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FILE

TENEMENT ADMINISTRATION SERVICES

3 September 2012

A/Senior Tenures Officer
The Department of
Natural Resources and Mines
P O Box 15216
CITY EAST QLD 4151

ATTENTION: JO COX

Qld Mines & Energy, Department of Employment, Economic Development & Innovation
01 SEP 2012
TIME BY
SOUTHERN REGION

Dear Jo,

RE: EXPLORATION PERMIT FOR COAL 890

We act as agents to HLM Coal Australia Pty Ltd.

Please find attached rent payment for **EPC 890** - $5,256.00 (40 sub-blocks X $131.40) for the period commencing **18 October 2012.**

If you have any queries, please contact the undersigned on (07) 3012 7503.

Yours faithfully
Tenement Administration Services Pty Ltd
For HLM Coal Australia Limited

49-Sch4 - Signature

Jodie Green
Tenement Administrator – Queensland

Qld Mines & Energy, Department of Employment, Economic Development & Innovation
SOUTHERN REGION (MINES)
FEE $5256.00
DATE PAID 4/9/12
RECEIPT No. 6K303209
FOR RENT
INITIALS MM

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山东能源
SHANDONG ENERGY

Shandong Energy

EPC890

Exploration Design

April 2013

Prepared By:

Benjamin Smith

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DATE	VERSION	DESCRIPTION	PREPARED	REVIEWED	APPROVED
05/03/13	7V1	Modelling and Report Write-up	B.Smith A.Bagja	L.Mathewson	
11/03/13	7V2	Edits to wording, grammar and formatting	B.Smith	M.Hayward	M.Hayward
03/04/13	7V3	Changed Exploration Plan to use historical boreholes within Plan	B.Smith	M.Hayward	M.Hayward
08/04/13	7V4	Small edits to maps – Shandong requested 4 extra boreholes within Southern ERE Zone	B.Smith	M.Hayward	M.Hayward

Release

Executive Summary

This report has been developed by Moultrie Geology on behalf of Shandong Energy to provide an Exploration Design for execution on Exploration Permit for Coal (EPC) 890.

Between 1966 and 1978 Clutha Development drilled 141 holes within Authority to Prospect (ATP) 25; at that time ATP 25 covered the northern portion of the project area. Geophysical logging of boreholes was not used in the Bowen Basin until 1975 onwards; therefore only two of the boreholes drilled by Clutha have geophysical logs. EPC 890 was granted in 2004 to Rocklands Richfield. Rocklands carried out a small drilling plan in the south west corner of the tenement obtaining positive coal quality results (soft coking coal product).

In October 2008, Saunders released an Inferred resource for the project area of 880Mt, this estimation was based on the Clutha historical drilling data and more recent Rocklands Richfield drilling. Subsequently, Bradbury & Willets (2010) reported an Inferred resource of 700Mt for the project area, this estimation was lower than what Saunders released in 2008 due to a reduction in the size of the EPC.

The purpose of this Exploration Design is to allow Shandong Energy, through further targeted drilling, to build on the Inferred resource reported by Bradbury & Willets (2010) and to confirm seam distribution of the Rangal Coal Measures within the project area. The Exploration Design consists of eighty-four (84) boreholes, made up of: thirty-five (35) non-cored boreholes and forty-nine (49) partly cored holes. Due to ERE constraints and the desire to gain an updated resource, Moultrie Geology recommends that if a planned borehole site is deemed to be unsuitable then the Moultrie Geology Resource Team will give adequate instruction.

The Exploration Design is split into two zones (each zone having two stages), ***Table 1*** identifies the number of boreholes in each stage and its drilling category.

Table 1 - Exploration Design - Borehole Designation Summary

Zone	Stage	Partially Core - Coal Quality Borehole	Non-Core Borehole (Stratigraphic)	Total Boreholes
North	1	14	12	26
	2	9	6	15
South	1	14	5	19
	2	10	10	20

This Exploration Design has been developed using the previous exploration carried out on EPC 890. The purpose of this Exploration Design is to advance the development of the resource upgrade within the project area and assist in progressing to a Mining Development Lease (MDL).

In the Southern Zone of project area the historical boreholes that have geophysical logs and coal quality results will be incorporated within the Exploration Design. The historical boreholes in the northern section of the tenure do not have geophysical logs, and therefore there is low confidence in the data. The Exploration Design aims to verify the results of these northern historical boreholes by drilling at relevant distances from the historical boreholes, then using this data to correlate between sites. If correlation is successful, using a Geostatistical study, then the historical boreholes, which do not posses geophysical logs will be included in the updated resource estimate.

If seam consistency can be confirmed within the project area (both seam continuity and coal quality), then the Exploration Design is intended to provide Shandong Energy with sufficient data to consider an update to the resource, as per JORC guidelines.

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Disclaimer

The information and opinions expressed in this report have been based on publicly available information and information supplied to Moultrie Geology by Shandong Energy.

Whilst Moultrie Geology has compared key data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the sourced data. Moultrie Geology does not accept responsibility for any errors or omissions in the sourced information and does not accept any consequential liability arising from commercial decisions or actions resulting from them.

No representation, warranty or undertaking, express or implied, is made or given by Moultrie Geology or any of its officers or employees as to the fairness, accuracy, completeness or reliability of that information.

All estimates and projections in this report are illustrative only and are based on the assumptions described herein. Moultrie Geology's actual results may be materially affected by changes in economic or other circumstances which cannot be foreseen. Nothing in this report should be relied upon as a promise or representation either as to future results or events or as to the reasonableness of any assumption or view contained herein (whether express or implied).

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Introduction

This report has been developed by Moultrie Geology on behalf of Shandong Energy to provide an Exploration Design within Exploration Permit for Coal (EPC) 890.

The project area comprises forty (40) sub-blocks and has a total area of 120km^2. The Project Area is located 40km south of Blackwater and 55km northeast of Rolleston in Central Queensland (***Figure 1***).

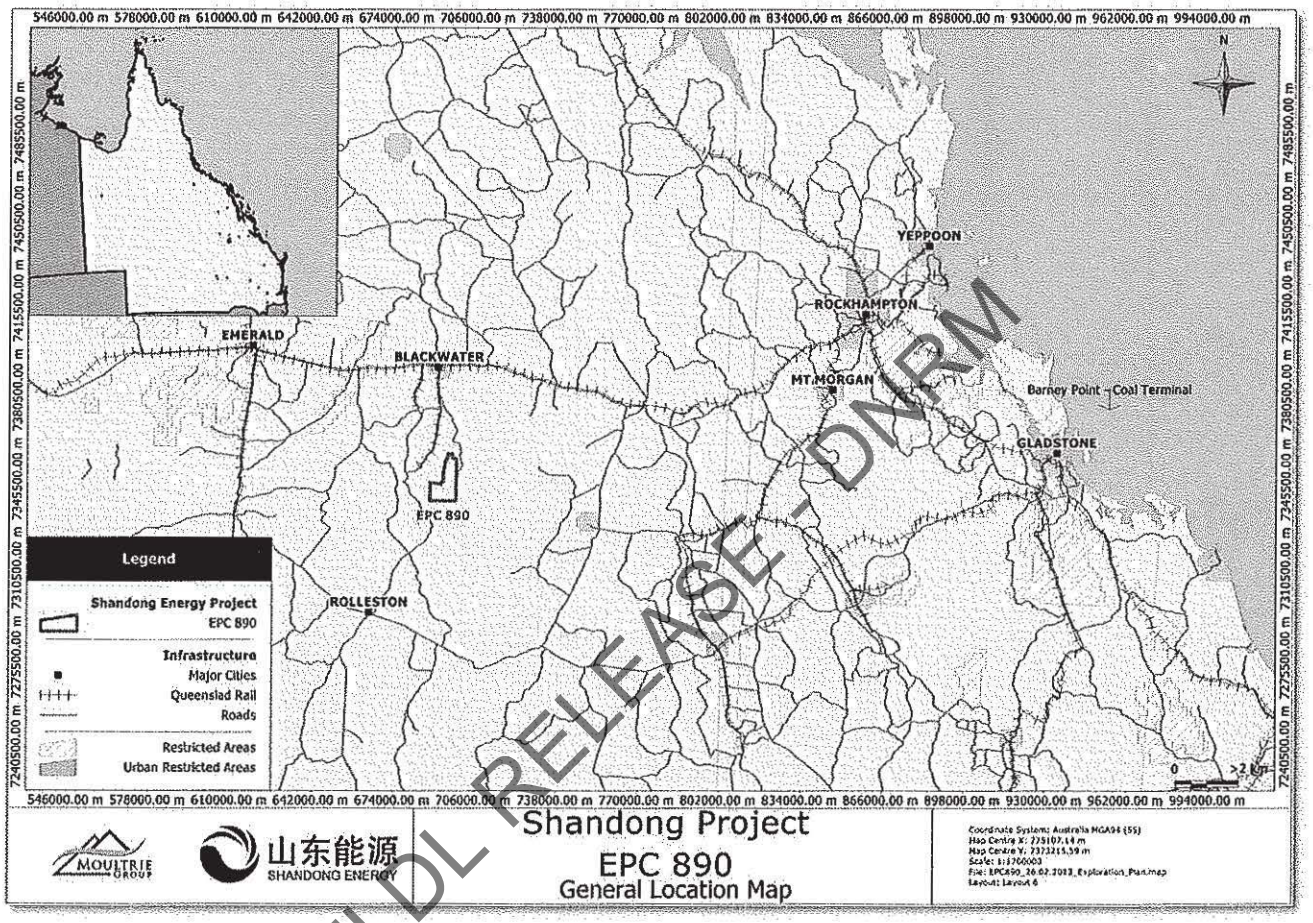


Figure 1 - General Location Map
Source: Queensland Department of Natural Resources and Mines, 2013

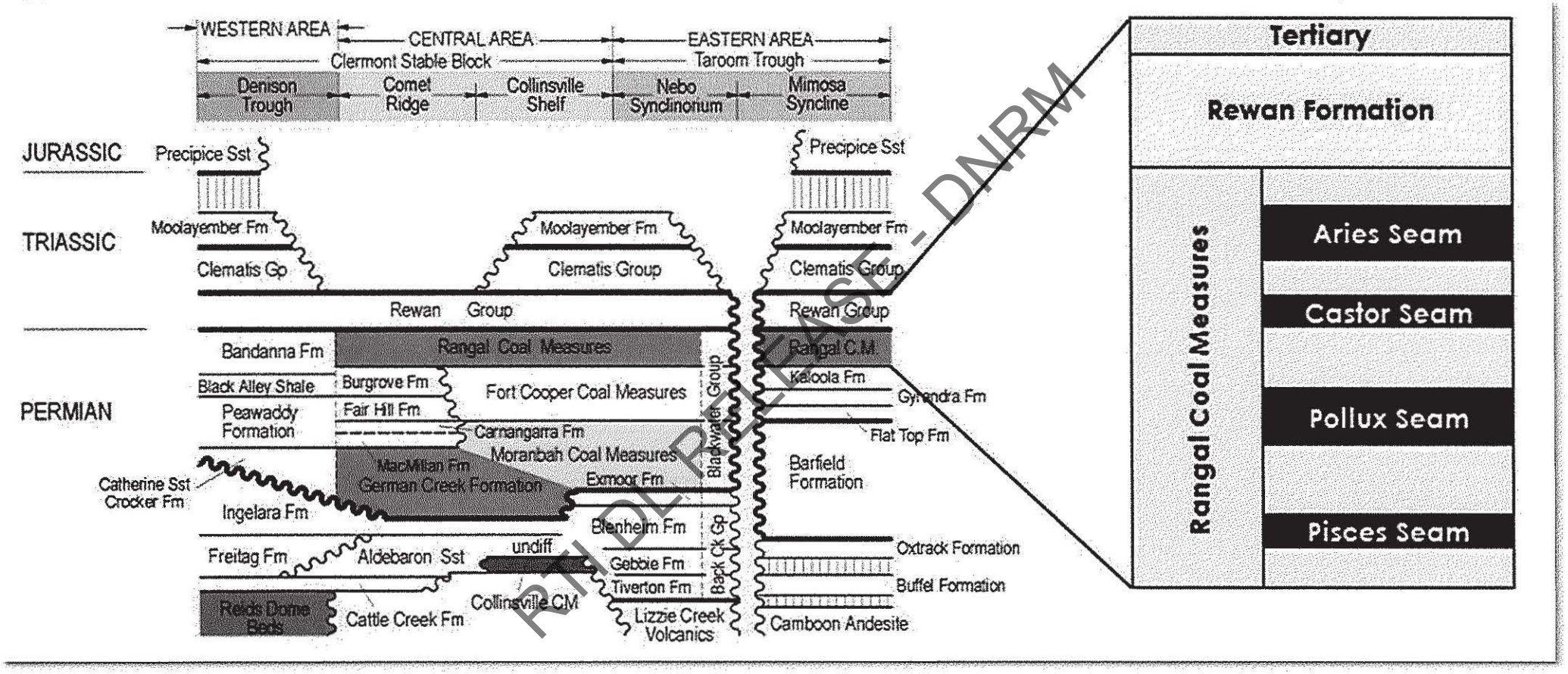
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BMA's South Blackwater Open Cut mine is located 10km to the west and has similar geology to the project area. BMA are mining the Aries, Castor and Taurus/Argo coal seams of the Rangal Coal measures (***Figure 2***) where they have a coal product which is medium volatile, hard coking coal; medium volatile, weak coking coal and medium volatile thermal coal.

In October 2008, Saunders released an Inferred resource for the project area of 880Mt. This estimation was based on data with a low level of confidence due to lack of geophysical logs and coal quality. Subsequently, Bradbury & Willets (2010) reported an updated Inferred resource of 700Mt for the project area, this estimation was lower than what Saunders released in 2008 due to relinquishment of sub-blocks.

The purpose of this Exploration Design is to provide further confidence in the geology and understanding of the nature of the coal seams in the project area.

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Figure 2 - Bowen Basin Stratigraphy
Source: Modified from Bertoli et al (2013)

Methodology

Exploration strategies increase in effectiveness if they are focussed, relevant and timely. Moultrie Geology has followed the process outlined here in the development of this Exploration Design:

- Define the objective of the Exploration Design and client requirements:
  - Coal measures targeted;
  - Type of exploration;
  - Depth of formations targeted;
  - Consideration of budget; and,
  - Location of exploration sites.
- Plan hole locations;
- Planned geophysical survey requirements;
- Estimated prediction of seam depths;
- Plan sampling and laboratory analysis requirements;

The actual implementation of the drilling program and analysis regime does not fall within the scope of this report.

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Exploration Rationale

The Late Permian Rangal Coal Measures underlie the project area and dip east-southeast. The coal measures consist of five (5) main seams (Aries, Castor, Pollux, Orion and Pisces). The top seam is the Aries seam, with the base of the Rangal Coal Measures being defined as the Yarabee Tuff (thin reworked tuff which provides an easily identifiable gamma high in geophysical logs) (Saunders, 2008). The Yarrabee Tuff splits the Pisces seam in the Blackwater and Foxleigh areas. The non-coal lithologies of the Rangal Coal Measures comprise lithic clay-cemented sandstone and siltsone (Saunders, 2008).

Between 1966 and 1978 Clutha Development drilled 141 holes within ATP 25 (***Figure 3***); at that time ATP 25 covered the northern portion of the project area. Geophysical logging of boreholes was not used in the Bowen Basin until 1975 onwards; therefore only two of the boreholes drilled by Clutha have geophysical logs. EPC 890 was granted in 2004 to Rocklands Richfield, Rocklands carried out a small drilling plan in the south west corner of the tenement obtaining positive coal quality results (soft coking coal product).

In October 2008, Saunders released an Inferred resource for the project area of 880Mt, this estimation was based the Clutha Historical drilling and more recent Rocklands Richfield drilling. Subsequently, Bradbury & Willets (2010) reported an Inferred resource of 700Mt for the project area; this estimation was lower than what Saunders released in 2008 due to a reduction in the size of the EPC.

The Exploration Design has been developed using the previous exploration carried out on EPC 890. The purpose of the exploration design is to further develop the level of resource within the project area and assist in progressing to a Mining Development Lease.

In the Southern Zone of project area the historical boreholes that have geophysical logs and coal quality will be incorporated within the Exploration Design. The historical boreholes in the northern section of the tenure do not have geophysical logs, implicating that there is low confidence in the data. The Exploration Design aims to verify the results of the historical boreholes by drilling at relevant distances from the historical boreholes, then using the 'new' boreholes to correlate between sites. If correlation is successful, as proven by a Geostatistical study, then the historical boreholes without geophysics will be included in the updated resource

Data gathered from boreholes planned in this Exploration Design will assist in further correlation of seams and improve the understanding of the extent of the seams. Limited data was obtained from historical drilling, as such further information will be gathered to determine the quantity and quality of the coal and to better define a coal resource compliant with the JORC guidelines.

Moultrie Geology suggests that exploration be focused in areas where there is some proven coal seam continuity based on review of the historic boreholes and where historic boreholes intersected thick seams of good quality coal similar to the coal mined at South Blackwater.

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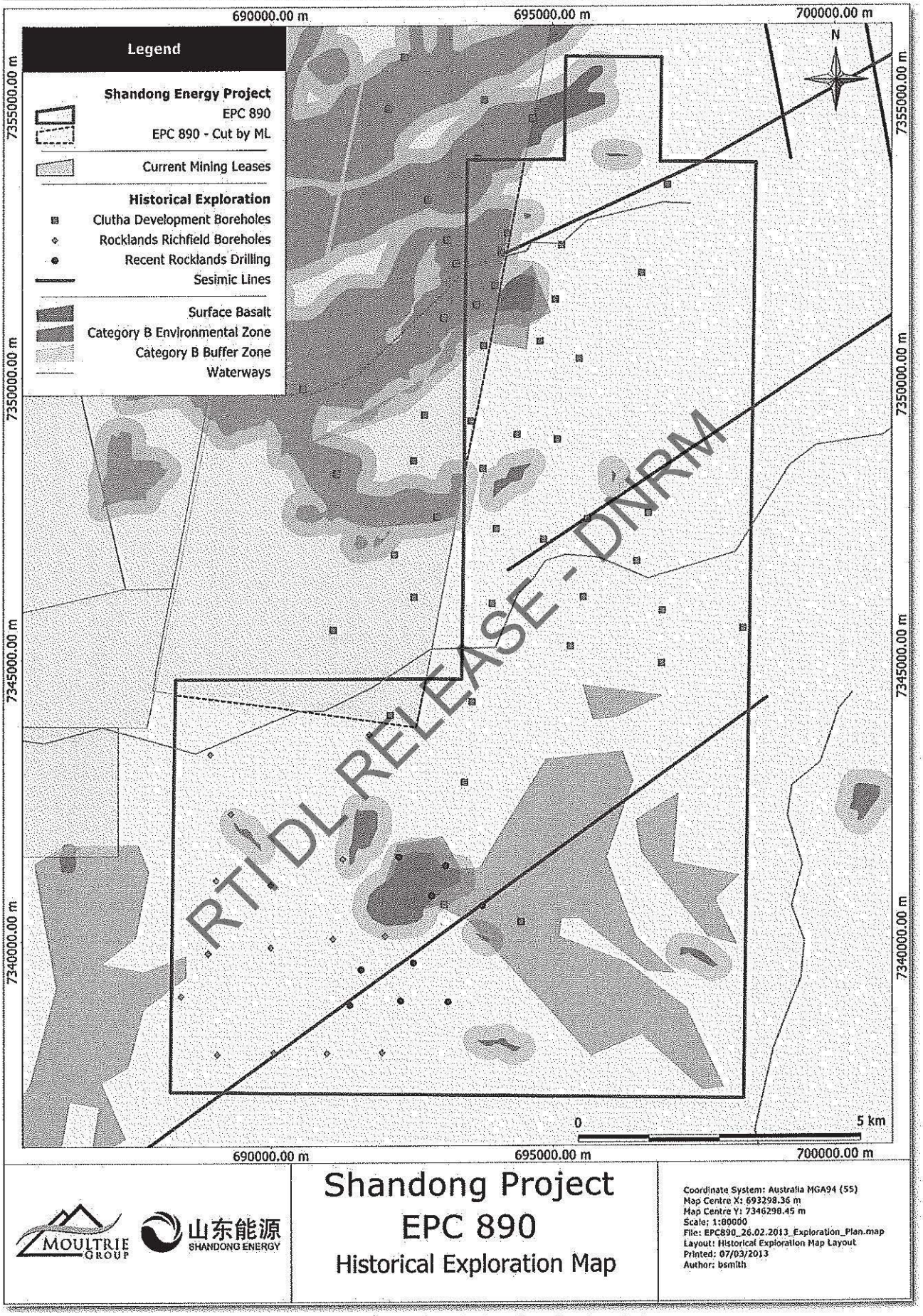
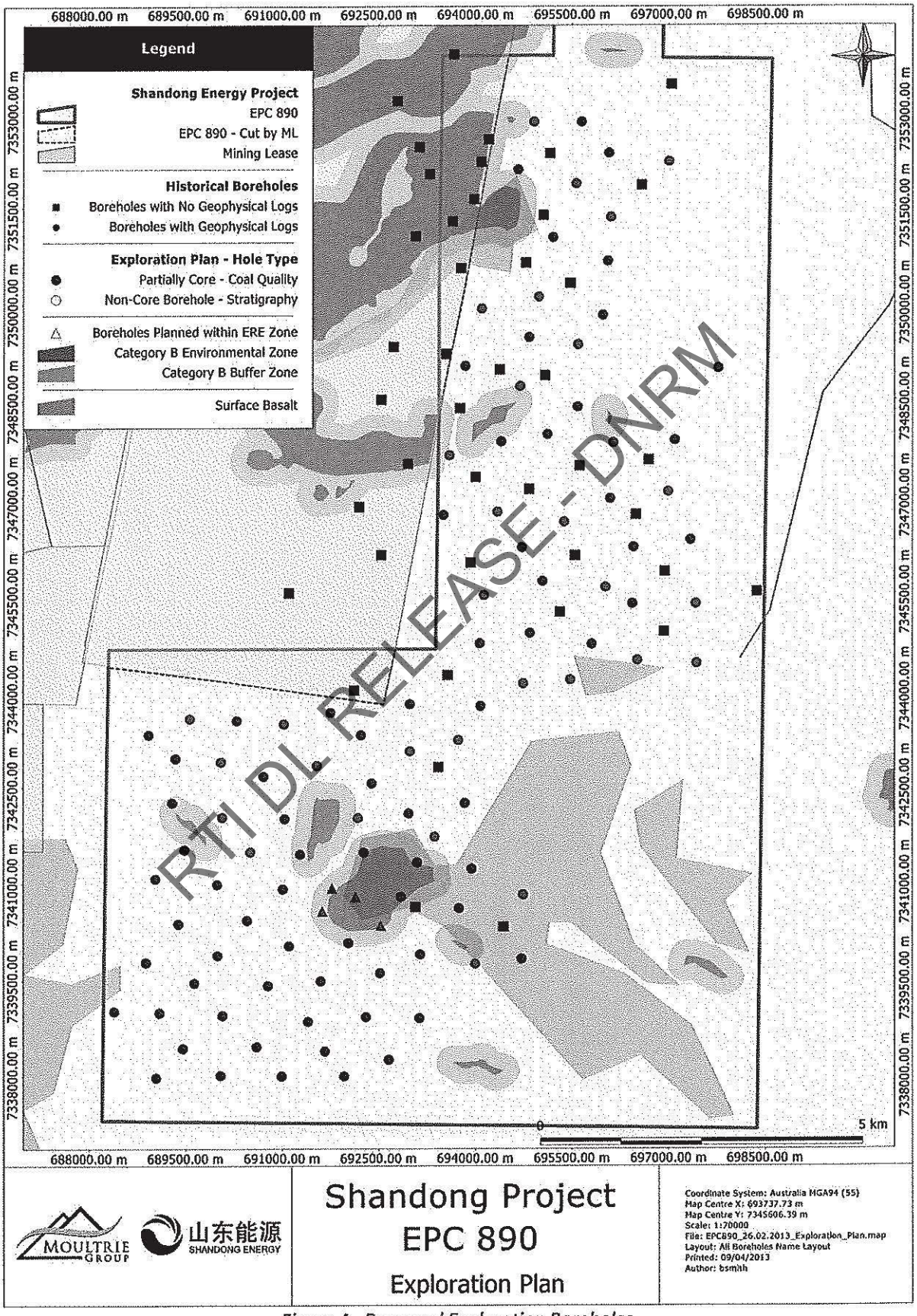


Figure 3 - EPC 890 Historical Exploration Boreholes
Source: Queensland Department of Natural Resources and Mines, 2013

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Exploration Design

Figure 4 shows the proposed borehole locations for EPC 890. The Exploration Design consists of eighty-four (84) boreholes, made up of: thirty-five (35) non-cored boreholes and forty-nine (49) partly cored holes.



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Figure 4 - Proposed Exploration Boreholes
Source: Queensland Department of Natural Resources and Mines, 2013

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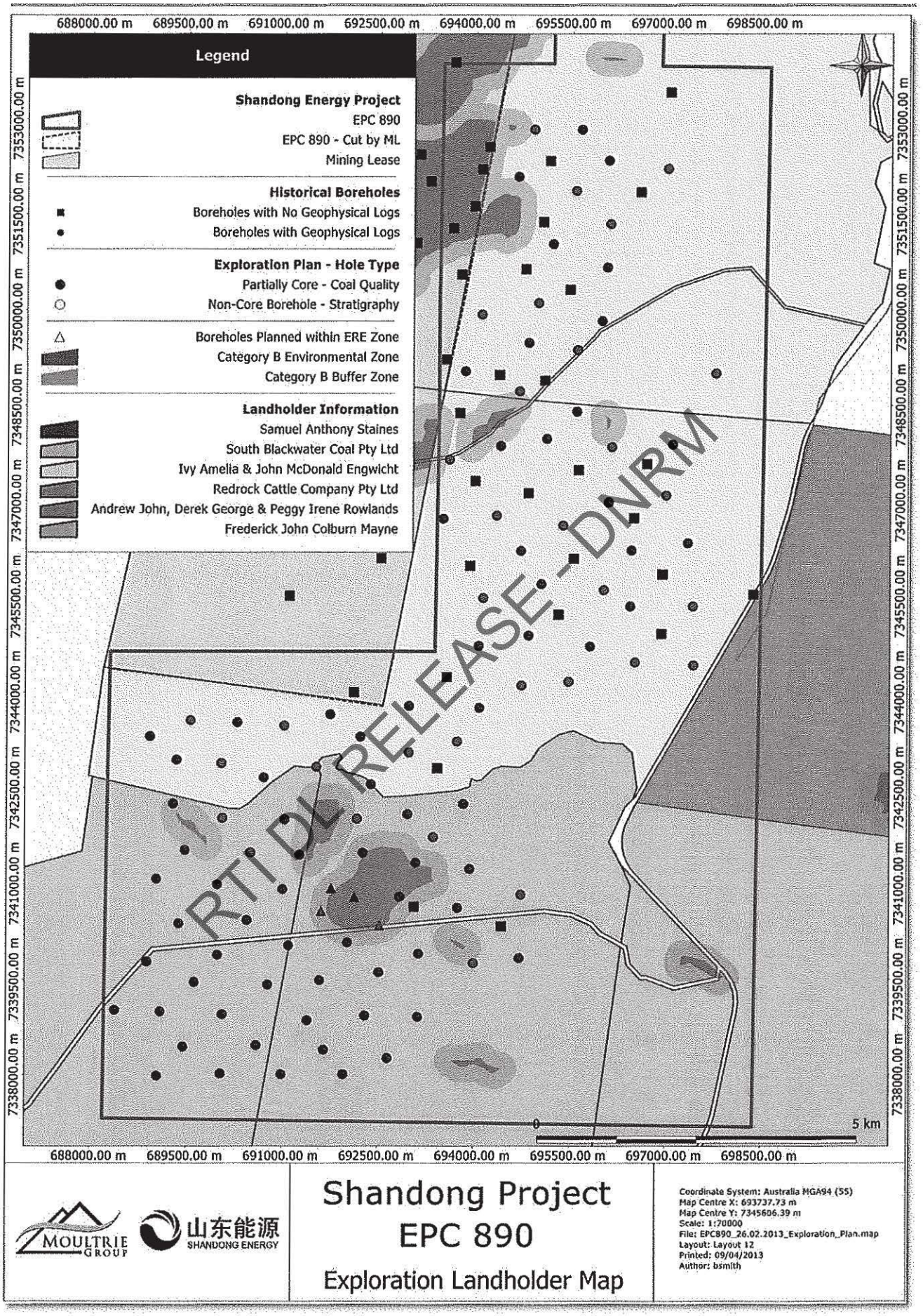


Figure 5 - Exploration Design with Landholder Information Map
Source: Queensland Department of Natural Resources and Mines, 2013

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The Exploration Design has been created to divide the project area into two distinct zones – North and South. Each zone has 2 stages, a primary exploration stage (1) and a secondary exploration stage (2). ***Table 2*** below identifies the number and type of boreholes in each stage:

Table 2 - Exploration Design - Borehole Designation

Zone	Stage	Partially Core - Coal Quality Borehole	Non-Core Borehole (Stratigraphic)	Total Boreholes
North	1	14	12	26
	2	9	6	15
South	1	14	5	19
	2	10	10	20

The Exploration Design gives the client the opportunity to split the EPC into four separate projects, each stage will finalise in an indicated pattern. The Cadastral Boundaries which fall within the tenure boundary are identified in ***Figure 5***. Moultrie Geology recommends that North Stage 1 and South Stage 1 (***Figure 6***) are drilled first and second to fulfil the requirements for a Mining Development Lease Application.

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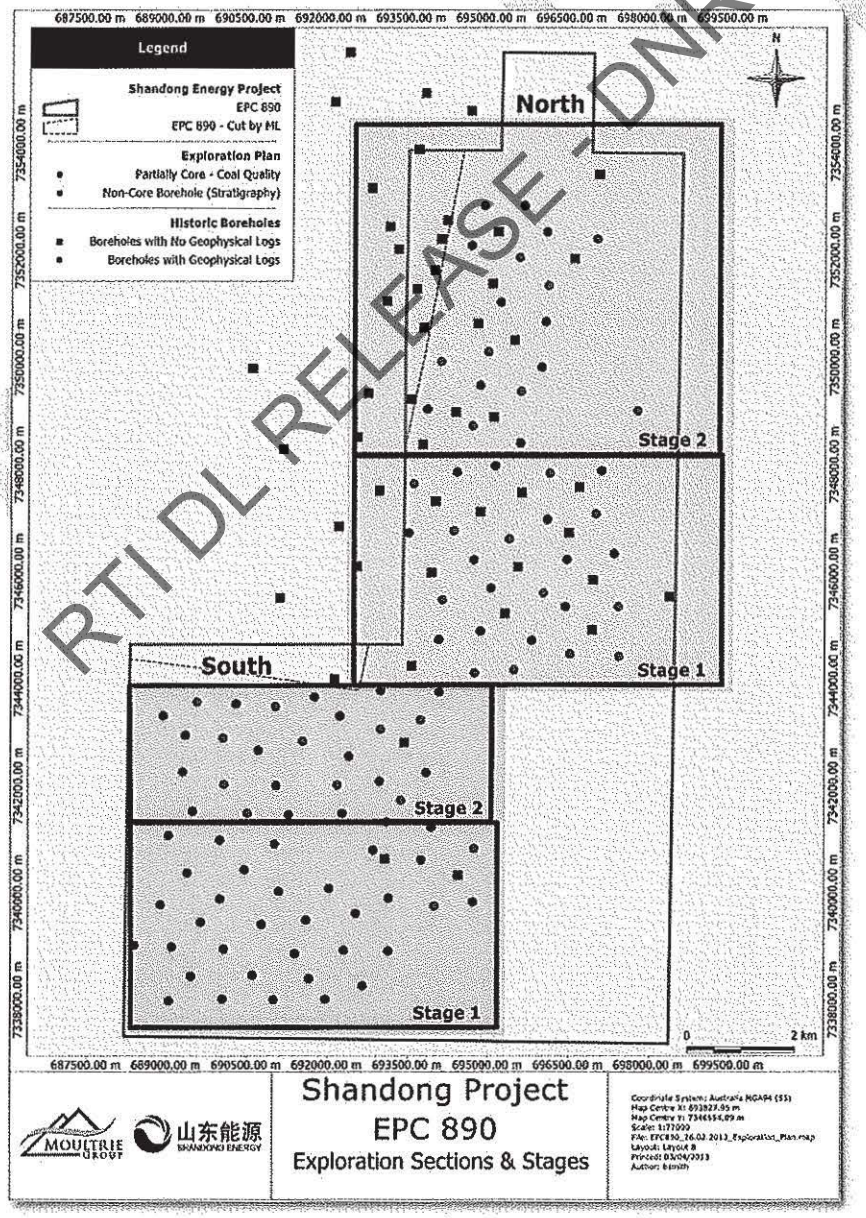


Figure 6 - Exploration Sections & Stages Map
Source: Queensland Department of Natural Resources and Mines, 2013

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Northern Zone

The northern section of the project area consists of boreholes drilled in the 1960's and 1970's by Clutha Development Pty Ltd, little information is known regarding the geology and continuity of the seam distribution, due to the lack of geophysical logs in the area. The Historical boreholes will be used within the Exploration Plan as Points of observation, dependant on the results of the surrounding boreholes. The Northern Section has been split into two Stages: 1 and 2.

