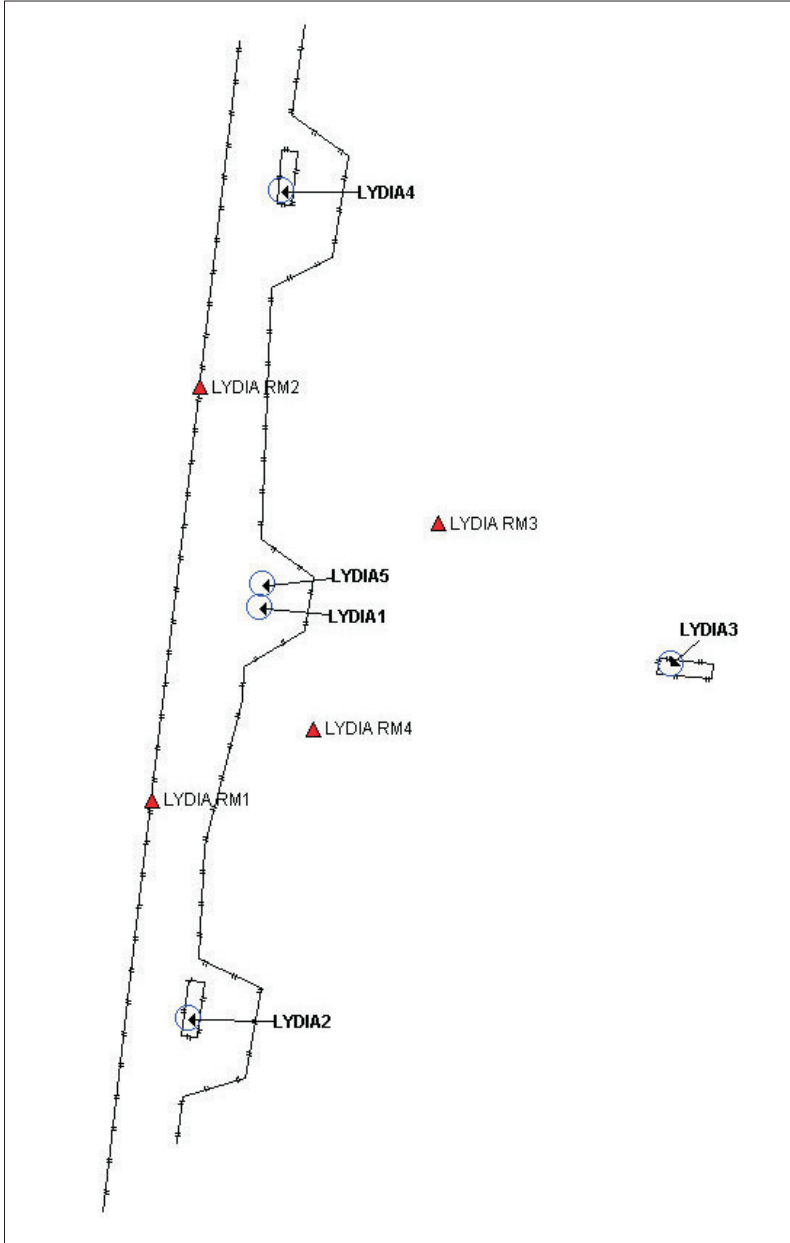
STATION	EASTING	NORTHING	AHD
Lydia #1	246 819.29	6 892 511.06	291.68
Lydia #2	246 784.11	6 892 309.22	291.81
Lydia #3	247 020.62	6 892 483.71	293.67
Lydia #4	246 829.79	6 892 715.71	288.76
Lydia #5	246 820.80	6 892 522.43	291.41
Lydia RM1	246 766.37	6 892 417.35	292.10
Lydia RM2	246 789.89	6 892 620.00	289.72
Lydia RM3	246 906.47	6 892 553.27	292.05
Lydia RM4	246 845.46	6 892 452.40	292.65
PSM 8470	238 104.10	6 901 439.00	269.666
PSM 8474	233 819.46	6 872 052.09	215.385

REFERENCE MARKS

STATION	TO	BEARING	DIST	REM
Lydia #1	Star Pkt	64°09'53"	96.82	RM 3
Lydia #1	Star Pkt	155°57'11"	64.21	RM 4
Lydia #2	Star Pkt	350°40'50"	109.53	RM 1
Lydia #2	Star Pkt	23°11'41"	155.71	RM 4
Lydia #3	Star Pkt	301°21'30"	133.62	RM 3
Lydia #3	Star Pkt	259°51'52"	177.86	RM 4
Lydia #4	Star Pkt	202°38'01"	103.65	RM 2
Lydia #4	Star Pkt	154°43'53"	179.55	RM 3
Lydia #5	Star Pkt	70°11'57"	91.01	RM 3
Lydia #5	Star Pkt	160°35'46"	74.22	RM 4

MP

MP



CO-ORDS BY GPS FROM PSM 8470
PSM 8474

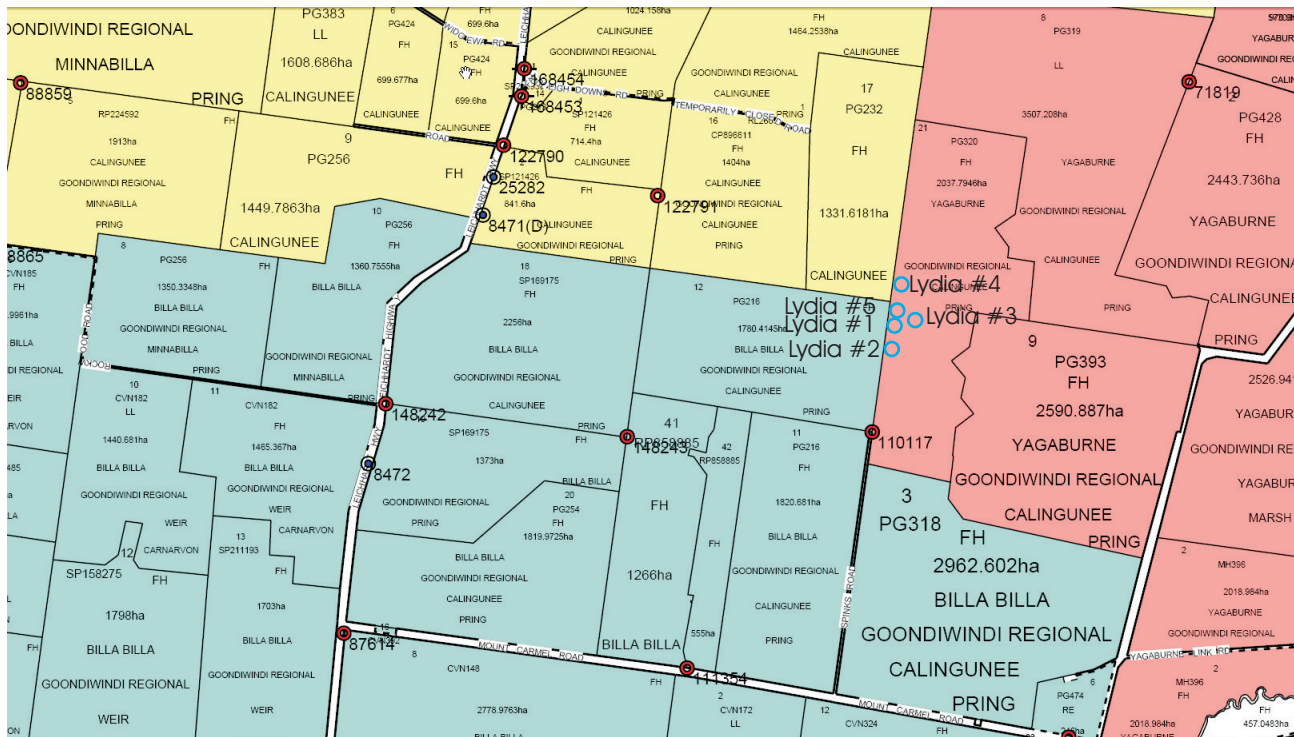
BEARINGS ARE GRID
DISTANCES ARE SPHEROIDAL

Grid Convergence -1°12'46"
Line Scale Factor 1.000391

SPEEDO TRAVERSE

- 0.00km Goondiwindi Post Office travel west along Mashal street.
- 0.60km Turn right on to Albert street
- 1.00km Turn left on to Russell Street
- 2.90km Turn right on to West ST/ Leichhardt highway/ Gore Highway
- 46.90km Turn left on to Terrevana downs / Monnie road
- 48.10km Turn left on to Billa Billa / Monnie road
- 54.40km Turn right on to Spinks road.
- 54.60km Grid
- 60.77 km RHS Grid
- 63.10km Gate
- 63.90km Gate
- 64.30km Well Lydia2
- 64.50km Turn right, 64.55km Gate, 64.70m Well Lydia 3
- 64.50km Well Lydia 1 and 5
- 64.70km Well Lydia 4

Lydia Wells Location



BLIN Map provided by: DERM (Sep 21, 2009)

Plan must be drawn within lines

Plan must be drawn within lines

MP

MP

I, **Timothy James McCall**
hereby certify that I have / the company has surveyed the location of the petroleum well as shown in this plan, that the survey was performed in accordance with the *Petroleum and Gas (Production and Safety) Act 2004* and the associated Regulations and Standards and achieves the accuracies of the Standards and the survey was completed on 23rd October 2009

Signature of Surveyor _____

LOCALITY

Approx. see above
LAT. S 28° 04' 10"
LONG. E 150° 25' 25"

FIELD NOTES LODGED

DRAWN BY

D.W.

