APPENDIX 3.1:

PASA CORRESPONDENCE

Petroleum Agency SA



Tygerpoort Building · 7 Mispel Street · Bellville 7530 · P.O. Box 5111 Tygervalley 7536 · South Africa Tel: +27 21 938 3500 · Fax: +27 21 938 3520 E-mail: plu@petroleumagencysa.com

04 February 2022

Ref: 12/3/294/1A

Enquiries: AM Thovhakale +2721 938 3579

Email: tsmithard@rhinoresourcesltd.com

Mr. Travis Smithard Rhino Oil and Gas Exploration South Africa (Pty) Ltd Suite 307 Icon Building Foreshore Cape Town 8000

Dear Mr. Smithard

APPLICATION FOR A FIRST RENEWAL OF AN EXPLORATION RIGHT IN TERMS OF SECTION 81 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002): IN RESPECT OF THE MAGISTERIAL DISTRICTS OF VENTERSBURG, LINDLEY, SENEKAL, VREDE, HARRISMITH, HEILBRON, VENTERSBURG, FRANKFORT, KROONSTAD AND REITZ, ONSHORE IN LIMPOPO PROVINCE

Receipt of the above-mentioned application is hereby acknowledged.

Kindly be advised that your application for a renewal of an Exploration Right in terms of Section 81 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), ("the Act") is receiving attention. Its merits and quality will now be considered in detail for purposes of granting or refusal.

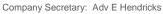
Furthermore, it has been noted that you have relinquished 20% of your Exploration Right area as required in terms of clause 10 of the Exploration Right. We would therefore like to draw your attention to clause 10.7 of the Exploration Right which provides that the Holder shall within 3 (three) months from the date of relinquishment furnish a copy of all the Required Data that has not been previously furnished to the Grantor and all copies of the

Directors:

MB Masuku (Chairperson)

PZ Dhlamini DLT Dondur CC Mpelwane MV Ngwenya RH Nkambule Dr T Ramontja

Dr PC Masangane (Executive Director)





Existing Data or a certificate to the effect that all such copies have been destroyed. Should there still be any Data that has not been provided to the Agency you are required to submit such on or before the 04th of April 2021.

Furthermore, section 43 of the Act requires the Holder of the right to apply for a Closure Certificate upon relinquishment of a portion of the exploration area, you are therefore required to submit such an application within 180 days from the date of relinquishment.

Yours sincerely,

S MALIE

MANAGER: LICENSING AND REGULATION

Directors:



RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD

ENVIRONMENTAL IMPACT ASSESSMENTS FOR WELL-DRILLING EXPLORATION ACTIVITIES IN 294 ER AND 318 ER, FREE STATE PROVINCE

PASA PRE-APPLICATION MEETING

DATE	19 May 2022		
VENUE:	Petroleum Agency SA Offices, Tygerpoort Building, 7 Mispel Street, Bellville		
PROJECT:	Environmental Impact Assessme 318 ER, Free State Province	Environmental Impact Assessments for Well-Drilling Exploration Activities In 294 ER And 318 ER, Free State Province	
SLR PROJECT NUMBER:	720.18034.00018 and 720.18034	.00020	
PURPOSE OF MEETING:	To provide an introduction t	o the proposed project;	
		To engage with the Agency on SLR's understanding of the legislative framework and associated authorisation requirements; and	
	To discuss the planned approach to the environmental Impact Assessment (EIA) processes and associated public participation.		
ATTENDANCE:	Name:	Organisation:	
	Phumla Ngesi (PN)	Petroleum Agency SA (PASA)	
	Sharon Adams (SA)		
	Natasha Thomas (NT)		
	Matthew Hemming (MH)	SLR Consulting (South Africa) (Pty) Ltd (SLR)	
	Theo Wicks (TW)		
	Nicholas Arnott (NA)		
APOLOGIES:	Travis Smithard	Rhino Oil and Gas Exploration South Africa (Pty) Ltd	
DISTRIBUTION:	All		

NO.	NOTES
1	WELCOME AND INTRODUCTIONS
1.1	Matthew Hemming (MH) of SLR Consulting (South Africa) (Pty) Ltd (SLR) welcomed all to the pre-application meeting for the proposal by Rhino Oil and Gas Exploration South Africa (Pty) Ltd (Rhino Oil and Gas) to undertake well-drilling exploration activities in 294 ER and 318 ER, after which individual introductions were provided. A full list of Attendees is provided in Appendix A. Travis Smithard, of Rhino Oil and Gas, had provided apologies as he is currently out of the country.
2	PRESENTATION (see Attachment B)
2.1	MH commenced with the presentation and set out the objectives for the meeting and then provided information regarding the proposed projects and associated exploration activities, an overview of SLR's understanding of the legislative framework, as well as the proposed approach to the EIA processes and associated public participation. The relevant detail presented is included in the presentation attached in Appendix B. During the presentation, various points were discussed. The key points set out below (grouped by topic and not set out in chronological order).
3	DISCUSSION
3.1	 Project Description MH indicated that Travis Smithard had contacted him prior to the meeting to note that Rhino Oil and Gas are considering increasing the total number of wells to be drilled to 20 rather than 15 as indicated on the presentation slides. MH confirmed that the total number of wells to be drilled will be confirmed in the EIA process.



NO.	NOTES
	PN noted that the works programme submitted as part of the Exploration Right Renewal application must be updated accordingly to reflect the planned number of wells.
3.2	 Areas of Interest and Specialist Studies MH set out the approach followed for desktop sensitivity screening of the defined Areas of Interest (AOI) within each Exploration Right area prior to Rhino Oil and Gas identifying potential locations for well-drilling. The screening aimed to assist the applicant to avoid selecting sites of high environmental sensitivity. As AOI #3 falls within both 294 ER and 318 ER, MH asked whether the entire AOI should be addressed in one of the EIAs or whether the AOI should be split so that each portion of the AOI is dealt with separately in the respective EIA application. PN recommended that each portion of the AOI be dealt with separately in the respective EIA. MH noted that as part of the sensitivity screening exercise, a 200 m no-go buffer around all identified watercourses was implemented. PN queried why a distance of 200 m was used. MH responded to note that while it is a conservative buffer, it had been previously adopted for other onshore exploration applications for which SLR had undertaken the EIA process. Thus, it had been adopted for internal consistency. Natasha Adams pointed out that care should be taken in this regard to avoid setting a precedent. MH acknowledged this and indicated that it is unlikely Rhino Oil and Gas would need to position a well any closer to a watercourse for the current applications.
3.3	 MH confirmed that SLR had advised Rhino Oil and Gas that the Application for EA would not be submitted to PASA until such time that an in-principle agreement had been reached with landowners on whose property the proposed wells would be located. MH pointed out that the requirement to obtain land-owner consent for the EA application process had recently been repealed for activities directly related to prospecting or exploration of a mineral and petroleum resources. PN requested that a copy of this amendment be sent to her for information.
3.4	 MH queried whether a separate Section 102 application would need to be submitted for the projects. PN noted that as Rhino Oil and Gas have submitted Renewal Applications, Section 102 applications would not be required. She confirmed that a Section 102 application would have been necessary in the case where no Renewal Application was submitted. MH asked whether there is any indication as to when the replacement Petroleum Regulations would be promulgated? PN responded that she could not give an indication of this at this stage. PN further noted that the Department of Water and Sanitation published Draft Regulations relating to water use licences for onshore oil and gas exploration. MH confirmed that he has seen the regulations but they were not likely to be applicable as the proposed well-drilling exploration does not pertain to unconventional oil and gas.
3.5	 Public Participation Process: MH described the proposed approach that will be followed for the public participation process. On the issue of whether all landowners in the Exploration Right areas should be informed of the EIA processes, PN stated that these landowners should be notified of the EIA processes. MH confirmed that a broad notification approach would be adopted for the entire ER area for each application. With more direct/focussed notification and consultation being undertaken for the AOIs and individual well sites. PN emphasised that in light of the recent legal cases for offshore oil and gas exploration activities, SLR should consider appropriate measures to facilitate the participation and engagement of any illiterate stakeholders and the languages used for communicating with stakeholders within the area (i.e. Sotho and Afrikaans in addition to English). She noted that the use of radio advertisements during the public participation process is supported.



NO.	NOTES
	 With respect to site notices, it was recommended that these should be placed at all the proposed well-drilling sites and at public locations in nearby towns to the well drilling locations. PN further noted that in addition to the planned in-person information-sharing meetings, facilitating an online virtual meeting should also be considered. MH noted that recent media announcements indicated that PASA is in the process of developing guidelines for public participation and he queried whether this would be published in the near future. PN indicated that the guidelines are still being developed and would not likely be available in the near-future.
3.6	 EIA Process PN pointed out that it would be ideal if the EA can be issued before the recommendation on the Renewal Application is finalised. MH pointed out that while the aim was to complete the EIA processes timeously, SLR would not proceed with the lodging of the Application for EA until such time that the in-principle landowner agreements had been obtained by Rhino Oil and Gas.
4	Meeting Closure
4.1	MH thanked all attendees for their time and the meeting was closed at 10:30.

Notes produced by Nicholas Arnott.

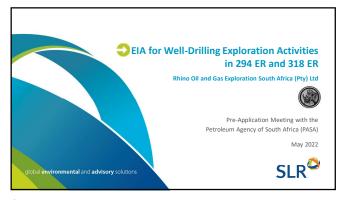


APPENDIX A: LIST OF ATTENDEES

NAME	ORGANISATION EMAIL	
Phumla Ngesi	Petroleum Agency SA (PASA)	NgesiP@petroleumagencysa.com
Natasha Thomas	PASA <u>Thomasn@petroleumagencysa.com</u>	
Sharon Adams	PASA	sharona@petroleumagencysa.com
Matthew Hemming	SLR Consulting (South Africa) (SLR)	mhemming@slrconsulting.com
Theo Wicks	SLR	twhicks@slrconsulting.com
Nicholas Arnott	SLR	narnott@slrconsulting.com



APPENDIX B: COPY OF SLR PRESENTATION





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INTRODUCTIONS

- EIA Applicant Rhino Oil and Gas Exploration South Africa (Pty) Ltd (Rhino Oil and Gas):
 - Travis Smithard
- Environment Assessment Practitioner (EAP) SLR Consulting (Pty) Ltd:
 - Matthew Hemming (Project Director)
 Theo Wicks (Project Manager 294 ER)

 - Nicholas Arnott (Project Manager 318 ER)
- Authority Petroleum Agency of South Africa (PASA):
 - Phumla Ngesi and team



OBJECTIVES

- Overall objective of the pre-application meeting is to:
 - · Introduce the proposed projects to the PASA.
 - · Engage with PASA on:
 - the environmental legislative framework;
 - likely project triggers; and
 - Proposed approach for the EIA processes.
 - Discuss public participation requirements.

SLR

PROJECT DESCRIPTION (1)



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Applicant

- Rhino Oil and Gas Exploration South Africa (Pty) Ltd (Rhino Oil and Gas) is the Exploration Right (ER) holder for ER 294 and ER 318, located in the Free State Province.
 - ER 294 is 556 114 hectares (ha) in extent and includes various properties in the Reitz, Warden, Heilbron, Frankfort, Steynsrus, Edenville and Vrede magisterial districts.
 - ER 318 is 753 797 hectares (ha) in extent and includes various properties in the Bultfontein, Wesselsbron, Welkom, Odendaalsrus, Wolmaransstad, Bothaville, Viljoenskroon, Kroonstad, Koppies and Heilbron magisterial districts.
- To date Rhino has conducted early phase exploration activities (passive airborne geophysical surveys) over both ER areas.
- Based on the results of this work, Rhino Oil and Gas is proposing to undertake additional exploration activities within each ER area.
- Renewal applications are currently in progress.

al **environmental** and **advisory** solutions



PROJECT DESCRIPTION (2)



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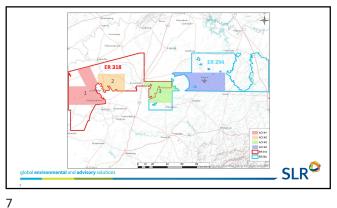
Overview of proposed exploration activities

- Rhino Oil and Gas proposes to drill between ten (10) and fifteen (15) exploration wells within four (4) Areas Of Interest (AOI) identified in the ER areas:
 - One (1) AOI within ER 294, two (2) AOIs located within ER318, and a one (1) AOI which overlaps both ER 294 and ER 318.
- The target resources for exploration are biogenic gas, helium and/or geological hydrogen.
- · The specific location of each exploration well will be defined through the EIAs. The initial selection of drilling locations will be based on the results from
 - Analysis of geological data from initial exploration;
 - Results of the desktop environmental sensitivity investigations; and
 - Engagement with identified landowners.

environmental and advisory solutions



1



PROJECT DESCRIPTION (3) Overview of proposed exploration activities 1200 m using a truck mounted rig with air and mud drilling capabilities. All exploration wells would be cased to an agreed standard and depth. Wells would be wireline logged. Once drilling is complete, equipment is removed. The terming a complete, equipment is removed.

Find westing finitinum of 24-72 hours for each well would be conducted to test gas composition, sustained flow rate, initial pressure, flowing pressure, final pressure and water composition.

At completion, the surface around each well would be fully rehabilitated. **SLR** oal **environmental** and **advisory** solutions

PROJECT DESCRIPTION (4)

- A local logistics base will be established on an existing brownfield site (e.g. land used by farming communities for equipment storage). The logistics base will include:

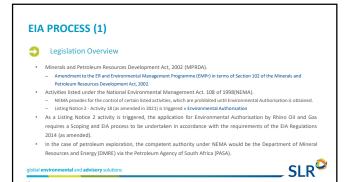
 — An open storage area partially equipped with pipe racks for drilling tubular material storage;

 - A covered warehouse for drilling material and other minor equipment;
 - Temporary offices for logistic base personnel; and Area for temporary storage of general waste and hazardous waste
- Wastes will be transported to a licensed waste disposal facility by an appropriately permitted waste management contractor and will not be stored within the base any longer than the time strictly necessary for unloading from the drill site and loading on the trucks for transport to the disposal
- Approximately 5 to 10 personnel would be involved in the on-site drilling activities.

SLR

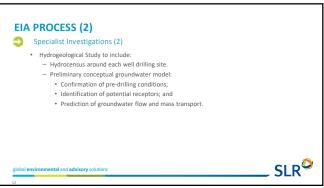
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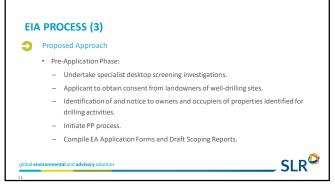
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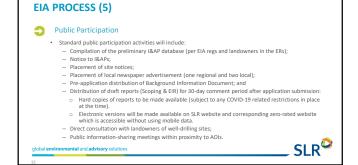
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Question:
How shall the overlapping AOI #3
be dealt with in the EIA Process?
o Include entire AOI in one of the
EIAS? OR.
o Split AOI #3 along the boundary
of each ER and only deal with
portion of AOI falling within that
specific EIR.