North Stage 1

North Stage 1 consists of twenty-four (24) boreholes (***Table 3***): fourteen (14) Partially Cored – Coal Quality boreholes and ten (10) Non-Core Boreholes (Stratigraphy), ***Figure 7.*** The first purpose of North Stage 1 is to correlate between the historical data and the planned boreholes, the second purpose to create an indicated resource mask for the area.

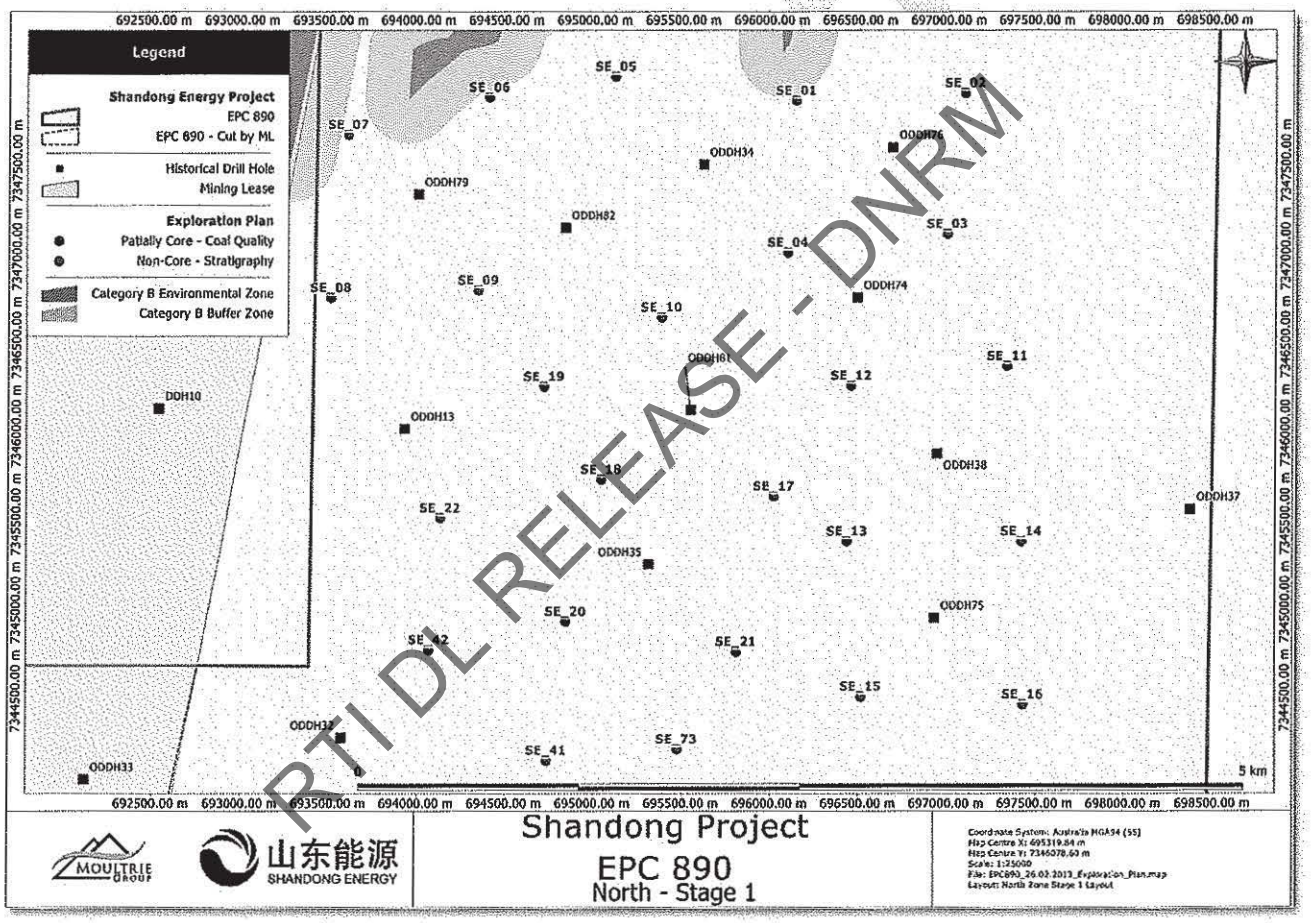


Figure 7 - North Zone - Stage 1 Exploration
Source: Queensland Department of Natural Resources and Mines, 2013

Included in *North Stage 1* is one (SE_22) of three deep holes to investigate the potential for deeper seams in the Burngrove and German Creek Formations. Additionally boreholes SE_33 (North Stage 2) and SE_63 (South Stage 1) will be drilled to 1000m

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Table 3 - North Stage 1 Borehole Collar

Hole ID	Stage	Easting	Northing	Elevation (RL)	Total Depth (m)	Hole Type
SE_01	1	696139.3	7347841.24	322.71	460.255	Non-Core - Stratigraphy
SE_02	1	697094.5	7347884.82	327.151	504.358	Partially Core - Coal Quality
SE_03	1	696995.8	7347085.76	317.978	455.505	Non-Core - Stratigraphy
SE_04	1	696094.5	7346979.73	310.34	403.009	Partially Core - Coal Quality
SE_05	1	695119	7347976.41	331.598	436.428	Partially Core - Coal Quality
SE_06	1	694404.2	7347860.46	320.437	389.943	Partially Core - Coal Quality
SE_07	1	693602.8	7347647.72	313.347	342.245	Non-Core - Stratigraphy
SE_08	1	693506.4	7346725.11	334.404	361.528	Partially Core - Coal Quality
SE_09	1	694345	7346767.67	342.297	390.886	Non-Core - Stratigraphy
SE_10	1	695380.8	7346614.81	299.878	349.421	Non-Core - Stratigraphy
SE_11	1	697338.4	7346339.1	314.477	438.918	Partially Core - Coal Quality
SE_12	1	696455	7346226.91	319.428	388.945	Partially Core - Coal Quality
SE_13	1	696433.8	7345346.86	325.452	381.945	Partially Core - Coal Quality
SE_14	1	697419.9	7345346.86	330.696	438.547	Non-Core - Stratigraphy
SE_15	1	696513.5	7344469.08	321.548	396.395	Non-Core - Stratigraphy
SE_17	1	696020.3	7345601.33	327.855	361.838	Non-Core - Stratigraphy
SE_18	1	695044.8	7345696.76	312.07	324.703	Partially Core - Coal Quality
SE_19	1	694719.8	7346221.44	297.023	320.887	Partially Core - Coal Quality
SE_20	1	694845	7344892.63	308.814	339.304	Partially Core - Coal Quality
SE_21	1	695808.2	7344721.28	320.183	367.845	Partially Core - Coal Quality
SE_22	1	694132.9	7345479.4	299.982	1000	Non-Core - Stratigraphy
SE_33	1	695564.3	7351867.73	332.73	1000	Non-Core - Stratigraphy
SE_41	1	694737.3	7344106.31	334.094	384.09	Non-Core - Stratigraphy
SE_42	1	694069.3	7344731.89	310.247	346.077	Partially Core - Coal Quality
SE_63	1	689457	7338444.29	263.236	1000	Partially Core - Coal Quality
SE_73	1	695472.6	7344169.63	324.118	324.1	Non-Core - Stratigraphy

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North Stage 2

North Stage 2 consists of fifteen (15) boreholes (***Table 4***): nine (9) Partially Cored – Coal Quality boreholes and six (6) Non-Core Boreholes (Stratigraphy), ***Figure 8***. North Stage 2 concentrates on the northern section of the project area, this area is restricted by Sirius Creek Mining Lease; the planned boreholes aim to identify correlation between the historical holes.

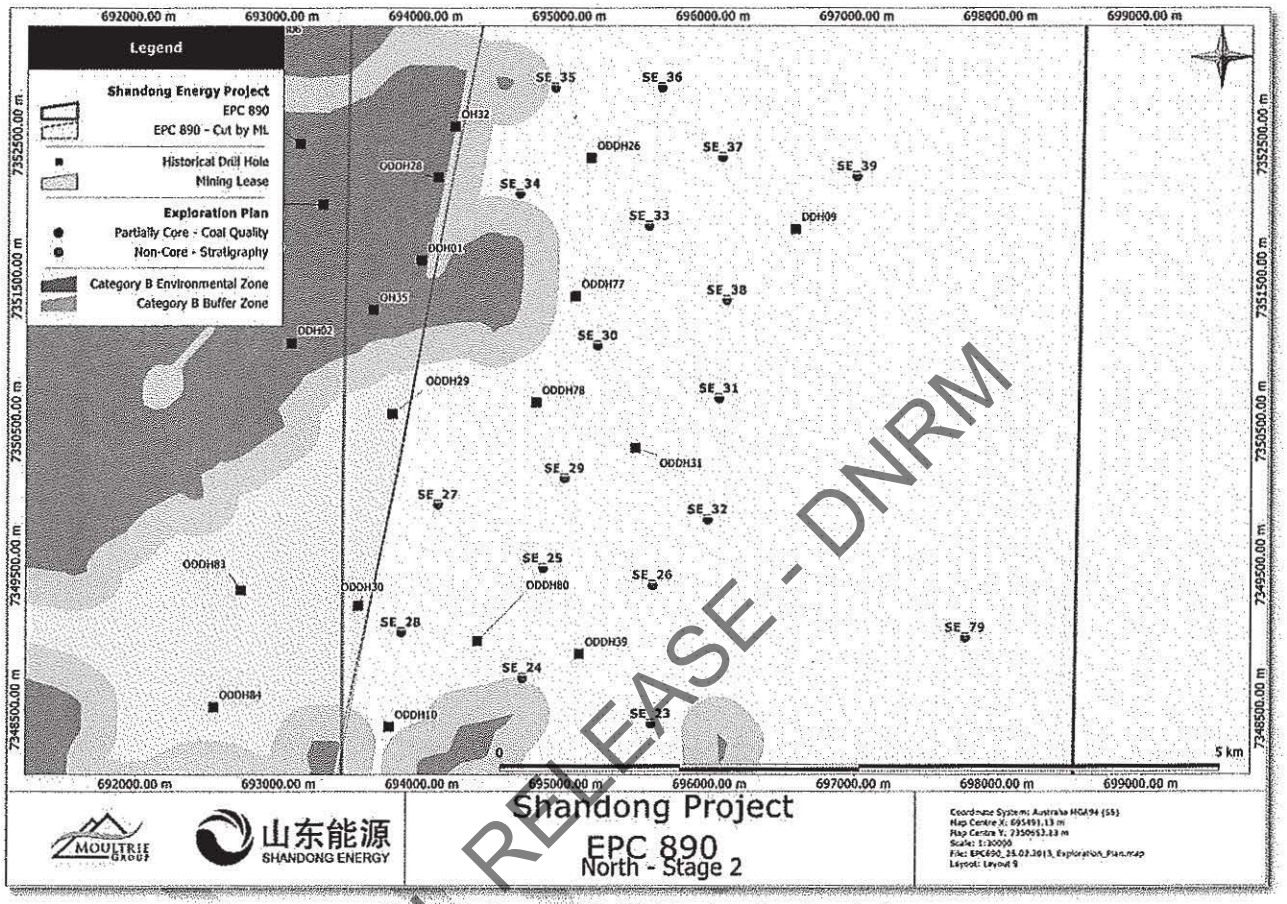


Figure 8 - Proposed Initial Exploration Boreholes
Source: Queensland Department of Natural Resources and Mines, 2013

Table 4 - North Stage 2 Borehole Collar

Hole ID	Stage	Easting	Northing	Elevation (RL)	Total Depth (m)	Hole Type
SE_23	2	695585.6	7348400.54	331.242	462.519	Partially Core - Coal Quality
SE_24	2	694690.9	7348719.52	346.341	423.322	Non-Core - Stratigraphy
SE_25	2	694832.7	7349482.05	370.257	456.026	Partially Core - Coal Quality
SE_26	2	695596.2	7349365.41	351.052	494.239	Non-Core - Stratigraphy
SE_27	2	694100.6	7349924.42	349.503	383.65	Non-Core - Stratigraphy
SE_28	2	693845.7	7349036.83	359.082	365.988	Partially Core - Coal Quality
SE_29	2	694981.2	7350107.62	365.192	460.445	Non-Core - Stratigraphy
SE_30	2	695209.2	7351032.22	347.6	396.816	Partially Core - Coal Quality
SE_31	2	696053.9	7350663.74	363.338	515.688	Partially Core - Coal Quality
SE_32	2	695977.9	7349821.34	363.949	534.179	Partially Core - Coal Quality
SE_34	2	694663.1	7352090.39	315.113	316.811	Partially Core - Coal Quality
SE_35	2	694907	7352832.6	354.398	385.617	Non-Core - Stratigraphy
SE_36	2	695649.2	7352832.6	335.806	456.917	Partially Core - Coal Quality
SE_37	2	696073.3	7352344.86	325.738	489.838	Partially Core - Coal Quality
SE_38	2	696105.1	7351348.18	358.657	514.951	Non-Core - Stratigraphy

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Southern Zone

The shallowest seam of the Rangal coal measures (Aries) within the EPC occurs at around 153m depth in the south west of the project area. In 2005 HML Coal (Australia) Pty. Ltd. carried out an 8 hole exploration programme, in 2007 a further 12 boreholes were drilled (7 stratigraphic boreholes and 5 core boreholes).

The southern section (*South Stage 1*) has been deemed a secondary target due to thinning out of the Pollux seam in this area, however historical exploration has identified positive results from the Aries and Castor seams within the area. When there is no seam splitting the Aries seam has thickness ranging from 2.6-3.22m in this area, however the Aries seam does seem to split (Aries Upper and Aries Lower) towards the east of the project area. Castor seam thickness ranges from 0.91-1.3m. The underlying Pisces seam is has also been identified in this area, a depths ranging from 203-354m.

In the 2007 drilling results possible faulting was identified running northwest-south east through the southern zone. The exploration design will assist in determining the location of the fault.

The Southern Section has been split into two Stages: 1 and 2.

South Stage 1

South Stage 1 consists of twenty-three (23) boreholes (***Table 5***): sixteen (16) Partially Cored – Coal Quality boreholes and seven (7) Non-Core Borehole (Stratigraphy), ***Figure 9***. The majority of the boreholes planned in this area are partially cored Coal quality holes; this is due to the abundance of geophysical stratigraphy boreholes drilled by Rocklands Richfields in the past. The Partially Cored – Coal Quality Boreholes will prove correlation between boreholes using coal quality data. The Exploration Design will also assist in identifying possible faulting in the Southern Zone.

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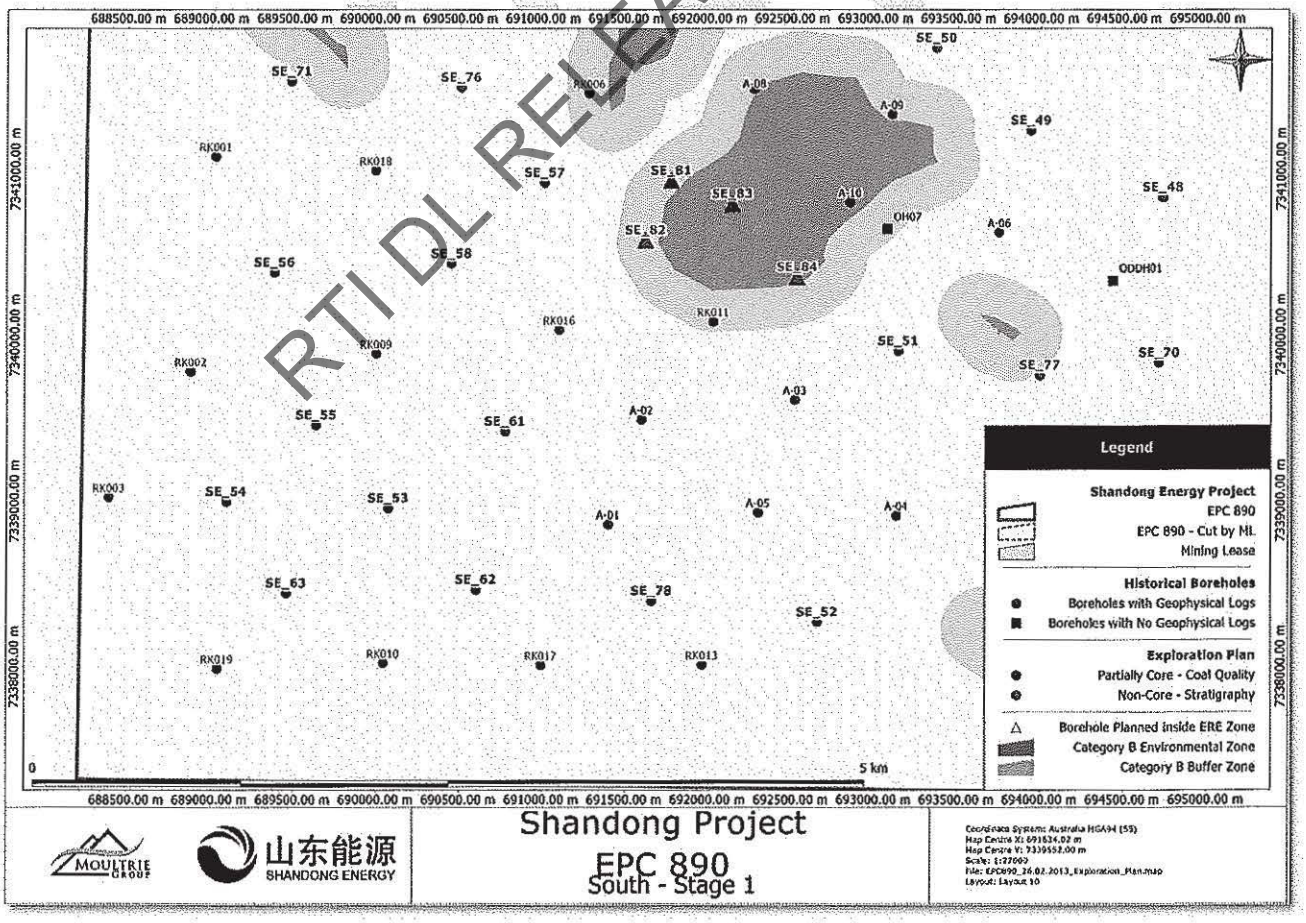


Figure 9 - South Stage 1 Borehole Location Map
Source: Queensland Department of Natural Resources and Mines, 2013

Table 5 - South Stage 1 Borehole Collar

Hole ID	Stage	Easting	Northing	Elevation (RL)	Total Depth (m)	Hole Type
SE_16	1	697430.5	7344424.4	328.967	444.467	Non-Core - Stratigraphy
SE_39	1	697006.4	7352212.33	344.64	598.275	Non-Core - Stratigraphy
SE_47	1	693838	7342249.79	388.896	476.136	Partially Core - Coal Quality
SE_48	1	694737.3	7340829.97	313.243	442.076	Non-Core - Stratigraphy
SE_49	1	693942.1	7341232.88	311.655	415.014	Partially Core - Coal Quality
SE_51	1	693142.8	7339904.79	288.766	415.095	Partially Core - Coal Quality
SE_52	1	692655.9	7338269.15	283.12	430.901	Partially Core - Coal Quality
SE_53	1	690072.2	7338955.13	271.509	294.517	Partially Core - Coal Quality
SE_54	1	689096.5	7338995.64	266.772	243.094	Partially Core - Coal Quality
SE_55	1	689637.3	7339456.88	271.667	270.334	Partially Core - Coal Quality
SE_56	1	689382.4	7340378.13	280.149	262.504	Partially Core - Coal Quality
SE_57	1	691012.8	7340917.21	291.641	333.913	Partially Core - Coal Quality
SE_58	1	690451.3	7340431.95	283.583	311.35	Partially Core - Coal Quality
SE_61	1	690776.4	7339418.7	276.645	326.208	Partially Core - Coal Quality
SE_62	1	690602.1	7338465.49	268.412	326.65	Partially Core - Coal Quality
SE_70	1	694716.1	7339833.28	310.678	469.434	Partially Core - Coal Quality
SE_77	1	693998	7339757.65	300.361	446.083	Non-Core - Stratigraphy
SE_78	1	691662.1	7338397.68	271.974	379.415	Partially Core - Coal Quality
SE_79	1	697769.8	7348999.61	354.768	606.055	Non-Core - Stratigraphy
SE_81	1	691774.7	7340930.6	294.108	363.202	Partially Core - Coal Quality
SE_82	1	691620.9	7340572.7	289.766	359.71	Non-Core - Stratigraphy
SE_83	1	692141.8	7340790.6	298.54	380.923	Partially Core - Coal Quality
SE_84	1	692531.8	7340350.1	291.992	393.194	Non-Core - Stratigraphy

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ERE Zone Drilling

As requested by Shandong Energy, Moultrie Geology has planned four (4) boreholes within an Endangered Regional Ecosystem (ERE) zone in the Southern zone of the project area. ERE zones are mapped by The Department of Environment and Heritage Protection (DEHP) under the Environmental Protection Act 1994. The presence of ERE zones does not automatically mean that drilling / mining is prohibited in this area, each individual ERE zone will be assessed by the DEHP and will adhere to a hierarchy of control (Queensland Government, 2012c):

1. Avoid Impacts to the ERE;
2. Minimise impacts to the ERE and rehabilitate the ERE; and,
3. Permanent loss of the ERE.

Before any drilling can progress in this area, Shandong Energy will need to receive compliance from the DEHP.

Release

South Stage 2

South Stage 2 consists of twenty (20) boreholes (***Table 6***): ten (10) Partially Cored – Coal Quality boreholes and ten (10) Non-Core Boreholes (Stratigraphy), ***Figure 10.*** The purpose of *South Stage 2* is to identify potential shallow Aries seam to the east and to infill the indicated resource mask between North Stage 1 and South Stage 1. Limited historical exploration within south stage 2 means that additional exploration will have to be carried out in this area to create the resource Mask.

Due to the Category B Environmentally sensitive zones within the tenement, Moultrie Geology recommends that extra caution is undertaken when drilling near these areas. The position of the environmentally sensitive zones also means that there will be small gaps in the resource mask as the points of observation will be beyond the recommendations for an indicated point of observation as per the *Australian Coal Guidelines, 2003.*

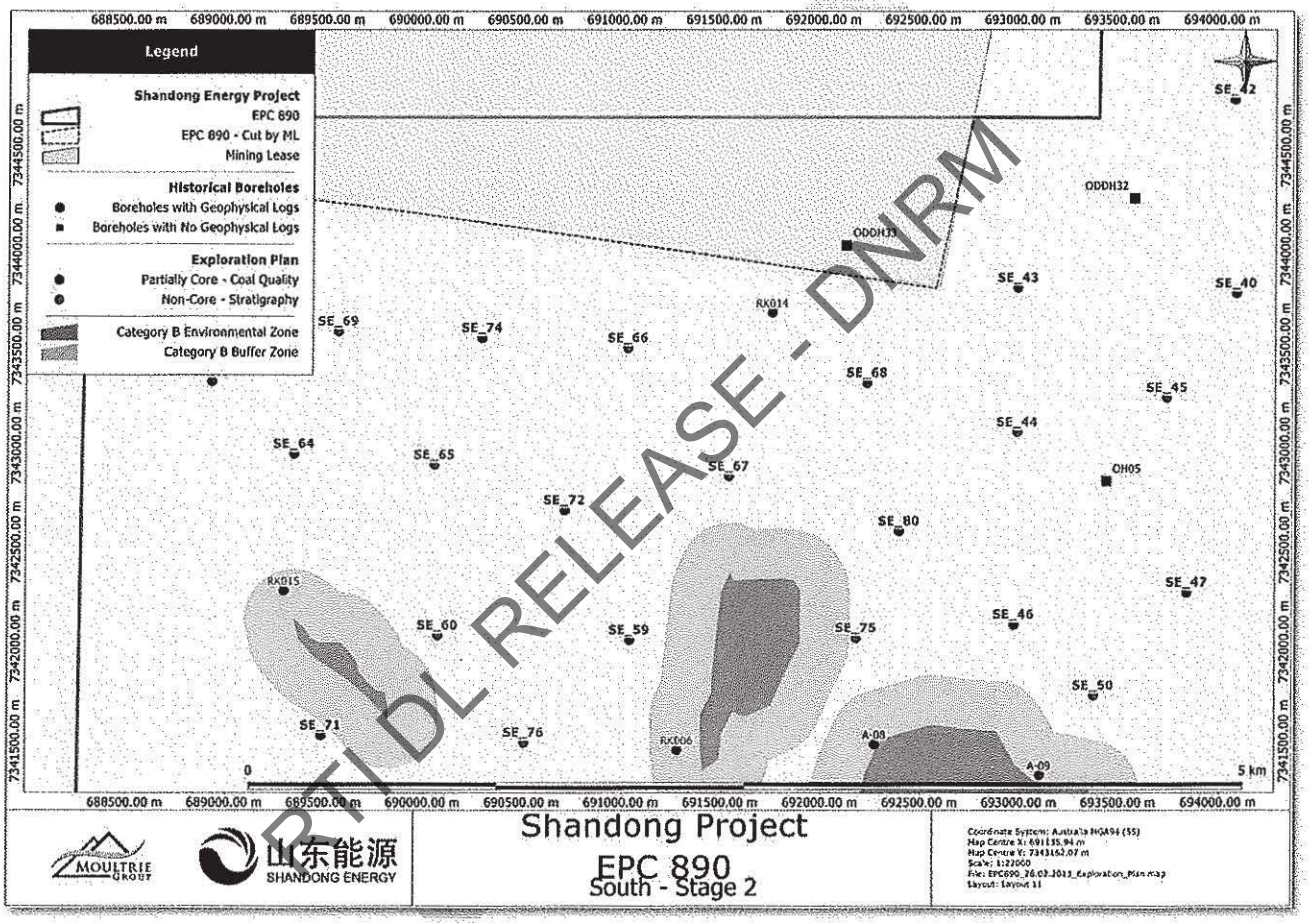


Figure 10 - South Stage 2 Borehole Location Map
Source: Queensland Department of Natural Resources and Mines, 2013

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Table 6 - South Stage 2 Borehole Collar

Hole ID	Stage	Easting	Northing	Elevation (RL)	Total Depth (m)	Hole Type
SE_16	1	697430.5	7344424.4	328.967	444.467	Non-Core - Stratigraphy
SE_39	1	697006.4	7352212.33	344.64	598.275	Non-Core - Stratigraphy
SE_47	1	693838	7342249.79	388.896	476.136	Partially Core - Coal Quality
SE_48	1	694737.3	7340829.97	313.243	442.076	Non-Core - Stratigraphy
SE_49	1	693942.1	7341232.88	311.655	415.014	Partially Core - Coal Quality
SE_51	1	693142.8	7339904.79	288.766	415.095	Partially Core - Coal Quality
SE_52	1	692655.9	7338269.15	283.12	430.901	Partially Core - Coal Quality
SE_53	1	690072.2	7338955.13	271.509	294.517	Partially Core - Coal Quality
SE_54	1	689096.5	7338995.64	266.772	243.094	Partially Core - Coal Quality
SE_55	1	689637.3	7339456.88	271.667	270.334	Partially Core - Coal Quality
SE_56	1	689382.4	7340378.13	280.149	262.504	Partially Core - Coal Quality
SE_57	1	691012.8	7340917.21	291.641	333.913	Partially Core - Coal Quality
SE_58	1	690451.3	7340431.95	283.583	311.35	Partially Core - Coal Quality
SE_61	1	690776.4	7339418.7	276.645	326.208	Partially Core - Coal Quality
SE_62	1	690602.1	7338465.49	268.412	326.65	Partially Core - Coal Quality
SE_70	1	694716.1	7339833.28	310.678	469.434	Partially Core - Coal Quality
SE_77	1	693998	7339757.65	300.361	446.083	Non-Core - Stratigraphy
SE_78	1	691662.1	7338397.68	271.974	379.415	Partially Core - Coal Quality
SE_79	1	697769.8	7348999.61	354.768	606.055	Non-Core - Stratigraphy

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Aries Seam

Predicted seam depths and thicknesses for the Aries Seam (ARS) and Aries Seam Upper (ARSU) are shown in ***Table 7***. A contour map for the top of the Aries Seam is shown in ***Figure 11***.