MINING RESOURCES

PLAN OF **LYDIA WELLS #1 - #5**

PARISH **CALINGUNEE**

COUNTY **Pring**

MINING DISTRICT **BRISBANE**

MERIDIAN

MGA94 by GPS

SCALE

NTS

CATALOGUED

EXAMINED

REGISTERED

_____/_____/_____
Chief Surveyor

GEOG CO-ORDS GDA 94

MGA 94 CO-ORDS (ZONE 56) and AHD71

REFERENCE MARKS

STATION	SOUTH	EAST
Tingan #2	28°24'57".185	150°15'06".163
Tingan #2 BM1	28°24'50".692	150°14'57".641
Tingan #2 BM2	28°24'57".051	150°15'08".885
PSM 8470	27°59'11".3015	150°20'14".0346
PSM 8474	28°15'02".1764	150°17'13".3500

STATION	EASTING	NORTHING	AHD
Tingan #2	230 769.05	6 853 652.31	207.62
Tingan #2 BM1	230 532.48	6 853 846.96	207.57
Tingan #2 BM2	230 843.05	6 853 658.15	207.80
PSM 8470	238 104.10	6 901 439.00	269.666
PSM 8474	233 819.46	6 872 052.09	215.385

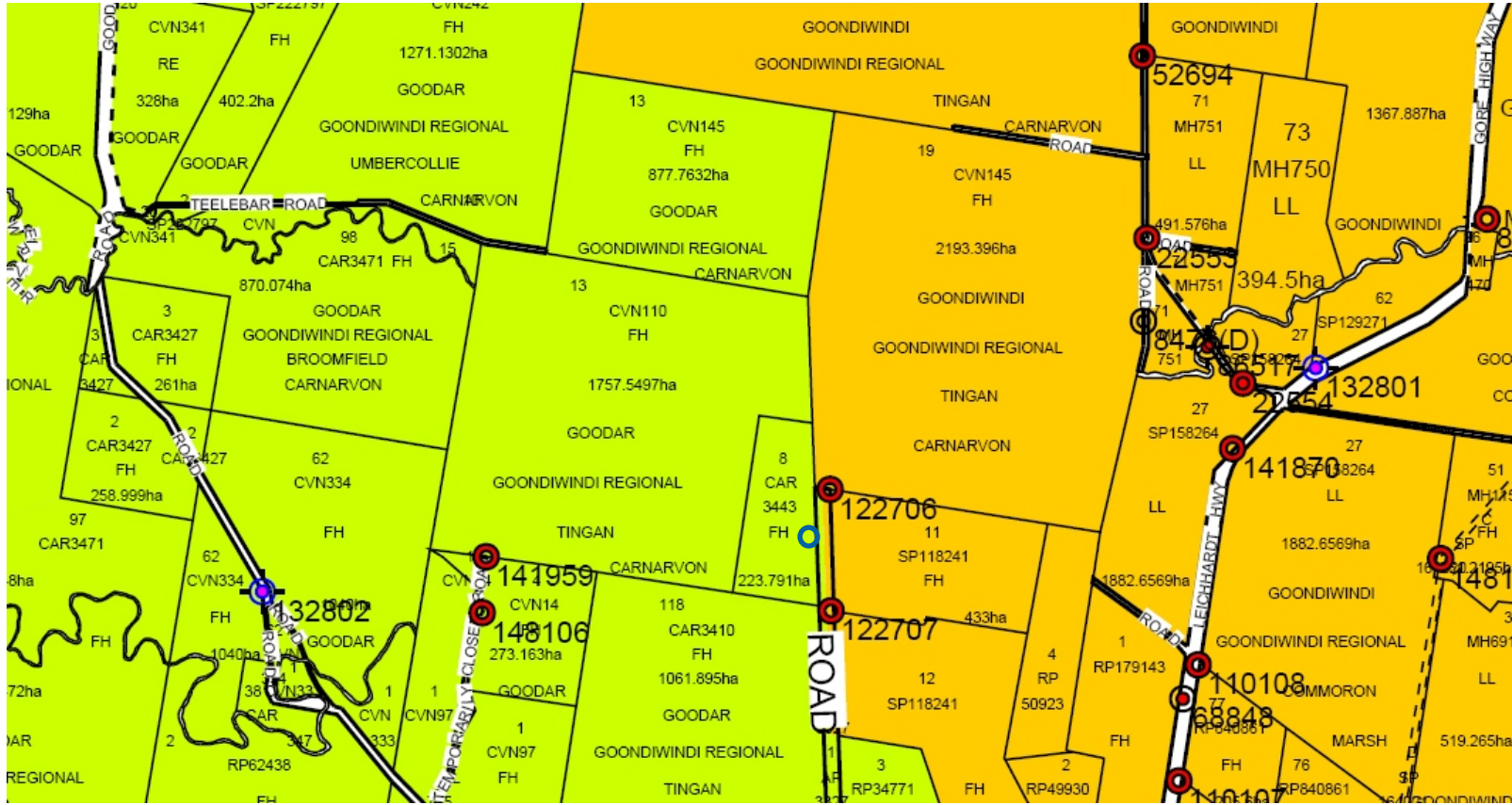
STATION	TO	BEARING	DIST	REMARKS
Tingan #2	Star Pkt	320°33'09"	306.20*	BM 1
Tingan #2	Star Pkt	85°29'12"	74.19	BM 2

* Mark placed on fence line out of crop paddock, thus large distance.

CO-ORDS BY GPS FROM PSM 8470
PSM 8474

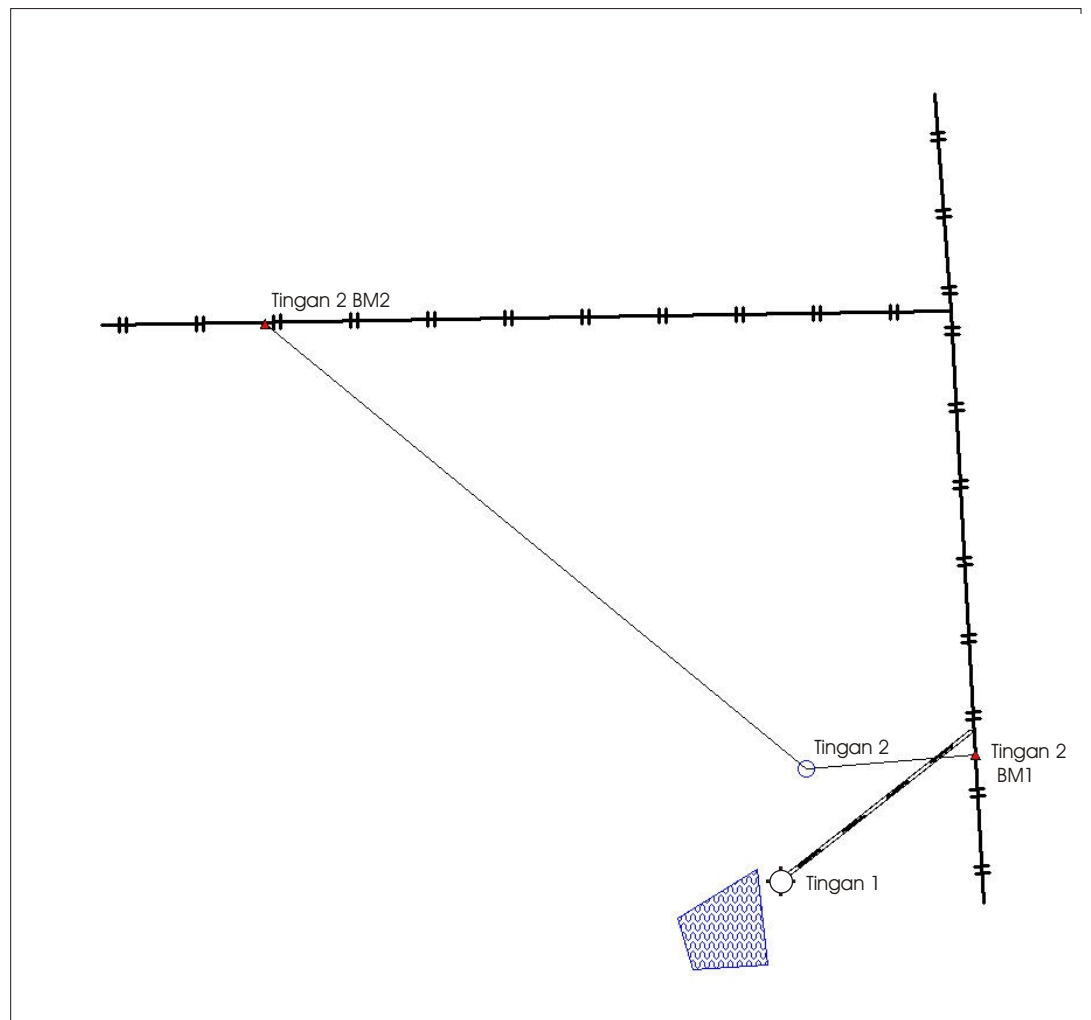
BEARINGS ARE GRID
DISTANCES ARE SPHEROIDAL

Grid Convergence -1°18'31"
Line Scale Factor 1.000495



BLIN Map supplied by: DERM (Sep 21, 2009)