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APPENDIX 3.3:

WRITTEN NOTICE



Project Reference: 720.18034.00020 File Ref. 2022-08-22 Rhino ER294 Well Drilling Notice

22 August 2022

Attention: Interested & Affected Party

Dear Sir/Madam,

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS IN ER 294, FREE STATE PROVINCE (12/3/294)

In 2019, the (now) Department of Mineral Resources and Energy (DMRE), through the Petroleum Agency of South African (PASA), granted Rhino Oil and Gas Exploration South Africa (ROGESA) an Exploration Right (ER) to explore for petroleum resources in an area in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The ER, which was informed by an Environmental Authorisation (EA), permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial gradiometry gravity survey.

Following the successful completion of the desktop studies and aerial gradiometry gravity survey, ROGESA is proposing to advance their exploration by drilling up to 40 exploration wells within two Target Areas located in the ER. The first Target Area is located south of Petrus Steyn and the second Target Area lies south of the R34 between Kroonstad and Edenville. The specific well locations proposed by ROGESA, will be confirmed based on landowner engagement and environmental investigations (during this application process).

No hydraulic fracturing or fracking is proposed.

Prior to the commencement of the exploration drilling, ROGESA is required to obtain an amendment to ER 294 and approved Environmental Management Programme (EMPr) from the DMRE in terms of Section 102 of the Minerals and Petroleum Resources Development Act, 2002 (MPRDA).

Furthermore, an Environmental Authorisation (EA) from the DMRE in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), for activities in Listing Notice 1 (GNR 983 of 2014, as amended) and Listing Notice 2 (GNR 985 of 2014, as amended) is also required. The Environmental Impact Assessment (EIA) Regulations (GNR 982 of 2014, as amended) require that a Scoping and EIA process be undertaken to inform an EA decision from the DMRE.

SLR Consulting (South Africa) (Pty) Ltd are appointed as independent environmental consultants responsible for the public participation and environmental assessment processes required to inform a decision on the EA. As part of public participation process, SLR is circulating this written notice along with a background information document, erecting site notices at various public locations and publishing an advertisement in various newspapers.



SLR Consulting (South Africa) Proprietary Limited

Registered Address: Suite 1 - Building D, Monte Circle, 178 Montecasino Boulevard, Fourways, Johannesburg, Gauteng, 2191 Postal Address: PO Box 1596, Cramerview, 2060, South Africa

Reg. No: 2007/005517/07

Vat No: 4630242198

Johannesburg Office: Physical Address: Suite 1 - Building D, Monte Circle, 178 Montecasino Boulevard, Fourways, Johannesburg, Gauteng, 2191 Postal Address: PO Box 1596, Cramerview, 2060 Tel: +27 11 467 0945

Cape Town Office: Physical Address: 5th Floor, Letterstedt House, Newlands on Main,
Cnr Main and Campground Roads, Newlands, Cape Town, Western Cape, 7700
Tel: +27 21 461 1118

Durban Office: Physical Address: Unit 14, Braehead Office Park 1 Old Main Road, Kloof, Durban, KwaZulu-Natal, 3640 Tel: +27 11 467 0945



SLR will also be hosting information meetings, which stakeholders are invited to attend, in order that information about the project can be shared and so that SLR can receive any initial comment. Details of the information meetings are provided below:

MEETING DETAILS

WESSELSBRON

Date: Wednesday, 7 September 2022

Venue: Steynsrus Boerevereniging Hall
Time: 15h00

MEETING DETAILS

ODENDAALSRUS

Date: Thursday, 8 September 2022

Venue: Edenville Boerevereniging Hall
Time: 09h00

As part of the public participation process, you are invited to register as an Interested and Affected Party (I&AP) and to make input into the Scoping and EIA process. Further details regarding the project and the Scoping and EIA process are provided in the project background information document and on the SLR website at: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294 and on a zero-data rated website at https://www.slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294. The background information document is also available from SLR in Afrikaans or seSotho.

To register as an I&AP, please forward your name and contact details along with any comments to SLR at:

SLR contact: Theo Wicks / Gugu Dhlamini **Email**: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Fax: 011 467 0975 and/or Post: PO Box 1596, Cramerview, 2060

WhatsApp: 066 313 7574

Please also pass this document on to any other persons whom you believe may have in interest in the proposed exploration or the Scoping and EIA process right application area. We welcome any comment or questions.

Thank you in advance for your involvement.

Yours faithfully

Theo Wicks

APPENDIX 3.4: NOTICE IN PROVINCIAL GAZETTE

Provincial Gazette

Free State Province



Provinsiale Koerant

Provinsie Vrystaat

Published by Authority

Uitgegee op Gesag

NO	FRIDAY, 23 SEPTEMBER 2022	NR VRYDAG, 23 SEPTEMBER 2022
	GENERAL NOTICES	PROVINSIALE KENNISGEWINGS
	Notice of Application for Environmental Authorisation Proposed Exploration Well Drilling within two target areas in E294 Free State 2 Province	
	Kennisgewing van aansoek om Omgewingsmagtiging Beoogde Boorwerk vir ek splorasieboorgate in twee Teikengebiede	
	Tsebiso Mabapi Le Kopo Bakeng Sa Tumello E Amanang Tikoloho Phuputso E Sisintsweng Ya Ho Bora Sediba Dibakeng Tse Bobedi Tseo Ho Tsepamisitsweng Ho Tsona Ho Ya Ka Er 294, Provinsing Ya Freistata	

[PROVINCIAL NOTICE NR. ... OF 2022]

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS IN E294, FREE STATE PROVINCE

Notice is hereby given of Rhino Oil and Gas Exploration South Africa's (ROGESA) intention to make an application for:

- An amendment to the existing Exploration Right (ER) and Environmental Management Programme (EMPr) in terms of Section 102 of the Minerals and Petroleum Resources Development Act, 2002 (No 28 of 2002) (MPRDA);
- An Environmental Authorisation (EA) in terms of Chapter 5 of the National Environmental Management Act, 1998 (No.107 of 1998) (NEMA).

ROGESA hold an ER and EA to explore for petroleum resources in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The granted EA and ER permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial gradiometry gravity survey.

ROGESA undertook the studies and survey, and now proposes to advance exploration by drilling up to 40 exploration wells in two Target Areas within the ER. The first Target Area is located south of Petrus Steyn and the second Target Area lies south of the R34 between Kroonstad and Edenville. The specific well locations within the Target Areas are still to be confirmed based on landowner engagement and environmental investigations (to be completed during this application process). No hydraulic fracturing or fracking is proposed.

Notice is hereby given of the following application:

Legislation	Authorisation required and process to be followed	Competent Authority
National Environmental	Environmental Authorisation for Activity 21D in Environmental	Department of Mineral Resources and
Management Act	Impact Assessment (EIA) Regulation Listing Notice 1 of 2014 (GNR	Energy (DMRE), through the Petroleum
(No. 107 of 1998).	983) and Activity 18 in EIA Regulation Listing Notice 2 of 2014 (GNR	Agency of South African (PASA)
	984).	

SLR Consulting (South Africa) (Pty) Ltd has been appointed as the independent environmental assessment practitioner responsible for undertaking the required environmental assessment and conducting the public participation process. The application will be subject to a Scoping and EIA process as stipulated in the EIA Regulations (GNR 982). Further project details can be found on the SLR Website and will be provided in the Scoping and EIA reports.

All stakeholders are invited to register as Interested & Affected Parties (I&AP). You must register as an I&AP if you would like more information or wish to participate in the environmental assessment process for the project. A draft Scoping Report will be made available to registered I&APs for review. To do so, or to raise any issues or concerns regarding the project, please contact:

Theo Wicks (Project Manager) and/or Gugu Dlamini (Public Participation) by

Email: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Fax: 011 467 0975, WhatsApp: 066 171 3677 and/ or Post: PO Box 1596, Cramerview, 2060

SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294

Data Free Website: https://slrpublicdocs.datafree.co/en/public-documents/ Rhino-well-ER294

By providing your personal information to be registered as an I&AP for this Project you consent to SLR managing your information in accordance with the Protection of Personal Information Act, 2013 (No. 4 of 2013). SLR will not process your Personal Information, other than as permitted or required by EIA processes, or as required by law or public policy. For further details, contact SLR as detailed above.

[PROVISIALLE KENNISGEWING NR...VAN 2022]

KENNISGEWING VAN AANSOEK OM OMGEWINGSMAGTIGING BEOOGDE BOORWERK VIR EKSPLORASIEBOORGATE IN TWEE TEIKENGEBIEDE IN ER 294, VRYSTAATPROVINSIE

Kennisgewing geskied hiermee van Rhino Oil and Gas Exploration South Africa (ROGESA) se voorneme om aansoek te doen om:

- 'n wysiging van die bestande Eksplorasiereg (ER) en Omgewingsbestuursprogram (OBPr) ingevolge Artikel 102 van die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet 28 van 2002) (MPRDA); en
- 'n Omgewingsmagtiging (OM) ingevolge Hoofstuk 5 van die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998) (NEMA).

ROGESA beskik oor 'n ER en OM om eksplorasie vir petroleumhulpbronne in die Vrystaatprovinsie van Suid-Afrika te doen (verwysing 12/3/294 (ER 294)). Die OM en ER wat toegestaan is, het ROGESA toestemming gegee om 'n eksplorasiewerkprogram te onderneem wat kantoorgebonde studies en 'n gradiometrie-swaartekragopname vanuit die lug behels.

ROGESA het die studies en opname onderneem, en beoog nou om hoogstens 40 eksplorasieboorgate in twee teikengebiede in die ER te boor. Die eerste teikengebied is suid van Petrus Steyn en die tweede teikengebied is suid van die R34 tussen Kroonstad en Edenville geleë. ROGESA het die spesifieke liggings vir die boorgate in die teikengebiede voorgestel en moet nog op grond van skakeling met grondeienaars en omgewingsondersoeke (wat tydens hierdie aansoekproses afgehandel moet word) bevestig word. Geen hidrouliese breking, oftewel hidrobreking, word beoog nie.

Kennis geskied hiermee van die volgende aansoek:

Wetgewing	Vereiste magtiging en proses wat gevolg moet word	Bevoegde owerheid
Nasionale Wet op Omgewingsbestuur	Omgewingsmagtiging vir Aktiwiteit 21(D) in	Departement van Minerale Hulpbronne en
(Wet 107 van 1998)	die Regulasies op	Energie (DMHE), deur die
	Omgewingsimpakevaluerings (OIE)	Petroleumagentskap van Suid-Afrika (PASA)
	Lyskennisgewing 1 van 2014	
	(Staatskennisgewing R983) en Aktiwiteit 18(I)	
	in OIE-regulasie Lyskennisgewing 2 van 2014	
	(Staatskennisgewing R984)	

SLR Consulting (South Africa) (Edms.) Bpk. is aangestel as die onafhanklike omgewingsevalueringspraktisyn wat verantwoordelik is om die vereiste omgewingsevaluering en die openbare deelnameproses te onderneem. Die aansoek sal onderhewig wees aan 'n Bestekopname- en OIE-proses soos uiteengesit in die OIE-regulasies (Staatskennisgewing R982). Meer projekbesonderhede, wat op SLR se webwerf gevind kan word, sal in die Bestekopname- en OIE-verslag voorsien word.

Alle belanghebbers word genooi om as Belangstellende & Geaffekteerde Partye (B&GP's) te registreer. U moet as 'n B&GP registreer as u meer inligting wil hê of as u aan die projek se omgewingsevalueringsproses wil deelneem. 'n Konsep Bestekopnameverslag sal aan geregistreerde B&GP's beskikbaar gemaak word vir insae. Om dit te doen, of om enige omgewingskwessies of knelpunte met betrekking tot die projek te opper, moet u asseblief in verbinding tree met:

Theo Wicks (Projekbestuurder) en/of Gugu Dlamini (Openbare Deelname) by

E-pos: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Faks: 011 467 0975, WhatsApp: 066 171 3677 en/of Pos: Posbus 1596 1596, Cramerview, 2060

SLR se webwerf: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294
Datavry-webwerf: https://slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294

Deur u persoonlike inligting te voorsien om as 'n B&GP vir hierdie projek geregistreer te word, stem u in daartoe dat SLR u inligting ingevolge die Wet op die Beskerming van Persoonlike Inligting (Wet 4 van 2013) beheer. SLR sal nie u persoonlike inligting verwerk nie, behalwe soos toegelaat of vereis word deur OIE-prosesse, of soos vereis word deur wet of openbare beleid. Kontak SLR soos hierbo aangedui is vir meer besonderhede.

[PROVINCIAL NOTICE NO. ... OF 2022]

TSEBISO MABAPI LE KOPO BAKENG SA TUMELLO E AMANANG TIKOLOHO PHUPUTSO E SISINTSWENG YA HO BORA SEDIBA DIBAKENG TSE BOBEDI TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 294, PROVINSING YA FREISTATA

Mona ho etswa maikemisetso ya kopo ya Rhino Oil and Gas Exploration South Africa's (ROGESA) bakeng sa:

- Phetoho ho Exploration Right (ER) and Environmental Management Programme (EMPr) e ntseng e le teng ho ya ka Karolo ya 102 ya Minerals and Petroleum Resources Development Act, 2002 (Nom ya 28 ya 2002) (MPRDA);
- Environmental Authorisation (EA) ho ya ka Kgaolo ya Chapter 5 ya National Environmental Management Act, 1998 (Nom. ya 107 wa 1998) (NEMA).

ROGESA e tshwere ER le EA bakeng sa ho fuputsa mehlodi ya petroleamo Provinsing ya Freistata Afrika Borwa (referense ke 12/3/294 (ER 294)). EA le ER tsa tumello bakeng sa ROGESA ho qala lenaneo la phuputso le kenyeletsang diphuputso tsa desktop le phuputso ya aerial gradiometry gravity.

ROGESA e ile ya qadisa diphuputso tsena, mme hona jwale e sisintse ho bora didiba tse sa feteng tse 40 Dibakeng tse bobedi tseo ho Tsepamisitsweng ho tsona hara dipehelo tsa ER. Sebaka sa pele seo ho Tsepamisitsweng ho sona se ka borwa ba Petrus Steyn mme Sebaka sa bobedi seo ho Tsepamisitsweng ho sona se borwa ba R34 pakeng tsa Kroonstad le Edenville. Dibakeng tseo ka ho qollehileng sediba se tla ba ho tsona Dibakeng tseo ho Tsepamisitsweng ho tsona tse sisisntsweng ke ROGESA mme di tla netefatswa ho ya ka ho seabo sa mong a mobu le diphuputso tsa tikoloho (nakong ya kopo ya tshebetso ena). Ho hang ha ho a sisinngwa ho bora ka metjhini ya haedroliki kapa ho pompela mekedikedi ho ntsha oli kapa kgase.