Table 7 - Aries Seam predicted Seam Depth and Thickness

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_01	376.30	380.52	4.21	ARS
SE_02	403.27	403.64	0.37	ARS
SE_03	358.68	360.00	1.32	ARS
SE_04	320.48	324.49	4.02	ARS
SE_05	361.90	365.69	3.80	ARS
SE_06	307.96	309.27	1.31	ARS
SE_07	261.61	263.21	1.60	ARS
SE_08	283.43	285.20	1.77	ARS
SE_09	312.92	314.23	1.31	ARS
SE_10	273.14	275.47	2.33	ARS
SE_11	350.42	352.55	2.13	ARS
SE_12	306.24	309.09	2.86	ARS
SE_13	307.73	310.90	3.17	ARS
SE_14	361.10	363.98	2.87	ARS
SE_15	324.10	327.56	3.45	ARS
SE_16	364.80	367.56	2.76	ARS
SE_17	285.89	288.47	2.58	ARS
SE_18	248.95	250.91	1.96	ARS
SE_19	244.43	245.77	1.33	ARS
SE_20	267.24	271.07	3.83	ARS
SE_21	296.31	299.98	3.67	ARS
SE_22	240.11	242.94	2.83	ARS
SE_23	382.93	387.05	4.12	ARS
SE_25	373.21	374.30	1.09	ARS
SE_26	409.18	411.95	2.77	ARS
SE_27	300.98	303.69	2.71	ARS
SE_28	282.25	283.16	0.91	ARS
SE_29	378.52	380.99	2.47	ARS
SE_30	355.26	357.15	1.89	ARS
SE_31	452.00	454.43	2.43	ARS
SE_32	448.14	450.92	2.77	ARS
SE_33	360.45	362.15	1.71	ARS
SE_34	263.00	263.86	0.85	ARS
SE_35	326.47	326.95	0.48	ARS
SE_36	371.74	373.01	1.26	ARS
SE_37	404.63	406.21	1.57	ARS
SE_38	446.74	448.71	1.97	ARS
SE_39	511.06	512.16	1.10	ARS
SE_40	339.30	344.48	5.18	ARS
SE_41	317.01	321.73	4.72	ARS
SE_42	274.95	279.37	4.42	ARS
SE_43	324.35	328.94	4.59	ARS
SE_44	365.09	369.53	4.44	ARS
SE_45	359.16	364.06	4.90	ARS
SE_46	381.53	385.41	3.87	ARS
SE_47	398.01	401.83	3.82	ARS
SE_48	382.39	382.95	0.57	ARS
SE_49	348.41	350.94	2.53	ARS
SE_50	376.58	380.05	3.47	ARS
SE_51	346.98	347.72	0.74	ARSU
SE_52	363.62	364.11	0.49	ARSU
SE_53	223.54	226.70	3.16	ARS
SE_54	175.49	178.71	3.23	ARS
SE_55	199.97	203.24	3.27	ARS
SE_56	194.92	198.32	3.40	ARS
SE_57	259.41	262.22	2.81	ARS
SE_58	236.58	239.72	3.14	ARS
SE_59	301.39	304.37	2.99	ARS
SE_60	287.21	290.29	3.08	ARS
SE_61	253.56	256.75	3.19	ARS
SE_62	256.36	259.47	3.11	ARS
SE_63	190.15	193.21	3.06	ARS
SE_64	211.58	214.53	2.94	ARS
SE_65	246.90	249.80	2.90	ARS
SE_66	268.20	271.03	2.83	ARS
SE_67	336.84	340.08	3.24	ARS
SE_68	331.16	334.83	3.67	ARS
SE_69	214.20	216.96	2.76	ARS
SE_71	262.91	266.21	3.30	ARS
SE_72	292.79	295.75	2.96	ARS
SE_73	311.29	315.44	4.15	ARS
SE_74	233.63	236.36	2.73	ARS
SE_75	336.07	339.70	3.63	ARS
SE_76	266.21	269.24	3.02	ARS
SE_77	385.60	386.74	1.13	ARS
SE_78	313.03	315.95	2.92	ARS
SE_79	501.22	501.40	0.18	ARS
SE_80	358.90	362.77	3.87	ARS
SE_81	288.48	291.08	2.59	ARS
SE_82	285.58	288.29	2.72	ARS
SE_83	306.12	308.86	2.73	ARS
SE_84	320.38	323.63	3.26	ARS

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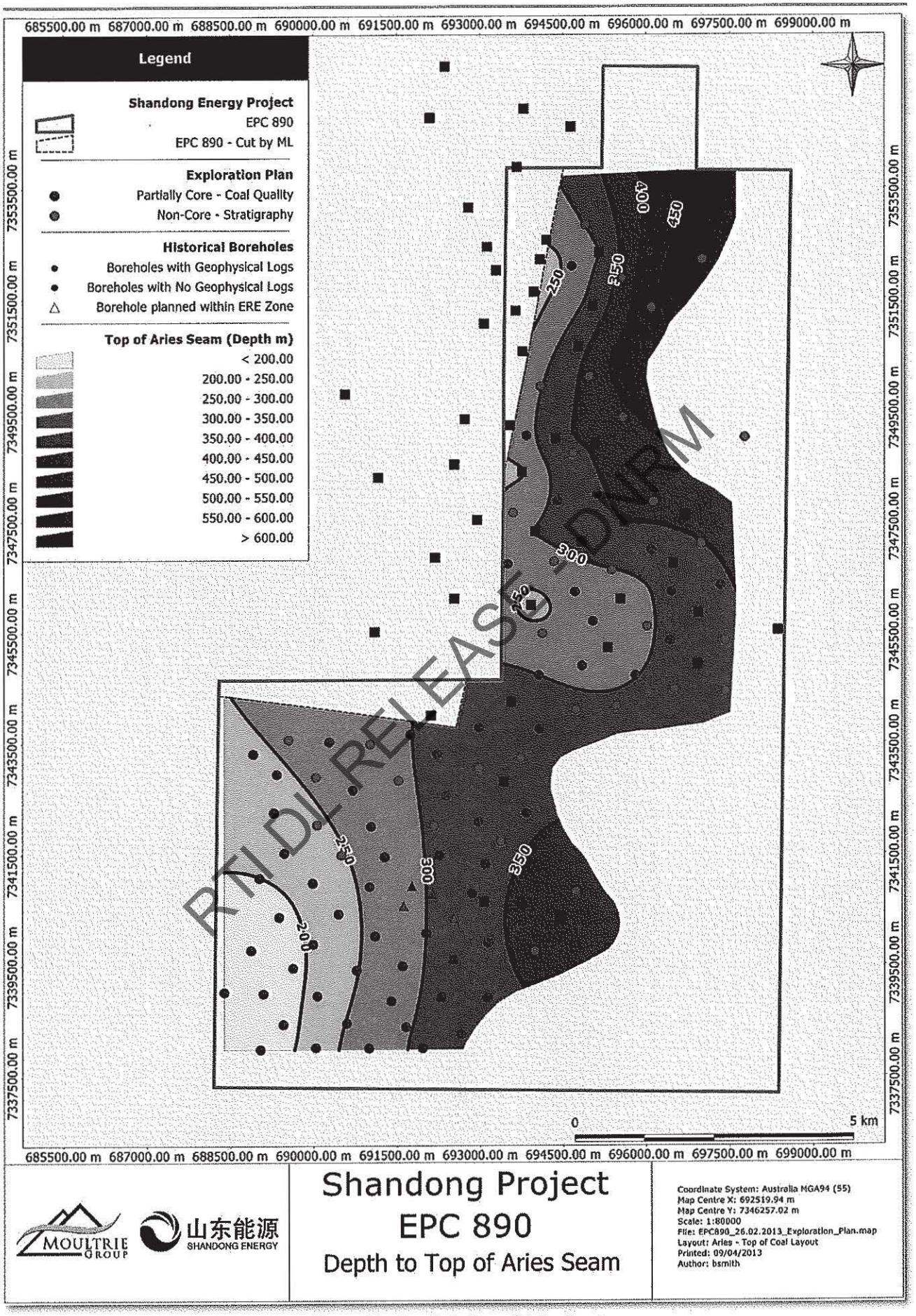


Figure 11 - Depth to Top of Aries Seam

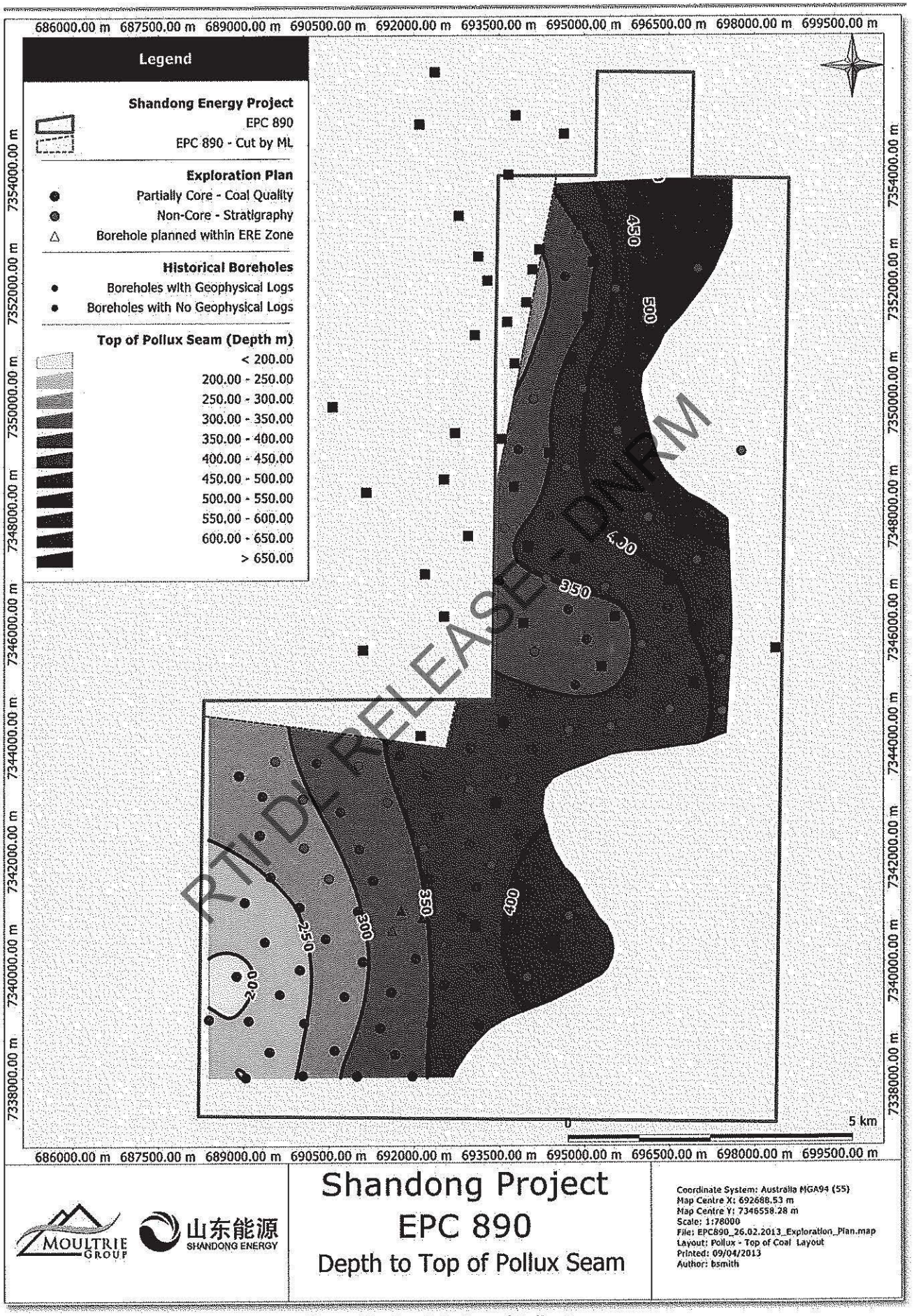
Pollux Seam

Predicted Seam depths and thicknesses for the Pollux Seam (POL) and Pollux Seam Upper (POLU) are shown in ***Table 8.*** A contour map for the top of the Pollux Seam is shown in ***Figure 12***.

Table 8 - Pollux Seam predicted Seam Depth and Thickness

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_01	444.8	450.3	5.4	POL
SE_02	492.8	494.4	1.6	POL
SE_03	443.6	445.5	1.9	POL
SE_04	387.6	393.0	5.4	POL
SE_05	420.6	426.4	5.9	POL
SE_06	371.7	376.1	4.4	POL
SE_07	328.0	332.2	4.3	POL
SE_08	348.0	351.5	3.6	POL
SE_09	377.7	380.9	3.2	POL
SE_10	334.5	339.4	5.0	POL
SE_11	427.2	428.9	1.7	POL
SE_12	375.5	378.9	3.5	POL
SE_13	369.6	371.9	2.4	POL
SE_14	427.1	428.5	1.5	POL
SE_15	384.9	386.4	1.5	POL
SE_16	433.5	434.5	1.0	POL
SE_17	348.9	351.8	2.9	POL
SE_18	312.0	314.7	2.7	POL
SE_19	307.8	310.9	3.1	POL
SE_20	327.0	327.3	0.3	POLU
SE_21	356.2	357.8	1.7	POL
SE_22	302.2	305.2	3.0	POL
SE_23	447.0	452.5	5.5	POL
SE_24	393.1	396.8	3.7	POL
SE_25	412.2	415.8	3.6	POL
SE_26	465.5	469.7	4.2	POL
SE_27	328.0	331.8	3.8	POL
SE_28	331.1	335.2	4.1	POL
SE_29	407.5	411.5	3.9	POL
SE_30	383.3	386.8	3.5	POL
SE_31	501.4	505.7	4.2	POL
SE_32	503.2	507.4	4.2	POL
SE_33	404.4	408.4	3.9	POL
SE_34	303.1	306.8	3.7	POL
SE_35	371.9	375.6	3.7	POL
SE_36	423.6	427.3	3.7	POL
SE_37	462.6	466.4	3.8	POL
SE_38	500.8	505.0	4.2	POL
SE_39	584.9	588.0	3.0	POL
SE_40	390.1	390.2	0.1	POLU
SE_42	332.1	332.6	0.5	POLU
SE_43	381.9	382.8	0.9	POLU
SE_44	413.6	413.9	0.4	POLU
SE_45	408.0	408.1	0.1	POLU
SE_46	423.4	423.5	0.1	POLU
SE_48	431.0	432.1	1.1	POL
SE_49	388.0	388.9	0.9	POL
SE_50	418.9	418.9	0.0	POLU
SE_51	383.3	384.3	1.0	POL
SE_52	399.0	400.3	1.3	POL
SE_53	257.5	259.0	1.4	POL
SE_54	208.9	210.4	1.5	POL
SE_55	233.0	234.4	1.4	POL
SE_56	226.6	228.0	1.4	POL
SE_57	302.3	303.2	0.9	POL
SE_58	272.2	273.4	1.2	POL
SE_59	338.3	338.8	0.5	POL
SE_60	318.0	318.7	0.7	POL
SE_61	285.1	286.4	1.3	POL
SE_62	290.4	291.8	1.4	POL
SE_63	225.9	227.4	1.5	POL
SE_64	238.5	238.6	0.1	POLU
SE_65	274.6	274.6	0.0	POLU
SE_66	300.4	300.5	0.1	POLU
SE_67	371.8	372.2	0.4	POL
SE_68	379.1	381.1	2.0	POL
SE_69	241.5	241.8	0.2	POLU
SE_70	458.3	459.4	1.1	POL
SE_71	293.2	294.3	1.1	POL
SE_72	323.2	323.5	0.3	POL
SE_74	262.6	262.7	0.2	POLU
SE_75	375.1	376.3	1.2	POL
SE_76	303.1	303.9	0.8	POL
SE_77	426.9	427.8	0.9	POL
SE_78	345.5	346.8	1.3	POL
SE_79	594.8	596.1	1.3	POL
SE_80	400.0	401.5	1.6	POL
SE_81	342.8	343.76	0.97	POL
SE_82	331.15	332.19	1.04	POL
SE_83	358.37	359.47	1.10	POL
SE_84	361.53	362.72	1.19	POL

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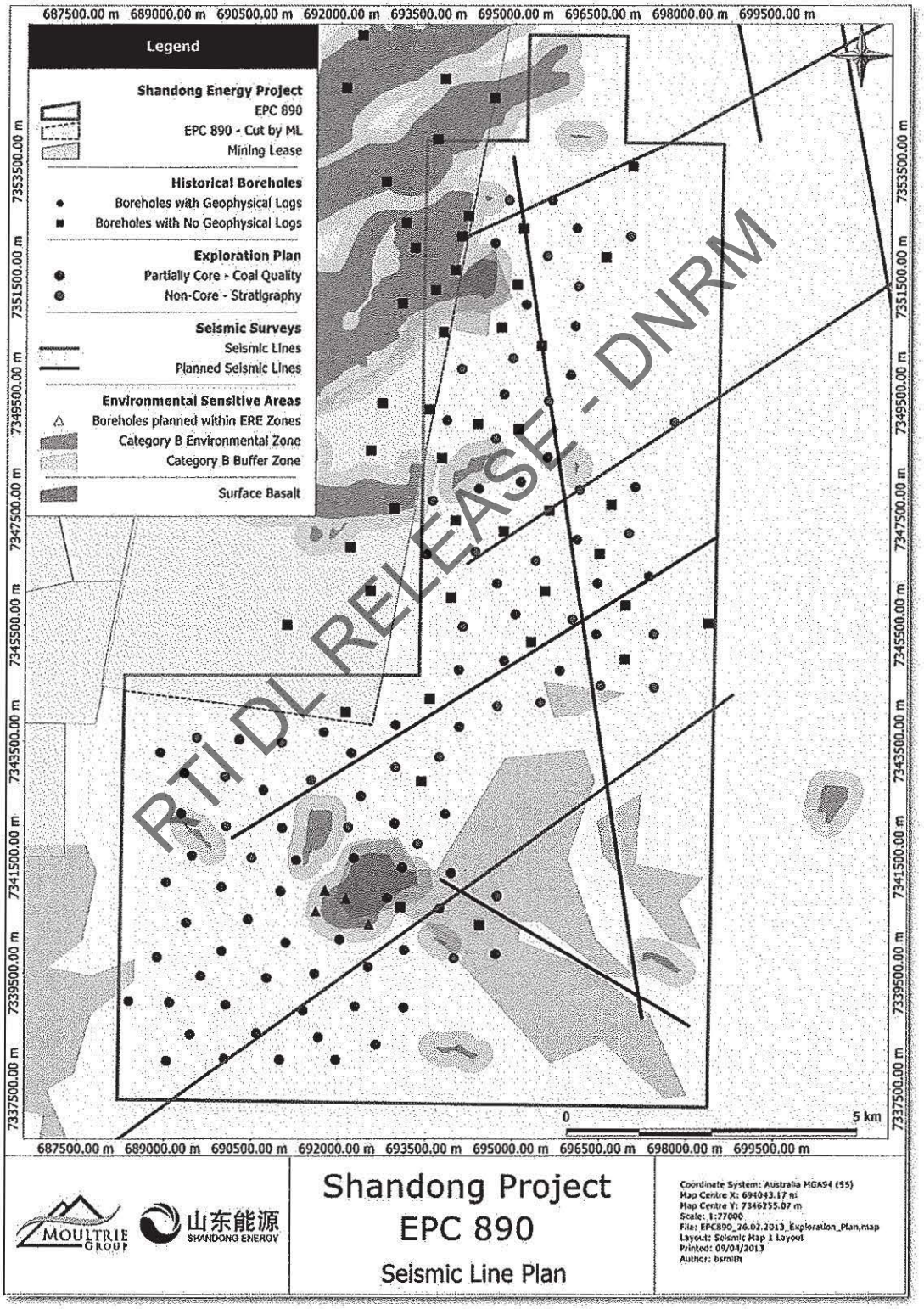
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Figure 12 - Depth to Top of Pollux Seam

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Seismic Plan

Three (3) existing seismic lines traverse the project area. These lines were completed by Austral Geoprospectors Pty Ltd between 1967 and 1968. Analysis of the results of the surveys is not conclusive. Planned boreholes coinciding with new seismic lines would be beneficial to delineate the structure within the tenure (***Figure 13***). Three (3) two-dimensional (2D) seismic lines have been planned within this Exploration Design and if completed will give a better understanding of geological structures, continuity of coal seams and possibly identify coal seams below the basalt cover in the south of the project area.



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Figure 13 - Potential Seismic Lines Locations
Source: Queensland Department of Natural Resources and Mines, 2013

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Geophysical Survey Requirements

All boreholes in this Exploration Design require down-hole geophysical surveying with the standard geophysical tools, to determine the roof and floor of the coal seams and verify and increase the accuracy of field observations:

- Density - long and short density measured on a scale of 1 to 3 gm/cc;
- Gamma - a scale of 0 to 300API;
- Sonic - a scale of 40 to 140μ/ft; and
- Calliper - a scale of 75 to 200mm.
- Resistivity – a scale of 300 to 700 uS/cm

The geophysical logs should be processed on both a 1:100 scale for the entire hole and a 1:20 scale for the detailed analysis of coal seams. Calibration of tools is required and the depth datum to be recorded. A hard copy (.PDF) and digital copy (.LAS) of files should be provided by the geophysical logging company.

Plan Sampling and Laboratory Analysis Requirements

The samples taken during the coring phase of drilling need to be analysed for both raw and clean properties. The data gathered (in particular the geophysical data) would aid in defining seam distributions and frequencies. ***Table 9*** shows Moultrie Geology's recommendations for testing samples, it is recommended that each coal seam is sampled.

Table 9 - Sample Recommendations within EPC 890

Boreholes Test category	Coking coal product
Raw Analysis-	Relative Density
	Moisture Holding Capacity (MHC)
	Proximate Analysis (air-dried moisture, ash %, volatile matter %, fixed carbon %)
	Crucible Swelling Number (CSN)
	Total Sulphur (TS %)
	Gross Calorific Value (kCal/kg)
	Nitrogen (%)
	Chlorine (%)
	Hardgrove Grindability Index (HGI)
	Ash Fusibility Temperatures – Reduction
	Phosphorus (%)
	Ash Analysis
	Trace Element Analysis suite
Washed (Clean) Analysis	Yield (%)
	Sizing Analysis
	Float/Sink Analysis
	Tree Froth Flotation Analysis
Clean Coal Composite Analysis	Crucible Swelling Number (CSN)
	Proximate Analysis (air-dried moisture, ash %, volatile matter %, fixed carbon %)
	Phosphorous (%)
	Relative Density (RD)
	Total Sulphur (TS %)
	Ultimate Analysis (Carbon %, hydrogen %, oxygen %, nitrogen %)
	Ash Analysis
	Trace Element Analysis suite
	Petrographic Analysis (Maceral count)
	Vitrinite Reflectance (RoMax)
	Geisler Fluidity
	Ruhr Dilatometer
Float at RD	1.30; 1.35; 1.40; 1.45; 1.50; 1.55; 1.60; 1.70; 1.80; 2.00

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Conclusion

The purpose of this Exploration Design is to further define the continuity of the Rangal Coal Measures and further the geological knowledge in the project area. The main target seams within the project area are the Aries and Pollux Seam (with the Castor Seam found within the interburden).

The Exploration Design consists of eighty-four (84) boreholes, made up of: thirty-five (35) non-cored boreholes and forty-nine (49) partly cored holes. The Exploration Design is split into two zones (each zone having two stages). The purpose of the Exploration Design is to advance the development of the resource upgrade within the project area and assist in progressing to a Mining Development Lease.

Lack of confidence in the historical data in the northern zone of the project area, means that before the historical boreholes are used as points of observation in the resource mask, correlation between boreholes needs to be proven. The aim of this Exploration Design is to improve the confidence of the historical drill holes by creating a pattern that supplements the historical data and the new Exploration Design. Correlation between boreholes will be assisted by a Geostatistical Report which will identify the extrapolation distance of each borehole.

If seam continuity is confirmed within the drilling pattern (with both seam continuity and coal quality), the Exploration Design is designed to provide sufficient data and confidence to estimate an upgrade to the coal resource in line with the JORC guidelines.

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Appendix 1 – Historic Collars

Hole ID	MGA 94 (55) East	MGA 94 (55) North	RL	TD
DDH01	693981.3	7351627.0	305.74	365.55
DDH02	693076.2	7351052.0	296	261.59
DDH05	695338.6	7359390.0	296.28	429.42
DDH06	690626.9	7358972.0	317	238.41
DDH07	693794.3	7354926.0	346	363.91
DDH09	696579.0	7351844.0	363.79	574.19
DDH10	692538.0	7346099.0	336	371.12
DDH11	692954.5	7347517.0	302	313.02
DDH17	692217.1	7356400.0	360	371.29
HUMBOLDT-1	687331.4	7333489.0	245.33	252.8
MIMBD2	696381.4	7358140.0	302.14	927.38
ODDH01	694435.3	7340329.0	303.46	435.7
ODDH02	692096.6	7354770.0	314	339.58
ODDH06	692790.6	7353157.0	334	326.73
ODDH07	697039.0	7353412.0	336.98	569.05
ODDH08	692372.7	7355690.0	335	372.65
ODDH10	693761.9	7348378.0	316.4	319.23
ODDH11	694007.5	7357354.0	375	376.36
ODDH12	698373.3	7360269.0	292.95	758.88
ODDH13	693929.8	7345983.0	302.33	305.77
ODDH16	691107.2	7345513.0	337	340.03
ODDH18	693132.2	7352440.0	331	306.14
ODDH19	697615.9	7356742.0	322	673.35
ODDH23	699334.2	7388511.0	195	577.19
ODDH25	695764.8	7356552.0	344.42	513.41
ODDH26	695156.1	7352341.0	311.79	348.08
ODDH27	690575.0	7349794.0	365.94	420.88
ODDH28	694093.6	7352207.0	303.6	259.58
ODDH29	693779.0	7350556.0	317.6	290.55
ODDH30	693546.0	7349221.0	352.52	316.1
ODDH31	695473.0	7350319.0	362.94	455.68
ODDH32	693570.1	7344236.0	349.26	399.52
ODDH33	692121.8	7343999.0	323	386.31
ODDH34	695615.6	7347479.0	312	413.59
ODDH35	695312.3	7345217.0	317	337.85
ODDH37	698370.0	7345530.0	338	456
ODDH38	696941.4	7345845.0	328	415.61
ODDH39	695084.2	7348886.0	330	429.2
ODDH74	696488.4	7346728.0	309.3	400.54
ODDH75	696928.8	7344914.0	319	401
ODDH76	696688.3	7347577.0	314.4	454.8
ODDH77	695051.7	7351376.0	336	353.04

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Release

ODDH78	694779.5	7350635.0	354.00	331.16
ODDH79	694003.5	7347310.0	333.00	379.56
ODDH80	694376.1	7348975.0	341.00	423.00
ODDH81	695545.0	7346093.0	342.91	346.88
ODDH82	694836.9	7347121.0	305.10	389.54
ODDH83	692728.7	7349330.0	330.30	290.48
ODDH84	692537.8	7348515.0	339.90	322.73
ODDH85	692195.0	7346845.0	315.00	318.00
OH05	693431.6	7342811.0	381.37	289.63
OH07	693074.0	7340640.0	283.03	289.63
OH10	696740.2	7358568.0	249.15	289.63
OH11	695930.2	7359205.0	290.46	350.61
OH20	693294.2	7352016.0	302.00	283.35
OH21	697489.7	7358795.0	288.55	288.11
OH22	697766.6	7358340.0	298.13	291.16
OH25	694350.8	7359293.0	313.90	294.67
OH26	693981.1	7356508.0	344.00	324.91
OH27	693668.2	7353882.0	325.00	341.90
OH29	694003.5	7358723.0	330.00	329.43
OH32	694208.9	7352560.0	332.78	302.65
OH33	694641.7	7354602.0	351.37	360.61
OH35	693646.8	7351282.0	303.00	272.05
OH49	692932.5	7356963.0	370.00	353.20
OH62	691166.8	7348286.0	287.00	234.33
A-01 (RK021)	691400.0	7338860.0	N/A	N/A
A-02 (RK020)	691600.0	7339490.0	N/A	N/A
A-03 (RK024)	692520.0	7339610.0	N/A	N/A
A-04 (RK023)	693133.0	7338912.0	N/A	N/A
A-05 (RK022	692300.0	7338930.0	N/A	N/A
A-06 (RK025)	693750.0	7340620.0	N/A	N/A
A-07	691970.0	7340840.0	N/A	N/A
A-08 (RK028)	692270.0	7341485.0	N/A	N/A
A-09 (RK027)	693100.0	7341330.0	N/A	N/A
A-10 (RK026)	692850.0	7340800.0	N/A	N/A

RTI DL RELEASE - DNRM

Appendix 2 – Lithology from Historic Boreholes

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
DDH1	0.00	7.62	7.62		SA	DDH11	239.34	241.40	2.06	ARS	CO
DDH1	7.62	44.36	36.74		CL	DDH11	241.40	254.88	13.48		NL
DDH1	44.36	73.48	29.12		SH	DDH11	254.88	255.81	0.93	CASU	CO
DDH1	73.48	99.62	26.14		SS	DDH11	255.81	268.48	12.67		NL
DDH1	99.62	147.33	47.71		SH	DDH11	268.48	268.71	0.23	CASL	CO
DDH1	147.33	157.75	10.42		SS	DDH11	268.71	298.93	30.22		NL
DDH1	157.75	172.94	15.19		SH	DDH11	298.93	303.02	4.09	POL	CO
DDH1	172.94	186.38	13.44		SS	DDH11	303.02	313.02	10.00		NL
DDH1	186.38	219.51	33.13		SH	DDH17	0.00	309.65	309.65		NL
DDH1	219.51	230.77	11.26		SH	DDH17	309.65	311.28	1.63	ARS	CO
DDH1	230.77	231.73	0.97	ARS	CO	DDH17	311.28	356.87	45.59		NL
DDH1	231.73	232.04	0.31		SH	DDH17	356.87	361.29	4.42	POL	CO
DDH1	232.04	236.61	4.57		SH	DDH17	361.29	371.29	10.00		NL
DDH1	236.61	236.84	0.23		CO	DDH2	0.00	168.83	168.83		NL
DDH1	236.84	237.45	0.61		SH	DDH2	168.83	169.91	1.08	ARS	CO
DDH1	237.45	243.95	6.50		SH	DDH2	169.91	211.76	41.85		NL
DDH1	243.95	245.86	1.91	CASU	CO	DDH2	211.76	212.82	1.06	CASU	CO
DDH1	245.86	246.05	0.19		SH	DDH2	212.82	213.41	0.59		NL
DDH1	246.05	246.21	0.16		CO	DDH2	213.41	214.87	1.46	CASL	CO
DDH1	246.21	246.68	0.47		SH	DDH2	214.87	247.50	32.63		NL
DDH1	246.68	246.99	0.31		SS	DDH2	247.50	251.59	4.09	POL	CO
DDH1	246.99	247.38	0.39		SH	DDH2	251.59	261.59	10.00		NL
DDH1	247.38	248.72	1.33	CASL	CO	DDH5	0.00	24.39	24.39		SO
DDH1	248.72	261.36	12.64		SH	DDH5	24.39	52.44	28.05		SS
DDH1	261.36	282.60	21.24		SS	DDH5	52.44	75.46	23.02		SH
DDH1	282.60	283.74	1.14		SH	DDH5	75.46	96.95	21.49		SH
DDH1	283.74	283.80	0.06		SL	DDH5	96.95	124.39	27.44		SH
DDH1	283.80	287.77	3.97	POL	CO	DDH5	124.39	168.50	44.11		SS
DDH1	287.77	287.94	0.16		SH	DDH5	168.50	176.52	8.03		SH
DDH1	287.94	298.58	10.64		SS	DDH5	176.52	202.13	25.61		SS
DDH1	298.58	299.62	1.04		SH	DDH5	202.13	261.59	59.45		SH
DDH1	299.62	305.64	6.02		SS	DDH5	261.59	310.24	48.65		SS
DDH1	305.64	310.73	5.09		SH	DDH5	310.24	310.33	0.09		CO
DDH1	310.73	310.79	0.05	ORN	CO	DDH5	310.33	351.86	41.53		SS
DDH1	310.79	311.23	0.44		SH	DDH5	351.86	352.19	0.33		SH
DDH1	311.23	319.26	8.03		SS	DDH5	352.19	352.71	0.52		CO
DDH1	319.26	321.80	2.54		SH	DDH5	352.71	353.77	1.07	ARS	CO
DDH1	321.80	322.27	0.47		CN	DDH5	353.77	356.71	2.94		SH
DDH1	322.27	323.09	0.82		SH	DDH5	356.71	365.37	8.66		SS
DDH1	323.09	365.55	42.46		SS	DDH5	365.37	380.13	14.76		SH
DDH10	0.00	292.64	292.64		NL	DDH5	380.13	381.05	0.92		SH
DDH10	292.64	294.42	1.78	ARS	CO	DDH5	381.05	382.91	1.87	CASL	CO
DDH10	294.42	310.23	15.81		NL	DDH5	382.91	400.31	17.39		SS
DDH10	310.23	311.09	0.86	CASU	CO	DDH5	400.31	401.07	0.76		SH
DDH10	311.09	323.88	12.79		NL	DDH5	401.07	406.99	5.92		SS
DDH10	323.88	324.34	0.46	CASL	CO	DDH5	406.99	409.30	2.31		CG
DDH10	324.34	356.59	32.25		NL	DDH5	409.30	410.57	1.27		SS
DDH10	356.59	361.12	4.53	POL	CO	DDH5	410.57	418.53	7.96		SH
DDH10	361.12	371.12	10.00		NL	DDH5	418.53	418.64	0.10		SH
DDH11	0.00	239.34	239.34		NL	DDH5	418.64	419.04	0.41	POL	CO

RTIDL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
DDH5	419.04	419.05	0.01		MS	MIMBD2	583.30	609.00	25.70		
DDH5	419.05	421.47	2.42	POL	CO	MIMBD2	609.00	609.10	0.10		
DDH5	421.47	429.42	7.95		SS	MIMBD2	609.10	610.40	1.30	VIRR	CO
DDH6	0.00	148.10	148.10		NL	MIMBD2	610.40	611.80	1.40		
DDH6	148.10	150.49	2.39	ARS	CO	MIMBD2	611.80	613.10	1.30	VIR	CO
DDH6	150.49	154.07	3.58		NL	MIMBD2	613.10	629.50	16.40		
DDH6	154.07	155.49	1.42	CASU	CO	MIMBD2	629.50	631.10	1.60	LEO	CO
DDH6	155.49	158.29	2.80		NL	MIMBD2	631.10	640.10	9.00		
DDH6	158.29	159.72	1.43	CASL	CO	MIMBD2	640.10	642.80	2.70	AQU	CO
DDH6	159.72	176.78	17.06		NL	MIMBD2	642.80	708.00	65.20		
DDH6	176.78	180.23	3.45	POL	CO	MIMBD2	708.00	708.60	0.60		
DDH6	180.23	193.82	13.59		NL	MIMBD2	708.60	710.10	1.50	HER	CO
DDH6	193.82	194.79	0.97	ORN	CO	MIMBD2	710.10	743.90	33.80		
DDH6	194.79	226.62	31.83		NL	MIMBD2	743.90	744.80	0.90	CALE	CO
DDH6	226.62	228.41	1.79	PIS	CO	MIMBD2	744.80	745.20	0.40		
DDH6	228.41	238.41	10.00		NL	MIMBD2	745.20	746.30	1.10	FH	CO
DDH7	0.00	287.99	287.99		NL	MIMBD2	746.30	832.00	85.70		
DDH7	287.99	289.15	1.17	ARS	CO	MIMBD2	832.00	863.00	31.00		
DDH7	289.15	316.16	27.00		NL	ODDH1	0.00	1.52	1.52		SO
DDH7	316.16	319.31	3.15	CASL	CO	ODDH1	1.52	3.66	2.14		BA
DDH7	319.31	348.89	29.58		NL	ODDH1	3.66	32.01	28.35		BA
DDH7	348.89	353.91	5.01	POL	CO	ODDH1	32.01	36.59	4.57		SH
DDH7	353.91	363.91	10.00		NL	ODDH1	36.59	39.63	3.05		SH
DDH9	0.00	46.95	46.95		SO	ODDH1	39.63	51.83	12.20		SH
DDH9	46.95	190.50	143.55		CS	ODDH1	51.83	64.94	13.11		SS
DDH9	190.50	258.79	68.29		CS	ODDH1	64.94	268.29	203.35		SH
DDH9	258.79	268.90	10.11		SS	ODDH1	268.29	291.16	22.87		SH
DDH9	268.90	383.46	114.56		SS	ODDH1	291.16	355.37	64.21		SH
DDH9	383.46	474.57	91.11		SH	ODDH1	355.37	379.04	23.67		SH
DDH9	474.57	498.43	23.86		SS	ODDH1	379.04	382.93	3.89		SH
DDH9	498.43	500.06	1.64	ARS	CO	ODDH1	382.93	382.99	0.06		SH
DDH9	500.06	500.65	0.58		SH	ODDH1	382.99	383.14	0.15	ARS	CO
DDH9	500.65	501.28	0.63	CASU	CO	ODDH1	383.14	383.18	0.04		SH
DDH9	501.28	531.85	30.56		SH	ODDH1	383.18	388.01	4.83		SH
DDH9	531.85	533.23	1.38	CASL	CO	ODDH1	388.01	388.08	0.08		SH
DDH9	533.23	541.92	8.69		SH	ODDH1	388.08	388.39	0.31	CASU	CO
DDH9	541.92	542.38	0.46		TB	ODDH1	388.39	389.93	1.54		SH
DDH9	542.38	555.13	12.75		SH	ODDH1	389.93	390.46	0.53	CASL	CO
DDH9	555.13	569.59	14.46		SS	ODDH1	390.46	392.70	2.24		SH
DDH9	569.59	573.71	4.12	POL	CO	ODDH1	392.70	402.57	9.87		SS
DDH9	573.71	574.19	0.48		SS	ODDH1	402.57	422.41	19.84		SH
MIMBD2	0.00	1.89	1.89		AL	ODDH1	422.41	423.09	0.69		CO
MIMBD2	1.89	6.00	4.11		MS	ODDH1	423.09	431.12	8.03		SH
MIMBD2	6.00	507.00	501.00		SS	ODDH1	431.12	432.14	1.02	POL	CO
MIMBD2	507.00	507.60	0.60			ODDH1	432.14	432.22	0.08		SH
MIMBD2	507.60	508.50	0.90	ARS	CO	ODDH1	432.22	435.70	3.48		SH
MIMBD2	508.50	537.00	28.50			ODDH10	0.00	6.09	6.09		CL
MIMBD2	537.00	539.70	2.70	CASL	CO	ODDH10	6.09	213.36	207.27		SH
MIMBD2	539.70	553.50	13.80			ODDH10	213.36	245.00	31.64		SS
MIMBD2	553.50	556.20	2.70	POL	CO	ODDH10	245.00	245.50	0.50	ARS	CO
MIMBD2	556.20	581.80	25.60			ODDH10	245.50	248.77	3.27		CL
MIMBD2	581.80	583.30	1.50	PIS	CO	ODDH10	248.77	248.91	0.14		MS