○ Tingan #2 Well Site



SPEEDO TRAVERSE

- 0.00km Goondiwindi Post Office travel west along Mashal street.
- 0.60km Turn right on to Albert street
- 1.00km Turn left on to Russell Street / baron Highway
- 5.80km Turn right on to Goodar Rd
- 10.90km Turn right on to Umbercollie farm
- 11.00km Grid
- 11.50km Umbercollie Homestead
- 12.20km Grid
- 12.50km Turn left at shearing shed / Gate
- 12.80km Gate
- 14.20km Gate
- 14.60km Gate
- 15.80km Gate
- 17.50km Gate / Turn left, follow fence to the west on the edge of a field.
- 18.10km gate/ turn left, follow south east track towards a small dam.
- 18.30km Well Tingan #2

I, **Timothy James McCall**
hereby certify that I have / the company has surveyed the location of the petroleum well as shown in this plan, that the survey was performed in accordance with the *Petroleum and Gas (Production and Safety) Act 2004* and the associated Regulations and Standards and achieves the accuracies of the Standards and the survey was completed on 23rd October 2009

Signature of Surveyor

LOCALITY		MINING RESOURCES	
Approx. <u>see above</u>		PLAN OF <u>TINGAN #2</u>	
LAT. S <u>28° 24' 57"</u>	LONG. E <u>150° 15' 06"</u>	PARISH <u>TINGAN</u>	COUNTY <u>Carnarvon</u>
FIELD NOTES LODGED		MINING DISTRICT <u>BRISBANE</u>	
DRAWN BY <u>D.W.</u>	MERIDIAN <u>MGA94 by GPS</u>	SCALE <u>NTS</u>	

CATALOGUED	EXAMINED	REGISTERED	Chief Surveyor
------------	----------	------------	----------------

MP

Plan must be drawn within lines

MP

MP

Plan must be drawn within lines

MP

Reference Sketch Plans

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

VACANT

Well name **LYDIA #1** (Coal Bed Methane) File No/.....
 Authority to Prospect (or other title) ATP 626 P
 Parish of **CALINGUNEE** County of **Pring** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

Lat. -28° 04' 07".223 MGA Coords, Zone 56
246 819.29 E
 Long. 150° 25' 25".860 6 892 511.06 N
 Grid Convergence -1° 12' 46" Coords obtained by GPS

MARGIN

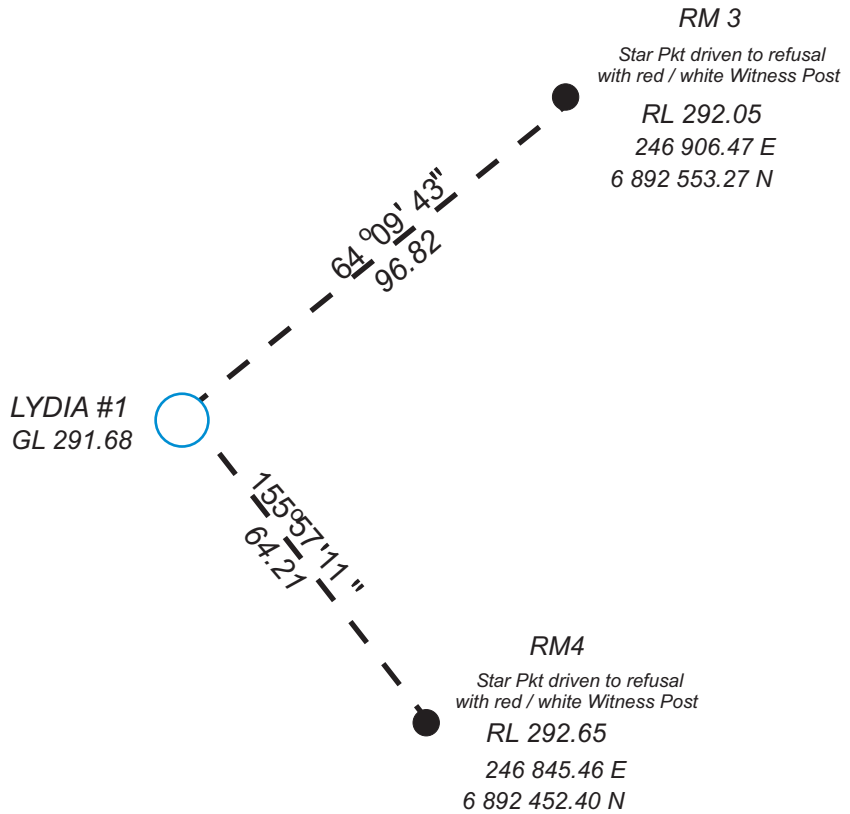
CO-ORDS BY GPS FROM

PSM 8470
PSM 8474

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000391)

THIS



LEAVE

PLEASE

Installed by J. MUCHETO Date 08/09/2009
 Levelled by J. MUCHETO Date 08/09/2009
 Levelled from PSM 8470 (GPS)
 Adopted R.L. of Datum 269.67 AHD Correction for AHD Datum

Datum for bearings MGA

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004 " and that the information shown hereon is correct.

Date 20

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

VACANT

Well name **LYDIA #2** (Coal Bed Methane) File No /

Authority to Prospect (or other title) **ATP 626 P**

Parish of **CALINGUNEE** County of **Pring** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

Lat. $-28^{\circ}04'13''.750$ MGA Coords, Zone **56**
 $246\ 784.11$ E

Long. $150^{\circ}25'24''.416$ $6\ 892\ 309.22$ N

Grid Convergence $-1^{\circ}12'46''$ Coords obtained by **GPS**

MARGIN

CO-ORDS BY GPS FROM

PSM 8470
PSM 8474

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000391)

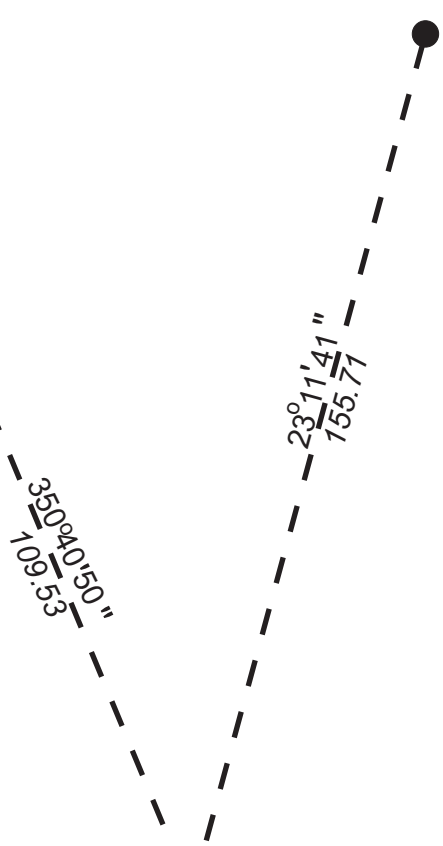
THIS

LEAVE

RM 1
Star Pkt driven to refusal
with red / white Witness Post
RL 292.10
246 766.37 E
6 892 417.35 N

RM4
Star Pkt driven to refusal
with red / white Witness Post
RL 292.65
246 845.46 E
6 892 452.40 N

LYDIA #2
GL 291.81



PLEASE

Installed by **J. MUCHETO** Date **08/09/2009**

Levelled by **J. MUCHETO** Date **08/09/2009**

Levelled from **PSM 8470 (GPS)**

Adopted R.L. of Datum **269.67 AHD** Correction for AHD Datum

Datum for bearings **MGA**

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004" and that the information shown hereon is correct.

Date 20

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

VACANT

Well name **LYDIA #3** (Coal Bed Methane) File No /
 Authority to Prospect (or other title) **ATP 626 P**
 Parish of **CALINGUNEE** County of **Pring** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

Lat. $-28^{\circ}04'08.249''$ MGA Coords, Zone **56**
 $247\ 020.62$ E
 Long. $150^{\circ}25'33.208''$ $6\ 892\ 483.71$ N
 Grid Convergence $-1^{\circ}12'46''$ Coords obtained by **GPS**

MARGIN

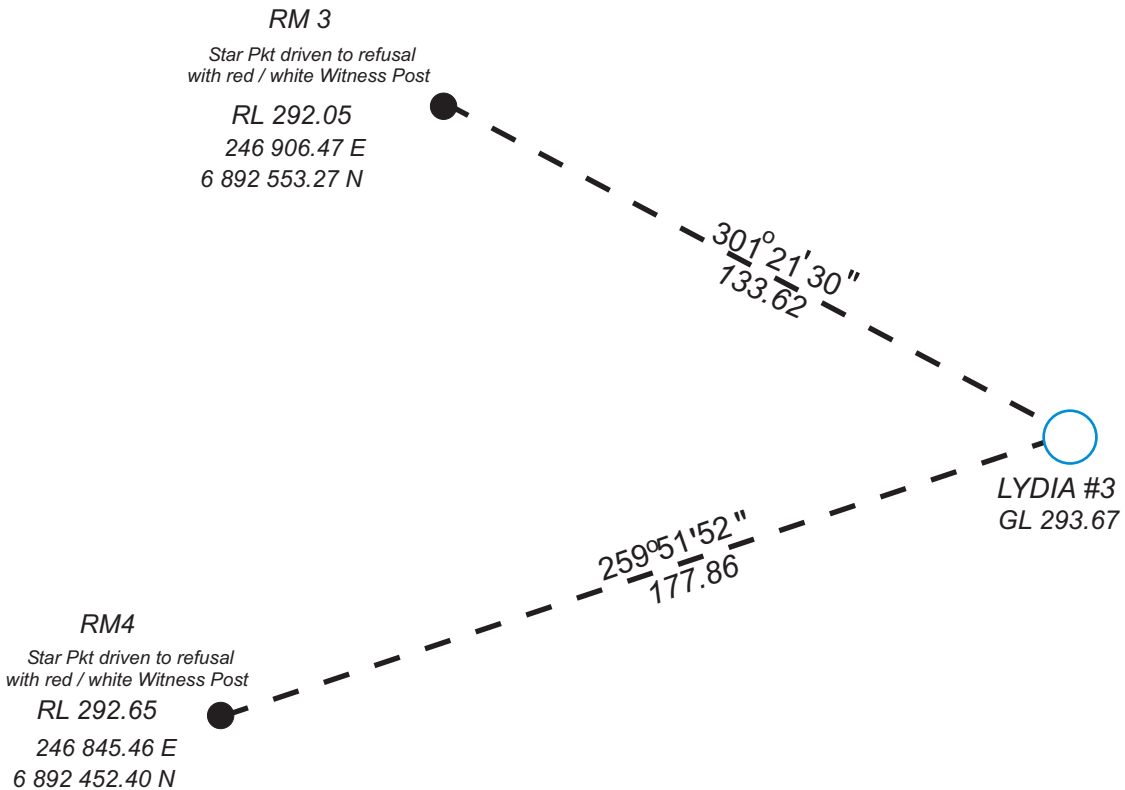
CO-ORDS BY GPS FROM

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000391)