Mona ho fanwa ka tsebiso bakeng sa kopo e latelang:

Melao	Tumello e hlokahalang le tshebetso e lokelang ho latelwa	Ba Boholong ba Tshwanelehang
National Environmental Management Act (Nom. ya 107 wa 1998).	Environmental Authorisation (Tumello ya Tikoloho) bakeng sa Mosebetsi wa 21D ho ya ka Environmental Impact Assessment (EIA) Regulation Listing Notice 1 ya 2014 (GNR 983) le Mosebetsi wa 18 I EIA Regulation Listing Notice 2 ya 2014 (GNR 984).	Department of Mineral Resources and Energy (DMRE), ka ho sebedisa Petroleum Agency of South African (PASA)

SLR Consulting (South Africa) (Pty) Ltd e thontswe jwalo ka setsebi se ikemetseng phuputsong ya tikoloho mme e ikarabella bakeng sa ho qala phuputso e hlokahalang ya tikoloho le ho tsamaisa tshebetso ya ho nka karolo ha setjhaba. Kopo e tla ba latela dipehelo tsa tshebetso ya phuputso le EIA jwalo ka ha ho bontshitswe Melaong ya EIA (GNR 982). Dintlha tse eketsehileng le tse batsi mabapi le projeke di ka fumana ho Websaete ya SLR le ho fanwa ditlalehong tsa Scoping le EIA.

Batho bohle ba nang le seabo ba mengwa hore ba ngodise jwalo ka Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP). O tlameha ho ngodisa jwalo ka I&AP haeba o lakatsa ho fumana tlhahisoleseding e ekeetsehileng kapa haeba o lakatsa ho nka karolo projekeng ya tekolo ya tikoloho. Moralo wa Tlaleho ya Scoping o tla fumaneha bakeng sa Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP).bakeng sa ho o hlahloba. Bakeng sa ho etsa sena, kapa ho botsa dipotso dife kapa dife kapa dingongoreho mabapi le projeke, ka kopo ikopanye le:

Theo Wicks (Motsamaisi wa Projeke) le/kapa Gugu Dhlamini (Ho Nka Karolo ha Setjhaba) ka ho romela

Imeile ho: RhinoER294@slrconsulting.com

Mohala: 011 467 0945, Fekse: 011 467 0975 le/kapa romela ka Poso ho: PO Box 1596, Cramerview, 2060

SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294

Websaete ya Datha ya Mahala: https://slrpublicdocs.datafree.co/en/public-documents/ Rhino-well-ER294

Ka ho fana ka tlhahisoleseding ya hao ya botho hore o ngodiswe jwalo ka motho ya nang le thahasello le ya angwang ke projeke (I&AP) bakeng sa Projeke ena o dumela hore SLR e sebedise tlhahisoleseding ya hao hoy a ka Molao wa Tshireletso ya Tlhahisoleseding ya Botho (Protection of Personal Information Act) wa 2013 (Non.ya 4 wa 2013). SLR e ke ke ya sebedisa Tlhahisoleseding ya hao ya Botho, ntle le kamoo ho dumeletsweng kateng kapa jwalo ka ha ho hlokwa ke ditshebetso tsa EIA, kapa jwalo ka ha ho hlokwa ke molao kapa pholisi ya setjhaba. Bakeng sa dintlha tse eketsehileng, ikopanye le SLR jwalo ka ha ho bontshitswe mona ka hodimo.

FREE STATE PROVINCIAL GAZETTE

(Published every Friday)

All correspondence, advertisements, etc. must be addressed to the Officer in charge of the Provincial Gazette, P.O. Box 517, Bloemfontein, Tel.: (051) 403 3139. Free Voucher copies of the Free State Provincial Gazette or cuttings of advertisements are NOT supplied. The **cost per copy** of the Provincial Gazette is as follows:

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6 MONTHS, EMAIL	R	295.00
12 MONTHS, EMAIL	R	590.00
6 MONTHS, COLLECTION	R	170.00
12 MONTHS, COLLECTION	R	340.00
6 MONTHS, POST	R	480.00
12 MONTHS, POST	R	960.00

Notices required by Law to be inserted in the Provincial Gazette: **R 75.00** per centimeter or portion thereof.

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NUMBERING OF PROVINCIAL GAZETTE

You are hereby informed that the numbering of the Provincial Gazette /Tender Bulletin and notice numbers will from 2010 coincide with the relevant financial year. In other words, the chronological numbering starting from one will commence on or after 1 April of every year.

Printed and published by the Free State Provincial Government

VRYSTAAT PROVINSIALE KOERANT

(Verskyn elke Vrydag)

Alle korrespondensie, advertensies, ens. moet aan die Beampte Belas met die Provinsiale Koerant, Posbus 517, Bloemfontein, Tel.: No. (051) 403 3139 geadresseer word. Gratis eksemplare van die Vrystaat Provinsiale Koerant of uitknipsels van advertensies word NIE verskaf nie. Die **koste per kopie** van die Provinsiale Koerant is soos volg:

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NOMMERING VAN PROVINSIALE KOERANT

U word hiermee in kennis gestel dat die nommering van die Provinsiale Koerant / Tender Bulletin en kennisgewingnommers vanaf 2010 met die betrokke boekjaar sal ooreenstem. Met ander woorde, die kronologiese nommering beginnende met een, sal op of na 1 April van elke jaar begin.

Gedruk en uitgegee deur die Vrystaatse Provinsiale Regering

APPENDIX 3.5: BACKGROUND INFORMATION DOCUMENT



RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD BACKGROUND INFORMATION DOCUMENT

PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS WITHIN ER 294, FREE STATE PROVINCE

AUGUST 2022

1. INTRODUCTION AND BACKGROUND

In 2019, the (now) Department of Mineral Resources and Energy (DMRE), through the Petroleum Agency of South African (PASA), granted Rhino Oil and Gas Exploration South Africa (ROGESA) an Exploration Right (ER) to explore for petroleum resources in an area in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The ER, which was informed by an Environmental Authorisation (EA), permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial gradiometry gravity survey.

ROGESA undertook the studies and survey and is now proposing to drill exploration wells within two Target Areas located in the ER. Target Area 1 is located south of Petrus Steyn and Target Area 2 lies south of the R34 between Kroonstad and Edenville (refer to Figure 1). The specific well locations have been proposed by ROGESA based analysis of geological data and will confirmed based on landowner engagement and environmental investigations (the latter will form part of this EIA).

2. ENVIRONMENTAL AUTHORISATION PROCESS

Prior to the commencement of the exploration drilling, ROGESA is required to obtain an amendment to ER 294 and approved Environmental Management Programme (EMPr) from the DMRE in terms of Section 102 of the Minerals and Petroleum Resources Development Act, 2002 (MPRDA).

Furthermore, an EA from the DMRE in terms of the National Environmental Management Act (No. 107 of 1998) (NEMA), for activities in Listing Notice 1 (GNR 983 of 2014, as amended) and Listing Notice 2 (GNR 985 of 2014, as amended) is also required. The Environmental Impact Assessment (EIA) Regulations (GNR 982 of 2014, as amended) require that a scoping and EIA process be undertaken to inform an EA decision from the DMRE. Public participation is a key component of the environmental assessment process.

PURPOSE OF THIS DOCUMENT

This document has been prepared to inform you about:

- The proposed well drilling project;
- The project alternatives considered;
- The biophysical, cultural, and socio-economic baseline environment of the proposed project area;
- The environmental assessment processes being followed;
- Possible biophysical, cultural, and socio-economic impacts and related specialist input; and
- How you can have input into the environmental assessment process.

WHO ARE THE CONSULTANTS?

SLR Consulting South Africa (Pty) Ltd (SLR), an independent firm of environmental consultants, has been appointed by ROGESA to manage the environmental authorisation application process.

YOUR ROLE

You have been identified as an interested and affected party (I&AP) who may want to be informed about the proposed project and have input into the environmental authorisation process.

You have an opportunity to review this document and to provide your initial comments to SLR for incorporation in the environmental assessment process. You will also be given the opportunity to review and comment on the Scoping Report and EIA Report and FMPr.

All comments will be recorded and included in the reports submitted for decision-making.

MEETING DETAILS

STEYNSRUS

Date: Wednesday, 7 September 2022 Venue: Steynsrus Boerevereniging Hall, Van Riebeeck Street, Steynsrus Time: 15h00

EDENVILLE

Date: Thursday, 8 September 2022 Venue: Edenville Boerevereniging Hall, Mark Street, Edenville

Time: 09h00 HOW TO RESPOND

Responses to this document can be submitted by means of the attached comments sheet and/or through communication with the persons listed below.

WHO TO CONTACT?

SLR contact: Theo Wicks/ Gugu Dhlamini Tel: 011 467 0945 WhatsApp: 066 313 7574 Email: RhinoER294@slrconsulting.com



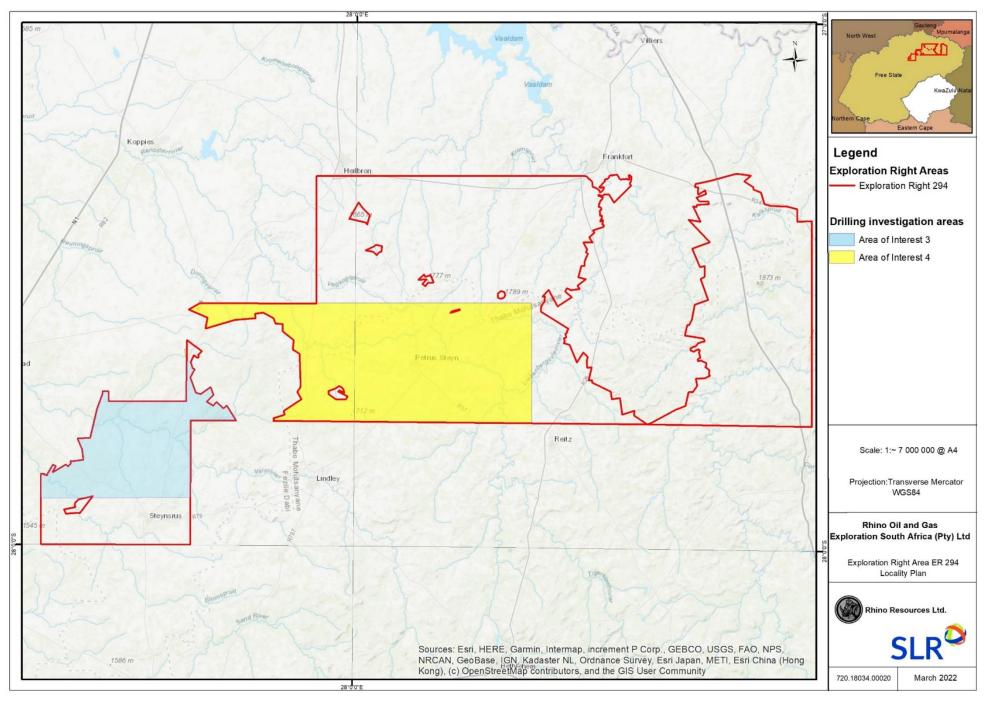


Figure 1: Locality Map (Showing ER boundary and Target Areas)



3. OVERVIEW OF THE PROPOSED PROJECT

3.1 APPLICATION

An application for EA will be submitted via PASA in September 2022. Acceptance of the application by PASA will only permit the applicant to continue with the required Scoping and EIA process and does not constitute authorisation. The Scoping and EIA process is subject to the timeframes prescribed in the EIA Regulations 2014 (as amended).

3.2 PROJECT AND PROCESS OVERVIEW

ROGESA is proposing to drill a maximum of 40 exploration wells within the project area. The proposed works programme would consist of the following phases (summarised below):

- Well identification and permitting;
- Mobilisation Phase;
- Drilling Phase;
- Well Execution Phase;
- Test Phase;
- Well abandonment Phase; and
- Demobilisation Phase.

Well identification and permitting

The identification and sighting of target well sites will be undertaken based on a combination of:

- Prospective petroleum bearing geologies as determined by analysis of data;
- Areas remaining following an environmental and social screening where sensitive environments (wetlands, watercourses, critical biodiversity areas, culturally significant areas) will be screened out;
- Site assessment by ecology, heritage and geohydrological specialists; and
- Confirmation of an access agreement with landowners.

Mobilisation Phase

The drill rig, along with associated mechanical infrastructure (compressors, generator, blow-out protector, water pump and cart, drilling sump, drill rods, waste skips) will be located within a secured drill site camp. Staff will be accommodated offsite (i.e. not at the drill site camp).

Drilling Phase

During the drilling phase, different bit sizes are used to drill a series of telescoping holes, from the surface to the total depth of the planned well. The first hole, the outer, is the biggest and called the tophole, while the subsequent inner holes become progressively smaller and smaller as the well depth increases. This continues until the final hole, which is the smallest, reaches the target depth. During the drilling process, drilling fluids such as compressed air or muds are pumped down the inside of the drill pipe and exit at the drill bit to optimise drilling operations.

Once each hole section has been drilled, casing (steel tubulars) is run into the well and cemented in place to

secure/seal the section that has just been drilled and to allow for the drilling of the next (smaller) hole section. The cement operation consists of pumping cement down the drill string to the bottom. The cement then flows, out the bottom of the casing shoe and back up into the space between the cased hole and open hole.

The installed casing and cement is a tested barrier that facilitates the drilling of the next section, allowing to reach the target final depth in the safest way.



Figure 2: Typical core drilling rig

Well Execution Phase

Well execution entails:

- Well logging Each of the wells will be logged to record the lithology and to confirm the quality of the cement casing of the well; and
- Well completion the wellbore is displaced with an industrial water, necessary to balance the downhole pressure and, at the same time, to complete the removal of mud/solids from the well.

In the case of unsuccessful wells, once a full log of the reservoir section has been undertaken, the well will be plugged and abandoned (see section overleaf).

Test Phase

The well test objectives are to:

- Determine key technical factors of the reservoir (e.g. size, permeability and fluid characteristics) and values for use in future drilling; and
- 2. Obtain representative data including reservoir pressure, production rates and sample(s).

While testing, recovered hydrocarbons are sent to a flare boom with a burner to ensure as complete combustion of fluids/gases (including hydrocarbons) as possible. To ensure that burning can be done safely from the drill site, a flare pit can be installed in order to prevent the spread of fire.

The flow periods and rates will be limited to the minimum necessary to obtain the required reservoir information during the well test. It is anticipated that a maximum well test time for this project will be approximately 30-days.