RTIDL RELEASE - DWRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH10	248.91	249.69	0.78		SH	ODDH12	735.22	739.47	4.25		SH
ODDH10	249.69	249.84	0.15		SS	ODDH12	739.47	742.02	2.55		SS
ODDH10	249.84	249.98	0.14		SL	ODDH12	742.02	743.37	1.36		SH
ODDH10	249.98	259.00	9.02		SS	ODDH12	743.37	745.95	2.58		SS
ODDH10	259.00	259.06	0.06		CB	ODDH12	745.95	746.42	0.47		SH
ODDH10	259.06	264.60	5.54		SS	ODDH12	746.42	746.66	0.24		CB
ODDH10	264.60	265.73	1.13	CASL	CO	ODDH12	746.66	747.43	0.76		SH
ODDH10	265.73	266.28	0.55		CB	ODDH12	747.43	747.64	0.22		CB
ODDH10	266.28	269.33	3.05		SS	ODDH12	747.64	747.66	0.01		CS
ODDH10	269.33	273.68	4.35		SH	ODDH12	747.66	747.93	0.27		CB
ODDH10	273.68	275.00	1.32		SH	ODDH12	747.93	750.37	2.45		SH
ODDH10	275.00	276.15	1.15		SH	ODDH12	750.37	751.07	0.70		SH
ODDH10	276.15	276.80	0.65		CB	ODDH12	751.07	751.89	0.82		SS
ODDH10	276.80	276.94	0.14		SH	ODDH12	751.89	754.48	2.59		SH
ODDH10	276.94	278.84	1.90		SS	ODDH12	754.48	754.53	0.05		SS
ODDH10	278.84	279.29	0.45		SH	ODDH12	754.53	754.68	0.15		SH
ODDH10	279.29	282.39	3.10		SH	ODDH12	754.68	754.70	0.02		SS
ODDH10	282.39	282.99	0.60		SS	ODDH12	754.70	754.88	0.18		SH
ODDH10	282.99	285.73	2.74		SS	ODDH12	754.88	754.92	0.04		SS
ODDH10	285.73	286.40	0.67		CB	ODDH12	754.92	755.05	0.13		SH
ODDH10	286.40	286.80	0.40		TS	ODDH12	755.05	755.36	0.31		CB
ODDH10	286.80	289.04	2.24		SH	ODDH12	755.36	756.93	1.56	POL	CO
ODDH10	289.04	300.60	11.56		SL	ODDH12	756.93	756.67	-0.26		SL
ODDH10	300.60	306.80	6.20		SS	ODDH12	756.67	756.93	0.26		CO
ODDH10	306.80	308.27	1.47		SL	ODDH12	756.93	758.88	1.96		SL
ODDH10	308.27	309.03	0.76		SH	ODDH13	0.00	1.50	1.50		CL
ODDH10	309.03	313.54	4.51		SH	ODDH13	1.50	14.00	12.50		SH
ODDH10	313.54	317.84	4.29	POL	CO	ODDH13	14.00	18.00	4.00		SS
ODDH10	317.84	319.23	1.40		SH	ODDH13	18.00	52.00	34.00		SS
ODDH11	0.00	313.92	313.92		NL	ODDH13	52.00	107.00	55.00		SH
ODDH11	313.92	315.54	1.63	ARS	CO	ODDH13	107.00	230.05	123.05		SH
ODDH11	315.54	328.55	13.01		NL	ODDH13	230.05	234.70	4.65		SH
ODDH11	328.55	330.33	1.78	CASL	CO	ODDH13	234.70	236.71	2.01	ARS	CO
ODDH11	330.33	362.02	31.69		NL	ODDH13	236.71	238.23	1.52		SH
ODDH11	362.02	366.36	4.34	POL	CO	ODDH13	238.23	241.81	3.58		SH
ODDH11	366.36	376.36	10.00		NL	ODDH13	241.81	242.08	0.27		MS
ODDH12	0.00	15.00	15.00		CL	ODDH13	242.08	247.00	4.92		SS
ODDH12	15.00	300.00	285.00		SL	ODDH13	247.00	248.85	1.85		SH
ODDH12	300.00	400.00	100.00		SS	ODDH13	248.85	249.14	0.28		SS
ODDH12	400.00	535.66	135.66		SL	ODDH13	249.14	249.47	0.34		SH
ODDH12	535.66	724.80	189.14		SL	ODDH13	249.47	250.10	0.63	CASU	CO
ODDH12	724.80	726.12	1.32		SS	ODDH13	250.10	250.27	0.18		CB
ODDH12	726.12	727.82	1.70		SL	ODDH13	250.27	250.87	0.60		MS
ODDH12	727.82	731.53	3.71		SH	ODDH13	250.87	250.95	0.08		CB
ODDH12	731.53	731.72	0.19		CB	ODDH13	250.95	251.21	0.26	CASL	CO
ODDH12	731.72	731.91	0.19		TB	ODDH13	251.21	251.32	0.11	CASL	XM
ODDH12	731.91	733.15	1.24		SS	ODDH13	251.32	251.42	0.10	CASL	CB
ODDH12	733.15	733.65	0.50		SH	ODDH13	251.42	251.51	0.09	CASL	CO
ODDH12	733.65	733.68	0.03	UNK	CO	ODDH13	251.51	251.59	0.08	CASL	CB
ODDH12	733.68	733.87	0.19		SH	ODDH13	251.59	251.94	0.35		SH
ODDH12	733.87	735.17	1.30		SH	ODDH13	251.94	252.33	0.40		SS
ODDH12	735.17	735.22	0.05	UNK	CO	ODDH13	252.33	252.81	0.48		SH

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Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH13	252.81	254.96	2.15		SS	ODDH18	264.69	264.88	0.19		SS
ODDH13	254.96	258.98	4.02		SS	ODDH18	264.88	265.68	0.80		SS
ODDH13	258.98	259.15	0.17		CO	ODDH18	265.68	267.37	1.69		SH
ODDH13	259.15	260.40	1.25		SS	ODDH18	267.37	271.69	4.33		SH
ODDH13	260.40	263.45	3.05		SH	ODDH18	271.69	273.48	1.79		SH
ODDH13	263.45	263.65	0.20		MS	ODDH18	273.48	275.09	1.61		SS
ODDH13	263.65	264.75	1.10		SH	ODDH18	275.09	275.86	0.77		SH
ODDH13	264.75	265.44	0.69		SH	ODDH18	275.86	277.29	1.43		FB
ODDH13	265.44	270.50	5.07		SS	ODDH18	277.29	281.61	4.31		CB
ODDH13	270.50	273.41	2.91		SS	ODDH18	281.61	283.12	1.52		SH
ODDH13	273.41	274.54	1.13		SH	ODDH18	283.12	283.14	0.02		CO
ODDH13	274.54	283.29	8.75		SS	ODDH18	283.14	287.83	4.69		SS
ODDH13	283.29	298.68	15.40		SH	ODDH18	287.83	288.63	0.80		SH
ODDH13	298.68	298.71	0.02		CB	ODDH18	288.63	292.28	3.65		SS
ODDH13	298.71	301.40	2.69	POL	CO	ODDH18	292.28	296.56	4.29		SH
ODDH13	301.40	301.43	0.03		CB	ODDH18	296.56	297.46	0.89		SH
ODDH13	301.43	301.62	0.19		MS	ODDH18	297.46	297.99	0.53		CB
ODDH13	301.62	301.82	0.20		MS	ODDH18	297.99	302.85	4.85	POL	CO
ODDH13	301.82	301.92	0.10		CO	ODDH18	302.85	303.02	0.17		SH
ODDH13	301.92	301.94	0.02		CB	ODDH18	303.02	303.23	0.21		SH
ODDH13	301.94	301.98	0.04		CB	ODDH18	303.23	306.14	2.91		SS
ODDH13	301.98	305.77	3.79		SS	ODDH19	0.00	641.69	641.69		NL
ODDH16	0.00	283.01	283.01		NL	ODDH19	641.69	642.53	0.84	ARS	CO
ODDH16	283.01	285.21	2.20	ARS	CO	ODDH19	642.53	673.35	30.82		NL
ODDH16	285.21	289.00	3.79		NL	ODDH2	0.00	279.99	279.99		NL
ODDH16	289.00	290.02	1.02	CASL	CO	ODDH2	279.99	281.49	1.50	ARS	CO
ODDH16	290.02	324.94	34.92		NL	ODDH2	281.49	295.62	14.13		NL
ODDH16	324.94	326.73	1.79	POLR	CO	ODDH2	295.62	298.40	2.78	CASL	CO
ODDH16	326.73	328.75	2.02		NL	ODDH2	298.40	325.91	27.51		NL
ODDH16	328.75	330.03	1.28	POL	CO	ODDH2	325.91	329.58	3.67	POL	CO
ODDH16	330.03	340.03	10.00		NL	ODDH2	329.58	339.58	10.00		NL
ODDH18	0.00	230.18	230.18		SS	ODDH23	0.00	523.56	523.56		NL
ODDH18	230.18	231.58	1.40		SS	ODDH23	523.56	526.21	2.65	ARS	CO
ODDH18	231.58	232.76	1.18	ARS	CO	ODDH23	526.21	526.46	0.25		SH
ODDH18	232.76	233.63	0.86		SH	ODDH23	526.46	526.91	0.45		SH
ODDH18	233.63	237.37	3.75		CB	ODDH23	526.91	526.93	0.02		SS
ODDH18	237.37	237.60	0.22		CO	ODDH23	526.93	527.09	0.16		SH
ODDH18	237.60	241.36	3.77		SS	ODDH23	527.09	527.24	0.15		SS
ODDH18	241.36	244.78	3.42		SS	ODDH23	527.24	527.36	0.12		SH
ODDH18	244.78	244.96	0.18		SL	ODDH23	527.36	528.20	0.84		SS
ODDH18	244.96	258.36	13.40		SS	ODDH23	528.20	529.49	1.29		SS
ODDH18	258.36	258.56	0.20		SS	ODDH23	529.49	529.55	0.06		SH
ODDH18	258.56	260.42	1.85	CASU	CO	ODDH23	529.55	530.17	0.62		SS
ODDH18	260.42	260.75	0.33		CB	ODDH23	530.17	531.93	1.76		SS
ODDH18	260.75	261.60	0.86		SS	ODDH23	531.93	532.03	0.10		SH
ODDH18	261.60	262.16	0.56		SH	ODDH23	532.03	533.24	1.21		SH
ODDH18	262.16	262.33	0.16		SS	ODDH23	533.24	534.14	0.90		SH
ODDH18	262.33	262.50	0.17		SS	ODDH23	534.14	534.82	0.68		SH
ODDH18	262.50	262.79	0.29		SS	ODDH23	534.82	535.94	1.12		SH
ODDH18	262.79	262.83	0.04		CB	ODDH23	535.94	536.30	0.36		SH
ODDH18	262.83	264.33	1.50	CASL	CO	ODDH23	536.30	536.57	0.27		SH
ODDH18	264.33	264.69	0.36		SH	ODDH23	536.57	537.03	0.46		CB

RTIDL RELEASE - DRAW

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH23	537.03	537.18	0.15		SH	ODDH25	441.27	441.46	0.19		CG
ODDH23	537.18	540.21	3.03		SH	ODDH25	441.46	441.68	0.22		SL
ODDH23	540.21	540.73	0.52		SS	ODDH25	441.68	442.01	0.33		CG
ODDH23	540.73	540.83	0.10		IS	ODDH25	442.01	442.20	0.19		SS
ODDH23	540.83	541.02	0.19		SS	ODDH25	442.20	442.34	0.14		CG
ODDH23	541.02	541.09	0.07		SL	ODDH25	442.34	453.01	10.67		SS
ODDH23	541.09	541.30	0.21		CB	ODDH25	453.01	453.39	0.38		CB
ODDH23	541.30	541.33	0.03		CB	ODDH25	453.39	453.76	0.37		MS
ODDH23	541.33	541.58	0.25	CASUR	CO	ODDH25	453.76	457.27	3.51		SL
ODDH23	541.58	542.05	0.47		CB	ODDH25	457.27	458.79	1.52		MS
ODDH23	542.05	542.07	0.02		MS	ODDH25	458.79	459.01	0.22		CB
ODDH23	542.07	542.75	0.68	CASU	CO	ODDH25	459.01	459.16	0.15		SH
ODDH23	542.75	542.86	0.11		SH	ODDH25	459.16	460.63	1.47		SH
ODDH23	542.86	543.13	0.27		SL	ODDH25	460.63	461.85	1.22		SL
ODDH23	543.13	546.29	3.16		SL	ODDH25	461.85	462.46	0.61		SH
ODDH23	546.29	546.34	0.05		SL	ODDH25	462.46	466.31	3.85		SH
ODDH23	546.34	547.12	0.78	CASL	CO	ODDH25	466.31	466.72	0.41		SS
ODDH23	547.12	547.33	0.21		SH	ODDH25	466.72	469.77	3.05		SH
ODDH23	547.33	547.54	0.21		SL	ODDH25	469.77	470.40	0.63		CB
ODDH23	547.54	548.14	0.60		SH	ODDH25	470.40	472.90	2.50	CASL	CO
ODDH23	548.14	552.28	4.14		SH	ODDH25	472.90	472.96	0.06		SL
ODDH23	552.28	552.82	0.54		SS	ODDH25	472.96	473.59	0.63		SS
ODDH23	552.82	555.70	2.88		SH	ODDH25	473.59	477.46	3.87		SS
ODDH23	555.70	555.95	0.25		SL	ODDH25	477.46	478.01	0.55		SL
ODDH23	555.95	559.09	3.14		SS	ODDH25	478.01	478.16	0.15		SL
ODDH23	559.09	562.30	3.21		SL	ODDH25	478.16	478.40	0.24		SL
ODDH23	562.30	562.73	0.43		SS	ODDH25	478.40	479.74	1.33		SS
ODDH23	562.73	566.60	3.87		SH	ODDH25	479.74	483.46	3.72		SH
ODDH23	566.60	566.88	0.28		CB	ODDH25	483.46	486.13	2.67		SH
ODDH23	566.88	567.55	0.67		SL	ODDH25	486.13	490.42	4.29		SS
ODDH23	567.55	567.74	0.19		CB	ODDH25	490.42	490.56	0.14		SL
ODDH23	567.74	567.99	0.25		SL	ODDH25	490.56	495.99	5.43		SS
ODDH23	567.99	568.39	0.40		CB	ODDH25	495.99	496.55	0.56		SL
ODDH23	568.39	571.79	3.40	POL	CO	ODDH25	496.55	498.16	1.61		SL
ODDH23	571.79	571.81	0.02	POL	CB	ODDH25	498.16	504.85	6.69		SS
ODDH23	571.81	572.37	0.56	POL	CO	ODDH25	504.85	505.26	0.41		SL
ODDH23	572.37	572.74	0.38		CB	ODDH25	505.26	506.43	1.17		CB
ODDH23	572.74	572.79	0.05		ZH	ODDH25	506.43	508.93	2.50	POL	CO
ODDH23	572.79	572.85	0.06		CB	ODDH25	508.93	509.09	0.16	POL	SH
ODDH23	572.85	573.29	0.44		SL	ODDH25	509.09	511.57	2.48	POL	CO
ODDH23	573.29	573.77	0.48		SS	ODDH25	511.57	511.92	0.34		SL
ODDH23	573.77	575.30	1.53		SL	ODDH25	511.92	513.42	1.50		SS
ODDH23	575.30	576.46	1.16		SS	ODDH26	0.00	18.29	18.29		CL
ODDH23	576.46	577.19	0.73		SL	ODDH26	18.29	51.83	33.54		SH
ODDH25	0.00	103.66	103.66		CL	ODDH26	51.83	146.34	94.51		SH
ODDH25	103.66	435.37	331.71		SH	ODDH26	146.34	265.24	118.90		SH
ODDH25	435.37	436.28	0.91	ARS	CO	ODDH26	265.24	286.59	21.34		SH
ODDH25	436.28	436.80	0.52		SH	ODDH26	286.59	298.65	12.07		SH
ODDH25	436.80	437.28	0.48		MS	ODDH26	298.65	300.28	1.63	ARS	CO
ODDH25	437.28	437.98	0.70		SS	ODDH26	300.28	300.69	0.41		SH
ODDH25	437.98	439.42	1.44		SS	ODDH26	300.69	300.73	0.04		CS
ODDH25	439.42	441.27	1.86		SS	ODDH26	300.73	305.08	4.35		SS

RTDL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH26	305.08	308.28	3.20		SL	ODDH27	365.30	367.10	1.80		SL
ODDH26	308.28	311.42	3.14		SH	ODDH27	367.10	368.01	0.91		CB
ODDH26	311.42	311.51	0.09		CB	ODDH27	368.01	368.93	0.92		SL
ODDH26	311.51	313.89	2.38	CASU	CO	ODDH27	368.93	369.59	0.66		CB
ODDH26	313.89	313.97	0.09		CB	ODDH27	369.59	369.77	0.18		SH
ODDH26	313.97	316.82	2.85		SL	ODDH27	369.77	373.09	3.33		SS
ODDH26	316.82	317.47	0.65	CASL	CO	ODDH27	373.09	373.86	0.76		SS
ODDH26	317.47	317.66	0.19		SH	ODDH27	373.86	373.98	0.13		SH
ODDH26	317.66	318.80	1.14		SL	ODDH27	373.98	375.15	1.17	CASL	CO
ODDH26	318.80	320.33	1.52		SS	ODDH27	375.15	376.68	1.53		SH
ODDH26	320.33	322.61	2.29		SL	ODDH27	376.68	379.09	2.41		SL
ODDH26	322.61	323.32	0.71		SS	ODDH27	379.09	380.84	1.75		SH
ODDH26	323.32	323.83	0.51		CB	ODDH27	380.84	384.60	3.76		SL
ODDH26	323.83	324.03	0.20		CB	ODDH27	384.60	385.16	0.56		SH
ODDH26	324.03	324.20	0.17		CB	ODDH27	385.16	399.85	14.69		SL
ODDH26	324.20	324.40	0.20		SL	ODDH27	399.85	400.15	0.30		SS
ODDH26	324.40	324.56	0.15		CB	ODDH27	400.15	400.61	0.46		SH
ODDH26	324.56	324.80	0.24		SL	ODDH27	400.61	403.61	3.00		SS
ODDH26	324.80	325.20	0.41		TB	ODDH27	403.61	403.65	0.04		SL
ODDH26	325.20	325.23	0.03		CB	ODDH27	403.65	404.27	0.62		SS
ODDH26	325.23	325.34	0.11		TB	ODDH27	404.27	404.47	0.20		SS
ODDH26	325.34	326.30	0.95		SL	ODDH27	404.47	414.15	9.68		SL
ODDH26	326.30	326.93	0.63		SL	ODDH27	414.15	414.69	0.53		CB
ODDH26	326.93	335.21	8.28		SS	ODDH27	414.69	418.45	3.76	POL	CO
ODDH26	335.21	335.47	0.25		SH	ODDH27	418.45	418.70	0.25		SH
ODDH26	335.47	336.71	1.25		SS	ODDH27	418.70	420.88	2.19		SL
ODDH26	336.71	337.27	0.56		SH	ODDH28	0.00	7.03	7.03		CL
ODDH26	337.27	339.62	2.35		SS	ODDH28	7.03	28.61	21.58		SH
ODDH26	339.62	342.25	2.63		SL	ODDH28	28.61	116.81	88.20		SH
ODDH26	342.25	346.41	4.15	POL	CO	ODDH28	116.81	208.33	91.52		SH
ODDH26	346.41	348.08	1.68		SL	ODDH28	208.33	211.99	3.66		SS
ODDH27	0.00	1.52	1.52		SA	ODDH28	211.99	215.07	3.08		SH
ODDH27	1.52	51.83	50.31		SH	ODDH28	215.07	215.25	0.18		SS
ODDH27	51.83	170.73	118.90		SH	ODDH28	215.25	216.00	0.75	ARS	CO
ODDH27	170.73	219.51	48.78		SH	ODDH28	216.00	216.01	0.01		XM
ODDH27	219.51	280.49	60.98		SH	ODDH28	216.01	217.08	1.08		SL
ODDH27	280.49	340.75	60.26		SL	ODDH28	217.08	218.80	1.72		SH
ODDH27	340.75	341.21	0.46		SL	ODDH28	218.80	224.50	5.69		SS
ODDH27	341.21	342.56	1.35		SS	ODDH28	224.50	228.07	3.57		SL
ODDH27	342.56	352.34	9.78		SS	ODDH28	228.07	229.71	1.64		SS
ODDH27	352.34	352.53	0.19		SS	ODDH28	229.71	232.64	2.93		SS
ODDH27	352.53	352.99	0.46		SH	ODDH28	232.64	232.98	0.34		SS
ODDH27	352.99	354.42	1.44		SS	ODDH28	232.98	233.68	0.70		SL
ODDH27	354.42	356.81	2.39		SS	ODDH28	233.68	243.53	9.85		SS
ODDH27	356.81	359.69	2.88		SS	ODDH28	243.53	244.00	0.47		SS
ODDH27	359.69	360.02	0.33		SS	ODDH28	244.00	244.12	0.12		SH
ODDH27	360.02	361.47	1.45		SS	ODDH28	244.12	244.36	0.24	CASU	CO
ODDH27	361.47	363.01	1.54		SS	ODDH28	244.36	244.44	0.08		MS
ODDH27	363.01	363.20	0.19		SH	ODDH28	244.44	246.40	1.96	CASL	CO
ODDH27	363.20	363.22	0.02		CB	ODDH28	246.40	246.48	0.07		CB
ODDH27	363.22	363.33	0.11	ARS	CO	ODDH28	246.48	246.62	0.14		SH
ODDH27	363.33	365.30	1.97		SH	ODDH28	246.62	248.20	1.58		SL

RTL DL RELEASE - DNRW

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH28	248.20	249.14	0.94	UNK	CO	ODDH30	239.27	242.56	3.29		SS
ODDH28	249.14	252.91	3.77		SL	ODDH30	242.56	249.84	7.28		SL
ODDH28	252.91	259.58	6.67		SL	ODDH30	249.84	252.40	2.57		SS
ODDH29	0.00	21.00	21.00		CL	ODDH30	252.40	252.68	0.28		SL
ODDH29	21.00	48.00	27.00		SH	ODDH30	252.68	252.82	0.14		SS
ODDH29	48.00	204.72	156.72		SS	ODDH30	252.82	253.17	0.35		SL
ODDH29	204.72	215.76	11.04		SH	ODDH30	253.17	253.43	0.27		SS
ODDH29	215.76	217.77	2.01		SS	ODDH30	253.43	253.68	0.25		SL
ODDH29	217.77	218.04	0.27		MS	ODDH30	253.68	253.93	0.25		SS
ODDH29	218.04	218.67	0.63		SS	ODDH30	253.93	254.05	0.11		SL
ODDH29	218.67	219.08	0.41		SH	ODDH30	254.05	255.43	1.39		SS
ODDH29	219.08	219.58	0.50		MS	ODDH30	255.43	257.05	1.62		SL
ODDH29	219.58	223.68	4.10		SH	ODDH30	257.05	257.60	0.55		SS
ODDH29	223.68	224.32	0.64		SS	ODDH30	257.60	257.81	0.21		SH
ODDH29	224.32	230.78	6.46		SL	ODDH30	257.81	257.84	0.02		SS
ODDH29	230.78	232.54	1.76		SS	ODDH30	257.84	260.89	3.05	ARS	CO
ODDH29	232.54	233.80	1.26		SH	ODDH30	260.89	261.34	0.45		SH
ODDH29	233.80	236.69	2.89		SS	ODDH30	261.34	264.03	2.69		SL
ODDH29	236.69	237.78	1.09		SL	ODDH30	264.03	264.55	0.52		SH
ODDH29	237.78	239.54	1.76		SS	ODDH30	264.55	266.95	2.40		SL
ODDH29	239.54	244.84	5.30		SL	ODDH30	266.95	267.23	0.28		SH
ODDH29	244.84	247.03	2.19		SS	ODDH30	267.23	267.31	0.08		SH
ODDH29	247.03	250.20	3.17		SL	ODDH30	267.31	267.35	0.04		CO
ODDH29	250.20	254.77	4.58		SH	ODDH30	267.35	267.38	0.02		SH
ODDH29	254.77	258.84	4.07	ARS	CO	ODDH30	267.38	268.01	0.63		SL
ODDH29	258.84	258.86	0.02		XM	ODDH30	268.01	268.11	0.10		SL
ODDH29	258.86	259.13	0.27		MS	ODDH30	268.11	268.65	0.54		SH
ODDH29	259.13	259.20	0.07		CO	ODDH30	268.65	269.26	0.61		SL
ODDH29	259.20	259.90	0.70		MS	ODDH30	269.26	269.35	0.09		SL
ODDH29	259.90	259.99	0.09		XM	ODDH30	269.35	269.44	0.09		SH
ODDH29	259.99	261.21	1.22		SL	ODDH30	269.44	269.67	0.23		SH
ODDH29	261.21	261.36	0.15		CB	ODDH30	269.67	270.59	0.91	CASL	CO
ODDH29	261.36	262.80	1.44		SH	ODDH30	270.59	270.73	0.14		CB
ODDH29	262.80	263.51	0.71		SS	ODDH30	270.73	271.44	0.71		SS
ODDH29	263.51	263.77	0.26		SH	ODDH30	271.44	271.92	0.48		SH
ODDH29	263.77	267.34	3.57		SS	ODDH30	271.92	272.16	0.24		SL
ODDH29	267.34	268.38	1.04		SH	ODDH30	272.16	272.37	0.22		SH
ODDH29	268.38	273.06	4.68		SS	ODDH30	272.37	275.44	3.07		SS
ODDH29	273.06	282.32	9.26		SH	ODDH30	275.44	275.76	0.32		SS
ODDH29	282.32	283.12	0.80		SH	ODDH30	275.76	275.97	0.22		SL
ODDH29	283.12	283.57	0.45		XM	ODDH30	275.97	276.14	0.16		SS
ODDH29	283.57	285.27	1.70	POL	CO	ODDH30	276.14	276.53	0.39		SH
ODDH29	285.27	285.28	0.01	POL	CB	ODDH30	276.53	276.70	0.17		TB
ODDH29	285.28	285.42	0.14	POL	CO	ODDH30	276.70	277.36	0.66		SH
ODDH29	285.42	285.44	0.02	POL	CB	ODDH30	277.36	277.94	0.58		TB
ODDH29	285.44	287.37	1.94	POL	CO	ODDH30	277.94	278.04	0.10		SH
ODDH29	287.37	287.39	0.01		CB	ODDH30	278.04	278.42	0.38		SL
ODDH29	287.39	288.39	1.00		SL	ODDH30	278.42	279.66	1.24		SH
ODDH29	288.39	290.55	2.17		SS	ODDH30	279.66	282.83	3.17		SH
ODDH30	0.00	9.00	9.00		CL	ODDH30	282.83	286.23	3.40		SL
ODDH30	9.00	23.00	14.00		CL	ODDH30	286.23	287.36	1.13		SS
ODDH30	23.00	239.27	216.27		SH	ODDH30	287.36	305.72	18.36		SS

RTIDL RELEASE - DRAFT

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH30	305.72	308.03	2.31		SS	ODDH32	292.58	295.32	2.74		SS
ODDH30	308.03	312.74	4.71	POL	CO	ODDH32	295.32	296.41	1.09		CS
ODDH30	312.74	316.10	3.37		SL	ODDH32	296.41	310.38	13.97		SL
ODDH31	0.00	6.00	6.00		SO	ODDH32	310.38	313.41	3.03		SL
ODDH31	6.00	15.00	9.00		SH	ODDH32	313.41	315.67	2.26		SS
ODDH31	15.00	381.26	366.26		SS	ODDH32	315.67	318.45	2.78		SS
ODDH31	381.26	387.38	6.12		SH	ODDH32	318.45	319.63	1.18		SH
ODDH31	387.38	395.73	8.35		SS	ODDH32	319.63	320.21	0.58		SS
ODDH31	395.73	399.35	3.62		SH	ODDH32	320.21	326.64	6.44		SH
ODDH31	399.35	410.61	11.27		SS	ODDH32	326.64	330.03	3.39		SS
ODDH31	410.61	412.42	1.81		SL	ODDH32	330.03	334.10	4.07		SH
ODDH31	412.42	412.95	0.53		SS	ODDH32	334.10	339.38	5.27	ARS	CO
ODDH31	412.95	412.97	0.02		SL	ODDH32	339.38	340.44	1.07		CB
ODDH31	412.97	413.07	0.09		SS	ODDH32	340.44	342.92	2.48		SH
ODDH31	413.07	415.92	2.85	ARS	CO	ODDH32	342.92	343.29	0.37	CASU	CO
ODDH31	415.92	416.14	0.22		MS	ODDH32	343.29	344.80	1.51		SH
ODDH31	416.14	419.88	3.75		SH	ODDH32	344.80	365.35	20.55		SS
ODDH31	419.88	421.03	1.15		SH	ODDH32	365.35	365.83	0.48		SL
ODDH31	421.03	439.00	17.97		SS	ODDH32	365.83	372.22	6.38		SS
ODDH31	439.00	447.31	8.32		SH	ODDH32	372.22	373.71	1.49		SH
ODDH31	447.31	449.00	1.69	POL	CO	ODDH32	373.71	374.00	0.30		CB
ODDH31	449.00	449.03	0.03	POL	SL	ODDH32	374.00	374.50	0.50	CASL	CO
ODDH31	449.03	451.67	2.65	POL	CO	ODDH32	374.50	374.60	0.10		CB
ODDH31	451.67	451.93	0.25		SL	ODDH32	374.60	374.71	0.11		SH
ODDH31	451.93	455.68	3.75		SS	ODDH32	374.71	378.06	3.35		SL
ODDH32	0.00	6.00	6.00		SO	ODDH32	378.06	384.64	6.58		SS
ODDH32	6.00	18.00	12.00		SS	ODDH32	384.64	387.72	3.08		SL
ODDH32	18.00	79.00	61.00		SH	ODDH32	387.72	388.28	0.56	POLR	CO
ODDH32	79.00	104.00	25.00		SH	ODDH32	388.28	388.34	0.06		CB
ODDH32	104.00	128.00	24.00		SH	ODDH32	388.34	390.57	2.23		SH
ODDH32	128.00	204.00	76.00		SH	ODDH32	390.57	390.83	0.26		CB
ODDH32	204.00	211.14	7.14		SL	ODDH32	390.83	393.09	2.26	POL	CO
ODDH32	211.14	211.67	0.53		SS	ODDH32	393.09	393.13	0.04		CB
ODDH32	211.67	213.55	1.88		SH	ODDH32	393.13	395.49	2.36		SS
ODDH32	213.55	245.00	31.45		SH	ODDH32	395.49	396.02	0.53		SL
ODDH32	245.00	248.00	3.00		SH	ODDH32	396.02	399.52	3.50		SL
ODDH32	248.00	250.00	2.00		SH	ODDH33	0.00	306.07	306.07		NL
ODDH32	250.00	256.00	6.00		SH	ODDH33	306.07	309.24	3.17	ARS	CO
ODDH32	256.00	259.00	3.00		SS	ODDH33	309.24	317.66	8.42		NL
ODDH32	259.00	272.00	13.00		SH	ODDH33	317.66	318.57	0.91	CASL	CO
ODDH32	272.00	273.00	1.00		SH	ODDH33	318.57	372.36	53.79		NL
ODDH32	273.00	275.23	2.23		SH	ODDH33	372.36	376.31	3.95	POL	CO
ODDH32	275.23	277.22	1.99		CS	ODDH33	376.31	386.31	10.00		NL
ODDH32	277.22	278.75	1.52		SS	ODDH34	0.00	6.00	6.00		SO
ODDH32	278.75	279.71	0.96		SS	ODDH34	6.00	18.00	12.00		CS
ODDH32	279.71	283.64	3.93		CS	ODDH34	18.00	24.00	6.00		SS
ODDH32	283.64	284.04	0.40		SS	ODDH34	24.00	36.50	12.50		SH
ODDH32	284.04	285.81	1.77		SL	ODDH34	36.50	134.00	97.50		SH
ODDH32	285.81	287.14	1.33		SL	ODDH34	134.00	140.00	6.00		SH
ODDH32	287.14	291.62	4.48		MS	ODDH34	140.00	256.00	116.00		SH
ODDH32	291.62	292.32	0.70		SL	ODDH34	256.00	346.86	90.86		SH
ODDH32	292.32	292.58	0.26		CS	ODDH34	346.86	350.70	3.84		SS