PSM 8470
PSM 8474

THIS



LEAVE

PLEASE

Installed by **J. MUCHETO** Date **08/09/2009**
 Levelled by **J. MUCHETO** Date **08/09/2009**
 Levelled from **PSM 8470 (GPS)**
 Adopted R.L. of Datum **269.67 AHD** Correction for AHD Datum

Datum for bearings **MGA**

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004" and that the information shown hereon is correct.

Date 20

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

VACANT

Well name **LYDIA #4** (Coal Bed Methane) File No /
 Authority to Prospect (or other title) ATP 626 P
 Parish of **CALINGUNEE** County of **Pring** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

Lat. -28°04'00.584 MGA Coords, Zone 56
246 829.79 E
 Long. 150°25'26.404 6 892 715.71 N
 Grid Convergence -1°12'46" Coords obtained by GPS

MARGIN

CO-ORDS BY GPS FROM

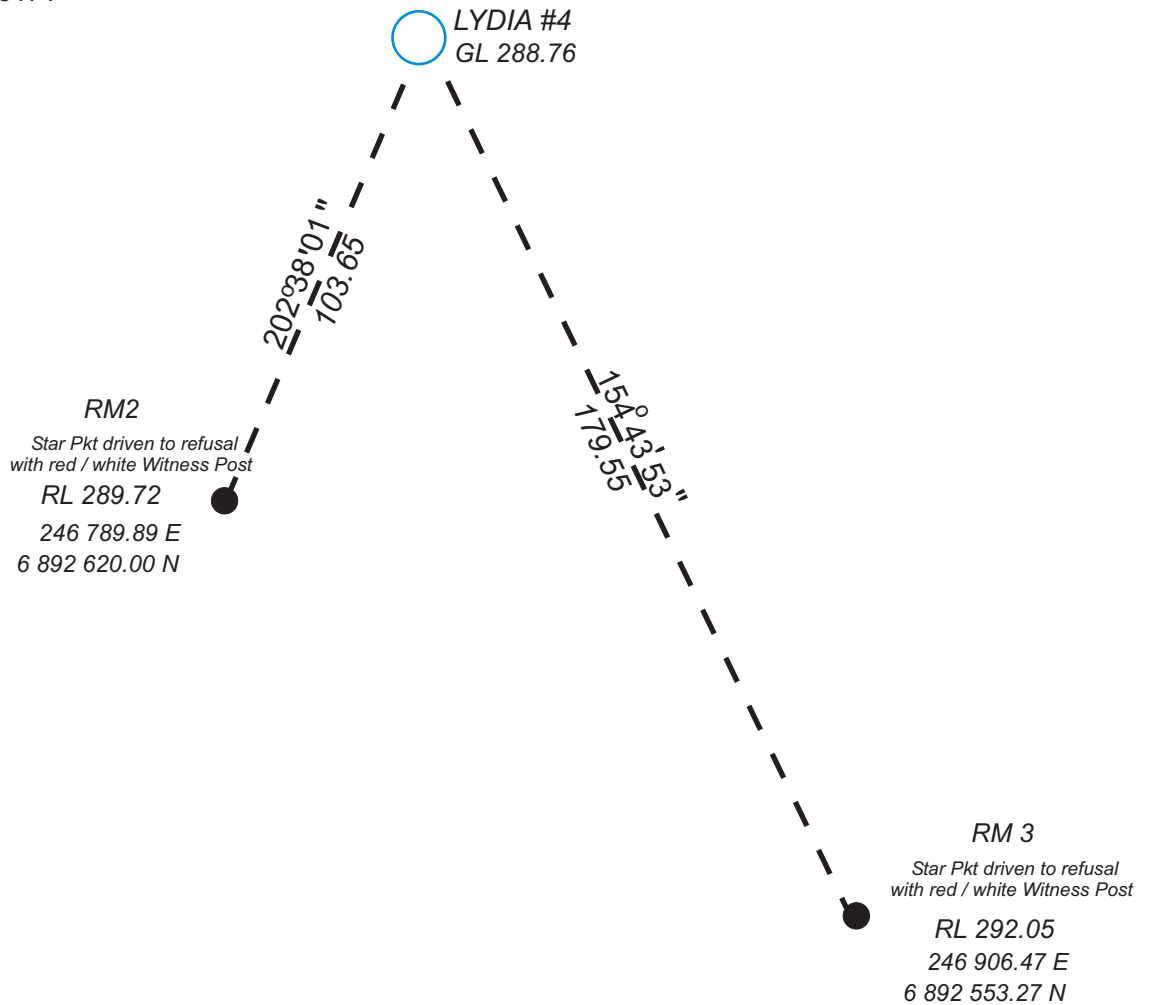
PSM 8470
PSM 8474

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000391)

THIS

LEAVE



PLEASE

Installed by J. MUCHETO Date 08/09/2009
 Levelled by J. MUCHETO Date 08/09/2009
 Levelled from PSM 8470 (GPS)
 Adopted R.L. of Datum 269.67 AHD Correction for AHD Datum

Datum for bearings MGA

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004" and that the information shown hereon is correct.

Date 20

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

VACANT

Well name **LYDIA #5** (Coal Bed Methane) File No /
 Authority to Prospect (or other title) **ATP 626 P**
 Parish of **CALINGUNEE** County of **Pring** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

Lat. $-28^{\circ}04'06.852''$ MGA Coords, Zone **56**
 $246\ 820.80$ E
 Long. $150^{\circ}25'25.925''$ $6\ 892\ 522.43$ N
 Grid Convergence $-1^{\circ}12'46''$ Coords obtained by **GPS**

MARGIN

CO-ORDS BY GPS FROM

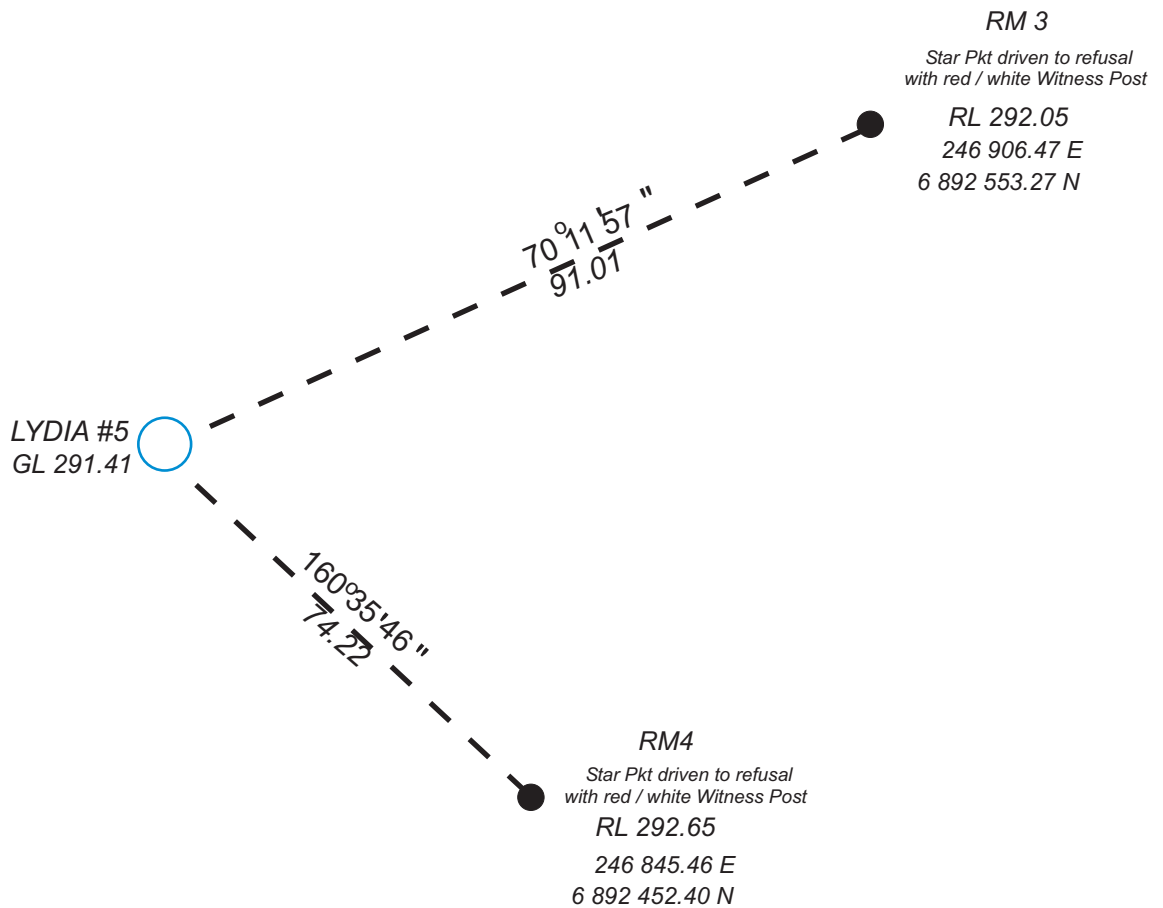
PSM 8470
PSM 8474

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000391)

THIS

LEAVE



PLEASE

Installed by **J. MUCHETO** Date **08/09/2009**
 Levelled by **J. MUCHETO** Date **08/09/2009**
 Levelled from **PSM 8470 (GPS)**
 Adopted R.L. of Datum **269.67 AHD** Correction for AHD Datum

Datum for bearings **MGA**

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004" and that the information shown hereon is correct.