Well Abandonment Phase

The scope of well abandonment is to protect the environment by effectively sealing off all distinct permeable zones (i.e., the zones of potential hydrocarbons or water inflow penetrated by the well), to ensure that formation fluids are isolated, both within the wellbore and in annular spaces, and that their migration among different formations and/or up to the surface is prevented. For unsuccessful wells, a cement plug setting job will be performed.

At the end of the plug and abandonment operations, the well schematic and wellhead location (including casings dimension, length, cement plug dimension and composition, pressure and inflow test results, etc.) will be included in a final report submitted to PASA.

Demobilisation Phase

On completion of drilling, the drill rig, support vehicles and machinery will be removed from the wellsite location and the site will be rehabilitated to a condition acceptable to the landowner.

4. PROJECT ALTERNATIVES

<u>Location</u>: The Target Areas were identified as the most prospective for the presence of petroleum resource, based on having suitable geological stratum. Areas of higher ecological and social sensitivity will be screened out from consideration. The final sites will be selected based on field work by an ecologist, heritage and geohydrological specialist, as well as agreement with the landowner.

<u>Technology/Drill rig</u>: Based on a current understanding of the ground conditions, ROGESA has opted for a truck mounted drilling rig with air and mud drilling capabilities.

5. NEED AND DESIRABILITY

Petroleum products remain a vital source of energy. Natural gas comprises mostly methane and can be a relatively clean form of energy. It can be used to generate electricity or provide heat for domestic and industrial purposes. Petroleum is also a key input into many manufacturing processes. Once extracted gas can be easily contained, transported and safely used in many applications. The type of downstream use would entirely dependent on the commercial scale of the resource.

The purpose of the proposed exploration well drilling is to facilitate the determination of whether geological structures ("prospects") contain oil or gas in potentially commercial extractable amounts.

6. TIMING

The well drilling and testing programme is planned over a several months. The programme is divided into the well drilling and well testing phases with successful completion of one phase informing the next. Drilling at each site can take 1 to 3 months to complete. Short-duration well tests are planned (approximately 30-days).

7. LAND ACCESS

The proposed drilling sites are to be situated on private property and will be accessed, established, managed and rehabilitated with prior consent of the landowner (in terms of a written agreement).

8. ENVIRONMENTAL MANAGEMENT

The process of managing the impacts associated with the drilling activities and rehabilitating the disturbed areas will be conducted in terms of the EMPr developed for the project subject to approval by the DMRE.

9. FUTURE FXPI ORATION OR PRODUCTION

The current application is only to authorise the proposed well drilling work as described above (which will be detailed in the Scoping and EIA Reports). Any further exploration activities or future production would require further approval from the DMRE. Such approvals will be subject to the relevant legal requirements which include further public consultation and environmental assessments.



Figure 3: Example of well drilling operations

10. OVERVIEW OF BASELINE ENVIRONMENT

10.1 BIOPHYSICAL ENVIRONMENT

Geology: Falls within the Karoo Basin.

<u>Climate</u>: Characterised by summer rainfall, warm to hot summers and cool to cold winters.

<u>Soils and land capability</u>: The project area is largely characterised by structureless and textural contrast soils and soils with undifferentiated clays. Predominately low arable potential with high erosion hazard.

Land cover: The project area comprises grasslands, and a considerable area is characterised by cultivated fields.

<u>Hydrology</u>: Numerous wetlands, small dams and farm dams, which are used for livestock and domestic purposes, are located within the project area. The Vaal Dam traverses Target Area 1 of the project area.

<u>Groundwater</u>: Groundwater use and extraction in the area ranges from extraction of seasonal groundwater from shallow wells to drilling of boreholes for domestic/municipal use and agricultural purposes.

<u>Flora</u>: The project area is located within the Grassland Biome, predominately in the Central Free State, Eastern Free State Clay and Frankfort Highveld Grassland bioregions.

<u>Fauna</u>: Numerous faunal species are associated with the various natural vegetation units located in the project area. Potential species of concern include the *Amblysomus septentrionalis, Spizocorys fringillaris* and the *Homoroselaps dorsalis*, amongst others.

<u>Air Quality</u>: The project area's ambient air quality is generally good, with some regions having been influenced by industrial emissions from power stations, chemical and manufacturing industries, mining activities, agricultural activities, road use, biomass burning, domestic fuel burning, and motor vehicle emissions.

10.2 CULTURAL ENVIRONMENT

<u>Heritage/Cultural resources:</u> It is expected that the project area's landscape will be scattered with Iron Age stone walling, farmsteads and associated burials, unmarked burials and to a lesser extent with a few Stone Age artefact scatters or open sites.

<u>Palaeontological resources:</u> The project area is predominantly underlain by the Normandien formations of very high fossil sensitivity belonging to the Beaufort Group, Karoo super group. This formation is heavily intruded by igneous dolerite in this area. Fossils common in this formation are fish, amphibians, reptiles, therapsids and vertebrate burrows, Glassopteris tree fossils and insect wings.

10.3 SOCIO-ECONOMIC ENVIRONMENT

<u>Socio-economic</u>: In general, the municipal areas extending across the project area are characterised by high levels of illiteracy and unemployment. A large majority of the population live in formal houses/buildings with access to waterborne sanitation and electricity. Access to piped water inside the dwellings however remains a problem.

<u>Land use:</u> The area is predominantly used for commercial agriculture. The agricultural activities include a combination of crop production, animal production, horticulture, dairy farming, game farming, aquaculture, fruit production and agro-processing.

11. SPECIALIST STUDIES TO INFORM THE ENVIRONMENTAL AUTHORISATION PROCESS

The following specialist assessments will be undertaken as part of the EIA process:

- Aquatic and Terrestrial Biodiversity assessments;
- Heritage assessment
- Palaeontology assessment; and
- Hydrogeology assessment.

12. ENVIRONMENTAL AUTHORISATION AND PUBLIC PARTICIPATION PROCESS

12.1 ENVIRONMENTAL AUTHORISATION PROCESS

The EIA process provides information on the project, pertaining to procedural components and the environment in which the project is proposed. It identifies and assesses, in consultation with I&APs, the potential negative and positive biophysical, cultural, and socio-economic impacts.

The environmental assessment process also reports on management measures required to mitigate impacts to an acceptable level and incorporates requirements for monitoring programmes (where required). The process steps and estimated timeframes are provided below.



- Pre-application meeting with PRASA.
- Identification of I&APs and development of the project database.
- Notify I&APs of the project (via newspaper advertisements, site notices, SMS/ WhatsApp, and this document).
- Engage with I&APs via meetings and consultations.
- Compile Scoping Report and summary.
- Submit the EA application to the DMRE.
- Distribute Scoping Report to I&APs for review (30-day review period).
- Submit Scoping Report (inclusive of I&AP comments) to the DMRE for review and comment (43-day review period).
 - Undertake proposed specialist investigations/studies.
- Compile EIA and EMPr and summary.
- Distribute EIA and EMPr to I&APs and regulatory authorities for review (30-day review period).
- Submit EIA and EMPr (inclusive of I&AP comments) to the DMRE for decision making (107-day decision-making period).
- Circulate DMRE decision to I&APs once received.
- Appeal process (if applicable) in terms of Appeal Regulations

12. 2 PUBLIC PARTICIPATION PROCESS

The purpose of the public participation process is to notify I&APs of the proposed project and to provide them with the relevant information and give opportunity to raise issues or concerns regarding the proposed project. The public participation process will be undertaken in accordance with the requirements of Chapter 6 of theEIA Regulations 2014, as amended. I&APs involved in the EIA process are listed below:

I&APS INVOLVED IN THE ENVIRONMENTAL AUTHORISATION PROCESS

LANDOWNERS, LAND USERS AND OTHER I&APS

- Surrounding landowners, land users and communities.
- Non-government organisations and associations.
- Surrounding mines and industries.
- Parastatals.

COMPETENT AUTHORITY

- Department of Mineral Resources and Energy (DMRE)
- Petroleum Agency South Africa (PASA)

COMMENTING AUTHORITIES

- Free State Department of Water and Sanitation
- Free State Department of Economic Development, Tourism and Environmental Affairs
- Free State Department of Agriculture and Rural Development
- Provincial South Africa Heritage Resource Agency (SAHRA)

LOCAL AUTHORITIES

- Moqhaka Local Municipality
- Nketoana Local Municipality
- Fezile Dabi District Municipality
- Thabo Mofutsanyane District Municipality

Please let us know if there are any additional parties that should be involved.

13. ENVIRONMENTAL LEGAL FRAMEWORK AND ENVIRONMENTAL PROCESS REQUIREMENTS

The figure overleaf provides an overview of the Scoping and EIA Process.

PHASE II: Scoping

PHASE III: EIA and EMPr phase [Dec – April 2023]

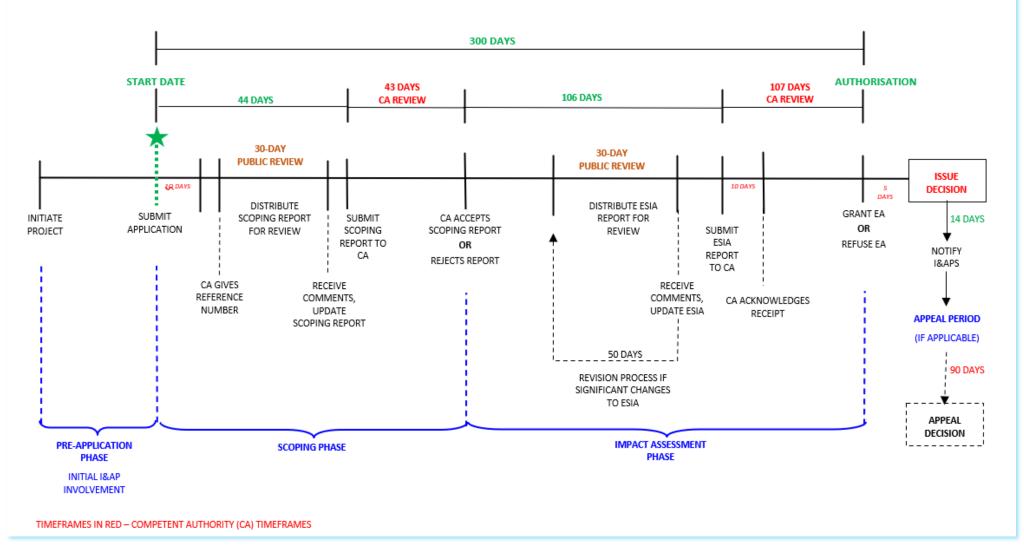


Figure 4: Scoping and EIA Process

SLR Consulting (South Africa) Proprietary Limited

RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD BACKGROUND INFORMATION DOCUMENT

PROPOSED PETROLEUM EXPLORATION DRILLING WITHIN TWO TARGET AREAS IN ER 294, FREE STATE PROVINCE

AUGUST 2022

PARTICULARS OF THE INTERES	TED AND AFFECTED PARTY DATE			
NAME				
ORGANISATION/COMPANY				
POSTAL ADDRESS				
	POSTAL CODE			
TELEPHONE NUMBER				
E-MAIL ADDRESS				
	INTERESTED & AFFECTED PARTY (I&AP) SO THAT I MA' ION AND NOTIFICATIONS DURING THE ENVIRONMENTA		NO	
			E-MAIL	
HOW WOULD YOU LIKE TO RECEIVE YOUR NOTIFICATIONS?		POS	POST	
		SM	SMS	
PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE (please use separate sheets if you wish)				

Please return completed forms to:

SLR contact: Theo Wicks/ Gugu Dhlamini

Email: RhinoER294@slrconsulting.com

PLEASE INCLUDE THE FOLLOWING OF MY COLLEAGUES/FRIENDS/NEIGHBOURS AS I&APS FOR THIS PROJECT:

Tel: 011 467 0945, Fax: 011 467 0975 and/ or Post: PO Box 1596, Cramerview, 2060

WhatsApp: 066 313 7574

By providing your personal information to be registered as an I&AP for this project you consent to SLR managing your information in accordance with the Protection of Personal Information Act 4 of 2013. This includes; retaining and using your Personal Information as part of a contact database for this and/or other ESIAs, contacting you regarding this and/or other ESIA processes, disclosing the database to other authorised parties including the applicant for lawful purposes, and including any correspondence in the ESIA Reports. You may request for your Personal Information to be deleted from the Project database or comments to be excluded from ESIA Reports at any time by contacting SLR.





RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (EDMS.) BPK. AGTERGRONDINLIGTINGSDOKUMENT

BEOOGDE EKSPLORASIEBOORWERK IN TWEE TEIKENGEBIEDE IN ER 294, VRYSTAATPROVINSIE

AUGUSTUS 2022

1. INLEIDING EN AGTERGROND

In 2019 het die (huidige) Departement van Minerale Energie Hulpbronne en (DMHE), deur die Petroleumagentskap van Suid-Afrika (Pasa), 'n Eksplorasiereg (ER) aan Rhino Oil and Gas Exploration South Africa (ROGESA) toegestaan om in 'n gebied in Suid-Afrika se Vrystaatprovinsie vir petroleumhulpbronne te soek (verwysing 12/3/294 (ER 294)). Die ER, wat toegelig is deur 'n Omgewingsmagtiging (OM), het ROGESA toestemming gee om 'n eksplorasiewerkprogram te kantoorgebonde studies en onderneem wat gradiometrie-swaartekragopname vanuit die lug behels.

ROGESA het die studies en opname onderneem, en beoog nou om eksplorasieboorgate in twee teikengebiede wat in die ER geleë is, te boor. Teikengebied 1 is suid van Petrus Steyn geleë en Teikengebied 2 lê suid van die R34 tussen Kroonstad en Edenville (sien Figuur 1). ROGESA het die spesifieke liggings op grond van die ontleding van geologiese data voorgestel en sal dit op grond van skakeling met grondeienaars en omgewingsondersoeke (laasgenoemde sal deel van hierdie OIE vorm) bevestig.

2. OMGEWINGSMAGTIGINGSPROSES

Voor die aanvang van die eksplorasieboorwerk, moet ROGESA 'n wysiging aan ER294 en die goedgekeurde Omgewingsbestuursprogram (OBPr) by die DMHE ingevolge Artikel 102 van die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne, 2002 (MPRDA) bekom.

Voorts word 'n OM van die DMHE af ook ingevolge die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998) (NEMA) benodig vir bedrywighede in Lyskennisgewing 1 (Staatskennisgewing R983 van 2014, soos gewysig) en Lyskennisgewing 2 (Staatskennisgewing R985 van 2014, soos gewysig). Die Regulasies op Omgewingsimpakevaluerings (OIE-regulasies) (Staatskennisgewing R982 van 2014, soos gewysig) vereis dat 'n Bestekopname- en OIE-proses onderneem word om 'n OM-besluit van die DMHE toe te lig. Openbare deelname is 'n belangrike komponent van die omgewingsevalueringsproses.