RTIDL RELEASE - DRAFT

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH34	350.70	352.78	2.08	ARS	CO	ODDH35	332.86	334.60	1.74	POL	CO
ODDH34	352.78	355.05	2.27		CB	ODDH35	334.60	334.66	0.06		SH
ODDH34	355.05	357.30	2.25		SH	ODDH35	334.66	337.85	3.19		SS
ODDH34	357.30	357.64	0.34	ARSL	CO	ODDH37	0.00	456.00	456.00		NL
ODDH34	357.64	357.88	0.24		CB	ODDH38	0.00	337.89	337.89		NL
ODDH34	357.88	363.00	5.12		SH	ODDH38	337.89	341.08	3.19	ARS	CO
ODDH34	363.00	363.16	0.16		CB	ODDH38	341.08	382.56	41.48		NL
ODDH34	363.16	363.89	0.73	CASL	CO	ODDH38	382.56	383.78	1.22	CASL	CO
ODDH34	363.89	364.94	1.05		SH	ODDH38	383.78	403.16	19.38		NL
ODDH34	364.94	374.28	9.34		SL	ODDH38	403.16	405.65	2.49	POL	CO
ODDH34	374.28	375.02	0.74		CB	ODDH38	405.65	415.61	9.97		NL
ODDH34	375.02	375.16	0.14		CO	ODDH39	0.00	354.50	354.50		NL
ODDH34	375.16	379.10	3.94		SL	ODDH39	354.50	356.52	2.02	ARS	CO
ODDH34	379.10	380.46	1.36		SS	ODDH39	356.52	388.55	32.03		NL
ODDH34	380.46	381.19	0.73		SH	ODDH39	388.55	389.01	0.46	CASU	
ODDH34	381.19	391.21	10.02		SL	ODDH39	389.01	390.57	1.56		SL
ODDH34	391.21	392.41	1.20		SS	ODDH39	390.57	391.13	0.56	CASL	CO
ODDH34	392.41	401.83	9.42		SH	ODDH39	391.13	415.91	24.78		NL
ODDH34	401.83	405.21	3.38	POL	CO	ODDH39	415.91	419.92	4.01	POL	CO
ODDH34	405.21	409.97	4.76	POL	CO	ODDH39	419.92	429.20	9.28		NL
ODDH34	409.97	410.74	0.77		SH	ODDH6	0.00	247.04	247.04		NL
ODDH34	410.74	413.59	2.85		SS	ODDH6	247.04	247.90	0.86	ARSU	CO
ODDH35	0.00	270.00	270.00		NL	ODDH6	247.90	249.80	1.90		NL
ODDH35	270.00	270.03	0.03		CB	ODDH6	249.80	250.56	0.76	ARS	CO
ODDH35	270.03	273.22	3.19	ARS	CO	ODDH6	250.56	278.40	27.84		NL
ODDH35	273.22	273.24	0.01		CB	ODDH6	278.40	282.56	4.16	CASL	CO
ODDH35	273.24	273.45	0.21		SH	ODDH6	282.56	311.30	28.74		NL
ODDH35	273.45	273.95	0.50		SL	ODDH6	311.30	316.73	5.43	POL	CO
ODDH35	273.95	274.17	0.23		SS	ODDH6	316.73	326.73	10.00		NL
ODDH35	274.17	274.29	0.12		SH	ODDH7	0.00	106.71	106.71		SH
ODDH35	274.29	274.39	0.10		CO	ODDH7	106.71	155.49	48.78		SH
ODDH35	274.39	274.46	0.06		CB	ODDH7	155.49	229.88	74.39		SH
ODDH35	274.46	274.74	0.28		SH	ODDH7	229.88	473.78	243.90		SS
ODDH35	274.74	276.90	2.16		SL	ODDH7	473.78	489.02	15.24		SH
ODDH35	276.90	277.36	0.46		SL	ODDH7	489.02	497.43	8.41		SH
ODDH35	277.36	277.48	0.13		CB	ODDH7	497.43	502.90	5.46		SS
ODDH35	277.48	278.06	0.58	CASU	CO	ODDH7	502.90	503.15	0.25	ARS	CO
ODDH35	278.06	278.25	0.19		SH	ODDH7	503.15	503.30	0.15		SH
ODDH35	278.25	290.49	12.24		SS	ODDH7	503.30	503.35	0.05		CO
ODDH35	290.49	291.16	0.67		CB	ODDH7	503.35	503.56	0.20		SH
ODDH35	291.16	291.20	0.04		CO	ODDH7	503.56	507.52	3.96		SH
ODDH35	291.20	292.56	1.36		SL	ODDH7	507.52	509.99	2.47		SS
ODDH35	292.56	309.91	17.35		SS	ODDH7	509.99	521.19	11.20		SH
ODDH35	309.91	311.68	1.77		SH	ODDH7	521.19	527.08	5.89		SS
ODDH35	311.68	312.30	0.62		SS	ODDH7	527.08	527.38	0.29	CASU	CO
ODDH35	312.30	314.66	2.36		SH	ODDH7	527.38	533.16	5.78		SH
ODDH35	314.66	315.07	0.41	CASL	CO	ODDH7	533.16	534.11	0.95	CASL	CO
ODDH35	315.07	316.00	0.93		SH	ODDH7	534.11	537.58	3.47		SH
ODDH35	316.00	317.51	1.51		SL	ODDH7	537.58	543.60	6.02		SS
ODDH35	317.51	318.17	0.66		SS	ODDH7	543.60	559.10	15.50		SH
ODDH35	318.17	322.66	4.49		SL	ODDH7	559.10	561.89	2.79		SH
ODDH35	322.66	332.86	10.21		SL	ODDH7	561.89	564.02	2.13		SH

RTIL RELEASE - DARW

Release

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH7	564.02	565.18	1.16	POL	CO	ODDH74	383.35	383.43	0.08		CB
ODDH7	565.18	566.32	1.14		SH	ODDH74	383.43	384.27	0.84		SL
ODDH7	566.32	566.53	0.20	ORN	CO	ODDH74	384.27	384.40	0.13		CB
ODDH7	566.53	569.06	2.53		SH	ODDH74	384.40	386.41	2.01		SL
ODDH74	0.00	3.00	3.00		SO	ODDH74	386.41	386.43	0.02		CO
ODDH74	3.00	5.00	2.00		MS	ODDH74	386.43	386.79	0.36		SS
ODDH74	5.00	316.00	311.00		SS	ODDH74	386.79	386.89	0.10		CB
ODDH74	316.00	318.00	2.00	ARS	CO	ODDH74	386.89	387.97	1.08		SS
ODDH74	318.00	318.90	0.90	ARS	CO	ODDH74	387.97	388.00	0.03		CB
ODDH74	318.90	318.97	0.07	ARS	CO	ODDH74	388.00	388.40	0.40		SL
ODDH74	318.97	319.02	0.05	ARS	CO	ODDH74	388.40	388.53	0.13		CB
ODDH74	319.02	319.20	0.18		CB	ODDH74	388.53	389.92	1.39		SS
ODDH74	319.20	319.44	0.24		SL	ODDH74	389.92	389.99	0.07		CB
ODDH74	319.44	319.58	0.14	CASUR	CO	ODDH74	389.99	392.26	2.27		SS
ODDH74	319.58	321.09	1.51		SL	ODDH74	392.26	392.76	0.50	POL	CO
ODDH74	321.09	321.42	0.33		CB	ODDH74	392.76	392.96	0.20	POL	CO
ODDH74	321.42	322.94	1.52		SS	ODDH74	392.96	393.12	0.16	POL	CO
ODDH74	322.94	323.05	0.11	CASU	CO	ODDH74	393.12	393.91	0.79	POL	CO
ODDH74	323.05	323.28	0.23		SL	ODDH74	393.91	394.01	0.10	POL	CO
ODDH74	323.28	323.46	0.18	CASL	CO	ODDH74	394.01	394.11	0.10	POL	CB
ODDH74	323.46	330.35	6.89		SL	ODDH74	394.11	394.36	0.25	POL	CO
ODDH74	330.35	330.54	0.19		CB	ODDH74	394.36	394.44	0.08	POL	CB
ODDH74	330.54	334.65	4.11		SS	ODDH74	394.44	394.57	0.13	POL	CO
ODDH74	334.65	334.90	0.25		CB	ODDH74	394.57	394.59	0.02	POL	CB
ODDH74	334.90	341.10	6.20		SS	ODDH74	394.59	394.75	0.16	POL	CO
ODDH74	341.10	341.88	0.78		CB	ODDH74	394.75	394.99	0.24	POL	CO
ODDH74	341.88	341.98	0.10	CASU	CO	ODDH74	394.99	395.05	0.06	POL	CB
ODDH74	341.98	342.29	0.31		CB	ODDH74	395.05	395.09	0.04	POL	CO
ODDH74	342.29	342.48	0.19	CASL	CO	ODDH74	395.09	395.11	0.02	POL	CB
ODDH74	342.48	347.04	4.56		SL	ODDH74	395.11	395.22	0.11	POL	CO
ODDH74	347.04	347.36	0.32		CB	ODDH74	395.22	395.48	0.26	POL	CO
ODDH74	347.36	349.70	2.34		SS	ODDH74	395.48	395.88	0.40	POL	CB
ODDH74	349.70	350.04	0.34		CB	ODDH74	395.88	395.91	0.03	POL	CO
ODDH74	350.04	350.60	0.56		SL	ODDH74	395.91	399.42	3.51		SS
ODDH74	350.60	351.72	1.12		SS	ODDH74	399.42	400.54	1.12		SL
ODDH74	351.72	354.66	2.94		MS	ODDH75	0.00	2.00	2.00		SO
ODDH74	354.66	355.85	1.19		CB	ODDH75	2.00	12.00	10.00		MS
ODDH74	355.85	356.93	1.08		SS	ODDH75	12.00	18.00	6.00		SS
ODDH74	356.93	357.46	0.53		SH	ODDH75	18.00	32.00	14.00		SL
ODDH74	357.46	361.31	3.85		SS	ODDH75	32.00	51.00	19.00		SS
ODDH74	361.31	361.68	0.37		SL	ODDH75	51.00	61.00	10.00		MS
ODDH74	361.68	363.86	2.18		SS	ODDH75	61.00	102.00	41.00		SL
ODDH74	363.86	364.24	0.38		SL	ODDH75	102.00	106.00	4.00		MS
ODDH74	364.24	365.16	0.92		CB	ODDH75	106.00	119.00	13.00		SL
ODDH74	365.16	368.18	3.02		SS	ODDH75	119.00	122.50	3.50		MS
ODDH74	368.18	368.28	0.10		CB	ODDH75	122.50	401.00	278.50		NL
ODDH74	368.28	374.17	5.89		SS	ODDH76	0.00	6.00	6.00		CL
ODDH74	374.17	376.90	2.73		SL	ODDH76	6.00	8.00	2.00		SA
ODDH74	376.90	377.23	0.33		CB	ODDH76	8.00	268.00	260.00		MS
ODDH74	377.23	379.27	2.04		SL	ODDH76	268.00	284.00	16.00		SL
ODDH74	379.27	379.60	0.33		SH	ODDH76	284.00	315.00	31.00		SL
ODDH74	379.60	383.35	3.75		SL	ODDH76	315.00	324.00	9.00		SS

RTI DL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH76	324.00	332.00	8.00		SL	ODDH77	319.03	320.13	1.10		CB
ODDH76	332.00	348.00	16.00		SS	ODDH77	320.13	323.87	3.74		SL
ODDH76	348.00	363.50	15.50		SS	ODDH77	323.87	324.20	0.33	CASU	CO
ODDH76	363.50	364.51	1.01	ARS	CO	ODDH77	324.20	326.22	2.02		CB
ODDH76	364.51	364.56	0.05		CB	ODDH77	326.22	327.12	0.90	CASL	CO
ODDH76	364.56	365.20	0.64		SL	ODDH77	327.12	345.27	18.15		SL
ODDH76	365.20	371.46	6.26		SS	ODDH77	345.27	345.36	0.09		CB
ODDH76	371.46	379.20	7.74		SL	ODDH77	345.36	348.49	3.13	POL	CO
ODDH76	379.20	379.67	0.47		SS	ODDH77	348.49	353.04	4.55		SS
ODDH76	379.67	381.15	1.48		SL	ODDH79	0.00	1.00	1.00		GV
ODDH76	381.15	381.18	0.03		MS	ODDH79	1.00	10.00	9.00		IN
ODDH76	381.18	381.26	0.08		SS	ODDH79	10.00	20.00	10.00		MS
ODDH76	381.26	381.69	0.43	CASU	CO	ODDH79	20.00	21.00	1.00		SA
ODDH76	381.69	381.98	0.29		CB	ODDH79	21.00	36.00	15.00		MS
ODDH76	381.98	395.36	13.38		SS	ODDH79	36.00	37.00	1.00		SA
ODDH76	395.36	399.35	3.99		SL	ODDH79	37.00	76.00	39.00		SL
ODDH76	399.35	400.37	1.02		CB	ODDH79	76.00	83.00	7.00		MS
ODDH76	400.37	400.39	0.02		CO	ODDH79	83.00	152.00	69.00		SL
ODDH76	400.39	403.08	2.69		SS	ODDH79	152.00	250.00	98.00		SL
ODDH76	403.08	403.11	0.03		CB	ODDH79	250.00	302.15	52.15		SL
ODDH76	403.11	404.70	1.59	CASL	CO	ODDH79	302.15	303.95	1.80	ARS	CO
ODDH76	404.70	404.85	0.15		CB	ODDH79	303.95	319.41	15.46		SL
ODDH76	404.85	414.82	9.97		SL	ODDH79	319.41	319.48	0.07		CB
ODDH76	414.82	419.15	4.33		SS	ODDH79	319.48	320.39	0.91	CASL	CO
ODDH76	419.15	419.23	0.08		CB	ODDH79	320.39	335.82	15.43		SS
ODDH76	419.23	420.20	0.97	UNK	CN	ODDH79	335.82	335.96	0.14		CB
ODDH76	420.20	432.75	12.55		SS	ODDH79	335.96	365.29	29.33		SL
ODDH76	432.75	433.65	0.90		CB	ODDH79	365.29	368.48	3.19		XM
ODDH76	433.65	440.78	7.13		SS	ODDH79	368.48	372.53	4.05	POL	CO
ODDH76	440.78	444.52	3.74		MS	ODDH79	372.53	379.56	7.03		SL
ODDH76	444.52	446.00	1.48		SL	ODDH8	0.00	317.40	317.40		NL
ODDH76	446.00	447.33	1.33		CB	ODDH8	317.40	318.85	1.45	CASL	CO
ODDH76	447.33	447.45	0.12		MS	ODDH8	318.85	347.42	28.57		NL
ODDH76	447.45	447.51	0.06		CO	ODDH8	347.42	349.91	2.49	POL	CO
ODDH76	447.51	447.60	0.09		CS	ODDH8	349.91	361.62	11.71		NL
ODDH76	447.60	447.74	0.14		CB	ODDH8	361.62	362.65	1.03	ORN	CO
ODDH76	447.74	450.14	2.40	POL	CO	ODDH8	362.65	372.65	10.00		NL
ODDH76	450.14	451.76	1.62		SL	ODDH80	0.00	1.00	1.00		SO
ODDH76	451.76	454.80	3.04		SS	ODDH80	1.00	4.00	3.00		SS
ODDH77	0.00	1.00	1.00		SO	ODDH80	4.00	9.00	5.00		MS
ODDH77	1.00	3.00	2.00		GV	ODDH80	9.00	15.00	6.00		SL
ODDH77	3.00	11.00	8.00		MS	ODDH80	15.00	24.00	9.00		MS
ODDH77	11.00	66.00	55.00		SL	ODDH80	24.00	25.00	1.00		SA
ODDH77	66.00	120.00	54.00		SS	ODDH80	25.00	28.00	3.00		MS
ODDH77	120.00	147.00	27.00		SL	ODDH80	28.00	54.00	26.00		SL
ODDH77	147.00	246.00	99.00		SS	ODDH80	54.00	150.00	96.00		SS
ODDH77	246.00	256.00	10.00		SS	ODDH80	150.00	342.14	192.14		SS
ODDH77	256.00	273.00	17.00		SS	ODDH80	342.14	342.31	0.17		CB
ODDH77	273.00	290.00	17.00		SS	ODDH80	342.31	343.51	1.20	UNK	CO
ODDH77	290.00	317.78	27.78		SL	ODDH80	343.51	344.19	0.68		SL
ODDH77	317.78	317.79	0.01		CB	ODDH80	344.19	344.30	0.11		CB
ODDH77	317.79	319.03	1.24	ARS	CO	ODDH80	344.30	347.38	3.08	POL	CO

FINAL RELEASE - DRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH80	347.38	363.73	16.35		SS	ODDH81	321.09	323.56	2.47		CB
ODDH80	363.73	365.15	1.42		SL	ODDH81	323.56	324.80	1.24		MS
ODDH80	365.15	365.30	0.15	ORN	CO	ODDH81	324.80	328.53	3.73		SS
ODDH80	365.30	377.62	12.32		SL	ODDH81	328.53	336.60	8.07		MS
ODDH80	377.62	377.71	0.09		XM	ODDH81	336.60	337.64	1.04		SH
ODDH80	377.71	378.12	0.41		TU	ODDH81	337.64	338.50	0.86		CB
ODDH80	378.12	378.73	0.61	PIS	CO	ODDH81	338.50	338.80	0.30	POL	CO
ODDH80	378.73	423.00	44.27		SS	ODDH81	338.80	338.94	0.14	POL	CB
ODDH81	0.00	4.50	4.50		CL	ODDH81	338.94	342.80	3.86	POL	CO
ODDH81	4.50	5.00	0.50		SA	ODDH81	342.80	342.88	0.08		CB
ODDH81	5.00	70.00	65.00		SL	ODDH81	342.88	343.90	1.02		SS
ODDH81	70.00	87.00	17.00		MS	ODDH81	343.90	344.36	0.46		MS
ODDH81	87.00	120.50	33.50		SL	ODDH81	344.36	346.88	2.52		SS
ODDH81	120.50	167.00	46.50		SL	ODDH82	0.00	6.00	6.00		CL
ODDH81	167.00	230.00	63.00		SS	ODDH82	6.00	66.00	60.00		MS
ODDH81	230.00	242.00	12.00		SL	ODDH82	66.00	87.00	21.00		SS
ODDH81	242.00	272.00	30.00		SS	ODDH82	87.00	248.13	161.13		MS
ODDH81	272.00	275.50	3.50		MS	ODDH82	248.13	249.53	1.40		SL
ODDH81	275.50	276.66	1.16	ARS	CO	ODDH82	249.53	252.06	2.53		SS
ODDH81	276.66	277.59	0.93		CB	ODDH82	252.06	253.81	1.75		SL
ODDH81	277.59	278.89	1.30		SL	ODDH82	253.81	254.54	0.73		SS
ODDH81	278.89	278.94	0.05		CB	ODDH82	254.54	261.98	7.44		MS
ODDH81	278.94	279.59	0.65		SL	ODDH82	261.98	262.90	0.92		SS
ODDH81	279.59	279.69	0.10		CB	ODDH82	262.90	282.61	19.71		SL
ODDH81	279.69	281.59	1.90		SS	ODDH82	282.61	291.16	8.55		SS
ODDH81	281.59	281.83	0.24		SL	ODDH82	291.16	297.18	6.02		SL
ODDH81	281.83	281.93	0.10		CB	ODDH82	297.18	318.11	20.93		SS
ODDH81	281.93	284.35	2.42		SS	ODDH82	318.11	318.31	0.20		SL
ODDH81	284.35	284.54	0.19		CB	ODDH82	318.31	318.62	0.31		SS
ODDH81	284.54	286.66	2.12		SS	ODDH82	318.62	320.20	1.58	ARS	CO
ODDH81	286.66	286.70	0.04		CB	ODDH82	320.20	320.80	0.60		CB
ODDH81	286.70	286.87	0.17		SS	ODDH82	320.80	320.87	0.07		XM
ODDH81	286.87	287.07	0.20		CB	ODDH82	320.87	327.48	6.61		SL
ODDH81	287.07	287.56	0.49		SS	ODDH82	327.48	332.74	5.26		SL
ODDH81	287.56	287.66	0.10	CASL	CO	ODDH82	332.74	332.89	0.15		SS
ODDH81	287.66	287.68	0.02	CASL	SS	ODDH82	332.89	333.74	0.85	CASL	CO
ODDH81	287.68	288.06	0.38	CASL	CO	ODDH82	333.74	333.98	0.24		XM
ODDH81	288.06	288.29	0.23		CB	ODDH82	333.98	338.57	4.59		SL
ODDH81	288.29	288.70	0.41		XM	ODDH82	338.57	344.06	5.49		SS
ODDH81	288.70	294.73	6.03		SL	ODDH82	344.06	362.98	18.92		SL
ODDH81	294.73	297.10	2.37		SS	ODDH82	362.98	369.73	6.75		SL
ODDH81	297.10	297.16	0.06		CB	ODDH82	369.73	374.32	4.59		CB
ODDH81	297.16	305.53	8.37		SS	ODDH82	374.32	380.18	5.86		MS
ODDH81	305.53	305.81	0.28		MS	ODDH82	380.18	380.27	0.09		BR
ODDH81	305.81	307.60	1.79		CB	ODDH82	380.27	380.78	0.51		CB
ODDH81	307.60	313.87	6.27		SS	ODDH82	380.78	384.55	3.77	POL	CO
ODDH81	313.87	314.01	0.14		MS	ODDH82	384.55	384.74	0.19		CB
ODDH81	314.01	314.06	0.05		CO	ODDH82	384.74	389.54	4.80		SS
ODDH81	314.06	314.08	0.02		CB	ODDH83	0.00	1.00	1.00		SO
ODDH81	314.08	314.60	0.52		MS	ODDH83	1.00	2.00	1.00		GV
ODDH81	314.60	314.94	0.34		CB	ODDH83	2.00	12.00	10.00		SS
ODDH81	314.94	321.09	6.15		SS	ODDH83	12.00	34.50	22.50		CL

RTI DL RELEASE - DWRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
ODDH83	34.50	36.00	1.50		SA	ODDH85	0.00	1.50	1.50		SO
ODDH83	36.00	52.50	16.50		MS	ODDH85	1.50	25.00	23.50		SL
ODDH83	52.50	108.00	55.50		SL	ODDH85	25.00	85.00	60.00		SL
ODDH83	108.00	125.00	17.00		SS	ODDH85	85.00	105.00	20.00		SS
ODDH83	125.00	150.00	25.00		SL	ODDH85	105.00	219.50	114.50		SL
ODDH83	150.00	157.00	7.00		MS	ODDH85	219.50	246.16	26.66		SS
ODDH83	157.00	210.00	53.00		SL	ODDH85	246.16	246.19	0.03		SL
ODDH83	210.00	223.00	13.00		SS	ODDH85	246.19	247.88	1.69	ARS	CO
ODDH83	223.00	226.58	3.58		CB	ODDH85	247.88	247.96	0.08		CB
ODDH83	226.58	235.36	8.78		SL	ODDH85	247.96	248.34	0.38		MS
ODDH83	235.36	236.54	1.18		CB	ODDH85	248.34	250.04	1.70		SL
ODDH83	236.54	244.80	8.26		SL	ODDH85	250.04	250.59	0.55		MS
ODDH83	244.80	246.42	1.62		CB	ODDH85	250.59	256.38	5.79		SS
ODDH83	246.42	247.40	0.98	ARS	CO	ODDH85	256.38	256.49	0.11		IS
ODDH83	247.40	247.62	0.22		CB	ODDH85	256.49	261.62	5.13		SL
ODDH83	247.62	253.50	5.88		SL	ODDH85	261.62	262.53	0.91		CB
ODDH83	253.50	254.75	1.25		CB	ODDH85	262.53	264.55	2.02		SS
ODDH83	254.75	256.25	1.50		SL	ODDH85	264.55	265.33	0.78	CASL	CO
ODDH83	256.25	257.36	1.11		CB	ODDH85	265.33	265.80	0.47		SL
ODDH83	257.36	282.88	25.52		SL	ODDH85	265.80	277.54	11.74		SS
ODDH83	282.88	284.60	1.72		CB	ODDH85	277.54	277.87	0.33		CB
ODDH83	284.60	288.63	4.03	POL	CO	ODDH85	277.87	279.22	1.35		SL
ODDH83	288.63	290.48	1.85		SS	ODDH85	279.22	280.48	1.26		CB
ODDH84	0.00	4.00	4.00		GV	ODDH85	280.48	280.53	0.05		XM
ODDH84	4.00	7.00	3.00		SS	ODDH85	280.53	280.57	0.04		CB
ODDH84	7.00	15.00	8.00		MS	ODDH85	280.57	280.65	0.08		CO
ODDH84	15.00	19.00	4.00		SL	ODDH85	280.65	287.18	6.53		SS
ODDH84	19.00	40.50	21.50		MS	ODDH85	287.18	287.65	0.47		CB
ODDH84	40.50	106.00	65.50		SL	ODDH85	287.65	287.94	0.29		SL
ODDH84	106.00	108.00	2.00		SS	ODDH85	287.94	288.23	0.29		CB
ODDH84	108.00	141.00	33.00		SL	ODDH85	288.23	300.97	12.74		SL
ODDH84	141.00	153.00	12.00		SS	ODDH85	300.97	307.92	6.95		CB
ODDH84	153.00	218.00	65.00		SL	ODDH85	307.92	311.01	3.09	POL	CO
ODDH84	218.00	224.00	6.00		MS	ODDH85	311.01	311.17	0.16		SL
ODDH84	224.00	252.50	28.50		SS	ODDH85	311.17	316.45	5.28		SS
ODDH84	252.50	254.60	2.10	ARS	CO	ODDH85	316.45	317.37	0.92		SL
ODDH84	254.60	254.88	0.28		CB	ODDH85	317.37	318.00	0.63		SS
ODDH84	254.88	265.67	10.79		SL	OH10	0.00	3.05	3.05		CL
ODDH84	265.67	265.93	0.26		CB	OH10	3.05	21.34	18.29		SH
ODDH84	265.93	267.10	1.17		SL	OH10	21.34	30.49	9.15		SH
ODDH84	267.10	267.31	0.21		CB	OH10	30.49	289.63	259.15		SH
ODDH84	267.31	268.25	0.94	CASU	CO	OH11	0.00	3.05	3.05		CL
ODDH84	268.25	269.34	1.09		CB	OH11	3.05	15.24	12.20		SH
ODDH84	269.34	269.82	0.48	CASL	CO	OH11	15.24	189.02	173.78		SH
ODDH84	269.82	278.20	8.38		SL	OH11	189.02	243.90	54.88		SH
ODDH84	278.20	279.34	1.14		CB	OH11	243.90	350.61	106.71		SS
ODDH84	279.34	279.78	0.44		CB	OH20	0.00	210.92	210.92		NL
ODDH84	279.78	312.19	32.41		SL	OH20	210.92	211.83	0.91	ARS	CO
ODDH84	312.19	312.32	0.13		CB	OH20	211.83	229.82	17.99		NL
ODDH84	312.32	315.66	3.34	POL	CO	OH20	229.82	231.65	1.83	CASL	CO
ODDH84	315.66	315.93	0.27		CB	OH20	231.65	269.75	38.10		NL
ODDH84	315.93	322.73	6.80		SL	OH20	269.75	273.35	3.60	POL	CO

RTIOL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
OH20	273.35	283.35	10.00		NL	OH26	245.06	245.67	0.61	ARS	CO
OH21	0.00	1.22	1.22		SO	OH26	245.67	273.10	27.43		NL
OH21	1.22	6.10	4.88		CL	OH26	273.10	278.28	5.18	CASL	CO
OH21	6.10	12.50	6.40		SS	OH26	278.28	313.03	34.75		NL
OH21	12.50	15.24	2.74		SH	OH26	313.03	314.91	1.88	POL	CO
OH21	15.24	25.00	9.76		SS	OH26	314.91	324.91	10.00		NL
OH21	25.00	26.22	1.22		SH	OH27	0.00	278.59	278.59		NL
OH21	26.22	31.40	5.18		SH	OH27	278.59	279.81	1.22	ARS	CO
OH21	31.40	35.06	3.66		SH	OH27	279.81	294.44	14.63		NL
OH21	35.06	67.99	32.93		SH	OH27	294.44	296.88	2.44	CASL	CO
OH21	67.99	69.82	1.83		SH	OH27	279.81	328.85	49.05		NL
OH21	69.82	71.34	1.52		SH	OH27	328.85	331.90	3.05	POL	CO
OH21	71.34	72.26	0.92		SH	OH27	331.90	341.90	10.00		NL
OH21	72.26	85.98	13.72		SH	OH29	0.00	259.08	259.08		NL
OH21	85.98	103.66	17.68		SH	OH29	259.08	260.91	1.83	ARS	CO
OH21	103.66	106.71	3.05		SH	OH29	260.91	316.08	55.17		NL
OH21	106.71	119.82	13.11		SS	OH29	316.08	319.43	3.35	POL	CO
OH21	119.82	128.05	8.23		SH	OH29	319.43	329.43	10.00		NL
OH21	128.05	150.00	21.95		SS	OH32	0.00	30.49	30.49		CL
OH21	150.00	178.05	28.05		SH	OH32	30.49	39.63	9.15		MS
OH21	178.05	288.11	110.06		SH	OH32	39.63	257.32	217.68		SH
OH22	0.00	0.61	0.61		SO	OH32	257.32	258.54	1.22		CO
OH22	0.61	7.01	6.40		CL	OH32	258.54	286.71	28.18		SH
OH22	7.01	15.24	8.23		SH	OH32	286.71	287.78	1.07		SH
OH22	15.24	84.76	69.51		SH	OH32	287.78	292.23	4.45		SS
OH22	84.76	88.72	3.96		SH	OH32	292.23	299.05	6.82		SH
OH22	88.72	106.71	17.99		SH	OH32	299.05	302.48	3.43	POL	CO
OH22	106.71	110.06	3.35		SH	OH32	302.48	302.66	0.18		SH
OH22	110.06	157.01	46.95		SH	OH33	0.00	0.61	0.61		SO
OH22	157.01	185.98	28.96		SH	OH33	0.61	3.05	2.44		SL
OH22	185.98	257.62	71.65		SH	OH33	3.05	9.76	6.71		CL
OH22	257.62	291.16	33.54		SH	OH33	9.76	30.49	20.73		CL
OH25	0.00	0.61	0.61		SO	OH33	30.49	35.98	5.49		CL
OH25	0.61	3.05	2.44		CL	OH33	35.98	89.94	53.96		SH
OH25	3.05	6.71	3.66		SH	OH33	89.94	94.51	4.57		SS
OH25	6.71	7.62	0.92		SH	OH33	94.51	167.07	72.56		SH
OH25	7.62	15.55	7.93		SH	OH33	167.07	186.59	19.51		SH
OH25	15.55	17.68	2.13		SH	OH33	186.59	268.60	82.01		SH
OH25	17.68	28.05	10.37		SH	OH33	268.60	269.51	0.91		SH
OH25	28.05	31.40	3.35		SH	OH33	269.51	270.12	0.61	UNK	CO
OH25	31.40	80.18	48.78		SH	OH33	270.12	329.27	59.15		SH
OH25	80.18	81.40	1.22		SH	OH33	329.27	330.18	0.92		SS
OH25	81.40	244.82	163.42		SH	OH33	330.18	343.60	13.42		SS
OH25	244.82	246.34	1.52	ARS	CO	OH33	343.60	344.51	0.91		SH
OH25	246.34	246.95	0.61		SH	OH33	344.51	345.43	0.92	UNK	CO
OH25	246.95	252.13	5.18		SH	OH33	345.43	346.59	1.16		SS
OH25	252.13	264.02	11.89		SH	OH33	346.59	348.63	2.04	UNK	CO
OH25	264.02	267.07	3.05	CASL	CO	OH33	348.63	350.61	1.98		SH
OH25	267.07	288.11	21.04		SH	OH33	350.61	360.61	10.00		NL
OH25	288.11	290.55	2.44		SH	OH35	0.00	194.77	194.77		NL
OH25	290.55	294.67	4.12	POL	CO	OH35	194.77	196.14	1.37	ARS	CO
OH26	0.00	245.06	245.06		NL	OH35	196.14	214.88	18.74		NL