Date 20

REFERENCE MARKS SKETCH PLAN

Petroleum and Gas (Production and Safety) Act 2004

Cat. No

Well name **TINGAN #2** (*Coal Bed Methane*) File No /

Authority to Prospect (or other title) **ATP 626 P**

Parish of **TINGAN** County of **Carnarvon** Map

Note - Measurements and bearings are to be shown from the well to the reference marks. Measurements need not be to scale. Reduced levels to be shown on sketch. Type of mark to be shown e.g. Iron Pin in concrete; B.M. on blazed ironbark.

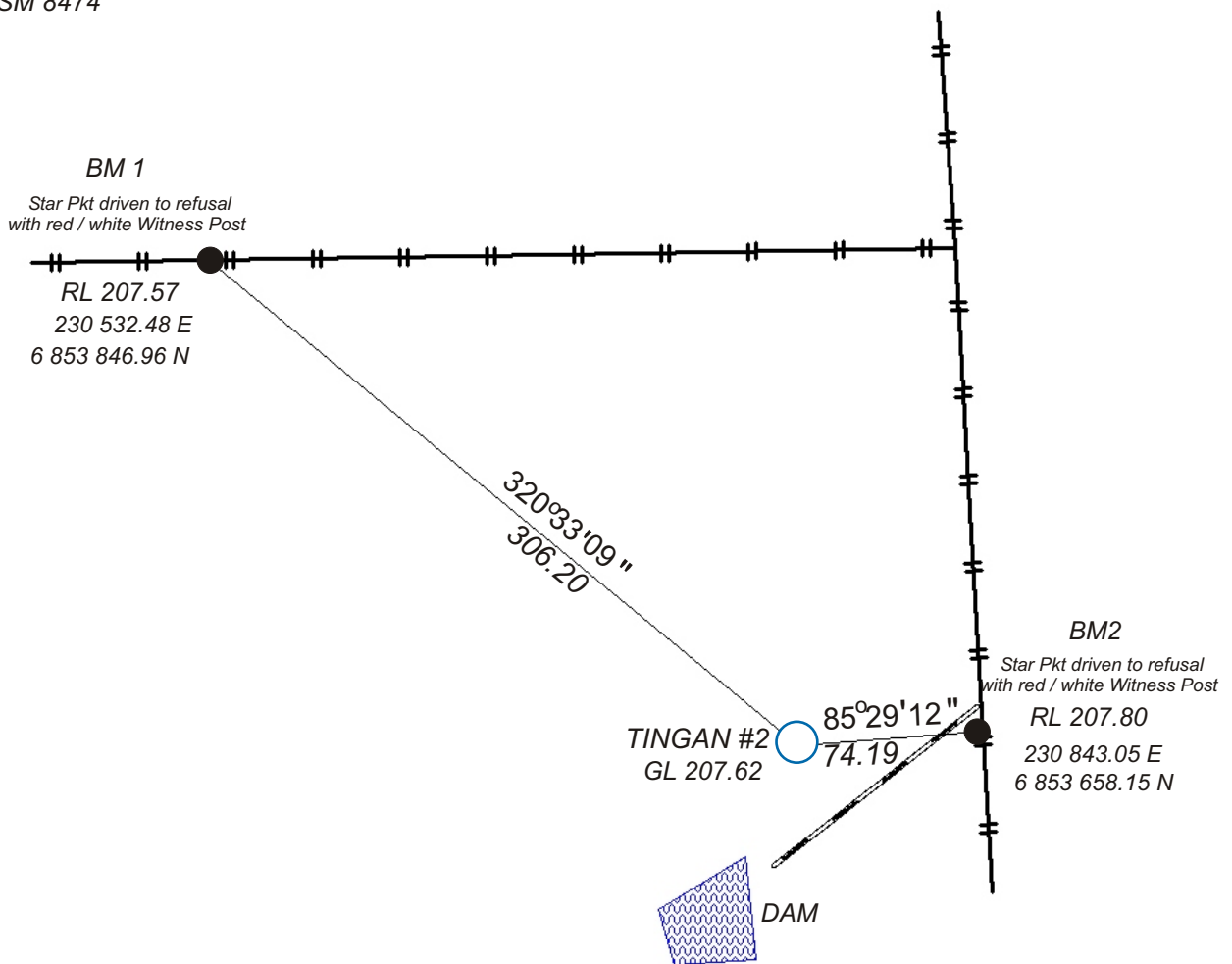
Lat. $-28^{\circ}24'57''.185$ MGA Coords, Zone **56**
 $230\ 769.05$ E
 Long. $150^{\circ}15'06''.163$ $6\ 853\ 652.31$ N
 Grid Convergence $-1^{\circ}18'31''$ Coords obtained by **GPS**

CO-ORDS BY GPS FROM

DISTANCES ARE SPHEROIDAL

(Line Scale Factor 1.000495)

PSM 8470
PSM 8474



Installed by **J. MUCHETO** Date **08/09/2009**

Levelled by **J. MUCHETO** Date **08/09/2009**

Levelled from **PSM 8470 (GPS)**

Adopted R.L. of Datum **269.67 AHD** Correction for AHD Datum

Datum for bearings **MGA**

I certify that the reference marks shown in this sketch have been placed on the ground in accordance with regulations under the "Petroleum and Gas (Production and Safety) Act 2004" and that the information shown hereon is correct.

Date 20

VACANT

MARGIN

THIS

LEAVE

PLEASE

Photographs



Lydia #1 Well Site



Lydia #5 Well Site



Tingan #2 Well Site



APPENDIX 2 ICON SITE REHABILITATION GUIDELINES



Site rehabilitation guidelines – ATP 626P

A practical summary & reporting mechanism for field use

(last updated 2 August 2012)

This document's purpose:

- Obligations:** To identify Icon's specific environmental obligations for the rehabilitation of its operations sites; and
- Reporting:** To document and record the completion of these obligations, so as to demonstrate environmental compliance upon any audit by the appropriate authorities, such as DERM.

Please ensure that this document is fully completed by the end of any particular site rehab works AND properly filed as instructed. Serious penalties can apply for failures to complete such obligations (up to \$30,000 per offence). Please ask your supervisor if you have any questions.

- Identity of well/site and location:

"LYDIA 1" - "ARROW FIELD" 28° 4' 7.22"S, 150° 25' 25.84"E

- State briefly the nature of the rehabilitation exercise:

(eg "P&A well and rehab drill site")

WELL P&A - CASING CAPPED + CUT OFF > 1500mm BELOW
 NATURAL GROUND LEVEL - SITE REHABILITATED AS PER GUIDELINES.


- Period during which rehab works occurred:

From (date): 07-09-2012 To (date): 15-11-2012

- Your name and position (as person conducting/arranging rehab works):

KEN PARK - FIELD SUPERVISOR - OCR

- I confirm that this is a true and accurate record of the rehabilitation works described:



 Signature

20-11-2012

 Date

Site rehabilitation guidelines – ATP 626P

Part A – Plugging wells/bores - General

1. **Cement plug:** Well/bore to be plugged with cement
2. **Depth:** Casing to be sealed – Depth that will not adversely interfere with “normal activities” of the owner of the land. Note that the Code of Practice for Constructing and Abandoning CSG Wells in Qld, Nov, 2011 Version 1.0, specified a minimum of 1.5 m below GL.
3. **Info Plate:** Cap well/bore with metal info plate
4. **Cement type:** Standard of cement to be used
5. **Additional Strings:** Plugging if more than one casing string
6. **Aquifer seals:** Seal against aquifers and porous formations
7. **Good Practice:** “Good industry practice” to apply to abandonment

Part B – Plugging – Leaving down-hole content in the hole

1. **Fluids:** Must leave fluid in well/bore when plugging:
2. **Packers:** Requirements if leaving a packer down a hole
3. **No Steel Casing:** Leave no steel casing in well/bore:
4. **If Steel Casing:** Requirements if steel casing (or drill string) left in coal seam

Part C – Site Rehabilitation

1. **Access:** Right of access to land to rehabilitate
2. **Rehab Timing:** When to rehabilitate – 6 months max.
3. **Contaminations:** Remediation of contaminated land
4. **Spills:** Clean up spills (if any)
5. **Reshaping land:** Reshape significantly disturbed land
6. **Drainage:** Surface drainage line re-establishment
7. **Soil:** Top soil reinstatement
8. **Re-vegetation:** Promote re-vegetation
9. **Infrastructure:** Infrastructure removal (prior to ATP permit surrender)
10. **Signif. Disturbances:** If no defined state of rehab – to the state prior to disturbance

Part D –Additional requirement for horizontal wells

1. **Liners:** Requirement for liner
2. **Risk assessment:** Fire resistant anti-static liner required?