DOEL VAN HIERDIE DOKUMENT

Hierdie dokument is opgestel om u toe te lig oor:

- die beoogde boorwerkprojek;
- die projekalternatiewe wat oorweging geniet;
- die biofisiese, kulturele en sosio-ekonomiese grondlynomgewing van die beoogde projekgebied;
- die omgewingsevalueringsprosesse wat gevolg word;

- moontlike biofisiese, kulturele en sosioekonomiese impakte en verwante spesialisinsette; en
- hoe u insette in die omgewingsevalueringsproses kan lewer.

WIE IS DIE KONSULTANTE?

ROGESA het SLR Consulting South Africa (Edms.) Bpk. (SLR), 'n onafhanklike firma van omgewingskonsultante, aangestel om die omgewingsmagtigingsaansoekproses te bestuur.

U ROL

U is as 'n belangstellende en geaffekteerde party (B&GP) geïdentifiseer wat moontlik ingelig wil word oor die beoogde projek en insae in die omgewingsmagtigingsproses wil hê.

U het 'n geleentheid om hierdie dokument na te gaan en om u aanvanklike kommentaar aan SLR te stuur vir insluiting in die omgewingsevalueringsproses. U sal ook die geleentheid kry om die Bestekopnameverslag en OIE en OBPr na te gaan en om kommentaar daarop te lewer.

Alle kommentaar sal aangeteken en ingesluit word in die verslae wat ingedien gaan word vir besluitneming.

BESONDERHEDE VAN VERGADERING

STEYNSRUS

Datum: Woensdag, 7 September 2022 Plek: Steynsrus Boerevereniging Saal, Van Riebeeck Straat, Steynsrus Tyd: 15h00

EDENVILLE

Datum: Donderdag, 8 September 2022 Plek: Edenville Boerevereniging Saal, Mark Straat, Edenville Tyd: 09h00

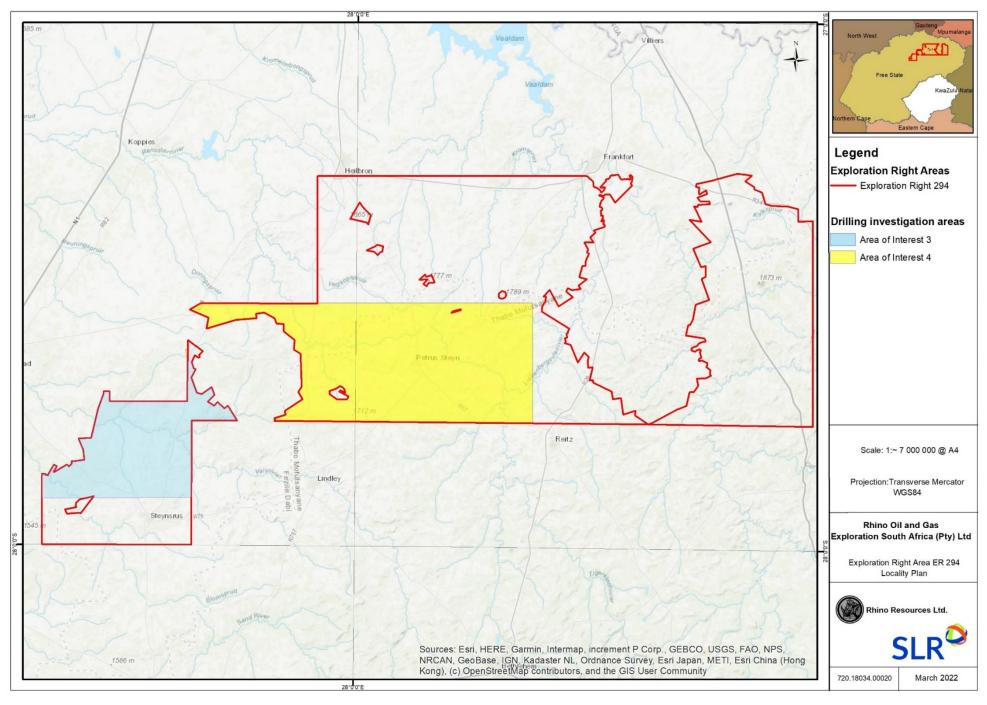
HOE OM TE REAGEER

Reaksie op hierdie dokument kan by wyse van die aangehegte kommentaarvorm en/of deur kommunikasie met die onderstaande persone ingedien word.

WIE OM TE KONTAK

SLR-kontak: Theo Wicks/Gugu Dhlamini Tel: 011 467 0945 WhatsApp: 066 313 7574 E-pos: RhinoER294@slrconsulting.com





Figuur 1: Liggingskaart (wys ER-grens en teikengebiede)



3. OORSIG VAN DIE BEOOGDE PROJEK

3.1 AANSOEK

'n Aansoek om 'n OM sal in September 2022 via Pasa ingedien word. Aanvaarding van die aansoek deur Pasa sal die applikant slegs toelaat om die vereiste Bestekopnameen OIE-proses voort te sit en kom nie neer op magtiging nie. Die Bestekopname- en OIE-proses is onderhewig aan die tydsraamwerke wat in die OIE-regulasies van 2014 (soos gewysig) voorgeskryf word.

3.2 OORSIG VAN PROJEK EN PROSES

ROGESA beoog om hoogstens 40 eksplorasieboorgate in die projekgebied te boor. Die beoogde werkprogram sal uit die volgende fases bestaan (hieronder opgesom):

- Identifisering van en permitte vir boorgate;
- mobiliseringsfase;
- boorfase;
- boorgat-uitvoeringsfase;
- toetsfase;
- boorgatverlatingsfase; en
- demobiliseringsfase.

Identifisering van en permitte vir boorgate

Die identifisering en ligging van teikenboorgatterreine sal onderneem word op grond van 'n kombinasie van:

- moontlike petroleumdraende geologieë soos bepaal deur die ontleding van data;
- gebiede wat ná 'n omgewings- en maatskaplike sifting oorbly waar sensitiewe omgewings (soos vleilande, waterlope, kritieke biodiversiteits-gebiede en gebiede van kulturele belang) vermy word;
- terreinevaluering deur ekologie-, erfenis- en geohidrologiespesialiste; en
- bevestiging van 'n toegangsooreenkoms met grondeienaars.

Mobiliseringsfase

Die boorinstallasie, saam met verwante meganiese infrastruktuur (kompressors, kragopwekker, gasveiligheidsklep, waterpomp en -kar, booropvangput, boorstange, afvalhouers) sal binne-in 'n beveiligde boorterreinkamp wees. Personeel sal weg van die terrein af gehuisves word (d.i. nie by die boorterreinkamp nie).

Boorfase

Gedurende die boorfase word verskillende groottes boorpunte gebruik om 'n reeks teleskopiese gate te boor, van die oppervlak af tot by die totale diepte van die beplande boorgat. Die eerste, buitenste gat is die grootste en word die boonste gat genoem, terwyl die daaropvolgende binneste gate geleidelik kleiner en kleiner word namate die boorgat dieper word. Dit word volgehou totdat die laaste gat, wat die kleinste is, die teikendiepte bereik. Tydens die boorproses word boorvloeistowwe soos druklug of modder teen die binnekant van die boorpyp af en kom by die boorpunt boorbedrywighede te optimaliseer.

Sodra elke gatgedeelte geboor is, word omhulsels (staalbuise) in die gat ingevoer en in plek vasgesement om die seksie wat pas geboor is te beveilig/seël en om voorsiening te maak vir die boor van die volgende (kleiner) gatgedeelte. Die sementwerk behels dat sement in die boorstring af tot onder gepomp word. Die sement vloei dan by die onderkant van die voeringindryfskoen uit en terug op in die ruimte tussen die gevoerde gat en die oop gat.

Die geïnstalleerde voering en sement is 'n beproefde versperring wat die boor van die volgende gedeelte vergemaklik, wat dit moontlik maak om die uiteindelike teikendiepte op die veiligste manier te bereik.



Figuur 2: Tipiese kernboorinstallasie

Boorgat-uitvoeringfase

Die uitvoering van die boorgat behels:

- boorgatbeskrywing al die boorgate sal beskryf word om die litologie aan te teken en om die gehalte van die sementvoering van die boorgat te bevestig; en
- boorgatvoltooiing die bek van die boorgat word met nywerheidswater verplaas wat nodig is om die afwaartse druk in die gat te balanseer en, terselfdertyd, die verwydering van modder/vaste stowwe uit die gat te voltooi.

In die geval van onsuksesvolle boorgate, sodra 'n volledige beskrywing van die reservoirgedeelte onderneem is, sal die gat toegestop en verlaat word (sien gedeelte op keersy).

Toetsfase

Die doelwitte met die toets van boorgate is om:

- belangrike tegniese faktore van die reservoir (bv. grootte, deurlaatbaarheid en vloeistofkenmerke) en waardes vir gebruik in toekomstige boorwerk te bepaal; en
- 2. verteenwoordigende data, met insluiting van reservoirdruk, produksietempo's en monster(s) te bekom.

Tydens toetsing word herwonne koolwaterstowwe na 'n vlamsuil met 'n brander toe gestuur om die volledigste moontlike ontbranding van vloeistowwe/gasse

(koolwaterstowwe inkluis) te verseker. Om te verseker dat verbranding veilig weg die boorterrein af gedoen kan word, kan 'n vlamput geïnstalleer word om brandverspreiding te voorkom.

Die vloeitydperke en -tempo's sal beperk word tot die minimum wat nodig is om die vereiste reservoir-inligting tydens die boorgattoets te bekom. Na verwagting sal die tyd om 'n boorgat vir hierdie projek te toets, hoogstens sowat 30 dae wees.

Boorgatverlatingsfase

Die bestek van boorgatverlating is om die omgewing te beskerm deur alle duidelik-deurlaatbare sones (d.i. die sones van potensiële koolwaterstowwe of waterinvloei wat deur die boorgat binnegedring sal word) doeltreffend af te dig om te verseker dat formasievloeistowwe geïsoleer word, beide binne-in die boorgat en in ringvormige ruimtes, en dat hul migrasie tussen verskillende formasies en/of tot op die oppervlak voorkom word. Vir onsuksesvolle boorgate sal 'n sementprop-setwerk gedoen word.

Aan die einde van die prop- en verlatingsbedrywighede, sal die boorgatskematika en boorkopligging (insluitende omhulselafmeting, lengte, sementpropafmeting en -samestelling, druk- en invloeitoetsuitslae, ens.) ingesluit word in 'n finale verslag wat by Pasa ingedien word.

<u>Demobiliseringsfase</u>

Met voltooiing van die boorwerk, sal die boorinstallasie, steunvoertuie en -masjinerie van die boorgatterrein af verwyder word en die terrein sal gerehabiliteer word tot 'n toestand wat aanvaarbaar is vir die grondeienaar.

4. PROJEKALTERNATIEWE

<u>Ligging</u>: Die teikengebiede is as die waarskynlikste liggings vir die teenwoordigheid van die petroleumhulpbron geïdentifiseer, op grond van die feit dat hulle 'n geskikte geologiese stratum het. Gebiede met hoër ekologiese en maatskaplike sensitiwiteit sal uitgesif word om nie oorweeg te word nie. Die finale terreine sal op grond van veldwerk deur 'n ekoloog, erfenis- en geohidrologiespesialis, sowel as in ooreenkoms met die grondeienaar, gekies word.

<u>Tegnologie/Boorinstallasie</u>: Op grond van 'n huidige begrip van die grondtoestande, het ROGESA besluit op 'n vragmotor-gemonteerde boorinstallasie met lug- en modderboorvermoë.

5. NODIGHEID EN WENSLIKHEID

Petroleumprodukte bly 'n noodsaaklike bron van energie. Aardgas bestaan hoofsaaklik uit metaan en kan 'n betreklik skoon vorm van energie wees. Dit kan gebruik word om elektrisiteit op te wek of om warmte vir huishoudelike en nywerheidsdoeleindes te voorsien. Petroleum is ook 'n belangrike inset in baie vervaardigingsprosesse. Wanneer die gas eers onttrek is, kan dit maklik verpak, vervoer en veilig in vele aanwendings gebruik word. Die soort gebruik met die ketting langs, sal heeltemal afhang van die kommersiële skaal van die hulpbron.

Die doel van die beoogde eksplorasieboorwerk is om dit moontlik te maak om vas te stel of geologiese strukture ("prospekteergebiede") olie of gas in potensieel kommersiële ontginbare hoeveelhede bevat.

6. TYDSBEREKENING

Die boor- en toetsprogram word oor etlike maande beplan. Die program word in die boor- en toetsfases verdeel, met die suksesvolle voltooiing van een fase wat die volgende fase toelig. Boorwerk by elke terrein kan een tot drie maande neem om af te handel. Kortstondige boorgattoetse (sowat 30 dae) word beplan.

7. GRONDTOEGANG

Die beoogde boorpersele sal op privaat eiendom geleë wees en toegang, vestiging, bestuur en rehabilitasie sal met die grondeienaar se vooraf-toestemming (ingevolge 'n geskrewe ooreenkoms) geskied.

8. OMGEWINGSBESTUUR

Die proses om die impakte wat verband hou met die boorbedrywighede te bestuur en om versteurde gebiede te rehabiliteer, sal ingevolge die OBPr, wat vir die projek ontwikkel en onderhewig is aan goedkeuring deur die DMHE, geskied.

9. TOEKOMSTIGE EKSPLORASIE OF PRODUKSIE

Die huidige aansoek is slegs om die beoogde boorgatboorwerk te magtig soos dit hierbo beskryf is (wat in besonderhede in die Bestekopname- en OIE-verslag bespreek sal word). Enige verdere eksplorasiebedrywighede of toekomstige produksie sal verdere goedkeuring deur die DMHE vereis. Sodanige goedkeurings sal onderhewig wees aan die tersaaklike wetlike vereistes, wat verdere openbare oorlegpleging en omgewingsevaluerings insluit.



Figuur 3: Voorbeeld van boorbedrywighede

10. OORSIG VAN GRONDLYNOMGEWING10.1 BIOFISIESE OMGEWING

Geologie: Is in die Karoo-kom geleë.

Klimaat: Gekenmerk deur somerreënval, warm tot baie warm somers en koel tot koue winters.

<u>Grondsoorte en grondvermoë</u>: Die projekgebied word grootliks gekenmerk deur struktuurlose en tekstuurkontrasgrondsoorte en grondsoorte met ongedifferensieerde klei. Grotendeels lae bewerkbare potensiaal met hoë erosiegevaar.

Grondbedekking: Die projekgebied bestaan uit grasvelde en 'n aansienlike gebied word deur bewerkte landerye gekenmerk.

<u>Hidrologie</u>: Talle vleilande, dammetjies en plaasdamme wat vir veesuiping en huishoudelike doeleindes gebruik word, is in die projekgebied geleë. Die Vaaldam loop deur Teikengebied 1 van die projekgebied.