RTIDL RELEASE - DNRW

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
OH35	214.88	215.49	0.61	CASL	CO	RK002	161.35	187.72	26.37		NL
OH35	215.49	258.32	42.83		NL	RK002	187.72	189.28	1.56	POL	CO
OH35	258.32	262.05	3.73	POL	CO	RK002	189.28	218.75	29.47		NL
OH35	262.05	272.05	10.00		NL	RK002	218.75	221.15	2.40	PIS	CO
OH49	0.00	297.18	297.18		NL	RK002	221.15	240.00	18.85		NL
OH49	297.18	299.01	1.83	ARS	CO	RK003	0.00	173.86	173.86		NL
OH49	299.01	307.72	8.71		NL	RK003	173.86	175.84	1.98	ARSU	CO
OH49	307.72	311.38	3.66	CASL	CO	RK003	175.84	176.23	0.39		NL
OH49	311.38	338.02	26.64		NL	RK003	176.23	177.36	1.13	ARS	CO
OH49	338.02	343.20	5.18	POL	CO	RK003	177.36	181.07	3.71		NL
OH49	343.20	353.20	10.00		NL	RK003	181.07	182.37	1.30	CASL	CO
OH5	0.00	12.20	12.20		BA	RK003	182.37	204.17	21.80		NL
OH5	12.20	30.49	18.29		SH	RK003	204.17	205.78	1.61	POL	CO
OH5	30.49	36.59	6.10		SH	RK003	205.78	223.77	17.99		NL
OH5	36.59	39.94	3.35		SH	RK003	223.77	225.84	2.07	PIS	CO
OH5	39.94	48.78	8.84		SS	RK003	225.84	270.00	44.16		NL
OH5	48.78	54.88	6.10		CL	RK004	0.00	85.00	85.00		NL
OH5	54.88	57.93	3.05		CL	RK005	0.00	158.52	158.52		NL
OH5	57.93	253.05	195.12		SH	RK005	158.52	160.47	1.95	ARSU	CO
OH5	253.05	289.63	36.59		SS	RK005	160.47	160.67	0.20		NL
OH62	0.00	162.76	162.76		NL	RK005	160.67	162.26	1.59	ARS	CO
OH62	162.76	165.50	2.74	ARS	CO	RK005	162.26	163.49	1.23		NL
OH62	165.50	181.97	16.47		NL	RK005	163.49	164.52	1.03	CASL	CO
OH62	181.97	183.49	1.52	CASL	CO	RK005	164.52	182.47	17.95		NL
OH62	183.49	221.51	38.02		NL	RK005	182.47	183.60	1.13	POL	CO
OH62	221.51	224.33	2.82	POL	CO	RK005	183.60	203.41	19.81		NL
OH62	224.33	234.33	10.00		NL	RK005	203.41	205.66	2.25	PIS	CO
OH7	0.00	27.44	27.44		CL	RK005	205.66	282.00	76.34		NL
OH7	27.44	30.49	3.05		SH	RK006	0.00	260.82	260.82		NL
OH7	30.49	39.63	9.15		SH	RK006	260.82	263.60	2.78	ARS	CO
OH7	39.63	42.68	3.05		SH	RK006	263.60	272.30	8.70		NL
OH7	42.68	45.73	3.05		SH	RK006	272.30	273.40	1.10	CASL	CO
OH7	45.73	67.07	21.34		SH	RK006	273.40	300.00	26.60		NL
OH7	67.07	70.12	3.05		SH	RK009	0.00	2.50	2.50		SO
OH7	70.12	289.63	219.51		SH	RK009	2.50	2.80	0.30		SD
RK001	0.00	180.68	180.68		NL	RK009	2.80	6.00	3.20		SS
RK001	180.68	182.56	1.88	ARSU	CO	RK009	6.00	10.00	4.00		SS
RK001	182.56	183.18	0.62		NL	RK009	10.00	10.30	0.30		SD
RK001	183.18	184.41	1.23	ARS	CO	RK009	10.30	15.20	4.90		SS
RK001	184.41	186.54	2.13		NL	RK009	15.20	23.20	8.00		CL
RK001	186.54	187.63	1.09	CASTL	CO	RK009	23.20	30.00	6.80		BA
RK001	187.63	212.21	24.58		NL	RK009	30.00	37.20	7.20		SL
RK001	212.21	213.66	1.45	POL	CO	RK009	37.20	38.30	1.10		SS
RK001	213.66	231.01	17.35		NL	RK009	38.30	47.40	9.10		SL
RK001	231.01	233.73	2.72	PIS	CO	RK009	47.40	50.60	3.20		SS
RK001	233.73	282.00	48.27		NL	RK009	50.60	65.60	15.00		SL
RK002	0.00	153.25	153.25		NL	RK009	65.60	71.60	6.00		SL
RK002	153.25	155.15	1.90	ARSU	CO	RK009	71.60	78.10	6.50		SL
RK002	155.15	155.85	0.70		NL	RK009	78.10	89.60	11.50		SL
RK002	155.85	156.85	1.00	ARS	CO	RK009	89.60	93.80	4.20		SL
RK002	156.85	160.35	3.50		NL	RK009	93.80	94.50	0.70		SS
RK002	160.35	161.35	1.00	CASL	CO	RK009	94.50	102.00	7.50		SL

RTIDL RELEASE - DRAFT

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK009	102.00	102.90	0.90		SS	RK010	30.00	31.50	1.50		SL
RK009	102.90	119.60	16.70		SL	RK010	31.50	37.00	5.50		SL
RK009	119.60	133.50	13.90		SL	RK010	37.00	37.00	0.00		SL
RK009	133.50	135.10	1.60		SS	RK010	37.00	40.70	3.70		SL
RK009	135.10	147.60	12.50		SL	RK010	40.70	43.90	3.20		SL
RK009	147.60	153.60	6.00		SL	RK010	43.90	49.00	5.10		SL
RK009	153.60	157.10	3.50		SL	RK010	49.00	60.00	11.00		SL
RK009	157.10	157.10	0.00		SS	RK010	60.00	62.00	2.00		SL
RK009	157.10	175.10	18.00		SL	RK010	62.00	65.00	3.00		SL
RK009	175.10	177.20	2.10		SS	RK010	65.00	75.00	10.00		SL
RK009	177.20	185.90	8.70		SL	RK010	75.00	78.00	3.00		SL
RK009	185.90	187.40	1.50		SS	RK010	78.00	78.00	0.00		SL
RK009	187.40	191.10	3.70		SL	RK010	78.00	84.00	6.00		SL
RK009	191.10	192.00	0.90		SS	RK010	84.00	88.00	4.00		SL
RK009	192.00	194.00	2.00		SL	RK010	88.00	99.50	11.50		SL
RK009	194.00	201.92	7.92		SL	RK010	99.50	103.50	4.00		SL
RK009	201.92	201.92	0.00		SS	RK010	103.50	114.00	10.50		SL
RK009	201.92	203.79	1.87	ARSU	CO	RK010	114.00	126.00	12.00		SL
RK009	203.79	204.20	0.41		SL	RK010	126.00	144.00	18.00		SL
RK009	204.20	205.22	1.02	ARS	CO	RK010	144.00	156.00	12.00		SL
RK009	205.22	209.30	4.08		SL	RK010	156.00	168.00	12.00		SL
RK009	209.30	211.08	1.78	CASL	CO	RK010	168.00	180.00	12.00		SL
RK009	211.08	211.90	0.82		SS	RK010	180.00	192.00	12.00		SL
RK009	211.90	211.90	0.00		SL	RK010	192.00	203.00	11.00		SL
RK009	211.90	217.70	5.80		SL	RK010	203.00	219.10	16.10		SL
RK009	217.70	218.50	0.80		MS	RK010	219.10	221.86	2.76		MS
RK009	218.50	220.30	1.80		SS	RK010	221.86	224.75	2.89	ARS	CO
RK009	220.30	225.70	5.40		SS	RK010	224.75	229.04	4.29		MS
RK009	225.70	235.80	10.10		SS	RK010	229.04	230.12	1.08	CASL	CO
RK009	235.80	240.16	4.36		MS	RK010	230.12	233.20	3.08		SS
RK009	240.16	241.48	1.32	POL	CO	RK010	233.20	238.00	4.80		SL
RK009	241.48	246.20	4.72		SL	RK010	238.00	238.50	0.50		MS
RK009	246.20	254.60	8.40		SS	RK010	238.50	252.00	13.50		SS
RK009	254.60	261.76	7.16		SL	RK010	252.00	255.30	3.30		SS
RK009	261.76	263.90	2.14	PIS	CO	RK010	255.30	260.22	4.92		SL
RK009	263.90	266.60	2.70		SL	RK010	260.22	261.81	1.59	POL	CO
RK009	266.60	266.60	0.00		SS	RK010	261.81	267.40	5.59		SL
RK009	266.60	276.50	9.90		SS	RK010	267.40	272.40	5.00		SS
RK009	276.50	278.20	1.70		SL	RK010	272.40	279.71	7.31		SL
RK009	278.20	286.60	8.40		SS	RK010	279.71	281.76	2.05	PIS	CO
RK009	286.60	299.60	13.00		SS	RK010	281.76	283.30	1.54		SL
RK009	299.60	311.60	12.00		SS	RK010	283.30	288.00	4.70		SS
RK009	311.60	316.99	5.39		SS	RK010	288.00	295.00	7.00		SS
RK010	0.00	2.20	2.20		SO	RK010	295.00	295.00	0.00		SL
RK010	2.20	3.00	0.80		CL	RK010	295.00	295.67	0.67		SL
RK010	3.00	6.00	3.00		CL	RK011	0.00	0.50	0.50		SO
RK010	6.00	12.00	6.00		SL	RK011	0.50	2.80	2.30		SA
RK010	12.00	16.00	4.00		SL	RK011	2.80	9.00	6.20		SL
RK010	16.00	17.00	1.00		CL	RK011	9.00	12.00	3.00		CL
RK010	17.00	19.00	2.00		SL	RK011	12.00	16.00	4.00		CL
RK010	19.00	21.00	2.00		SL	RK011	16.00	20.00	4.00		SL
RK010	21.00	30.00	9.00		SL	RK011	20.00	23.00	3.00		SL

RTIDL RELEASE - DWRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK011	23.00	24.00	1.00		SL	RK011	333.51	338.50	4.99		SL
RK011	24.00	27.30	3.30		SL	RK011	338.50	339.70	1.20		SS
RK011	27.30	29.00	1.70		SL	RK011	339.70	342.10	2.40		SL
RK011	29.00	30.50	1.50		SL	RK011	342.10	345.80	3.70		SS
RK011	30.50	37.10	6.60		SL	RK011	345.80	354.39	8.59		SL
RK011	37.10	45.20	8.10		SL	RK011	354.39	356.91	2.52	PIS	CO
RK011	45.20	55.00	9.80		SL	RK011	356.91	361.04	4.13		SL
RK011	55.00	61.00	6.00		SL	RK012	0.00	290.20	290.20		NL
RK011	61.00	66.00	5.00		SL	RK012	290.20	292.80	2.60	ARS	CO
RK011	66.00	68.00	2.00		SL	RK012	292.80	348.00	55.20		
RK011	68.00	71.00	3.00		SL	RK012	348.00	349.00	1.00	POL	CO
RK011	71.00	79.00	8.00		SL	RK012	349.00	354.00	5.00		
RK011	79.00	82.00	3.00		SL	RK012	354.00	355.50	1.50	PIS	CO
RK011	82.00	83.50	1.50		SL	RK012	355.50	366.39	10.89		
RK011	83.50	84.50	1.00		SL	RK013	0.00	2.00	2.00		SO
RK011	84.50	88.00	3.50		SL	RK013	2.00	4.00	2.00		SL
RK011	88.00	88.00	0.00		SL	RK013	4.00	10.00	6.00		SL
RK011	88.00	95.00	7.00		SL	RK013	10.00	15.00	5.00		SL
RK011	95.00	101.50	6.50		SL	RK013	15.00	18.00	3.00		SL
RK011	101.50	105.00	3.50		SL	RK013	18.00	21.00	3.00		SL
RK011	105.00	114.00	9.00		SL	RK013	21.00	26.00	5.00		SL
RK011	114.00	118.00	4.00		SL	RK013	26.00	27.00	1.00		SL
RK011	118.00	121.00	3.00		SL	RK013	27.00	36.00	9.00		SL
RK011	121.00	128.10	7.10		SL	RK013	36.00	48.00	12.00		SL
RK011	128.10	129.60	1.50		SS	RK013	48.00	53.60	5.60		SL
RK011	129.60	134.90	5.30		SL	RK013	53.60	56.50	2.90		SL
RK011	134.90	139.10	4.20		SS	RK013	56.50	57.20	0.70		SL
RK011	139.10	150.00	10.90		SL	RK013	57.20	59.00	1.80		SL
RK011	150.00	162.00	12.00		SL	RK013	59.00	60.70	1.70		SL
RK011	162.00	174.00	12.00		SL	RK013	60.70	64.90	4.20		SS
RK011	174.00	186.00	12.00		SL	RK013	64.90	69.80	4.90		SL
RK011	186.00	198.00	12.00		SL	RK013	69.80	77.00	7.20		SL
RK011	198.00	210.00	12.00		SL	RK013	77.00	79.20	2.20		SL
RK011	210.00	222.00	12.00		SL	RK013	79.20	80.80	1.60		SS
RK011	222.00	246.00	24.00		SL	RK013	80.80	89.70	8.90		SL
RK011	246.00	270.00	24.00		SL	RK013	89.70	90.90	1.20		SS
RK011	270.00	282.00	12.00		SL	RK013	90.90	114.00	23.10		SL
RK011	282.00	284.00	2.00		SL	RK013	114.00	114.00	0.00		SL
RK011	284.00	288.50	4.50		SL	RK013	114.00	123.20	9.20		SL
RK011	288.50	296.50	8.00		SL	RK013	123.20	125.00	1.80		SL
RK011	296.50	297.50	1.00		MS	RK013	125.00	131.00	6.00		SL
RK011	297.50	299.43	1.93		SL	RK013	131.00	134.00	3.00		SL
RK011	299.43	302.65	3.22	ARS	CO	RK013	134.00	140.90	6.90		SL
RK011	302.65	309.55	6.90		SL	RK013	140.90	141.60	0.70		SS
RK011	309.55	310.16	0.61	CASL	CO	RK013	141.60	156.00	14.40		SL
RK011	310.16	312.80	2.64		SS	RK013	156.00	168.00	12.00		SL
RK011	312.80	320.00	7.20		SL	RK013	168.00	180.00	12.00		SL
RK011	320.00	321.00	1.00		MS	RK013	180.00	192.00	12.00		SL
RK011	321.00	327.10	6.10		SL	RK013	192.00	204.00	12.00		SL
RK011	327.10	328.80	1.70		SS	RK013	204.00	215.40	11.40		SL
RK011	328.80	332.28	3.48		SL	RK013	215.40	220.70	5.30		SS
RK011	332.28	333.51	1.23	POL	CO	RK013	220.70	228.00	7.30		SS

RTIDL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK013	228.00	228.00	0.00		SL	RK014	51.00	54.00	3.00		SL
RK013	228.00	235.60	7.60		SL	RK014	54.00	59.50	5.50		SL
RK013	235.60	239.10	3.50		SS	RK014	59.50	62.00	2.50		SL
RK013	239.10	243.80	4.70		SL	RK014	62.00	66.00	4.00		SL
RK013	243.80	243.80	0.00		SS	RK014	66.00	72.00	6.00		SL
RK013	243.80	255.30	11.50		SL	RK014	72.00	84.00	12.00		SL
RK013	255.30	256.20	0.90		SS	RK014	84.00	96.00	12.00		SL
RK013	256.20	267.00	10.80		SL	RK014	96.00	109.20	13.20		SL
RK013	267.00	268.90	1.90		SS	RK014	109.20	110.50	1.30		SS
RK013	268.90	288.00	19.10		SL	RK014	110.50	120.00	9.50		SL
RK013	288.00	300.00	12.00		SL	RK014	120.00	130.30	10.30		SL
RK013	300.00	307.00	7.00		SL	RK014	130.30	132.20	1.90		SS
RK013	307.00	312.00	5.00		SL	RK014	132.20	145.00	12.80		SL
RK013	312.00	312.60	0.60		SS	RK014	145.00	145.00	0.00		SL
RK013	312.60	317.00	4.40		SS	RK014	145.00	147.00	2.00		SL
RK013	317.00	322.00	5.00		SL	RK014	147.00	161.90	14.90		SL
RK013	322.00	322.00	0.00		SL	RK014	161.90	164.90	3.00		SS
RK013	322.00	326.40	4.40		SS	RK014	164.90	178.00	13.10		SL
RK013	326.40	331.00	4.60		SL	RK014	178.00	180.50	2.50		SL
RK013	331.00	334.00	3.00		SL	RK014	180.50	190.90	10.40		SL
RK013	334.00	337.00	3.00		MS	RK014	190.90	192.20	1.30		SS
RK013	337.00	339.14	2.14		SL	RK014	192.20	210.00	17.80		SL
RK013	339.14	339.62	0.48	ARSU	CO	RK014	210.00	222.00	12.00		SL
RK013	339.62	340.06	0.44		MS	RK014	222.00	227.50	5.50		SL
RK013	340.06	341.82	1.76	ARS	CO	RK014	227.50	229.00	1.50		SL
RK013	341.82	346.96	5.14		SL	RK014	229.00	240.10	11.10		SL
RK013	346.96	348.17	1.21	CASL	CO	RK014	240.10	241.80	1.70		SS
RK013	348.17	349.60	1.43		SL	RK014	241.80	252.00	10.20		SL
RK013	349.60	355.00	5.40		SS	RK014	252.00	264.00	12.00		SL
RK013	355.00	358.00	3.00		SL	RK014	264.00	276.00	12.00		SL
RK013	358.00	360.00	2.00		MS	RK014	276.00	281.00	5.00		SL
RK013	360.00	364.00	4.00		SL	RK014	281.00	286.00	5.00		SS
RK013	364.00	365.00	1.00		MS	RK014	286.00	286.00	0.00		SL
RK013	365.00	368.75	3.75		SL	RK014	286.00	299.00	13.00		SL
RK014	0.00	1.00	1.00		CG	RK014	299.00	303.00	4.00		SS
RK014	1.00	2.00	1.00		CG	RK014	303.00	303.00	0.00		SL
RK014	2.00	4.20	2.20		SA	RK014	303.00	308.42	5.42		SL
RK014	4.20	8.00	3.80		SI	RK014	308.42	311.49	3.07	ARS	CO
RK014	8.00	11.00	3.00		SL	RK014	311.49	318.78	7.29		SL
RK014	11.00	12.00	1.00		SL	RK014	318.78	319.55	0.77	CASL	CO
RK014	12.00	14.00	2.00		SL	RK014	319.55	328.40	8.85		SS
RK014	14.00	17.00	3.00		SL	RK014	328.40	329.90	1.50		MS
RK014	17.00	20.00	3.00		SL	RK014	329.90	334.00	4.10		SS
RK014	20.00	23.50	3.50		SL	RK014	334.00	334.00	0.00		SL
RK014	23.50	25.00	1.50		SL	RK014	334.00	348.80	14.80		SS
RK014	25.00	30.00	5.00		SL	RK014	348.80	350.35	1.55		SL
RK014	30.00	33.50	3.50		SL	RK014	350.35	351.43	1.08	POL	CO
RK014	33.50	38.00	4.50		SL	RK014	351.43	359.70	8.27		SS
RK014	38.00	39.00	1.00		SL	RK014	359.70	367.80	8.10		SL
RK014	39.00	42.00	3.00		SL	RK015	0.00	1.50	1.50		SO
RK014	42.00	46.00	4.00		SL	RK015	1.50	3.00	1.50		SA
RK014	46.00	51.00	5.00		SL	RK015	3.00	6.00	3.00		SL

RTIL DL RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK015	6.00	18.00	12.00		SL	RK016	35.20	38.50	3.30		SL
RK015	18.00	31.00	13.00		SL	RK016	38.50	42.00	3.50		SL
RK015	31.00	35.50	4.50		SL	RK016	42.00	54.00	12.00		SL
RK015	35.50	39.00	3.50		SL	RK016	54.00	56.00	2.00		SL
RK015	39.00	41.00	2.00		SL	RK016	56.00	64.00	8.00		SL
RK015	41.00	51.00	10.00		SL	RK016	64.00	66.00	2.00		SL
RK015	51.00	60.00	9.00		SL	RK016	66.00	74.40	8.40		SL
RK015	60.00	84.20	24.20		SL	RK016	74.40	78.70	4.30		SS
RK015	84.20	85.00	0.80		SS	RK016	78.70	87.00	8.30		SL
RK015	85.00	90.00	5.00		SL	RK016	87.00	97.40	10.40		SL
RK015	90.00	106.70	16.70		SL	RK016	97.40	99.10	1.70		SS
RK015	106.70	107.65	0.95		SS	RK016	99.10	101.80	2.70		SL
RK015	107.65	120.00	12.35		SL	RK016	101.80	116.00	14.20		SS
RK015	120.00	122.40	2.40		SL	RK016	116.00	116.00	14.20		SL
RK015	122.40	124.50	2.10		SS	RK016	116.00	124.30	8.30		SL
RK015	124.50	127.30	2.80		SL	RK016	124.30	125.00	0.70		SS
RK015	127.30	128.90	1.60		SS	RK016	125.00	128.90	3.90		SL
RK015	128.90	140.80	11.90		SL	RK016	128.90	130.80	1.90		SS
RK015	140.80	146.70	5.90		SL	RK016	130.80	132.70	1.90		SL
RK015	146.70	167.00	20.30		SL	RK016	132.70	135.50	2.80		SS
RK015	167.00	183.70	16.70		SL	RK016	135.50	144.00	8.50		SL
RK015	183.70	184.20	0.50		SS	RK016	144.00	150.00	6.00		SS
RK015	184.20	198.00	13.80		SL	RK016	150.00	162.00	12.00		SL
RK015	198.00	203.30	5.30		SL	RK016	162.00	178.20	16.20		SL
RK015	203.30	217.02	13.72		SS	RK016	178.20	181.30	3.10		SS
RK015	217.02	218.84	1.82	ARSU	CO	RK016	181.30	192.00	10.70		SL
RK015	218.84	219.92	1.08		SL	RK016	192.00	204.00	12.00		SL
RK015	219.92	221.58	1.66	ARS	CO	RK016	204.00	215.60	11.60		SL
RK015	221.58	222.70	1.12		SL	RK016	215.60	220.00	4.40		SS
RK015	222.70	223.61	0.91	CASL	CO	RK016	220.00	225.90	5.90		SL
RK015	223.61	230.70	7.09		SS	RK016	225.90	238.69	12.79		SS
RK015	230.70	232.70	2.00		SL	RK016	238.69	238.86	0.17		SL
RK015	232.70	246.30	13.60		SS	RK016	238.86	239.68	0.82		SS
RK015	246.30	250.56	4.26		SL	RK016	239.68	240.35	0.67		SL
RK015	250.56	251.74	1.18	POL	CO	RK016	240.35	242.32	1.97		SS
RK015	251.74	264.20	12.46		SL	RK016	242.32	243.64	1.32		SS
RK015	264.20	272.48	8.28		SS	RK016	243.64	245.22	1.58		SL
RK015	272.48	274.66	2.18	PIS	CO	RK016	245.22	246.48	1.26		SS
RK015	274.66	286.88	12.22			RK016	246.48	247.50	1.02		SS
RK015	286.88	288.24	1.36			RK016	247.50	248.18	0.68		SS
RK016	0.00	1.00	1.00		SO	RK016	248.18	249.18	1.00		SS
RK016	1.00	1.50	0.50		SI	RK016	249.18	250.76	1.58		SL
RK016	1.50	2.50	1.00		SI	RK016	250.76	250.96	0.20		MS
RK016	2.50	6.00	3.50		SL	RK016	250.96	252.35	1.39		SL
RK016	6.00	7.00	1.00		SL	RK016	252.35	254.50	2.15		SL
RK016	7.00	12.00	5.00		SL	RK016	254.50	256.06	1.56		MS
RK016	12.00	18.00	6.00		MS	RK016	256.06	257.49	1.43		SL
RK016	18.00	20.70	2.70		SL	RK016	257.49	257.70	0.21		CA
RK016	20.70	26.00	5.30		SL	RK016	257.70	258.35	0.65		SL
RK016	26.00	30.00	4.00		SL	RK016	258.35	260.22	1.87		SL
RK016	30.00	32.00	2.00		SL	RK016	260.22	260.81	0.59		XM
RK016	32.00	35.20	3.20		SL	RK016	260.81	260.85	0.04		XM

RTIDL RELEASE - DWR

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK016	260.85	260.88	0.03	ARS	CO	RK016	292.42	293.71	1.29		SL
RK016	260.88	260.97	0.09	ARS	CO	RK016	293.71	294.26	0.55		MS
RK016	260.97	261.12	0.15	ARS	CO	RK016	294.26	294.34	0.08	POL	CO
RK016	261.12	261.16	0.04	ARS	CO	RK016	294.34	294.38	0.04	POL	CO
RK016	261.16	261.36	0.20	ARS	CO	RK016	294.38	294.41	0.03	POL	NR
RK016	261.36	261.42	0.06	ARS	CO	RK016	294.41	294.53	0.12	POL	CO
RK016	261.42	261.55	0.13	ARS	CO	RK016	294.53	294.56	0.03	POL	CO
RK016	261.55	261.59	0.04	ARS	CO	RK016	294.56	294.58	0.02	POL	CO
RK016	261.59	261.68	0.09	ARS	CO	RK016	294.58	294.62	0.04	POL	CO
RK016	261.68	261.80	0.12	ARS	CO	RK016	294.62	294.72	0.10	POL	CO
RK016	261.80	261.87	0.07	ARS	CO	RK016	294.72	294.82	0.10	POL	CO
RK016	261.87	262.02	0.15	ARS	CN	RK016	294.82	294.86	0.04	POL	CO
RK016	262.02	262.29	0.27	ARS	CO	RK016	294.86	294.95	0.09	POL	CO
RK016	262.29	262.47	0.18	ARS	CO	RK016	294.95	295.24	0.29	POL	CO
RK016	262.47	262.56	0.09	ARS	CN	RK016	295.24	295.25	0.01	POL	CO
RK016	262.56	263.00	0.44	ARS	CO	RK016	295.25	295.29	0.04	POL	CO
RK016	263.00	263.44	0.44	ARS	CO	RK016	295.29	295.30	0.01	POL	CO
RK016	263.44	263.56	0.12	ARS	CO	RK016	295.30	295.39	0.09	POL	CO
RK016	263.56	263.66	0.10	ARS	CO	RK016	295.39	295.55	0.16		XM
RK016	263.66	263.69	0.03	ARS	TU	RK016	295.55	296.42	0.87		SS
RK016	263.69	263.89	0.20	ARS	CO	RK016	296.42	300.35	3.93		SL
RK016	263.89	264.35	0.46		MS	RK016	300.35	305.53	5.18		SL
RK016	264.35	264.92	0.57		MS	RK016	305.53	306.35	0.82		MS
RK016	264.92	267.16	2.24		SS	RK016	306.35	306.77	0.42		MS
RK016	267.16	268.41	1.25		SL	RK016	306.77	307.25	0.48		SL
RK016	268.41	268.67	0.26		MS	RK016	307.25	307.98	0.73		SS
RK016	268.67	268.77	0.10	CAS	CO	RK016	307.98	311.66	3.68		SL
RK016	268.77	268.83	0.06	CAS	CO	RK016	311.66	312.39	0.73		SS
RK016	268.83	268.91	0.08	CAS	CO	RK016	312.39	315.07	2.68		SL
RK016	268.91	269.04	0.13	CAS	CO	RK016	315.07	315.76	0.69		MS
RK016	269.04	269.33	0.29	CAS	CO	RK016	315.76	316.62	0.86		SL
RK016	269.33	269.41	0.08	CAS	CO	RK016	316.62	317.24	0.62		SS
RK016	269.41	269.46	0.05	CAS	CO	RK016	317.24	319.23	1.99		SS
RK016	269.46	269.48	0.02	CAS	CO	RK016	319.23	319.23	1.99		SL
RK016	269.48	269.50	0.02	CAS	CO	RK016	319.23	321.76	2.53		SS
RK016	269.50	269.52	0.02		TU	RK016	321.76	321.76	2.53		SL
RK016	269.52	269.66	0.14		CO	RK016	321.76	322.79	1.03		SS
RK016	269.66	269.96	0.30		CO	RK016	322.79	327.76	4.97		SL
RK016	269.96	270.49	0.53		SL	RK016	327.76	328.59	0.83		MS
RK016	270.49	272.90	2.41		SS	RK016	328.59	328.90	0.31	PIS	CO
RK016	272.90	276.35	3.45		SL	RK016	328.90	329.49	0.59	PIS	CO
RK016	276.35	277.24	0.89		MS	RK016	329.49	329.66	0.17	PIS	NR
RK016	277.24	277.69	0.45		SL	RK016	329.66	329.72	0.06		MS
RK016	277.69	278.68	0.99		SS	RK016	329.72	330.32	0.60		SL
RK016	278.68	282.35	3.67		SS	RK016	330.32	330.34	0.02		CL
RK016	282.35	285.97	3.62		SS	RK016	330.34	330.36	0.02		CO
RK016	285.97	286.44	0.47		MS	RK016	330.36	330.46	0.10		MS
RK016	286.44	288.35	1.91		SL	RK016	330.46	330.55	0.09		SL
RK016	288.35	290.22	1.87		SL	RK016	330.55	334.69	4.14		SS
RK016	290.22	290.99	0.77		MS	RK016	334.69	336.35	1.66		SL
RK016	290.99	291.85	0.86		SL	RK017	0.00	1.00	1.00		SL
RK016	291.85	292.42	0.57		SS	RK017	1.00	4.00	3.00		SL