Part E – Landholder release form

For execution by each landholder upon completion of rehab works on each site.

Part A – Plugging wells/bores - General

1. Well/bore to be plugged with cement:

- Wells/bores must have “a surface plug of cement in the casing”

(source: P&G Regs Sched 3, Reg 7, subsection (1))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

2. Casing to be sealed - Depth:

- The casing must be sealed below ground level.
- The stub of the casing must be buried at a depth that:
 - allows for “efficient later re-entry” to well/bore;
 - will not adversely interfere with “normal activities of the owner” of the land (note this may change from owner to owner).
 - Note that the Code of Practice for Constructing and Abandoning CSG Wells in Qld, Nov, 2011 Version 1.0, specified a minimum of 1.5 m below GL. All wells drilled after November 2011 should comply with this requirement.

(source: P&G Regs Sched 3, Reg 4)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part A – Plugging wells/bores – General (continued)

3. Cap well/bore with metal info plate:

- Must cap the well/bore with an inscribed metal plate.
- The info must include:
 - Identifying name of well/bore.
 - Total depth of well/bore in metres.
 - Abandonment date.

(source: P&G Regs Sched 3, Reg 3)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

4. Standard of cement to be used:

- “Cement used as a plug in a prescribed well or bore must be of an industry accepted grade, having regard to the salinity of the fluids in the surrounding strata.”
- The operator of the well or bore must test any cement that is used as a plug in the well or bore and ensure that it complies with the requirements under this regulation.

(source: P&G Regs Sched 3, Reg 7, subsections (1)&(5))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part A – Plugging wells/bores – General (continued)

5. Plugging if more than one casing string:

- If well/bore has more than 1 casing string,
- and any inner casing string does not reach the surface,
- and the well/bore intersects with “an aquifer or porous formation” - eg a coal seam (which therefore would require that the bore/well must be isolated, so there is no interconnection of gas or water between the aquifers or porous formations (per item 6 below)),
- then the inner casing string must be plugged with cement at the top of the string.

(source: P&G Regs Sched 3, Reg 7, subsection (2))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

6. Seal against aquifers and porous formations:

- An aquifer or porous formation (eg a coal seam) that is intersected by a well/bore,
- must be isolated so there is no interconnection of gas or water between the aquifers or porous formations.

(source: P&G Regs Sched 3, Reg 5)

- A plug in (or adjacent to) a coal seam in a well/bore must,
- “if reasonably practicable”, be “adequately secured”.

(source: P&G Regs Sched 3, Reg 7, subsection (5))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part A – Plugging wells/bores – General (continued)

7. “Good industry practice” to apply to abandonment:

- Use as a general guideline to P&A wells.
- Must still be consistent with the Regs.
- Icon’s Operations management to advise.

(source: P&G Regs Schedule 3, Reg 2)

Obligation satisfied? (please tick one) YES NO N/A **Date:** 12-09-2012

Comments (if any): _____

Part B – Plugging – Leaving down-hole content in the hole

1. Must leave fluid in well/bore when plugging:

- A well/bore must be left full of fluid .
- The fluid must be of sufficient density to—
 - (a) help maintain the structural integrity of the well/bore; and
 - (b) prevent gas influx.

(source: P&G Regs Sched 3, Reg 9)

- If steel casing remains in the well or bore, then operator must ensure that the fluid left in the well/bore—
 - (a) is anti corrosive; and
 - (b) has corrosion inhibitor added to it if the fluid is or may become corrosive.

(source: P&G Regs Sched 3, Reg 10, subsection (3)(c))

Obligation satisfied? (please tick one) YES NO N/A **Date:** 12-09-2012

Comments (if any): _____

Part B – Plugging – Leaving down-hole content in the hole (continued)

2. If leaving a packer down a hole:

- If a packer is not to be removed from the well/bore in (or adjacent to) a coal seam, that packer must, if reasonably practicable—
 - (a) be made of a material that is “intrinsically safe”; and
 - (b) be “adequately secured”.

(source: P&G Regs Sched 3, Reg 8)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

3. Leave no steel casing in well/bore:

- Steel casing must be removed from any section of a well/bore that is within or “immediately adjacent to” a coal seam.
- Exception - need not comply “if it is not technically or commercially feasible to remove the casing” (BUT! - also see item 0 below).

“Example— production casing that has been cemented in place and can not feasibly be removed”

(source: P&G Regs Sched 3, Reg 6)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part B – Plugging – Leaving down-hole content in the hole (continued)

4. Requirements if steel casing (or drill string) is to be left in coal seam:

If steel casing is to be left in a well/bore within a coal seam:

Completed?

- **Re-access:** The well/bore must be abandoned “in a way that assists future entry of the well or bore for the purpose of milling or removing steel from the coal seam”.

Y N N/A

Date: _____

- **Remove equipment:** Sucker rods, pump and tubing and any other debris in the well or bore that can “practicably” be removed must be removed.

Y N N/A

Date: _____

- **Aquifer seals:** Perforated casing is cemented to ensure all aquifers and porous formations, (eg coal seams) are isolated (as required under item 6).

Y N N/A

Date: _____

- **Fluid type:** If casing remains in the well/bore, the fluid left in the well/bore (as required under item 0 above)—
 - (i) is anti corrosive; and
 - (ii) has corrosion inhibitor added to it if the fluid is or may become corrosive.

Y N N/A

Date: 12-09-2012

- **Depth:** Casing strings are cut off below ground level and all wellhead equipment is removed.

Y N N/A

Date: 12-09-2012

- **Metal plate:** before backfilling, a metal plate is welded fully across the top of the innermost casing string and...

Y N N/A

Date: 12-09-2012

- **Marker tape:** ...marker tape is laid approximately 20cm above the top of the casing.

Y N N/A

Date: 12-09-2012

- **Plaque:** A plaque, stating the following information, is placed on the nearest fence, building or other permanent structure—

Y N N/A

- (i) the identifying name of the well or bore;
- (ii) the total depth in metres of the well or bore;
- (iii) the date on which the well or bore was abandoned;
- (iv) the distance and direction to the well or bore from the plaque.

Date: 15-11-2012

45m EAST

(source: P&G Regs Sched 3, Reg 10)

Part B – Plugging – Leaving down-hole content in the hole (continued)

4. Requirements if steel casing (or drill string) is to be left in coal seam (continued):

Comments (if any): _____

Part C – Site Rehabilitation

1. Right of access to rehabilitate:

- Icon has a right to access its tenement land for eco-management/site rehab.
- They are the same access rights for site/well rehab as for other access rights to conduct exploration activities (under the ATP Permit and *Petroleum & Gas Act*).
- Must satisfy usual access requirements – eg Landholder notices.

(source: s513A P&G Act; ATP Permit)

(for info only – no details need to be completed on this form)

2. When to rehabilitate – 6 months max.:

- As soon as practicable,
- - and within 6 months of the completion of petroleum activities,
- - that cause "significant disturbance to land" (if any)(see definition Attachment A),
- the holder of the environmental authority must conduct the rehabilitation as specified below (items 4 to 9)
- Unless a longer period has been agreed in writing by DERM.

(EA Condition 17)

Obligation satisfied? (please tick one) Y N N/A **Date:** 12-09-2012

Comments (if any): _____

Part C – Site Rehabilitation (continued)

3. Clean up spills (if any):

- If a “hazardous contaminant”*** is released to waters or land,
- the EA holder must restore or rehabilitate the environment to its condition before the release occurred.

(EA Condition 18 – extract only)

(Note: other aspects of EA Condition 18 must be fulfilled in the event of a spill, the above serves only for the purposes of addressing rehabilitation)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

*** “Hazardous contaminant” means a contaminant that, if improperly treated, stored, disposed of or otherwise managed, is likely to cause serious or material environmental harm because of:
(a) its quantity, concentration, acute or chronic toxic effects, carcinogenicity, teratogenicity, mutagenicity, corrosiveness, explosiveness, radioactivity or flammability; or
(b) its physical, chemical or infectious characteristics.

4. Remediate contaminated land:

- Eg. “evaporation ponds containing hazardous waste”.
- Must remediate as soon as practicable and within 6 months of the completion of petroleum activities that cause significant disturbance* (if any).
- Unless a longer period has been agreed in writing by DERM.
- “Contaminated land” must be remediated in accordance with (Chapter 7 Part 8) EPA Act 1994 (Qld) requirements - contact Icon legal team immediately if any issue.
- “Contaminated land” refers to land contaminated by hazardous substances (such as arsenic, DDT, or oil) which may pose a risk to human health or the environment.’

(EA Condition 17(a))

(Regs/EA don't define – def'n from DERM website)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part C – Site Rehabilitation (continued)

5. Reshape significantly disturbed land:

- Must reshape all significantly disturbed land (if any) to a stable landform.
- Similar to that of surrounding undisturbed areas.
 - As soon as practicable and within 6 months of the completion of petroleum activities that cause significant disturbance* (if any).
 - Unless a longer period has been agreed in writing by DERM.

(EA Condition 17(b))

Obligation satisfied? (please tick one) Y N N/A Date: 15-11-2012

Comments (if any): _____

6. Surface drainage lines re-establishment:

- Must re-establish surface drainage lines.
 - On all “significantly disturbed” land (if any).
 - Taking “all reasonable and practicable measures” to do so.
 - As soon as practicable and within 6 months of the completion of petroleum activities that cause significant disturbance* (if any).
 - Unless a longer period has been agreed in writing by DERM.