<u>Grondwater</u>: Grondwatergebruik en -onttrekking in die gebied wissel tussen onttrekking van seisoenale grondwater uit vlak putte tot die boor van boorgate vir huishoudelike/munisipale gebruik en landboudoeleindes.

<u>Flora</u>: Die projekgebied is in die Grasveldbioom geleë, grotendeels in die Sentraal-Vrystaat, Oos-Vrystaatse Klei- en Frankfort Hoëveld Grasveldbiostreke.

<u>Fauna</u>: Talle faunaspesies hou verband met die verskillende natuurlike plantegroei-eenhede in die projekgebied. Potensiële spesies van kommer sluit onder andere die *Amblysomus septentrionalis*, *Spizocorys fringillaris* en die *Homoroselaps dorsalis* in.

<u>Luggehalte</u>: Die projekgebied se omringende luggehalte is oor die algemeen goed, met party streke wat deur industriële emissies van kragstasies, chemiese en vervaardigingsnywerhede, mynboubedrywighede, landboubedrywighede, padgebruik, biomassaverbranding, huishoudelike brandstofverbranding en motorvoertuigemissies beïnvloed word.

10.2 KULTUUROMGEWING

<u>Erfenis-/Kultuurhulpbronne</u>: Na verwagting sal die projekgebied se landskap oor verspreide Ystertydperk klipmure, plaasopstalle en gepaardgaande begraafplase, ongemerkte grafte en tot 'n mindere mate 'n paar Steentydperk artefakte verspreidings of oop terreine beskik.

<u>Paleontologiese hulpbronne</u>: Die projekgebied is grotendeels onderlê deur die Normandien-formasies van baie hoë fossielsensitiwiteit wat tot die Beaufortgroep en Karoo Supergroep behoort. In hierdie gebied is hierdie formasie erg deur stollingsdoleriet ingedring. Fossiele wat algemeen in hierdie formasie aangetref word, is vis, amfibieë, reptiele, terapsiede en gewerweldes se gate, Glassopteris-boomfossiele en insekvlerke.

10.3 SOSIO-EKONOMIESE OMGEWING

<u>Sosio-ekonomies</u>: Oor die algemeen word die munisipale gebiede wat oor die projekgebied strek, gekenmerk deur hoë vlakke van ongeletterdheid en werkloosheid. 'n Groot meerderheid van die bevolking woon in formele huise/geboue met toegang tot spoeltoilette en elektrisiteit. Toegang tot pypwater in die wonings bly egter 'n probleem.

<u>Grondgebruik</u>: Die gebied word hoofsaaklik vir kommersiële landbou gebruik. Die landboubedrywighede sluit 'n kombinasie van gewasverbouing, diereproduksie, tuinbou, melkboerdery, wildsboerdery, akwakultuur, vrugteverbouing en agroverwerking in.

11. SPESIALISSTUDIES OM DIE OMGEWINGSMAGTIGINGSPROSES TOE TE LIG

Die volgende spesialisevaluerings sal as deel van die OIE-proses onderneem word:

- Akwatiese en Terrestriële Biodiversiteitsevaluerings;
- Erfenisevaluering;
- Paleontologie-evaluering; en
- Hidrogeologie-evaluering.

12. OMGEWINGSMAGTIGING EN OPENBARE DEELNAMEPROSES

12.1 OMGEWINGSMAGTIGINGSPROSES

Die OIE-proses bied inligting oor die projek, met betrekking tot prosedurele komponente en die omgewing waarin die projek beoog word. In oorleg met B&GP's, identifiseer en evalueer dit die potensiële negatiewe en positiewe biofisiese, kultuur- en sosio-ekonomiese impakte.

Die omgewingsevalueringsproses doen ook verslag oor bestuursmaatreëls wat benodig word om impakte tot op 'n aanvaarbare vlak te versag en inkorporeer vereistes vir moniteringsprogramme (waar dit vereis word). Die proses se stappe en beraamde tydsraamwerke word hieronder voorsien.



- Voor-aansoekvergadering met PASA.
- Identifisering van B&GP's en die ontwikkeling van die projek se databasis.
- Stel B&GP's in kennis van die projek (d.m.v. koerantadvertensies, terreinkennisgewings, SMS'e/ WhatsApp's en hierdie dokument).
- Skakel met B&GP's d.m.v. vergaderings en konsultasies.
- Stel 'n Bestekopnameverslag en opsomming saam.
- Dien die OM-aansoek by die DMHE in.
- Versprei die Bestekopnameverslag aan B&GP's vir oorsig (30-dae oorsigtydperk).
- Dien Bestekopnameverslag (met insluiting van B&GPkommentaar) by die DMHE in vir oorsig en kommentaar (43-dae oorsigtydperk).
 - Onderneem voorgestelde spesialis-ondersoeke/-studies.
- Stel die OIE en OBPr en opsomming op.
- Versprei OIE en OPBr aan B&GP's en reguleringsowerhede vir oorsig (30-dae oorsigtydperk).
- Dien OIE en OBPr (met insluiting van B&GPkommentaar) by die DMHE in vir besluitneming (107-dae besluitnemingstydperk).
- Versprei die DMHE se besluit onder B&GP's wanneer dit ontvang word.
- Appèlproses (indien van toepassing) ingevolge die Appèlregulasies.

12.2 OPENBARE DEELNAMEPROSES

Die doel van die openbare deelnameproses is om B&GP's in kennis te stel van die beoogde projek en om hulle van die tersaaklike inligting te voorsien en om hulle die geleentheid te bied om kwessies of knelpunte met betrekking tot die beoogde projek te opper. Die openbare deelnameproses sal ingevolge die vereistes van Hoofstuk 6 van die OIEregulasies, 2014, soos gewysig, onderneem word. B&GP's wat by die OIE-proses betrokke is, word hieronder gelys:

B&GP's BETROKKE BY DIE OMGEWINGSMAGTIGINGSPROSES

GRONDEIENAARS, GRONDGEBRUIKERS EN ANDER B&GP's

- Omliggende grondeienaars, grondgebruikers en gemeenskappe
- Nie-regeringsorganisasies en verenigings
- Omliggende myne en nywerhede
- Semi-staatsinstellings.

BEVOEGDE OWERHEID

- Departement van Minerale Hulpbronne en Energie (DMHE)
- Petroleumagentskap van Suid-Afrika (Pasa).

OWERHEDE WAT KOMMENTAAR LEWER

- Vrystaatse Departement van Water en Sanitasie
- Vrystaatse Departement van Ekonomiese Ontwikkeling, Toerisme en Omgewingsake
- Vrystaatse Departement van Landbou en Landelike Ontwikkeling
- Suid-Afrikaanse Provinsiale Erfenishulpbronagentskap (SAHRA).

PLAASLIKE OWERHEDE

- Moghaka Plaaslike Munisipaliteit
- Nketoana Plaaslike Munisipaliteit
- Fezile Dabi Distriksmunisipaliteit
- Thabo Mofutsanyane Distriksmunisipaliteit.

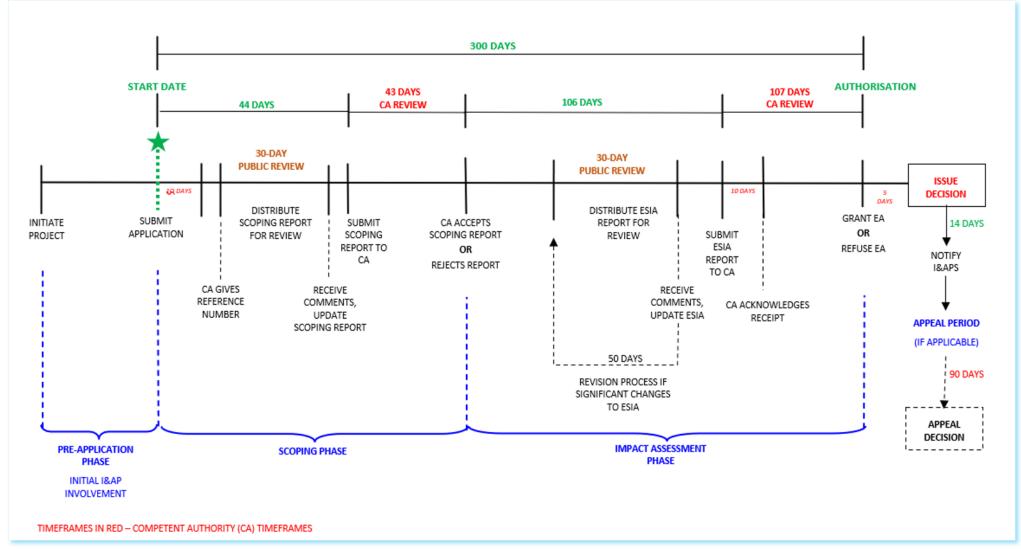
Laat ons asseblief weet as daar nog partye is wat betrokke moet wees.

13. VEREISTES MET BETREKKING TOT WETLIKE OMGEWINGSRAAMWERK EN -PROSES

Die figuur op die keersy bied 'n oorsig van die Bestekopname- en OIE-proses.



FASE III: OIE- en OBPr-fase [Des – Apr 2023]



Figuur 4: Bestekopname- en OIE-proses

SLR Consulting (South Africa) Eiendoms Beperk

RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (EDMS.) BPK. AGTERGRONDINLIGTINGSDOKUMENT

BEOOGDE BOORWERK VIR PETROLEUMEKSPLORASIE IN TWEE TEIKENGEBIEDE IN ER 294, VRYSTAATPROVINSIE

			AC	0031032022
BESONDERHEDE VAN BELANG GEAFFEKTEERDE PARTY	STELLENDE EN	DATUM		
NAAM				
ORGANISASIE/MAATSKAPPY				
POSADRES				
	Р	OSKODE		
TELEFOONNOMMER				
E-POSADRES				
	'N BELANGSTELLENDE EN GEAF GEN KENNISGEWINGS TYDENS I TVANG		JA	NEE
			E-PC	OS
HOE WIL U U KENNISGEWING	S ONTVANG?		PO	S
			SM	S

SKRYF U KOMMENTAAR EN VRAE ASSEBLIEF HIER NEER	(gebruik	gerus aparte	e bladsye as u v	vil)
--	----------	--------------	------------------	------

SLUIT ASSEBLIEF DIE VOLGENDE VAN MY KOLLEGAS/BURE IN AS B&GP'S VIR HIERDIE PROJEK:

Stuur ingevulde vorms asseblief terug aan:

SLR-kontak: Theo Wicks/Gugu Dhlamini E-pos: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Faks: 011 467 0975 en/of Pos: Posbus 1596, Cramerview, 2060

WhatsApp: 066 313 7574

Deur u persoonlike inligting te voorsien om as 'n B&GP vir hierdie projek geregistreer te word, stem u in daartoe dat SLR u inligting ingevolge die Wet op die Beskerming van Persoonlike Inligting, Wet 4 van 2013, beheer. Dit sluit in: om u Persoonlike Inligting as deel van 'n kontakdatabasis vir hierdie en/of ander Ekonomiese en Maatskaplike Impakevaluerings (EMIE's) te behou en te gebruik, u in verband hiermee en/of EMIE-prosesse te kontak, die databasis vir wetlike doeleindes aan ander gemagtigde partye, insluitende die applikant, bekend te maak, dit vir wetlike doeleindes te verwerk, en enige korrespondensie in EMIE-verslae in te sluit. U kan te enige tyd versoek dat u Persoonlike Inligting uit die projek se databasis geskrap word of kommentaar by EMIE-verslae uitgesluit word, deur SLR te kontak.



RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD TOKOMANE E FANANG KA TLHAHISOLESEDING YA SETSHEHETSO

PHUPUTSO E SISINTSWENG YA BORA SEDIBA DIBAKENG TSE PEDI TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 294, PROVINSING YA FREISTATA

PHATO 2022

1. SELELEKELA LE **TLHAHISOLESEDING** YA **SETSHEHETSO**

Ka 2019, Department of Mineral Resources and Energy (DMRE) (la hajwale), ka ho sebedisa Petroleum Agency of South African (PASA), e ile ya neha Rhino Oil and Gas Exploration South Africa (ROGESA) tumello ya Exploration Right (ER) bakeng sa ho fuputsa mehlodi ya petroleamo sebakeng sa Provinse ya Freistata Afrika Borwa (referense ke 12/3/294 (ER 294)). EA e ileng ya tsebiswa ke Environmental Authorisation (EA), e ile ya dumella ROGESA ho gala lenaneo la phuputso le kenyeletsang diphuputso tsa desktop le tsa phuputso ya aerial gradiometry gravity.

ROGESA e ile ya qadisa diphuputso le dipatlisiso mme hajwale e sisinya ho etsa phuputso ya ho bora didiba Dibakeng tse pedi tseo ho Tsepamisitsweng ho tsona tse kentsweng ho ER. Sebaka sa 1 seo ho Tsepamisitsweng hosona se ka borwa ba Petrus Steyn mme Sebaka sa 2 seo ho Tsepamisitsweng ho sona se R34 pakeng tsa Kroonstad le Edenville (sheba Setshwantsho sa 1). Dibaka tseo ka ho qollehileng di sisintsweng bakeng sa sediba ke ROGESA ke ho ya ka tihophollo ya datha ya sebaka mme sena se tla netefatswa ho ya ka seabo sa mong a mobu le diphuputso tsa tikoloho (se boletsweng polelwaneng ya bobedi e tla ba karolo ya EIA ena).

2. TSHEBETSO YA TUMELLO YA **TIKOLOHO** (ENVIRONMENTAL AUTHORISATION

Pele ROGESA e ka gala ka phuputso ya ho bora, ho fumane tlhahisoleseding hlokahala е ntjhafaditsweng ya ER 294 le e tjhaetsweng monwana bakeng Environmental Management Programme (EMPr) ho tswa ho lefapha la DMRE ho ya ka Karolo ya 102 ya Minerals and Petroleum Resources Development Act, 2002 (MPRDA).

Ho phaella mona, EA e tswang lefapheng la DMRE ho ya ka National Environmental Management Act (Nom. ya 107 wa 1998) (NEMA), bakeng sa mesebetsi e ho Listing Notice 1 (GNR 983 ya 2014, jwalo ka ha e ntjhafaditswe) le Listing Notice 2 (GNR 985 of 2014, jwalo ka ha e ntjhafaditswe) le tsona di a hlokahala. Environmental Impact Assessment (EIA) Regulations (GNR 982 tsa 2014, jwalo ka ha di ntjhafaditswe) di hloka hore tshebetso ya phuputso le ya EIA di etswe ho theha karolo ya qeto ya EA ho lefapheng la DMRE. Ho nka karolo ha setjhaba ke karolo ya bohlokwa ya tshebetso ya tekolo ya tikoloho.