RTIDK RELEASE - DWM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK017	4.00	7.00	3.00		SL	RK017	291.25	292.87	1.62		SL
RK017	7.00	14.00	7.00		SL	RK017	292.87	294.11	1.24	CASL	CO
RK017	14.00	17.00	3.00		SL	RK017	294.11	295.94	1.83		SL
RK017	17.00	19.00	2.00		SL	RK017	295.94	297.35	1.41		SL
RK017	19.00	22.00	3.00		SL	RK017	297.35	300.33	2.98		SS
RK017	22.00	25.20	3.20		SL	RK017	300.33	300.75	0.42		SL
RK017	25.20	40.00	14.80		SS	RK017	300.75	302.72	1.97		SL
RK017	40.00	48.00	8.00		SL	RK017	302.72	303.93	1.21		MS
RK017	48.00	60.00	12.00		SL	RK017	303.93	306.65	2.72		SS
RK017	60.00	71.00	11.00		SL	RK017	306.65	307.17	0.52		SS
RK017	71.00	72.90	1.90		SL	RK017	307.17	309.77	2.60		MS
RK017	72.90	79.40	6.50		SS	RK017	309.77	310.99	1.22		SL
RK017	79.40	96.00	16.60		SL	RK017	310.99	312.75	1.76		SL
RK017	96.00	104.70	8.70		SL	RK017	312.75	315.36	2.61		SS
RK017	104.70	109.00	4.30		SS	RK017	315.36	317.15	1.79		SL
RK017	109.00	122.90	13.90		SL	RK017	317.15	318.82	1.67		MS
RK017	122.90	132.00	9.10		SL	RK017	318.82	318.95	0.13		MS
RK017	132.00	143.50	11.50		SL	RK017	318.95	320.24	1.29	POL	CO
RK017	143.50	145.30	1.80		SS	RK017	320.24	320.31	0.07		MS
RK017	145.30	160.10	14.80		SL	RK017	320.31	322.60	2.29		SS
RK017	160.10	162.60	2.50		SS	RK017	322.60	327.91	5.31		SL
RK017	162.60	177.90	15.30		SL	RK017	327.91	331.21	3.30		SL
RK017	177.90	183.00	5.10		SS	RK017	331.21	333.44	2.23		SS
RK017	183.00	186.00	3.00		SL	RK017	333.44	335.34	1.90		SL
RK017	186.00	197.50	11.50		SS	RK017	335.34	335.94	0.60		SS
RK017	197.50	203.40	5.90		SS	RK017	335.94	336.84	0.90		SL
RK017	203.40	210.00	6.60		SL	RK017	336.84	342.84	6.00		SL
RK017	210.00	222.30	12.30		SS	RK017	342.84	343.95	1.11		SL
RK017	222.30	229.90	7.60		SS	RK017	343.95	345.89	1.94	PIS	CO
RK017	229.90	239.30	9.40		SL	RK017	345.89	346.95	1.06		SS
RK017	239.30	245.60	6.30		SS	RK017	346.95	352.03	5.08		SS
RK017	245.60	250.30	4.70		SL	RK017	352.03	353.00	0.97		SL
RK017	250.30	255.40	5.10		SS	RK017	353.00	354.83	1.83		SS
RK017	255.40	261.50	6.10		SL	RK018	0.00	7.00	7.00		CL
RK017	261.50	271.15	9.65		SS	RK018	7.00	26.00	19.00		SL
RK017	271.15	272.60	1.45		SS	RK018	26.00	44.00	18.00		SS
RK017	272.60	274.66	2.06		SL	RK018	44.00	47.10	3.10		SL
RK017	274.66	276.70	2.04		MS	RK018	47.10	48.70	1.60		SS
RK017	276.70	276.80	0.10		SL	RK018	48.70	62.70	14.00		SL
RK017	276.80	280.18	3.38		SL	RK018	62.70	67.80	5.10		SS
RK017	280.18	282.49	2.31		MS	RK018	67.80	72.00	4.20		SL
RK017	282.49	283.36	0.87		SL	RK018	72.00	80.70	8.70		SL
RK017	283.36	284.06	0.70		MS	RK018	80.70	81.40	0.70		SS
RK017	284.06	285.28	1.22		SL	RK018	81.40	94.70	13.30		SL
RK017	285.28	286.28	1.00	ARS	CO	RK018	94.70	96.60	1.90		SS
RK017	286.28	286.59	0.31	ARS	TU	RK018	96.60	106.10	9.50		SL
RK017	286.59	288.32	1.73	ARS	CO	RK018	106.10	110.80	4.70		SS
RK017	288.32	288.39	0.07		XM	RK018	110.80	118.00	7.20		SL
RK017	288.39	288.75	0.36		MS	RK018	118.00	148.10	30.10		SS
RK017	288.75	289.31	0.56		SL	RK018	148.10	150.60	2.50		SL
RK017	289.31	290.56	1.25		MS	RK018	150.60	152.40	1.80		SS
RK017	290.56	291.25	0.69		SS	RK018	152.40	164.00	11.60		SL

RTIO RELEASE - DNRM

Hole ID	Depth from	Depth to	Thick	Seam	Lith	Hole ID	Depth from	Depth to	Thick	Seam	Lith
RK018	164.00	167.70	3.70		SS	RK019	154.42	159.26	4.84		SS
RK018	167.70	203.30	35.60		SL	RK019	159.26	162.19	2.93		SL
RK018	203.30	205.22	1.92		SS	RK019	162.19	163.34	1.15		SS
RK018	205.22	214.13	8.91		SS	RK019	163.34	164.98	1.64	ARS	CO
RK018	214.13	216.26	2.13		SL	RK019	164.98	165.13	0.15	ARS	XM
RK018	216.26	216.79	0.53		SS	RK019	165.13	165.50	0.37	ARS	TU
RK018	216.79	217.66	0.87		SL	RK019	165.50	166.38	0.88	ARS	CO
RK018	217.66	219.47	1.81	ARS	CO	RK019	166.38	166.48	0.10		MS
RK018	219.47	219.96	0.49	ARS	TU	RK019	166.48	169.45	2.97		SL
RK018	219.96	220.99	1.03	ARS	CO	RK019	169.45	169.48	0.03		MS
RK018	220.99	224.15	3.16		SL	RK019	169.48	170.55	1.07	CASL	CO
RK018	224.15	225.16	1.01	CASL	CO	RK019	170.55	173.22	2.67		SL
RK018	225.16	225.43	0.27		SL	RK019	173.22	174.34	1.12		SS
RK018	225.43	226.41	0.98		SS	RK019	174.34	175.95	1.61		SL
RK018	226.41	227.21	0.80		SL	RK019	175.95	176.22	0.27		SS
RK018	227.21	228.09	0.88		SS	RK019	176.22	176.91	0.69		XM
RK018	228.09	233.12	5.03		SL	RK019	176.91	177.02	0.11		CO
RK018	233.12	238.06	4.94		SS	RK019	177.02	177.07	0.05		XM
RK018	238.06	238.57	0.51		SL	RK019	177.07	197.80	20.73		SS
RK018	238.57	248.71	10.14		SS	RK019	197.80	198.47	0.67		SL
RK018	248.71	251.72	3.01		SL	RK019	198.47	198.86	0.39		SL
RK018	251.72	252.05	0.33		MS	RK019	198.86	198.92	0.06		XM
RK018	252.05	253.23	1.18	POL	CO	RK019	198.92	200.45	1.53	POL	CO
RK018	253.23	253.32	0.09		XM	RK019	200.45	200.49	0.04		XM
RK018	253.32	254.81	1.49		SL	RK019	200.49	201.68	1.19		SL
RK018	254.81	255.71	0.90		SS	RK019	201.68	202.80	1.12		SS
RK018	255.71	258.72	3.01		SL	RK019	202.80	205.65	2.85		SL
RK018	258.72	259.37	0.65		SL	RK019	205.65	210.54	4.89		SS
RK018	259.37	260.90	1.53		SS	RK019	210.54	211.34	0.80		SL
RK018	260.90	264.72	3.82		SL	RK019	211.34	211.84	0.50		SS
RK018	264.72	270.06	5.34		SL	RK019	211.84	217.89	6.05		SL
RK018	270.06	270.72	0.66		SS	RK019	217.89	218.13	0.24		XM
RK018	270.72	272.95	2.23		SL	RK019	218.13	220.05	1.92	PIS	CO
RK018	272.95	273.25	0.30		MS	RK019	220.05	220.50	0.45		SL
RK018	273.25	273.30	0.05		CO	RK019	220.50	223.74	3.24		SS
RK018	273.30	273.60	0.30		MS	RK019	223.74	224.33	0.59		SL
RK018	273.60	273.83	0.23		XM	RK019	224.33	228.52	4.19		SS
RK018	273.83	275.50	1.67	PIS	CO						
RK018	275.50	276.76	1.26		SS						
RK018	276.76	282.76	6.00		SL						
RK019	0.00	2.50	2.50		SO						
RK019	2.50	19.00	16.50		SI						
RK019	19.00	108.00	89.00		SL						
RK019	108.00	111.00	3.00		SS						
RK019	111.00	115.10	4.10		SL						
RK019	115.10	117.60	2.50		SS						
RK019	117.60	127.20	9.60		SL						
RK019	127.20	144.00	16.80		SS						
RK019	144.00	152.64	8.64		SS						
RK019	152.64	154.42	1.78		SL						

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Appendix 3 – Exploration Design Predicted Seam Depths

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_01	376.3	380.5	4.2	ARS
SE_01	390.8	391.1	0.3	CASU
SE_01	406.7	407.8	1.1	CASL
SE_01	444.8	450.3	5.4	POL
SE_02	403.3	403.6	0.4	ARS
SE_02	427.2	427.3	0.1	CASU
SE_02	454.3	455.7	1.4	CASL
SE_02	492.8	494.4	1.6	POL
SE_03	358.7	360.0	1.3	ARS
SE_03	378.3	378.6	0.3	CASU
SE_03	391.8	393.0	1.2	CASL
SE_03	443.6	445.5	1.9	POL
SE_04	320.5	324.5	4.0	ARS
SE_04	324.6	324.7	0.1	CASU
SE_04	327.9	328.3	0.4	CASL
SE_04	387.6	393.0	5.4	POL
SE_05	361.9	365.7	3.8	ARS
SE_05	377.0	377.1	0.2	CASU
SE_05	384.8	386.0	1.2	CASL
SE_05	420.6	426.4	5.9	POL
SE_06	308.0	309.3	1.3	ARS
SE_06	327.6	328.6	1.1	CASL
SE_06	371.7	376.1	4.4	POL
SE_06	379.9	379.9	0.0	PIS
SE_07	261.6	263.2	1.6	ARS
SE_07	275.7	276.2	0.5	CASU
SE_07	284.3	285.1	0.8	CASL
SE_07	328.0	332.2	4.3	POL
SE_08	283.4	285.2	1.8	ARS
SE_08	298.6	299.2	0.6	CASU
SE_08	304.8	305.4	0.5	CASL
SE_08	348.0	351.5	3.6	POL
SE_09	312.9	314.2	1.3	ARS
SE_09	323.3	323.4	0.2	CASU
SE_09	326.8	327.6	0.8	CASL
SE_09	377.7	380.9	3.2	POL
SE_10	273.1	275.5	2.3	ARS
SE_10	280.2	280.7	0.5	CASL
SE_10	334.5	339.4	5.0	POL
SE_11	350.4	352.5	2.1	ARS
SE_11	383.9	384.0	0.1	CASU

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_11	394.2	395.5	1.4	CASL
SE_11	427.2	428.9	1.7	POL
SE_12	306.2	309.1	2.9	ARS
SE_12	320.4	320.4	0.0	CASU
SE_12	324.8	325.3	0.5	CASL
SE_12	375.5	378.9	3.5	POL
SE_13	307.7	310.9	3.2	ARS
SE_13	332.3	332.4	0.2	CASU
SE_13	353.2	354.1	0.9	CASL
SE_13	369.6	371.9	2.4	POL
SE_14	361.1	364.0	2.9	ARS
SE_14	404.5	404.6	0.1	CASU
SE_14	421.5	423.2	1.6	CASL
SE_14	427.1	428.5	1.5	POL
SE_15	324.1	327.6	3.5	ARS
SE_15	352.3	352.6	0.3	CASU
SE_15	383.8	384.9	1.1	CASL
SE_15	384.9	386.4	1.5	POL
SE_16	364.8	367.6	2.8	ARS
SE_16	406.8	407.0	0.2	CASU
SE_16	431.8	433.5	1.6	CASL
SE_16	433.5	434.5	1.0	POL
SE_17	285.9	288.5	2.6	ARS
SE_17	298.9	299.0	0.2	CASU
SE_17	318.7	319.3	0.6	CASL
SE_17	348.9	351.8	2.9	POL
SE_18	248.9	250.9	2.0	ARS
SE_18	253.8	254.2	0.4	CASU
SE_18	275.2	275.7	0.5	CASL
SE_18	312.0	314.7	2.7	POL
SE_19	244.4	245.8	1.3	ARS
SE_19	250.9	251.2	0.3	CASU
SE_19	258.7	259.3	0.6	CASL
SE_19	307.8	310.9	3.1	POL
SE_20	267.2	271.1	3.8	ARS
SE_20	275.9	276.6	0.6	CASU
SE_20	312.5	312.9	0.4	CASL
SE_20	327.0	327.3	0.3	POLU
SE_20	327.9	329.3	1.5	POLL
SE_21	296.3	300.0	3.7	ARS
SE_21	312.5	313.0	0.5	CASU

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Release

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_21	350.0	350.6	0.6	CASL
SE_21	356.2	357.8	1.7	POL
SE_22	240.1	242.9	2.8	ARS
SE_22	251.9	252.6	0.6	CASU
SE_22	266.9	267.4	0.5	CASL
SE_22	302.2	305.2	3.0	POL
SE_23	382.9	387.1	4.1	ARS
SE_23	403.5	403.9	0.5	CASU
SE_23	417.4	418.2	0.9	CASL
SE_23	447.0	452.5	5.5	POL
SE_24	393.1	396.8	3.7	POL
SE_24	412.8	413.3	0.5	PIS
SE_25	373.2	374.3	1.1	ARS
SE_25	412.2	415.8	3.6	POL
SE_25	445.6	446.0	0.4	PIS
SE_26	409.2	411.9	2.8	ARS
SE_26	465.5	469.7	4.2	POL
SE_26	484.0	484.2	0.2	PIS
SE_27	301.0	303.7	2.7	ARS
SE_27	328.0	331.8	3.8	POL
SE_27	373.4	373.7	0.2	PIS
SE_28	282.3	283.2	0.9	ARS
SE_28	295.5	295.6	0.1	CASL
SE_28	331.1	335.2	4.1	POL
SE_28	355.6	356.0	0.4	PIS
SE_29	378.5	381.0	2.5	ARS
SE_29	407.5	411.5	3.9	POL
SE_29	450.2	450.4	0.2	PIS
SE_30	355.3	357.2	1.9	ARS
SE_30	383.3	386.8	3.5	POL
SE_31	452.0	454.4	2.4	ARS
SE_31	501.4	505.7	4.2	POL
SE_32	448.1	450.9	2.8	ARS
SE_32	503.2	507.4	4.2	POL
SE_32	524.1	524.2	0.0	PIS
SE_33	360.4	362.2	1.7	ARS
SE_33	366.0	367.3	1.3	CASU
SE_33	377.5	378.4	0.9	CASL
SE_33	404.4	408.4	3.9	POL
SE_34	263.0	263.9	0.9	ARS
SE_34	280.7	282.2	1.5	CASU
SE_34	282.5	283.5	1.0	CASL

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_34	303.1	306.8	3.7	POL
SE_35	326.5	327.0	0.5	ARS
SE_35	347.0	348.2	1.2	CASU
SE_35	371.9	375.6	3.7	POL
SE_36	371.7	373.0	1.3	ARS
SE_36	386.2	388.1	1.9	CASU
SE_36	394.1	394.8	0.6	CASL
SE_36	423.6	427.3	3.7	POL
SE_36	446.9	446.9	0.0	PIS
SE_37	404.6	406.2	1.6	ARS
SE_37	411.8	413.5	1.7	CASU
SE_37	429.3	430.6	1.3	CASL
SE_37	462.6	466.4	3.8	POL
SE_37	479.8	479.8	0.0	PIS
SE_38	446.7	448.7	2.0	ARS
SE_38	500.8	505.0	4.2	POL
SE_39	511.1	512.2	1.1	ARS
SE_39	519.2	519.9	0.7	CASU
SE_39	547.3	548.8	1.5	CASL
SE_39	584.9	588.0	3.0	POL
SE_39	588.1	588.3	0.1	PIS
SE_40	339.3	344.5	5.2	ARS
SE_40	347.5	348.0	0.4	CASU
SE_40	381.7	382.2	0.5	CASL
SE_40	390.1	390.2	0.1	POLU
SE_40	392.5	394.2	1.8	POLL
SE_41	317.0	321.7	4.7	ARS
SE_41	327.1	327.7	0.5	CASU
SE_41	366.7	367.2	0.5	CASL
SE_41	372.7	374.1	1.4	POLL
SE_42	275.0	279.4	4.4	ARS
SE_42	285.2	285.8	0.6	CASU
SE_42	315.2	315.7	0.5	CASL
SE_42	332.1	332.6	0.5	POLU
SE_42	334.2	336.1	1.9	POLL
SE_43	324.4	328.9	4.6	ARS
SE_43	330.3	330.6	0.2	CASU
SE_43	351.1	351.8	0.6	CASL
SE_43	381.9	382.8	0.9	POLU
SE_43	384.0	386.5	2.6	POLL
SE_44	365.1	369.5	4.4	ARS
SE_44	370.3	370.6	0.4	CASU

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Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_44	386.4	387.0	0.6	CASL
SE_44	413.6	413.9	0.4	POLU
SE_44	414.8	416.7	1.9	POLL
SE_45	359.2	364.1	4.9	ARS
SE_45	365.8	366.1	0.4	CASU
SE_45	392.1	392.6	0.5	CASL
SE_45	408.0	408.1	0.1	POLU
SE_45	409.9	411.7	1.8	POLL
SE_46	381.5	385.4	3.9	ARS
SE_46	387.4	388.0	0.6	CASU
SE_46	394.0	394.4	0.5	CASL
SE_46	423.4	423.5	0.1	POLU
SE_46	423.8	425.3	1.4	POLL
SE_46	451.7	453.0	1.3	PIS
SE_47	398.0	401.8	3.8	ARS
SE_47	403.9	404.4	0.4	CASU
SE_47	418.8	419.4	0.5	CASL
SE_47	443.1	444.4	1.3	POLL
SE_47	465.6	466.1	0.5	PIS
SE_48	382.4	383.0	0.6	ARS
SE_48	388.4	388.6	0.2	CASU
SE_48	394.8	395.3	0.5	CASL
SE_48	431.0	432.1	1.1	POL
SE_49	348.4	350.9	2.5	ARS
SE_49	354.5	354.8	0.3	CASU
SE_49	359.0	359.4	0.4	CASL
SE_49	388.0	388.9	0.9	POL
SE_49	404.2	405.0	0.8	PIS
SE_50	376.6	380.1	3.5	ARS
SE_50	382.5	383.0	0.5	CASU
SE_50	387.6	388.2	0.5	CASL
SE_50	418.9	418.9	0.0	POLU
SE_50	419.2	420.5	1.3	POLL
SE_50	446.8	448.4	1.6	PIS
SE_51	347.0	347.7	0.7	ARSU
SE_51	348.1	350.2	2.1	ARSL
SE_51	357.6	358.2	0.5	CAS
SE_51	383.3	384.3	1.0	POL
SE_51	402.5	405.1	2.6	PIS
SE_52	363.6	364.1	0.5	ARSU
SE_52	364.4	365.8	1.4	ARSL
SE_52	374.5	375.9	1.4	CAS

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_52	399.0	400.3	1.3	POL
SE_52	419.4	420.9	1.5	PIS
SE_53	223.5	226.7	3.2	ARS
SE_53	230.0	231.0	0.9	CASL
SE_53	257.5	259.0	1.4	POL
SE_53	282.7	284.5	1.8	PIS
SE_54	175.5	178.7	3.2	ARS
SE_54	180.7	181.7	1.0	CASL
SE_54	208.9	210.4	1.5	POL
SE_54	231.2	233.1	1.9	PIS
SE_55	200.0	203.2	3.3	ARS
SE_55	205.7	206.6	0.9	CASL
SE_55	233.0	234.4	1.4	POL
SE_55	258.6	260.3	1.7	PIS
SE_56	194.9	198.3	3.4	ARS
SE_56	199.7	200.6	1.0	CASL
SE_56	226.6	228.0	1.4	POL
SE_56	250.7	252.5	1.8	PIS
SE_57	259.4	262.2	2.8	ARS
SE_57	269.4	270.3	0.9	CASL
SE_57	302.3	303.2	0.9	POL
SE_57	322.7	323.9	1.2	PIS
SE_58	236.6	239.7	3.1	ARS
SE_58	243.2	243.2	0.0	CASU
SE_58	244.1	244.9	0.9	CASL
SE_58	272.2	273.4	1.2	POL
SE_58	300.0	301.4	1.4	PIS
SE_59	301.4	304.4	3.0	ARS
SE_59	308.7	308.7	0.0	CASU
SE_59	310.9	312.1	1.1	CASL
SE_59	338.3	338.8	0.5	POL
SE_59	359.4	360.2	0.8	PIS
SE_60	287.2	290.3	3.1	ARS
SE_60	292.7	293.9	1.3	CASL
SE_60	318.0	318.7	0.7	POL
SE_60	341.3	342.2	1.0	PIS
SE_61	253.6	256.8	3.2	ARS
SE_61	260.6	261.7	1.1	CAS
SE_61	285.1	286.4	1.3	POL
SE_61	314.8	316.2	1.4	PIS
SE_62	256.4	259.5	3.1	ARS
SE_62	263.4	264.5	1.2	CAS

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Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_62	290.4	291.8	1.4	POL
SE_62	314.7	316.7	2.0	PIS
SE_63	190.1	193.2	3.1	ARS
SE_63	196.2	197.4	1.1	CAS
SE_63	225.9	227.4	1.5	POL
SE_63	246.7	248.7	1.9	PIS
SE_64	211.6	214.5	2.9	ARS
SE_64	214.8	216.1	1.3	CASL
SE_64	238.5	238.6	0.1	POLU
SE_64	239.5	239.6	0.1	POLL
SE_64	266.9	267.2	0.3	PIS
SE_65	246.9	249.8	2.9	ARS
SE_65	251.1	252.4	1.3	CASL
SE_65	274.6	274.6	0.0	POLU
SE_65	275.2	275.3	0.1	POLL
SE_65	302.2	302.4	0.2	PIS
SE_66	268.2	271.0	2.8	ARS
SE_66	274.8	275.8	1.0	CASL
SE_66	300.4	300.5	0.1	POLU
SE_66	300.9	301.1	0.2	POLL
SE_67	336.8	340.1	3.2	ARS
SE_67	341.6	341.8	0.1	CASU
SE_67	346.5	347.4	0.8	CASL
SE_67	371.8	372.2	0.4	POL
SE_68	331.2	334.8	3.7	ARS
SE_68	335.2	335.4	0.2	CASU
SE_68	345.1	345.8	0.7	CASL
SE_68	379.1	381.1	2.0	POL
SE_69	214.2	217.0	2.8	ARS
SE_69	217.1	218.4	1.3	CASL
SE_69	241.5	241.8	0.2	POLU
SE_70	415.2	415.7	0.6	CASU
SE_70	417.0	417.9	0.9	CASL
SE_70	458.3	459.4	1.1	POL
SE_71	262.9	266.2	3.3	ARS
SE_71	267.4	268.6	1.2	CASL
SE_71	293.2	294.3	1.1	POL
SE_71	315.9	317.4	1.4	PIS

Planned Site ID	Depth From (m)	Depth To (m)	Coal Thickness	Seam Name
SE_72	292.8	295.8	3.0	ARS
SE_72	299.3	300.5	1.1	CASL
SE_72	323.2	323.5	0.3	POL
SE_72	349.0	349.2	0.2	PIS
SE_73	311.3	315.4	4.1	ARS
SE_73	325.8	326.3	0.5	CASU
SE_73	366.6	367.1	0.6	CASL
SE_73	368.6	369.8	1.2	POLL
SE_74	233.6	236.4	2.7	ARS
SE_74	237.9	239.0	1.2	CASL
SE_74	262.6	262.7	0.2	POLU
SE_74	263.6	263.7	0.0	POLL
SE_75	336.1	339.7	3.6	ARS
SE_75	343.5	344.0	0.5	CASU
SE_75	346.6	347.1	0.4	CASL
SE_75	375.1	376.3	1.2	POL
SE_75	398.3	399.6	1.2	PIS
SE_76	266.2	269.2	3.0	ARS
SE_76	274.6	275.8	1.2	CASL
SE_76	303.1	303.9	0.8	POL
SE_76	323.8	325.1	1.2	PIS
SE_77	385.6	386.7	1.1	ARS
SE_77	394.5	395.3	0.8	CAS
SE_77	426.9	427.8	0.9	POL
SE_77	435.9	436.1	0.2	PIS
SE_78	313.0	316.0	2.9	ARS
SE_78	320.7	321.9	1.2	CAS
SE_78	345.5	346.8	1.3	POL
SE_78	367.5	369.4	1.9	PIS
SE_79	501.2	501.4	0.2	ARS
SE_79	564.4	564.5	0.2	CASL
SE_79	594.8	596.1	1.3	POL
SE_80	358.9	362.8	3.9	ARS
SE_80	364.5	364.9	0.4	CASU
SE_80	371.9	372.4	0.6	CASL
SE_80	400.0	401.5	1.6	POL
SE_80	424.6	425.2	0.5	PIS

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ADDITIONAL INFORMATION TO SUPPORT AN APPLICATION

FOR RENEWAL OF

EXPLORATION PERMIT FOR COAL

890

PROJECT NAME
ROCKLAND

RTI DL RELEASE - DNRM

BY

HLM COAL AUSTRALIA PTY LTD
A.C.N. 109 020 126

JULY 2013

Release

TABLE OF CONTENTS

- Details of Exploration Data, Searches, Geological Concept/Models and Other Criteria Used in Selection of the Area
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- Brief Description of machinery, Equipment etc to be Used and Proposed Measures to Minimise Damage to the Environment
- Financial Status of the Applicant
- Proof of Identity of Applicant
- Statement of Public interest

FIGURES:

1. Map: Location map
2. Map: Stratigraphy
3. Map: Surrounding EPPS
4. Map: Year 10 & 11 Drill Hole location map
5. Map: Year 12 & 13 Drill Hole location map

APPDENDIX:

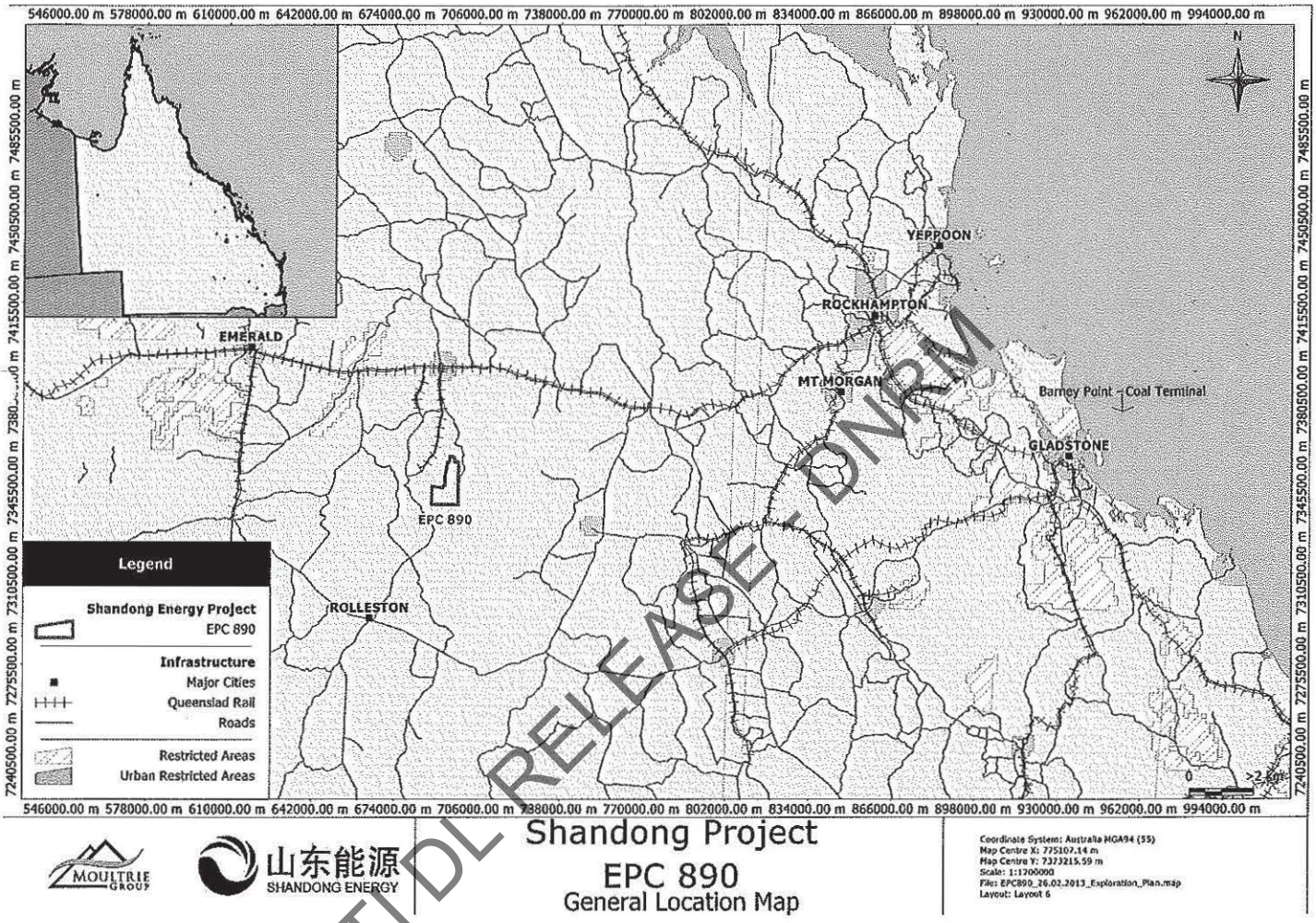
Annexure 1: Moultrie Group Technical Capability
Annexure 2: Financial Capability
Annexure 3: ASIC extract

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Details of Exploration Data, Searches, Geological Concept/Models and Other Criteria Used in the Selection of the Area

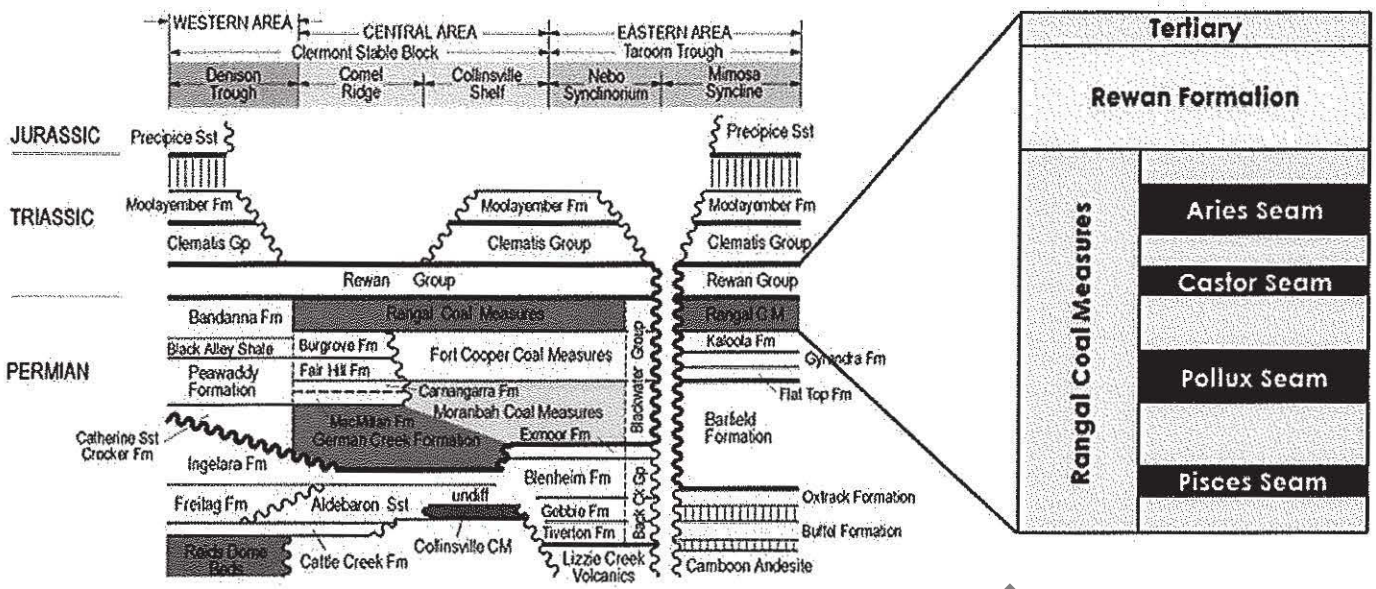
The project area comprises forty (40) sub-blocks and has a total area of 120km². The Project Area is located 40km south of Blackwater and 55km northeast of Rolleston in Central Queensland



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BMA's South Blackwater Open Cut mine is located 10km to the west and has similar geology to the project area. BMA are mining the Aries, Castor and Taurus/Argo coal seams of the Rangal Coal measures where they have a coal product which is medium volatile, hard coking coal; medium volatile, weak coking coal and medium volatile thermal coal.

Release



In October 2008, Saunders released an Inferred resource for the project area of 880Mt. This estimation was based on data with a low level of confidence due to lack of geophysical logs and coal quality. Subsequently, Bradbury & Willets (2010) reported an updated Inferred resource of 700Mt for the project area; this estimation was lower than what Saunders released in 2008 due to relinquishment of sub-blocks.