(EA Condition 17(c)(i))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part C – Site Rehabilitation (continued)

7. Top soil reinstatement:

- Must reinstate the top layer of the soil profile.
 - On all “significantly disturbed” land (if any).
 - Taking “all reasonable and practicable measures” to do so.
 - As soon as practicable and within 6 months of the completion of petroleum activities that cause significant disturbance* (if any).
 - Unless a longer period has been agreed in writing by DERM.

(EA Condition 17(c)(ii))

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

8. Promote re-vegetation:

- Must promote establishment of vegetation of the same species and density of cover to that of the surrounding undisturbed areas.
 - On all “significantly disturbed” land (if any).
 - Taking “all reasonable and practicable measures” to do so.
 - As soon as practicable and within 6 months of the completion of petroleum activities that cause significant disturbance* (if any).
 - Unless a longer period has been agreed in writing by DERM.

(EA Condition 17(c)(iii))

Obligation satisfied? (please tick one) Y N N/A Date: 15-11-2012

Comments (if any): _____

Part C – Site Rehabilitation (continued)

9. Infrastructure removal: (prior to surrender of the petroleum authority only)

- All infrastructure, constructed by or for the EA holder,
- (including water storage structures),
- must be removed by the EA holder from the site and sites rehabilitated according to Condition 17 (ie items 2 & 4 to 8 above),
- prior to surrender of the petroleum authority,
- except where it is to remain with the written agreement of the administering authority and post petroleum authority landowner/holder.

(EA Condition 18)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

10. Significant disturbances - where no defined state of rehab is specified:

- A general "catch-all".
- For "contaminated land" or
- Disturbed land and human intervention is needed to rehabilitate it,
- If the EA or DERM does not require the land to be rehabilitated to a particular state
- Then rehab to its state immediately before the disturbance.

(EA Definitions section)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part D – Additional requirements for horizontal wells

3. Requirement for liner:

- A horizontal well must be abandoned containing a slotted liner that is not made of steel, including for example, a slotted PVC liner.

(source: P&G Regs Sched 3, Reg 11)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

4. Risk assessment – Fire resistant anti-static liner needed?:

- If the horizontal well has the potential to be a high risk area for future coal mining because of high levels of methane,
- the operator must conduct a risk assessment,
- including an assessment of whether a Fire Resistant Anti Static (or FRAS) liner should be used in the well.

(source: P&G Regs Sched 3, Reg 11)

Obligation satisfied? (please tick one) Y N N/A Date: 12-09-2012

Comments (if any): _____

Part E – Landholder release form

- Complete the attached landholder release form for each site.
- Have the landholder sign the form on completion of those rehab activities.

Yes - 20-11-2012

14

References to the P&G Act are to the *Petroleum & Gas (Production & Safety) Act 2004* (Qld);

Refs to the P&G Regs are to the *Petroleum & Gas (Production & Safety) Regulation 2004* (Qld);

References to the "Code of Practice for Constructing and Abandoning Coal Seam Gas Wells in Queensland" Version 1.0

Refs to EA are to the Environmental Authority issued by DERM for ATP 626P; *see EA definition of significant disturbance in Attachment A.

Attachment A – “Significant Disturbance” - defined

Significantly disturbed land and significant disturbance means land if:

- contaminated land; or
- disturbed and human intervention is needed to rehabilitate it:
 - (i) to a state required under this environmental authority; or
 - (ii) if this environmental authority or administering authority does not require the land to be rehabilitated to a particular state - to its state immediately before the disturbance.

Examples of a significant disturbance to land:

- (a) areas where soil has been compacted, removed, covered, exposed or stockpiled;
- (b) areas where vegetation has been removed or destroyed to an extent where the land has been made susceptible to erosion;
- (c) areas where land use suitability or capability has been diminished;
- (d) areas within a watercourse, wetland, or spring where petroleum activities have occurred causing the loss of habitat or a decline in ecological processes and requiring human intervention to restore or stabilise the disturbed area and/or protect the quality of the water downstream of the disturbance;
- (e) areas submerged by waste or water;
- (f) areas under temporary infrastructure. Temporary infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be removed after petroleum activities have ceased; or
- (g) areas where land has become contaminated land and a suitability statement has not been issued.

However, for the purpose of this environmental authority the following areas are not significantly disturbed:

- (a) areas off the petroleum authority (e.g. roads or tracks which provide access to the petroleum authority);
- (b) areas previously significantly disturbed which have been rehabilitated to the administering authority's satisfaction;
- (c) areas under permanent infrastructure (e.g. roads, bridges, buildings) as agreed by the administering authority and landholder;
- (d) areas that were significantly disturbed prior to the grant of the petroleum authority, unless those areas are re-disturbed by the petroleum authority holder during the course of carrying out the petroleum activities or were conducted on a petroleum authority that was replaced by the current authority (e.g. through conditional surrender or the transition from an authority to prospect to a petroleum lease).

(EA Definitions section)

**Please complete if there are additional comments or information which needs to be provided.
Please specifically identify which Part & Item Number from the above list for which you are adding
additional comments/info:**

References to the P&G Act are to the *Petroleum & Gas (Production & Safety) Act 2004* (Qld);
Refs to the P&G Regs are to the *Petroleum & Gas (Production & Safety) Regulation 2004* (Qld);
References to the "Code of Practice for Constructing and Abandoning Coal Seam Gas Wells in Queensland" Version 1.0
Refs to EA are to the Environmental Authority issued by DERM for ATP 626P; *see EA definition of significant disturbance in Attachment A.

[The main body of the page consists of 27 horizontal lines, serving as a template for text input. The lines are evenly spaced and extend across most of the page width.]



APPENDIX 3 RISK ASSESSMENT REHABILITATION



Document Title: Well Rehabilitation - Lydia 1

Original Risk Assessment Date: 31/07/2012

Document Number & Date: o1 - 22/08/2012

Location of Hazard / Task / Plant /Operation	Description of Hazard / Task / Plant /Operation
Field Location - Lydia 1 well	P & A Well
Operational Activity	Operational Environment
Description e.g. equipment type, mining method, may include photographs, diagrams, plans, sketches etc.	A brief description of the physical environment where the work is to take place or plant is to operate, should clearly state any significant known hazards in the area
Risk Assessment on Program	Field work
Reference Materials	
n/a	
Risk Matrix	
Insert the risk matrix used during the risk assessment process	

Probability Likelihood (P)	Level	Consequence Level				
		1 Low	2 Minor	3 Moderate	4 Major	5 Critical
A	Almost Certain	High	High	Extreme	Extreme	Extreme
B	Likely	Moderate	High	High	Extreme	Extreme
C	Possible	Low	Moderate	High	Extreme	Extreme
D	Unlikely	Low	Low	Moderate	High	Extreme
E	Rare	Low	Low	Moderate	High	High

Consequence / Severity (C)				
Level	(C)	Injury / Illness	Environmental Impact	Financial Loss
1	Low	Very Low Level, Short Term Injury (Minor Injury, First Aid Injury)	Negligible. Confined to Work Area. Rapid Clean Up.	Low Loss (<\$20K)
2	Minor	Reversible Disability or Impairment (Disabling & Short Term LTI)	Minor, Reversible Short-Term Impact, Improvement Notice Issue.	Medium loss (\$20K - \$200K)
3	Moderate	Moderate Irreversible Disability or Impairment (<30%)	Moderate Environmental Impact. Confined to Lease Area.	High Loss (\$200K - \$2M)
4	Major	Single Fatality &/or Severe Irreversible Disability (>30%)	Serious, Medium Term Impact, Regulatory Breach.	Major Loss (\$2M - \$20M)
5	Critical	Multiple Fatalities &/or Significant Irreversible Effects	Disastrous , Long Term Impact. Extensive Clean Up, Long Term Recovery.	Extreme Loss (>\$20M)

Probability / Likelihood (P)		
A	Almost Certain	Happens Often
B	Likely	Could Easily Happen
C	Possible	Could Happen and has Occurred Here or Elsewhere
D	Unlikely	Hasn't Happened Yet But Could
E	Rare	Conceivable, But Only In Extreme Conditions