SEPHEO SA TOKOMANE ENA

Tokomane ena e hlophisitswe ka sepheo sa ho tsebisa

- Projeke e sisintsweng ya ho bora sediba;
- Mekgwa e meng e fapaneng ya projeke e nahanetsweng;
- Motheo wa tikoloho mabapi le bophelo le sebaka, setso, setjhaba le moruo mabapi le projeke e sisintsweng sebakeng sena;
- Ho latela ditshebetso tsa tekolo ya tikoloho;
- Dikgahlamelo tse ka bang teng bophelong le sebakeng, setsong, le setjhabeng le moruong le ho utlwa maikutlo a kgethehileng a amehang; le
- Kamoo ho ka sebediswang tshebetso ya tekolo yta tikoloho.

BAELETSI KE BOMANG?

SLR Consulting South Africa (Pty) Ltd (SLR), baeletsi ba ikemetseng ditabeng tsa tikoloho, ba thontswe ke ROGESA bakeng sa ho tsamaisa tshebetso ya kopo ya tumello ya tokelo ya tikoloho.

SEABO SA HAO O hlwauwe jwalo ka motho ya nang le thahasello le sehlopha se angwang ke projeke ena (I&AP) ya ka lakatsang ho tsebiswa mabapi le projeke e sisintsweng le ho fana ka maikutlo a hao mabapi le tshebetso ya tumello ya tikoloho.

O na le monyetla wa ho hlahloba tokomane ena le ho hlahisa maikutlo a hao a pele ho SLR e le hore a ka kenyeletswa tshebetsong ya tekolo ya tikoloho. O tla boela o fuwe monyetla wa ho hlahloba le ho fana ka maikutlo a hao ho Scoping Report le EIA le EMPr.

Maikutlo kaofela a tla ngolwa fatshe le ho kenyeletswa ditlalehong tse romelwang bakeng sa ho etså geto.

STEYNSRUS

Letsatsi: Laboraro, la 7 Lwetse 2022 Sebaka: Steynsrus Boerevereniging Hall, Van Riebeeck Street, Steynsrus

Nako: 15h00

EDENVILLE

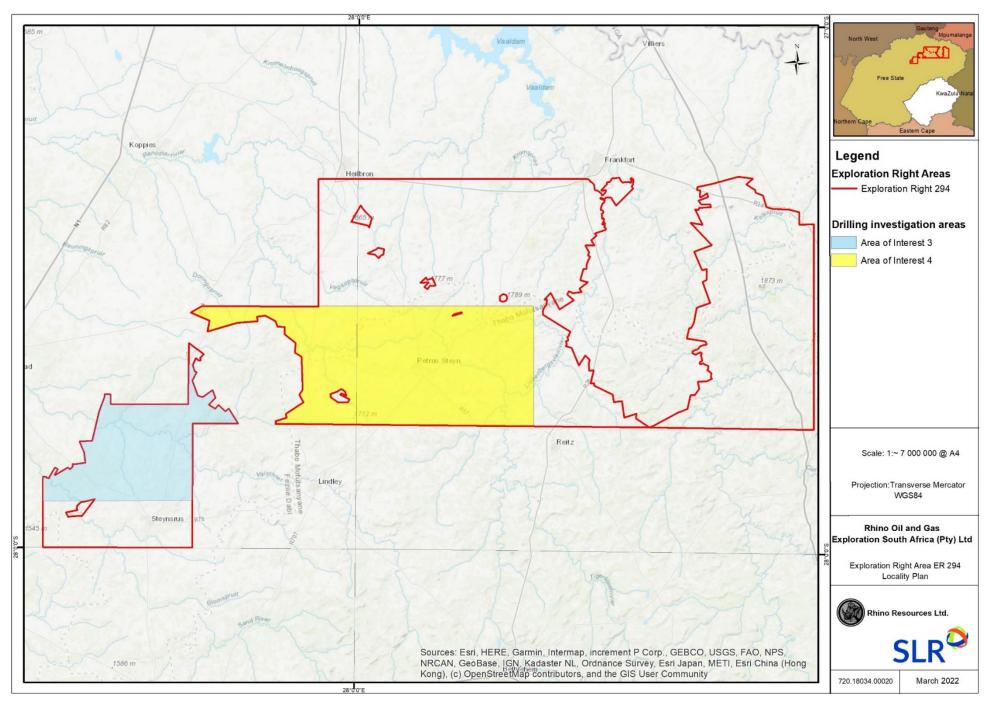
Letsatsi: Labone, la 8 Lwetse 2022 Sebaka: Edenville Boerevereniging Hall, Mark Street, Edenville Nako: 09h00

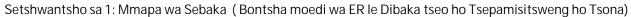
KAMOO O KA ARABELANG KATENG

Dikarabelo tokomaneng ena di ka romelwa ka leqephe la ho fana ka maikutlo le/kapa ka ho buisana le batho ya thathamisitsweng mona ka tlase.

KE BOMANG BAO O KA IKOPANYANG LE BONA SLR contact: Theo Wicks/ Gugu Dhlamini Mohala: 011 467 0945 Whatsapp: 066 313 7574 Imeile: RhinoER294@slrconsulting.com









3. KAKARETSO YA PROJEKE E SISINTSWENG

3.1 KOPO

Kopo bakeng sa EA e tla romelwa ka ho sebedisa PASA ka Lwetse 2022. Ho amohelwa ha kopo ke PASA ke feela bakeng sa hore mokopi wa tumello a tswele pele ka kopo ya tshebetso ya diphuputso le EIA mme ha se tumello. Tshebetso ya diphuputso le EIA e laolwa ke nako jwalo ka ha ho hlalositswe ho 2014 EIA Regulations (jwalo ka ha di ntjhafaditswe).

3.2 KAKARETSO YA PROJEKE LE TSHEBETSO

ROGESA e sisinya ho bora didiba tse sa feteng tse 40 tsa diphuputso sebakeng sa projeke. Lenaneo la mesebetsi le kenyeletsa mekgahlelo e latelang (e akareditswe mona ka tlase):

- Ho hlwaya sediba le tumello
- Mokgahlelo wa Tshebetso;
- Mokgahlelo wa ho Bora;
- Mokgahlelo wa Tshebediso ya Sediba;
- Mokgahlelo wa Teko;
- Mokgahlelo wa ho tlohela sebedisa; le
- Mokgahlelo wa ho Kgaotsa Tshebetso.

Ho hlwaya sediba le tumello

Ho hlwaya le ho bona dibaka tseo ho tsepamisitsweng ho tsona bakeng sa sediba ho tla etswa ka motswako ona:

- Dibaka tseo ho lebeletsweng ho fumana petroleamo ho tsona ho ipapisitswe le tlhophollo ya datha;
- Dibaka tse salang kamora tlhahlobelo ya tikoloho le setjhaba. Ditikoloho tseo ho tshwenyehilweng haholo ka tsona hore di ka senyeha (dibaka tse nang le mohlaka le tse mongobo, dibaka tse nang le metsi, dibaka tse nang le bophelo bo fapaneng, dibaka tsa setso haholo) di hla hlahlobelwa;
- Tekolo ya sebaka e etswang ke ditsebi tse hlwahlwa tsa ekholoji le lefa la naha; le
- Netefatso ya tumello ya phihlello ke beng ba mobu.

Mokgahlelo wa Tshebetso

Motjĥini o borang, le thepa e nngwe ya motjhini (dikhompresara, jenereitha, blow-out protector, pompo ya metsi le cart, sump ya ho bora, dithutswana tsa ho bora, di- waste skip) di tla ba sebakeng se sireletsehileng sa kampo ya setsha. Moifo o tla amohelwa sebakeng se ka thoko ho projeke (ke hore, sebakeng seo e seng kampo ya sebaka seo ho borwang ho sona).

Mokgahlelo wa ho Bora

Nakong ya mokgahlelo wa ho bora, ho sebedisa di-bit tsa boholo bo fapaneng ho bora mekoti ya telescope, ho tswa kahodimo ho mobu ho tjheka tlase boteng ba sediba se rerilweng. Mokoti wa pele, o ka ntle, o moholo haholo mme o bitswa tophole, mme mekoti e latelang e kahare e ba menyenyane haholo ha mekoti e ntse e borwa ho teba. Sena se tswela pele ho fihlela mokoting wa ho qetela, o monyenyane ka holo, ho fihlela ho mohato o tlase wa sediba. Nakong ya tshebetso ya ho bora, mekedikedi ya ho bora e kang ho pompela ka khompresara ya moya kapa ho

bora seretseng kahare ho peipi ya ho bora le ho tswa ka biti ho eketsa haholo ditshebetso tsa ho bora.

Hang ha sebaka ka seng sa mokoti se borilwe, (di-steel tubular) ho fihla sedibeng mme se tla kwahelwa ka samente ho se sireletsa/ho kwala bokahare ba mokoti se sa tswa borwa le ho dumella hore ho borwe sebaka sa mokoti o latelang (se senyenyane). Tshebetso ya ho kenya samente e kenyeletsa ho pompela samente ho fihla tlase mokoting o borilweng. Samente se phallela tlase, kgohlopong e borilweng le ho tshehetsa sebaka se sedikadikwe se borilweng le mokoti o bulehileng.

Ho bora mokoti le ho kenya samente ke mokwallo o lekilweng o thusang hore ho borwe karolo e latelang, ho dumella ho fihlella botebo boo ho tsepamisitsweng ho bona ka mokgwa o bolokehileng.



Setshwantsho sa 2: Sebaka se tlwaelehileng sa mokoti o borilweng

Mokgahlelo wa Tshebediso ya Sediba

Tshebediso ya sediba e kenyeletsa:

- Ho bora bakeng sa sediba Ka seng sa didiba tse borwang se tla ngolwa fatshe ditlalehong tsa litholoji le ho netefatsa boleng ba samente e tshehetsang sebaka se borilweng sa sediba; mme
- Ho phetha sediba mokoti o borilweng o tla kengwa metsi a indasteri, a hlokahalang bakeng sa ho boloka tekatekano ya kgatello le, ka nako e tshwanang, ho qetella ho tloswa ha seretse/dintho tse thata sedibeng.

Ha e le mabapi le didiba tseo ho sa kang ha fumanwa katleho ho tsona, hang ha sebaka sa sediba se borilwe ka ho feletseng se tla kwahelwa le ho tlohelwa.

Mokgahlelo wa Teko

Dipheo tsa ho etsa diteko sedibeng ke bakeng sa:

- 1. Ho fuputsa mabaka a setekniki a sediba (ka mohlala, boholo ba sona, bokgoni ba ho bora le dibopeho tsa mokedikedi) le boleng ba tshebediso ya nako e tlang bakeng sa ho bora; le
- 2. Ho fumana datha e emelang e kenyeletsang kgatello ya sediba, sekgahla sa tlhahiso le (di)sampole.

Nakong ya ho etsa diteko, dihaedrokhabone tse fumanwang di tjheswa leifo ho etsa bonnete ba hore mekedikedi/dikgase di tjheswa ka ho feletseng (ho kenyeletswa le dihaedrokhabone) kamoo ho kgonahalang. Ho etsa bonnete ba hore ho tjhesa ho etswa ka mokgwa o bolokehileng setsheng sa ho bora, ho tla etswa sebopi ho thibela mollo ho ya hole.

Dinako tsa phallo le sekgahla di tla lekanyetswa ho ba nyenyane kamoo ho hlokahalang ho fumana tlhahisoleseding e hlokahalang ya sediba nakong ya diteko tsa sediba. Ho lebeletswe hore boholo ba nako ya teko ya sediba bakeng sa projeke ena e tla ba hoo e ka bang matsatsi a 30.

Mokgahlelo wa ho Tlohela Sediba

Phuputso ya ho tlohela sediba ke bakeng sa ho sireletsa tikoloho ka ho kwala dibaka tsena ka mokgwa o sebetsang (ke hore, ho kenella ha dihadrokhabone kapa metsi ho ka etsahalang Sedibeng), ho etsa bonnete ba hore ho bopeha ha mekedikedi ho a arolwa, bobedi kahare ho sediba se borilweng le dibakeng se sedikadikwe, le ho tloha ha tsona dibopehong tse fapaneng le/kapa ho fihla bokahodimong ba mobu ho a thibelwa. Bakeng sa didiba tse sa atlehang, ho tla etswa mosebetsi wa ho etsa sekwahelo sa samente.

Qetellong ya tshebetso ya ho kwala le ho tlohela sediba, sebaka sa schematic le sa hlooho ya sediba (ho kenyeletsa boholo ba sebaka se borilweng, ditekanyo tsa sekwahelo sa samente le moetso, kgatello le diphetho tsa phallo, jl.) di tla kenyeletswa tlalehong ya ho qetela e romelwang ho PASA.

Mokgahlelo wa ho Kgaotsa

Qetellong ya ho tshebetso ya ho bora, dikoloi tsa tshehetso le metjhini e tla tloswa sebakeng sa sediba mme setsha se tla hlabollwa hore se be boemong bo amohehelang ho mong mobu.

4. MEKGWA E MENG HO FAPANA LE PROJEKE

<u>Sebaka</u>: Dibaka tseo ho Tsepamisitsweng ho tsona di ile tsa hlwauwa jwalo ka tse nang le monyetla o moholo haholo wa mohlodi wa petroleamo, hoy a ka stratum sa sebaka se loketseng. Dibaka tse nang le ekholoji le batho ha di a kenyeletswa morerong o na. Ditsha tsa ho qetela di tla kgethwa hoy a ka mosebetsi wa ditsebi tsa ekholoji le tsa dibaka tseo e leng lefa la setjhaba, hammoho le tumellano le mong a mobu.

<u>Teknoloji/tshebetso ya ho bora</u>: Ho ipapisitswe le kutlwisiso ya hajwale ya boemo ba mobu, ROGESA e kgethile ho sebedisa boro e laetsweng terakeng le bokgoni ba ho bora ka moya le ho bora seretseng.

5. TLHOKO LE HO LAKATSEHA

Dihlahiswa tsa petroleamo di dula e le mohlodi wa bohlokwa wa eneji. Kgase ya tlhaho eo boholo ba yona e leng methane le mofuta o hlwekileng wa eneji. E ka sebediswa ho fehla motlakase kapa ho fana ka motjheso bakeng sa merero ya lehae le ya indasteri. Petroleamo e boetse ke sehlahiswa sa bohlokwa ditshebetsong tse ngata tsa tlhahiso ya thepa. Hang ha kgase e hutswe ka mokgwa o bonolo e ka bolokwa, ya tsamaiswa le ho sebedisa ka ditsela tse ngata. Mofuta o sebediswang wa kgase e hulwang o tla itshetleha ka ho feletseng ka tekanyo ya kgwebo ya mohlodi ona.

Sepheo sa phuputso e sisintsweng ya ho bora sediba ke ho fumana haeba dibopeho tsa sebaka le mobu ("prospects") di na le oli kapa kgase e ka hulwang ka ditekanyo tse ka sebediswang kgwebong.