Methodology

Exploration strategies increase in effectiveness if they are focussed, relevant and timely. The design plan used is outlined in the following Exploration Design:

- Define the objective of the Exploration Design and client requirements:
  - Coal measures targeted;
  - Type of exploration;
  - Depth of formations targeted;
  - Consideration of budget; and,
  - Location of exploration sites.
- Plan hole locations;
- Planned geophysical survey requirements;
- Estimated prediction of seam depths;
- Plan sampling and laboratory analysis requirements;

Exploration Rationale

The Late Permian Rangal Coal Measures underlie the project area and dip east-southeast. The coal measures consist of five (5) main seams (Aries, Castor, Pollux, Orion and Pisces). The top seam is the Aries seam, with the base of the Rangal Coal Measures being defined as the Yarabee Tuff (thin reworked tuff which provides an easily identifiable gamma high in geophysical logs) (Saunders, 2008). The Yarrabee Tuff splits the Pisces seam in the Blackwater and Foxleigh areas. The non-

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Release

coal lithologies of the Rangal Coal Measures comprise lithic clay-cemented sandstone and siltstone (Saunders, 2008).

Between 1966 and 1978 Clutha Development drilled 141 holes within ATP 25 at that time ATP 25 covered the northern portion of the project area. Geophysical logging of boreholes was not used in the Bowen Basin until 1975 onwards; therefore only two of the boreholes drilled by Clutha have geophysical logs. EPC 890 was granted in 2004 to Rocklands Richfield, Rocklands carried out a small drilling plan in the south west corner of the tenement obtaining positive coal quality results (soft coking coal product).

In October 2008, Saunders released an Inferred resource for the project area of 880Mt, this estimation was based the Clutha Historical drilling and more recent Rocklands Richfield drilling. Subsequently, Bradbury & Willets (2010) reported an Inferred resource of 700Mt for the project area; this estimation was lower than what Saunders released in 2008 due to a reduction in the size of the EPC.

The Exploration Design has been developed using the previous exploration carried out on EPC 890. The purpose of the exploration design is to further develop the level of resource within the project area and assist in progressing to a Mineral Development Lease.

In the Southern Zone of project area the historical boreholes that have geophysical logs and coal quality will be incorporated within the Exploration Design. The historical boreholes in the northern section of the tenure do not have geophysical logs, implicating that there is low confidence in the data. The Exploration Design aims to verify the results of the historical boreholes by drilling at relevant distances from the historical boreholes, then using the 'new' boreholes to correlate between sites. If correlation is successful, as proven by a Geostatistical study, then the historical boreholes without geophysics will be included in the updated resource

Data gathered from boreholes planned in this Exploration Design will assist in further correlation of seams and improve the understanding of the extent of the seams. Limited data was obtained from historical drilling, as such further information will be gathered to determine the quantity and quality of the coal and to better define a coal resource compliant with the JORC guidelines.

Moultrie Geology suggests that exploration be focused in areas where there is some proven coal seam continuity based on review of the historic boreholes and where historic boreholes intersected thick seams of good quality coal similar to the coal mined at South Blackwater.

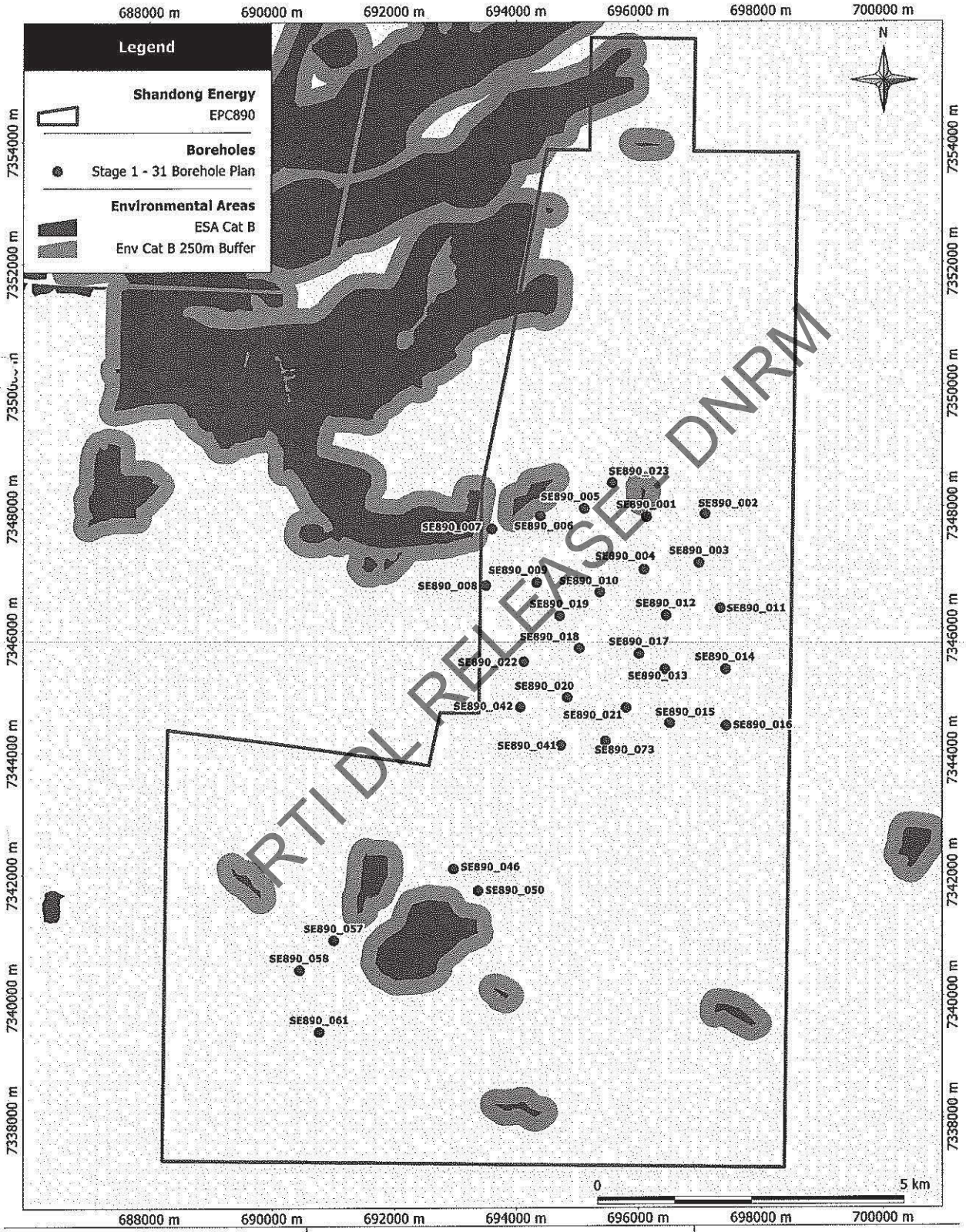
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Work & Expenditure completed for the current reporting period

Approximately $ was spent on designing and implementing 9 hole drill program incorporating both open chip holes and cored holes. Geophysical logging was conducted on the holes. Sites were rehabilitated although some rehabilitation is still outstanding.
Collected data was entered into a database and modelled.

Proposed Exploration Program and Budget for Each Year of the Term

The following figure 3 illustrates the proposed drilling work program for year 10 & 11 of the new term:-



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MOULTRIE GROUP

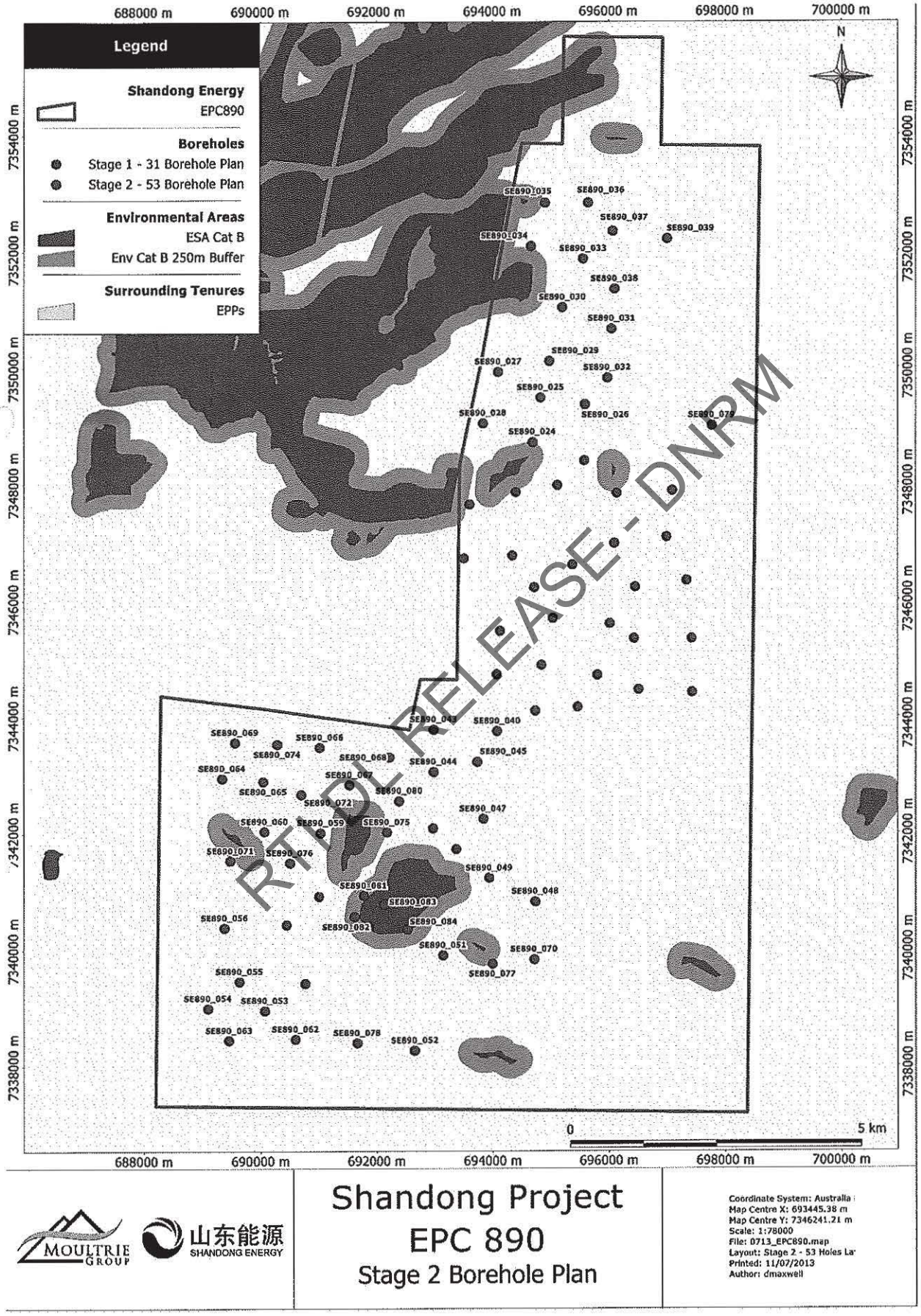
山东能源 SHANDONG ENERGY

Shandong Project
EPC 890
2013 Exploration Plan Map

Coordinate System: Australia
Map Centre X: 693445.38 m
Map Centre Y: 7346241.21 m
Scale: 1:78000
File: 0713_EPC890.map
Layout: Stage 1 - 31 Holes La
Printed: 10/07/2013
Author: dmaxwell

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The following figure 4 illustrates the proposed drilling work program for year 12 & 13 of the new term:-



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Numbers and Qualifications of Professionals Staff Responsible for Planning, Conducting and Reporting the Investigations

Attached at Annexure 1

Brief Description of Machinery & Equipment

- Truck Mounted Drill Rigs
- Water trucks
- Geophysical logging unit
- Backhoe
- Grader

Proposed Measures to Minimise Damage to the Environment

Internal Audits of the implementation of this Environmental Management System will be conducted every 12 months. Any deficiencies of faults found in the audit shall be recorded with Non Conformance and Corrective Action Report. Any non-conformance or corrective action report shall be addressed as soon as practicably possible and be signed off during the completion of the next scheduled audit. The results of these audits shall be made available to all employees and Moultrie Group management.

To ensure continual improvement and effectiveness of the Environmental Management System, Moultrie Group employees shall participate in reviews of the system annually.

The following areas shall be covered in the review:

- Results of audits conducted on projects
- Moultrie Group overall Environmental performance
- Frequency or recurrence of environmental incidents
- Effectiveness of existing SOP'S and JSA's for hazard identification, risk assessment and control
- Changes in legislation, codes of practice or Australian Standards that may have effect on compliance requirements and consequently existing risk control measures.
- Employee suggestions or recommendations;
- Any client feedback on environmental performance;
- Recommendations for improvement of the Environmental Management System.
- The findings of Management Reviews shall be documented to ensure the implementation of these recommendations.

Financial Status of the Applicant

Attached at Annexure 2

Proof of Identity of the Applicant

Attached ASIC Extract annexure 3

Statement of Public Interest

HLM Coal Australia Pty Ltd states that public interest will not be harmed by renewal of the permit.

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Queensland Government

Department of **Environment and Heritage Protection**

Ref EPC809 / MIN200899109

5 March 2013

Fergus O'Brien
Manager
Exploration Management Unit
Mining and Petroleum Operations
Department of Natural Resources and Mines
PO Box 15216
CITY EAST QLD 4002

Department of Natural Resources & Mines
RECEIVED
12 MAR 2013
9.30 am/pm A.G.
TIME BY
EXPLORATION MANAGEMENT UNIT

Dear Mr O'Brien

EPC890 – Non Compliance

The Department of Environment and Heritage Protection (the department) would like to bring to the attention of the Department of Natural Resources and Mines, Exploration unit that EPC890 is currently under investigation for non-compliance with the conditions of Environmental Authority MIN200899109. Rehabilitation is outstanding from exploration activities carried out in 2007/2008.

It has been bought to the department's attention that the environmental authority holders for EPC890 wish to further expand the exploration activities on this tenure and potentially use this tenure to meet the prerequisite requirements for lodging a Mineral Development License. The consultants have also unofficially advised they are having trouble getting authorisation and funding from HLM Coal Australia Pty Ltd to finalise the remaining rehabilitation activities on EPC890.

Environmental Authority / Tenure holder:
HLM Coal Australia Pty Ltd
Registered address: 15 Lyall Street, South Perth WA 6151

Consultants:
Geos Mining, Suite 301, 68 Alfred Street, Milsons Point NSW 2061

The department respectfully requests that the Department of Natural Resources and Mines take this current compliance activity into consideration before reaching a decision regarding the granting of additional tenure to HLM Coal Australia Pty Ltd. It is the departments view that until this compliance investigation is finalised and rehabilitation completed, an Environmental Authority for further activities could not be granted to HLM Coal Australia Pty Ltd. Attached for your records are copies of two departmental letters relating to the outstanding rehabilitation.

Should you have any further enquiries, please do not hesitate to contact Linda Hughes, Environmental Officer for the department on telephone 07 4987 9345.

Yours sincerely

49-Sch4 - Signature

Christopher Loveday
Manager
Environmental Services(Mining) –Central Region
Department of Environment and Heritage Protection

Enc Compliance letters

Environmental Services - Mining
Central Region - Emerald
PO Box 19
99 Hospital Rd
Emerald QLD 4720
Ph. (07) 4987 9320
Fax. (07) 4987 9399
Website www.dnr.qld.gov.au
ABN 46 640 294 485

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Author / Mathew Johannesen
File / Ref number: EPC 890
Directorate / Unit Southern Region
Phone 3238 3814

05 October 2010

HML Coal Australia Pty Ltd
C/- Tenement Administration
Services Pty Ltd
PO Box 8045
WOOLLOONGABBA QLD 4102

Dear Sir/Madam,

EXPLORATION PERMIT FOR COAL (EPC) NO. 890

I refer to your application for renewal lodged 19 July 2010 and advise that the A/Mining Registrar, as delegate for the Minister on 04 October 2010, pursuant to section 147A of the *Mineral Resources Act 1989* (MRA), renewed Exploration Permit for Coal Number 890 for three (3) years from 19 October 2010 to 18 October 2013.

Compliance with the approved work program and expenditure commitments of this exploration permit is a condition of grant of this tenure. Failure to comply with this requirement may result in the cancellation of this tenure. Should exceptional circumstances mean that you are unable to reasonably meet these requirements, you are strongly advised to seek a variation of these conditions in accordance with Section 141C of the MRA. Also, consideration will only be given to any further renewal sought if the provisions of section 139 (1) of the MRA are met.

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Notice of Entry

Pursuant to the provisions of Section 163 of the MRA you are required to give each owner of land covered by the permit written notice of entry before initial entry is made by you under the authority of the permit. Such notice/s must be given at least five (5) business days before entry or within such shorter period acceptable to the owner and endorsed on the notice. Section 164 provides for the term and renewal of such notices of entry. A copy of this notice is available on the Department's website.

DEPARTMENT OF MINES AND ENERGY
05 OCT 2010
RECEIVED IN RECORDS MANAGEMENT

Southern Region
Mines
Dept. Employment, Economic Development and Innovation
Podium 2
Ground Floor, Landcentre Building,
Cnr Main and Vulture Streets,
WOOLLOONGABBA QLD 4102
PO Box 1475 Coorparoo
Queensland 4151 Australia
Telephone + 61 7 3238 3814
Facsimile + 61 7 3405 5346
www.dme.qld.gov.au

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Overlapping Tenures

Pursuant to section 318CH and 318CI of the *Mineral Resources Act 1989* additional provisions may apply to the grant of an exploration permit for coal over land in the area of an authority to prospect or petroleum lease. It is your responsibility to determine the existence of an authority to prospect or petroleum lease within the boundaries of the exploration permit. There may also be additional requirements when over land in the area of geothermal or greenhouse gas authorities. Please refer to the attached information sheet.

Uranium

If, following exploration, you intend to apply for mining tenements within the boundaries of your exploration permit you should be aware that the Government's policy is that it will not grant mining tenure for the purpose of mining uranium in Queensland. Nor will it permit the treatment or processing of uranium in the State.

Underground Coal Gasification

You should be aware that the Government is currently considering its position with respect to underground coal gasification activities. The Department can not provide an assurance that any higher form of tenure beyond exploration will be granted for this purpose.

Cultural Heritage

Under section 23 of the Aboriginal Cultural Heritage Act 2003 a person who carries out an activity must take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage (the "cultural heritage duty of care"). Maximum penalties for breaching the duty of care are $750,000 for a corporation and $75,000 for an individual.

You will comply with the cultural heritage duty of care if you are acting in accordance with gazetted cultural heritage duty of care guidelines. An assessment of your proposed activity against the duty of care guidelines will help determine whether or to what extent Aboriginal cultural heritage may be harmed by your activity. It will also help determine whether you need to undertake a search of the cultural heritage database and register.

If following an assessment of the duty of care guidelines you believe cultural heritage may be harmed by your proposed activity, you should contact the Cultural Heritage Coordination Unit for further advice on (07) 323 83838 or e-mail cultural.heritage@derm.qld.gov.au. Further information on cultural heritage, together with a copy of the duty of care guidelines and cultural heritage search forms, may also be obtained from www.derm.qld.gov.au.

Health and Safety

To protect the health and safety of everyone on the mine site you must comply with the Coal Mining Safety and Health Act 1999 and Coal Mining Safety and Health Regulations 2001 for coal exploration.

- Mine Notification to Chief Inspector of Site Senior Executive appointment;
- Mine Record - to record all specified safety records;
- Notification to Inspector of Mines of either commencement or cessation of operations;
- Notice of Accident to Inspector of Mines;
- Underground Workings to be surveyed;
- Arrangements for persons working alone;
- Openings and excavations to be protected.

RTI DL RELEASE - DNRM

Release

Please contact the Regional Inspector of Mines before work commences to ascertain your health and safety responsibilities.

Northern Region	(07) 4760 7408
Central Region	(07) 4938 4605
Southern Region	(07) 3238 3785

Please find enclosed the recently endorsed Original Permit Document.

We remind you of the requirements of Section 141(1)(f)(i) of the MRA which requires the lodgement of an Annual Report and Statement of Expenditure within 1 month after the anniversary date of the permit. Failure to comply with this may result in cancellation of the Exploration Permit per Section 161(c) of the MRA.

You are also reminded that annual rent in the amount of $4,934.00 is due 19 October 2010.

Yours faithfully,

49-Sch4 - Signature

Brigitte Kabel
A/ Mining Registrar
Southern Region

RTI DL RELEASE - DNRM

Southern Region
Mines
Dept. Employment, Economic Development and Innovation
Podium 2
Ground Floor, Landcentre Building,
Cnr Main and Vulture Streets,
WOOLLOONGABBA QLD 4102
PO Box 1475 Coorparoo
Queensland 4151 Australia
Telephone + 61 7 3238 3814
Facsimile + 61 7 3405 5346
www.dme.qld.gov.au

REGISTERED POST – SENDER TO KEEP
495200008015

Queensland Government

Department of **Natural Resources and Mines**

Notice to progress

Section 386L of the *Mineral Resources Act 1989*

This letter is a notice to progress an exploration permit application under section 386L of the *Mineral Resources Act 1989 (MRA).* A permit application may be rejected if an applicant does not comply with the requirements of this notice.

HLM COAL AUSTRALIA PTY LTD
c/- Tenement Administration Services Pty Ltd
Level 4, 345 Ann st,
Brisbane, QLD 4000

Reference: EPC 890

Date: 7-Nov-2013

Take notice that: Pursuant to s.386L of the Mineral Resources Act 1989 (MRA) this notice requires you to progress the application for renewal of exploration permit number 890 to allow the application to be decided.

Your application has progressed through the necessary native title process and departmental assessments and in order to decide the application you now must complete the statutory requirements stated in this notice.

This is the first and final notice to progress issued for this permit application.

RTI DL RELEASE - DNRM

A. Grounds for this notice

This notice to progress is issued based on the following grounds:

1. Our records indicate that the applicant has failed to submit the annual report which was due on 18-October-2013.
2. Our records indicate that the applicant has not clearly described their compliance with approved work program as no exploration data was reported in QDEX since year 2009.

B. Requirements and action

You are required to take the following actions:

1. Submit the annual exploration report which was due on 18-October-2013.
2. Submit a proper report which must clearly demonstrate " applicant's compliance with previously approved work program for year 2007 to year 2013 term" .

You are required to take the above mentioned action/s within twenty (20) business days of your receipt of this notice.

If you are unable to complete these actions within the prescribed timeframe you may request an extension of time to comply with the requirements of this notice.

And take notice that: failure to comply with this notice to progress within the prescribed timeframe may result in your permit application being rejected pursuant to s386L (4) of the MRA.

Release

Please do not hesitate to call a member of the Exploration Management Team on exploration@dnrm.qld.gov.au or +61 (07) 3008 5742 if you require further information.

Signature	Date 7-11-2013
49-Sch4 - Signature	Enquiries:
Minister's Delegate	Department of Natural Resources and Mines
Fergus O'Brien	**Tel:** 07 3008 5742
	Fax: 07
Manager, Exploration Management Unit Mining and Petroleum Operations Department Natural Resources and Mines	**Email:** exploration@dnrm.qld.gov.au

RTI DL RELEASE - DNRM

HLM COAL AUSTRALIA PTY LTD
A.C.N. 109 020 126
925 NUDGEE ROAD
BANYO QLD 4014

17 July 2013

The Mining Registrar
DNR&M
Department of Mines & Energy
PO Box 15216 CITY EAST
BRISBANE QLD 4002

Department of Natural Resources & Mines
RECEIVED
17 JUL 2013
3:04 pm
BY
MINE
SOUTHERN REGION

ATT: KATE BYRNE

Dear Kate,

RE: EXPLORATION PERMIT FOR COAL 890

Pursuant to Section 147 of the MRA 1989, Application for renewal of exploration permit;

(1) The holder of an exploration permit may, within the renewal period, apply to the chief executive for a renewal of the permit.

Please find attached the following correspondence in relation to the renewal application of the above mentioned exploration permit over the total area of 40 sub-blocks:

- Duly executed MRA-06;
- Work program & expenditure for a further 5 year term;
- Technical capability Moultrie Geology Group;
- Financial Capability is provided by Rocklands Richfield Limited a sister company to HLM Coal Australia Pty Ltd;
- ASIC extract as proof of registration of a company;
- Renewal fee of $551;

If you have any queries or require further documentation, please contact the undersigned on (07) 3326 1200

Yours faithfully
For HLM COAL AUSTRALIA PTY LTD

Old Mines & Energy Department of Employment, Economic Development & Innovation
SOUTHERN REGION (MINES)
FEE $551-00
DATE PAID 17/7/13
RECEIPT No. BR316638
FOR Annual EPM 890
INITIALS

49-Sch4 - Signature

Liangxin Zhu
Director

PT DL RELEASE - DNRM

Queensland Government

EPM/C No.
(Office Use Only)

Mines ABN 59 020 847 551

APPLICATION FOR RENEWAL OF EXPLORATION PERMIT

Section 147
Mineral Resources Act 1989
Form Number MRA-06 Version Number 4

OFFICIAL USE ONLY	
EPM/C No.	
PART A	
Received AT	Received BY
DATE / /	TIME : AM PM
FEE Paid $551	RECEIPT no. GR 316634
PART B	
ENTERED on register	
(SIGNATURE)	49-Sch4 - Signature
DATE 7/8/13	

The completed original of this renewal application and any attachments, must be submitted with the prescribed fee.

Note: A document containing information that is false or misleading may attract a maximum penalty of 200 penalty units.

If form is to be completed by hand please print clearly in ink and use block letters.

1. DETAILS OF HOLDER

Company Name/Surname	1.1	HLM COAL AUSTRALIA PTY LTD			
Given Name(s)	1.2				
ACN (if company)	1.3	109 020 126	Percentage	1.4	100 %
Company Name/Surname	1.1				
Given Name(s)	1.2				
ACN (if company)	1.3		Percentage	1.4	0.00 %
Company Name/Surname	1.1				
Given Name(s)	1.2				
ACN (if company)	1.3		Percentage	1.4	0.00 %
Company Name/Surname	1.1				
Given Name(s)	1.2				
ACN (if company)	1.3		Percentage	1.4	0.00 %
			Total Percentage	1.5	100.00 %

GUIDE FOR APPLICANTS

Question 1.1
Specify company name or surname of applicant.

Question 1.2
Specify given name(s) of applicant.

Question 1.3
If company, what is the Australian Company Number (ACN)?

Question 1.4
Specify percentage of interest held by applicant.

Question 1.5
The total interest must equal 100%. If you are entering these details online, right click the 'O' and select 'Update Field'.

RTI DL RELEASE - DNRM

GUIDE FOR APPLICANTS

Question 1.6
One person must be shown as the nominated applicant, upon whom any notice may be served on behalf of the applicant(s).
Specify the name of the nominated applicant.

Question 1.7
Specify address of nominated applicant.

Question 1.8
Specify phone number of nominated applicant.

Question 1.9
Specify fax number of nominated applicant.

Question 1.10
Specify e-mail address of nominated applicant.

Question 2.1
Identify the number of the exploration permit.

Question 2.2
Specify the project name, if any.

Question 2.3
Identify the expiry date of the permit (month, date and year).

Question 2.4
Specify the term required. This term is not to exceed 5 years.

Question 3
Compliance with the native title provisions of the *Commonwealth Native Title Act* 1993 is not necessary on land where native title is taken to have been extinguished (i.e. "exclusive" land tenures).

However, if you wish to include in your application land that may be subject to Native Title (i.e. "non-exclusive" land tenures), you must comply with the relevant native title procedure irrespective as to whether or not a native title claim is lodged over the area.

Nominated Person	1.6	C/- MR LIANGXIN ZHU
Address	1.7	925 Nudgee Road BANYO QLD 4014
Phone Number	1.8	(07) 3326 1200
Fax Number	1.9	(07) 3267 8528
E-mail	1.10	49-Sch4

2. RENEWAL APPLICATION DETAILS

Exploration Permit Number	2.1	890
Project Name	2.2	ROCKLANDS PROJECT
Expiry date	2.3	18 / 10 / 2013
Term required	2.4	5 year(s)

3. NATIVE TITLE

Was the permit originally granted after 23 December 1996?

3.1	☒	YES *(go to Q 3.2)*	☐	NO *(go to Q 4)*

Was the permit originally granted over both extinguishing and non-exclusive tenures?

3.2	☒	YES *(go to Q 3.3)*	☐	NO *(go to Q 4.1)*

Is the land subject to an Indigenous Land Use Agreement (ILUA)?

3.3	☐	YES *(go to Q 4)*	☒	NO *(go to Q 3.4)*

Is the permit conditioned for high or low impact activities?

3.4	☒	YES *(go to Q 3.5)*	☐	NO *(go to Q 3.5)*

Was the permit granted using the Expedited Procedure?

3.5	☐	YES	☒	NO

RTI DL RELEASE - DNRM

GUIDE FOR APPLICANTS

Question 4.1
Enter the name of place where the application was signed, the day of the month, the month and the year when the form is signed.

Question 4.2
Insert full name of the applicant(s).

Question 4.3
Signature of applicant(s).

Question 4.4
Insert full name of Witness.

Question 4.5
Signature of Witness.

Execution of Documents by an Agent

If an agent or the holder of a power of attorney is signing a document, required to be lodged by an Act, on behalf of another, the agent or holder of the power of attorney must produce current, written evidence of their authority to act at the time of lodgement.

All of the holders of the tenure MUST execute the appointment of agent or the power of attorney for the appointment or power of attorney to be effective. A company signing an appointment of agent or power of attorney must do so in accordance with the corporation law and/or the articles of association of the company.

Question 5
Tick the appropriate boxes to indicate compliance.

4. SIGNATURES

I/We:

- solemnly sincerely and truly declare that the information provided in this form is true and correct.
- understand that any false or misleading information may attract a maximum penalty of 200 penalty units.

4.1	Signed at **BRISBANE** this **18** day of **JUNE** , 2013		
4.2	HLM COAL AUSTRALIA PTY LTD LIANGXIN ZHU - HLM COAL AUSTRALIA PTY LTD	4.3	49-Sch4 - Signature
4.2		4.3	
4.2		4.3	
4.2		4.3	
	Full name and title of Applicant(s)		Signature
4.4	49-Sch4	4.5	49-Sch4 - Signature
	Full name of Witness		Signature of Witness

5. ACCOMPANIMENTS

5.1 The following must accompany this form:

	Tick
• Prescribed application fee	☒
• A statement specifying: o Describing the program of work proposed to be carried out; and o The estimated human, technical and financial resources to be used to carry out the exploration work during each year of the term of the exploration permit, if renewed. o Detailing the applicant(s) financial and technical resources for carrying out the exploration work for the renewed term.	☒ ☒ ☒
• A brief summary of exploration and expenditure for the *current* term.	☒
• The original Instrument of Exploration Permit.	☒

RTI DL RELEASE - DNRM

Disclaimer
The Queensland Government is collecting information provided on this form for the purposes of assessing the suitability of your renewal of an exploration permit and maintain the public searchable register under the *Mineral Resources Act 1989* (the Act). This information is authorised by sections 147 and 387 of the Act. Some or all of this information may be provided to other agencies of the Queensland Government for the issuing of an environmental authority, to make register searches, extracts or copies under section 387B of the Act, or to make other approvals as required under the Act. Your personal information will not otherwise be disclosed to any other third party without your consent, unless authorised or required by law.

ASIC
Australian Securities & Investments Commission

Australian Company

HLM COAL AUSTRALIA PTY LTD
ACN 109 020 126

Extracted from ASIC's database at AEST 11:30:27 on 17/07/2013

Company Summary

Name:	HLM COAL AUSTRALIA PTY LTD
ACN:	109 020 126
ABN:	26 109 020 126
Registration Date:	10/05/2004
Next Review Date:	10/05/2014
Status:	Registered
Type:	Australian Proprietary Company, Limited By Shares
Locality of Registered Office:	Brisbane QLD 4000
Regulator:	Australian Securities & Investments Commission

Further information relating to this organisation may be purchased from ASIC.

RTI DL RELEASE - DNRM

LEADER ACCOUNTANCY
Proactive Accountants

Leader Tax & Business Adviser Pty Ltd
TA Leader Accountancy
ABN: 12 162 092 980
+61 7 3727 8822
+61 422 603 702
Suite 207, Sunnybank Times Square
250 McCullough Street, Sunnybank, QLD 4109

2 July 2013

DNR&M
Department Mines & Energy
P O Box 1475
COORPAROO QLD 4151

RTI DL RELEASE - DNRM

To whom it may concern:

We address the requirement of financial capability and advise that this firm acts as accountants to Rocklands Richfield Limited.

Rocklands Richfield Limited is a valued client of this firm and has a history of trading. It is presently in a sound financial position and accordingly we have no reason to believe that the company cannot meet any financial obligations in relation to all of their intended operations in Queensland.

We can confirm that the company has funds in excess of [49-Sch4 - Business affairs] to fund operations.

If you require any further information, please contact Jerry Zhao in our office on 07 3727 8822.

Yours faithfully,

[49-Sch4 - Signature]

Jerry Zhao

Director