Ref #	Date of Entry	Doc Ver #	Activity	Sub Activity	Risk Description	Possible Consequences	Existing Controls	Risk Severity with Existing Controls			Risk Treatment Plan - Accept (A) or Further Risk Reduction (FRR)	Additional Recommendations	Target Risk Severity After Treatment			Responsible Person Assigned to Additional Recommendation	Due Date	Follow up Status (Complete, In Progress)	Date
								Consequence	Likelihood	Risk Rating			Consequence	Likelihood	Risk Rating				
1.0	31/07/12	1	Bleed off Valves, Remove Master Valve (C section) and B Section																
1.1	31/07/2012	1	Bleed off valve	Gas detection when bleed of valves master valve (C section valve)	Well Live (gas in well)	Explosion	1. Tool box meeting. 2. Bump test on Gas detector. Calibrated gas meter. Gas detection use training. 3. Training in MSAPMPER205B Enter Confined spaces & MSAPMOHS217A Gas test atmospheres. 4. Area classified as Zone 1. 5. Area clear of any flammable fuel. 6. No ignition sources allowed within 30m of cellar. 7. Water available on site from wash down unit in case of fire. 8. If gas is found, shut down all equipment and move to muster point. Use Take 5 process.	2	C	M	Further Risk Reduction	Create JSA for Bleed off Valves, Remove Master Valve (C section) and B Section	2	D	L	Ken Park	8/09/2012	In Progress	
1.2	31/07/2012	1	Lifting off master valve (C section) and B section	Working in confined space (prep for lifting)	Becoming stuck	Injury	1. Reviewed Confined Spaces code of practise 2011. 2. Tool box meeting. 3. Permit holders and Authorises. Permit for confined spaces. 4. Training in MSAPMPER205B Enter Confined spaces. 5. Correct PPE. 6. Certified Applied first aider on site.	2	C	M	Further Risk Reduction	Create JSA for Bleed off Valves, Remove Master Valve (C section) and B Section	2	D	L	Ken Park	8/09/2012	In Progress	
1.3	31/07/2012	1	Lifting off master valve (C section) and B section	Lifting	Stuck are jammed equipment	Property damage or injury	1. Tool box meeting. 2. Certified Slings and inspected before use. 3. Certified Operator. Excavator has current certificates. 4. Permit holders and Authorises. 5. Training in MSAPMPER205B Enter Confined spaces. 6. Permit for over head loads. 7. Correct PPE. 8. Stand clear but in site of excavator operator .	2	C	M	Further Risk Reduction	Create JSA for Bleed off Valves, Remove Master Valve (C section) and B Section	2	D	L	Ken Park	8/09/2012	In Progress	
2.0	31/07/12	1	Excavate, Remove Cellar, Cutting off A Section and Welding on cap																
2.1	31/07/2012	1	Excavate	Digging around Cellar	Digging up underground services	Equipment or property damage	1. Dial before you dig. 2. Tool box meeting. 3. Bump test on Gas detector. Calibrated gas meter. Gas detection training. 4. Training in MSAPMOHS217A Gas test atmospheres. 5. Certified Operator. Excavator has current certificates. 6. Spotter. 7. Permit overhead loads. 8. Correct PPE. 9. Stand clear but in site of excavator operator. 10. Batter at 45° (Tapered hole sides). 11. If gas is found, shut down all equipment and move to muster point. Use Take 5 process.	2	C	M	Further Risk Reduction	Create JSA for Excavate, Remove Cellar, Cutting off A Section and Welding on cap	2	D	L	Ken Park	8/09/2012	In Progress	
2.2	31/07/2012	1	Lifting out cellar	Lifting	Cellar Stuck or jammed, equipment damage	Equipment damage or injury	1. Tool box meeting. 2. Permit holders and Authorises. Permit for over head loads. 3. Certified Operator. Excavator has current certificates. 4. Spotter. 5. Correct PPE. 6. Stand clear but in site of excavator operator .	2	C	M	Further Risk Reduction	Create JSA for Excavate, Remove Cellar, Cutting off A Section and Welding on cap	2	D	L	Ken Park	8/09/2012	In Progress	
2.3	31/07/2012	1	Removing A section	Grinding	Injury	Eye or ear damage. Injury	1. ToolBox meeting. 2. Bump test on Gas detector. Calibrated gas meter. Gas detection training. 3. Training in MSAPMPER205B Enter Confined space & MSAPMOHS217A Gas test atmospheres. 4. Permit holders and Authorises. Permit for over head loads. 5. Correct PPE. 6. Area clear of any flammable fuel. 7. If gas is found. Use Take 5 process. 8. Water available on site from wash down unit in case of fire.	2	C	M	Further Risk Reduction	Create JSA for Excavate, Remove Cellar, Cutting off A Section and Welding on cap	2	D	L	Ken Park	8/09/2012	In Progress	

Ref #	Date of Entry	Doc Ver #	Activity	Sub Activity	Risk Description	Possible Consequences	Existing Controls	Risk Severity with Existing Controls			Risk Treatment Plan - Accept (A) or Further Risk Reduction (FRR)	Additional Recommendations	Target Risk Severity After Treatment			Responsible Person Assigned to Additional Recommendation	Due Date	Follow up Status (Complete, In Progress)	Date
								Consequence	Likelihood	Risk Rating			Consequence	Likelihood	Risk Rating				
2.4	31/07/2012	1	Welding on Cap	Welding	Injury	Eye damage. Injury	<ol style="list-style-type: none"> 1. Tool box meeting. 2. Bump test on Gas detector. Calibrated gas meter. Gas detection training. 3. Training in MSAPMPER205B Enter Confined space & MSAPMOHS217A Gas test atmospheres. 4. Permit holders and Authorises. Permit for hot work. 5. Authorised welder to complete job. 6. Correct PPE. 7. Area clear of any flammable fuel. 8. If gas is found. Use Take 5 process. 9. Water available on site from wash down unit in case of fire. 	2	C	M	Further Risk Reduction	Create JSA for Excavate, Remove Cellar, Cutting off A Section and Welding on cap	2	D	L	Ken Park	8/09/2012	In Progress	
2.5	31/07/2012	1	Breaking up Cellar floor	Using a Jack hammer	Injury	Eye or ear damage. Injury	<ol style="list-style-type: none"> 1. Tool box meeting. 2. Bump test on Gas detector. Calibrated gas meter. Gas detection training. 3. Training in MSAPMPER205B Enter Confined space & MSAPMOHS217A Gas test atmospheres. 4. Permit holders and Authorises. Permit for confined spaces. 4. Authorised welder to complete job. 5. Correct PPE. 6. Area clear of any flammable fuel. 7. If gas is found. Use Take 5 process. 8. Water available on site from wash down unit in case of fire. 	2	C	M	Further Risk Reduction	Create JSA for Excavate, Remove Cellar, Cutting off A Section and Welding on cap	2	D	L	Ken Park	8/09/2012	In Progress	
3.0	31/07/12	1	Back Fill																
3.1	31/07/2012	1	Back fill Cellar	Excavator work	Becoming stuck & hit by bucket	Equipment damage and injury	<ol style="list-style-type: none"> 1. Tool box meeting. 2. Certified Operator. Excavator has current certificates. 3. Spotter. 4. Permit overhead loads. 5. Correct PPE. 6. Stand clear but in site of excavator operator. 7. If gas is found, shut down all equipment and move to muster point. Use Take 5 process. 	2	C	M	Further Risk Reduction	Create JSA for Back Fill	2	D	L	Ken Park	8/09/2012	In Progress	
3.2	31/07/2012	1	Compact	Excavator work	Hit by bucket	Injury	<ol style="list-style-type: none"> 1. Tool box meeting. 2. Certified Operator. Excavator has current certificates. 3. Spotter. 4. Permit overhead loads. 5. Correct PPE. 6. Stand clear but in site of excavator operator. 7. If gas is found, shut down all equipment and move to muster point. Use Take 5 process. 	2	C	M	Further Risk Reduction	Ken Park	8/09/2012	In Progress	#N/A	Ken Park	8/09/2012	In Progress	



Document Title: Well Rehabilitation - Lydia 1

Original Risk Assessment Date: 31/07/2012

Document Number & Date: o1 - 22/08/2012

Risk Assessment Review Meeting Record

Name	Position	Experience	ICON Energy	Risk Assessment Role Facilitator or Team Member	Consensus Y or N	Signature	Reason for Non-Consensus
Date of Review:		16/07/2012	Next Review Due:		30/07/2017		
Jim Carr	Operations Manager	32 yrs Oil & Gas	7 mths	TM	Y		n/a
John Carroll	OHS Officer	2 yrs Oil & Gas, 20 yrs Deisgn, Development & Manufacturing	2 yrs	F	Y		n/a
Ian Scott	Operations	30 yrs Oil & Gas	4 yrs	TM	Y		n/a

Comments / Notes

Review and Authorisation

Risk Assessment Reviewed By				Risk Assessment Authorised By			
Name	Position	Signature	Date	Name	Position	Signature	Date
John Carroll	OHS Officer			Jim Carr	Operations Manager		



APPENDIX 4 LANDHOLDER RELEASE FORM



4 Miami Key
 PO Box 2004
 Broadbeach
 Queensland 4218 AUSTRALIA

Ph: 61+ 07 5554 7111
 Fax: 61+ 07 5554 7100
 Email: info@iconenergy.com
 Web: www.iconenergy.com

LANDHOLDER RELEASE FORM DRILLING PROGRAM FIELD OPERATIONS

ATP 626P Drilling Program

Field operations relating to the current ATP 626P Drilling Program have been completed and we believe that your property has been left in an appropriate condition.

Icon Energy's field supervisor, Ken Park is arranging the signing of this release form that indicates that you are satisfied with the standard of restoration work and rehabilitation work on the drilling site and that of associated works. Should you wish to discuss any aspect of this release form please contact Jim Carr or Ken Park on 0400 202 028.

If you become aware that additional work is required in the future as a direct result of our activities, please don't hesitate to contact either Ken Park or Jim Carr (Operations Manager) on (07) 5554 7111.

On behalf of Icon Energy, we appreciate your ongoing cooperation and we thank you for allowing access to your property.

Yours sincerely,

Ray James
 Managing Director
 Icon Energy Limited

PROPERTY & RESTORATION DETAILS

Property: "ARROW FIELD"	Phone: 0407 754 142
Landholder/Manager: SCOTT SANDOW	
Original Permit Date: 08-10-2007	Restoration Date: 15-11-2012
Nature of Restoration Work	
Drilling Location: "LYDIA 1" 28° 4' 7.22" S, 150° 25' 25.84" E	
Environmental: P & A + REHABILITATED AS PER BRUIDE HANES	

Confirmation of Release

	20/11/12	
Landholder Representative Signature	Date	Client Representative Signature