6. NAKO

Ho bora sediba le lenaneo la ho etsa diteko le reretswe le ho hlophiswa ho tswela pele ka dikgwedi tse ngatanyana. Lenaneo la arotswe ka mekgahlelo ya ho bora sediba le ho etsa diteko tsa sediba mme haeba mokgahlelo o mong o etswa ka katleho sena se tla theha mokgwa wa ho fetela mokgahlelong o latelang. Ho bora setsheng ka seng ho tla nka kgwedi e le 1 ho isa dikgweding tse 3 ho phetha mosebetsi. Nako e kgutshwanyane e hlophiseditswe ho etsa diteko tsa sediba (matsatsi a ka bang 30).

7. HO FIHLELLA MOBU

Ditsha tseo ho sisintsweng ho bora ho tsona di sebakeng sa praevete mme di tla fihlellwa, ho thehwa, le ho tsamaiswa le ho hlabollwa ho latelang tumello e fumanweng pele ya mong wa mobu le ho ya ka tumellano e ngotsweng fatshe.

8. TSAMAISO YA TIKOLOHO

Tshebetso ya ho tsamaisa dikgahlamelo le tlhabollo ya ditsha tseo ho borwang ho tsona e tla etswa ho ya ka EMPr e entsweng bakeng sa projeke le ho fuwa tumello ke DMRE.

9. PHUPUTSO YA NAKO E TLANG KAPA TLHAHISO

wa ho bora sediba jwalo ka ha ho hlalositswe mona ka hodimo (mme o tla hlaloswa ka ho batsi ho Scoping le EIA Report). Phuputso efe kapa efe e eketsehileng kapa tlhahiso ya nako e tlang e tla hloka tumello e tswang lefapheng la DMRE. Ditumello tse jwalo di tla itshetleha ka ditlhokahalo tse tshwanelehang tsa molao tse kenyeletsang dipuisano tse eketsehileng le setjhaba le ditekolo tsa tikoloho.



Setshwantsho sa 2: Mohlala wa ditshebetso tsa ho bora

10. KAKARETSO YA TIKOLOHO YA MOTHEO 10.1 TIKOLOHO YA BOPHELO LE YA SEBAKA

Sebaka: Se wela sebakeng sa Karoo Basin.

<u>Tlaemete</u>: Sebaka sena se na le dipula tsa lehlabula, se futhumetse dinakong tsa lehlabula mme se a bata dinakong tsa mariha.

Mefuta ya mobu le bokgoni ba yona: Boholo ba sebaka sa projeke ke se se nang mehaho mme se na le mefuta e fapaneng ya mobu e nang le mealo e tshwanang ya mobu wa letsopa. Boholo ba sebaka sena ke nahathote mme ho na le monyetla o moholo wa kgoholeho ya mobu.

Sekwahelo sa mobu: Sebaka sa projeke se na le jwang, mme sebaka se seholo se na le masimo a lenngweng.

<u>Haedroloji</u>: Dibaka tse ngata tse nang mohlaka le tse mongobo, matamo le matangwana a mapolasi, a sebediswang bakeng sa diphoofolo tsa mapolasing le bakeng sa merero ya lehae, tsena di fumanwa sebakeng sa projeke. Letamo la Lekwa le feta Sebakeng sa 1 seo ho Tsepamisitsweng ho sona sa sebaka sa projeke.

Metsi a ka tlase ho mobu: Tshebediso le ho hulwa ha metsi a ka tlase ho mobu sebakeng sena a fapana ho tloha ho hulweng ha metsi a ka tlase ho mobu ka dinako tsa selemo ho tswa didibeng tse sa tebang ho isa mekoting e borilweng bakeng sa tshebediso ya lehae/ya masepala le ya temo.

<u>Dimela</u>: Sebaka sa projeke se sebakeng sa Grassland Biome, boholo ba sebaka sena bio Bohareng ba Freistata, Botjhabela ba Free State Clay le Frankfort Highveld Grassland bioregione.

<u>Diphoofolo le mefuta ya dintho tse phelang</u>: Diphoofolo tsa mefuta e mengata le dintho tse phelang di amahanngwa le dibaka tse fapaneng tsa dimela tsa tlhaho tse fumanwang sebakeng sa projeke. Mefuta e meng eo ho tshwenyehilweng ka yona e kenyeletsa *Amblysomus septentrionalis, Spizocorys fringillaris* and the *Homoroselaps dorsalis*, hara e meng.

Boleng ba Moya: Boleng ba moya sebakeng sa projeke ka kakaretso bo botle, mme ho na le dibaka tse ding tse nang le kgahlamelo ya mosi o tswang di-indastering tsa diteishene tse fehlang matla a motlakase, di-indasteri tsa dikhemikhale le tsa tlhahiso ya thepa, mesebetsi ya merafo, mesebetsi ya temo, tshebediso ya mebila, ho tjheswa ha hlaha, tshebediso ya mafura, ho mosi wa dikoloi.

10.2 TIKOLOHO YA SETSO

Mehlodi ya Botjhaba/Setso: Ho lebeletswe hore sebaka sa projeke se tla ba le thepa ya dinako tse bitswang tsa Iron Age, mehaho ya mapolasing hammoho le mabitla, mabitso a sa tshwauwang mme ka tekanyo e nyenyane dintho tsa botjhaba tse entsweng ke batho dinakong tse bitswang Stone Age di tla fumanwa hohle sebakeng sena kapa ditsheng tse bulehileng.

Mehlodi ya palaeontoloji: Sebaka sa projeke haholoholo se na le mealo ka tlase ho mobu ya dibopeho tsa Normandien tse phahamisa maikutlo haholo tsa di-fossil tsa Beaufort Group, Karoo super group. Dibopeho tsena di kwahetswe haholo ke igneous dolerite sebakeng sena. Di-fossil tse tlwaelehileng haholo dibopehong tsena ke tsa ditlhapi, di-amphibian, dihahabi, di-therapsids le di-vertebrate burrow, di-fossil tsa sefate sa Glassopteris le tsa dikokwana tse nang le mapheo.

10.3 TIKOLOHO YA SETJHABA LE YA MORUO

<u>Ya setjhaba le moruo</u>: Ka kakaretso, dibaka tsa masepala ho haola le sebaka sa projeke di na le batho ba bangata ba sa kgoneng ho bala le ho ngola le ba sa sebetseng. Boholo ba batho ba dula matlong a tlwaelehileng/mehahong e nang le metsi a hlwekileng le motlakase. Phihlello ya metsi a pompo kahare ho meharo e sa le bothata.

<u>Tshebediso ya mobu:</u> Boholo ba sebaka sena bo sebediswa bakeng sa kgwebo ya temo. Mesebetsi ya temo e kenyeletsa tlhahiso ya dijo, tlhahiso ya diphoofolo, tlhokomelo ya ditshingwana, mapolasi a lebese, tlhahiso ya nama ya diphoofolo tse hlaha, tlhahiso ya diphoofolo tse phelang metsing, tlhahiso ya ditholwana le ho eketsa boleng ba dintho tse hlahiswang temong.

11. DIPHUPUTSO TSE KGETHEHILENG TSE FANANG KA TLHAHISOLESEDING MABAPI LE TSHEBETSO YA TUMELLO YA TIKOLOHO

Ditekolo tse latelang tse kgethehileng di tla etswa jwalo ka karolo ya tshebetso ya EIA:

- Ditekolo tsa Mefuta e Fapaneng ya Dintho tse Phelang Metsing le Mobung;
- Tekolo ya thepa eo e leng lefa la setjhaba;
- Tekolo ya palaeontholoji; le
- Tekolo ya haedrojeoloji.

12. TSHEBETSO YA TUMELLO YA TIKOLOHO LE HO NKA KAROLO HA SETJHABA

12.1 TSHEBETSO YA TUMELLO YA TIKOLOHO (ENVIRONMENTAL AUTHORISATION)

Tshebetso ya EIA e fana ka tlhahisoleseding mabapi le projeke, mabapi le dikarolo tsa yona tsa tshebetso le tikoloho ya projeke e sisintsweng. E hlwaya le ho lekola, ka dipuisano le batho ba nang le thahasello le ba anngwang ke projeke (I&APs), mabapi le dikgahlamelo tse mpe le tse ntle tsa bophelo le sebaka, setso kapa setjhaba le moruos.

Tshebetso ya tekolo ya tikoloho e boela e fana ka tlaleho mabapi le mehato ya botsamaisi e hlokahalang ho sebetsana le dikgahlamelo e le hore be be boemong bo amohelehang le ho kenyeletsa ditlhokahalo bakeng sa mananeo a behang leihlo (moo ho hlokahalang). Mehato ya tshebetso le lenaneo la nako le lebeletsweng di fanwe

mona ka tlase.



Kopano pele ho kopo e tla etswa le ba boholong ba tshwanelehang (DMRE/PRASA).

Ho hlwaya batho ba nang le thahasello le ba anngwang ke projeke (I&APs le ntshetsopele ya dathabeisi ya projeke.

- Ho tsebisa batho ba nang le thahasello le ba anngwang ke (I&APs) projeke mabapi le projeke (ka dipapatso tsa ditsebiso setsheng, dikoranta, SMS/WhatsApp, le ka tokomane ena).
- Ho kenyeletsa batho ba nang le thahasello le ba anngwang ke projeke ka dikopano le dipuisano.
- Ho hlophisa Scoping Report le kakaretso.
- Ho romela kopo ya EA ho DMRE.
- Ho abela batho ba nang le thahasello le ba anngwang ke projeke (I&APs) Scoping Report bakeng sa ho e hlahloba (nako ya tlhahlobo ya matsatsi a 30).
- Ho romela Scoping Report (ho kenyeletswa le maikutlo a I&AP) ho DMRE bakeng sa tlhahlobo le ho fana ka maikutlo (nako ya tlhahlobo ya matsatsi a 43).
 - diphuputso etsa tse kgethehileng.
 - Ho hlophisa EIA le EMPr le kakaretso.
 - Ho abela batho ba nang thahasello le ba angwang ke projeke (I&AP) le ba boholo ba laolang ElAP le EMPr bakeng sa ho di hlahloba (nako ya tlhahlobo ya matsatsi a 30)
 - Ho romela EIA le EMPr (ho kenyeletswa le maikutlo a batho ba nang le thahasello le ba angwang ke projeke (I&AP) ho DMRE bakeng sa ho etsa qeto (nako ya ho etsa qeto ya (nako ya ho matsatsi a 107).
 - Ho isa qeto ya DMRE ho batho ba nang le thahasello le ba angwang ke projeke (I&AP) hang ha e fumanwa.
 - Tshebetso ya boipiletso (haeba e hlokahala) ho ya ka Melao ya Boipiletso

12.2 TSHEBETSO YA HO NKA KAROLO HA SETJHABA

Sepheo sa tshebetso ya ho nka karolo ha setjha ke ho tsebisa batho ba nang le thahasello le ba angwang ke projeke (I&AP) ka projeke e sisintsweng le ho fa neha tlhahisoleseding e tshwanetseng le ho ba neha monyetla wa ho botsa dipotso mabapi le mathata kapa dingongoreho mabapi le projeke e sisintsweng. Tshebetso ya ho nka karolo ha setjhaba e tla etswa ho ipapisitswe le ditlhokahalo tsa Kgaolo ya 6 ya EIA Regulations 2014, jwalo ka ha e ntjhafaditswe. Batho ba nang le thahasello le ba angwang ké projeke (I&AP) ba amehang tshebetsong ya EIA ba thathamisitswe mona ka tlase:

I BATHO BA NANG LE THAHASELLO LE BA ANGWANG KE PROJEKE (I&APs) BA AMEHANG TSHEBETSONG YA TUMELLO YA TIKOLOHO

BENG BA MOBU, BASEBEDISI BA MOBU LE BATHO BA BANG BA NANG LE THAHASELLO LE BA ANGWANG KE PROJEKE (I&APs)

- Beng ba mobu ba leng dibakeng tse potolohileng, basebedisi ba mobu le baahi ba metse.
- Mekgatlo eo e seng ya mmuso le makgotla.
- Merafo e potolohileng dibakeng tsena le diindasteri.
- Di-parastatale.

BA BOHOLONG BA TSHWANELEHANG

- Department of Mineral Resources and Energy (DMRE)
- Petroleum Agency South Africa (PASA)

BA BOHOLONG BA FANANG KA MAIKUTLO

- Free State Department of Water and Sanitation
- Free State Department of Economic Development, **Tourism and Environmental Affairs**
- Free State Department of Agriculture and Rural Development
- Provincial South Africa Heritage Resource Agency (SAHRA)

BA BOHOLONG BA LEHAE

- Moghaka Local Municipality
- Nketoana Local Municipality
- Fezile Dabi District Municipality
- Thabo Mofutsanyane District Municipality

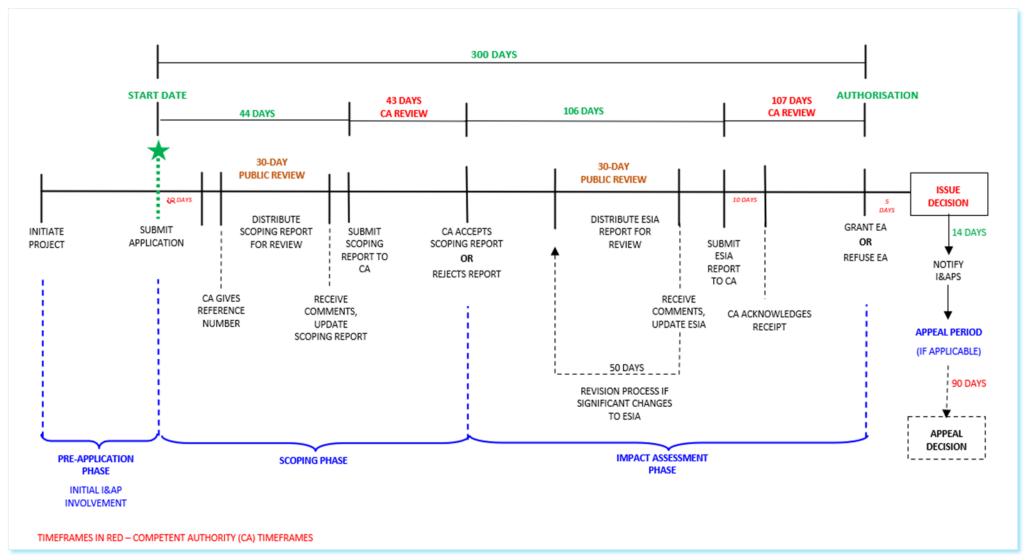
Ka kopo re tsebise haeba ho na le batho bafe kapa bafe ba eketsehileng ba tlamehang ho kenyeletswa.

13. MORALO WA MOLAO WA TIKOLO DITLHOKAHALO TSA TSHEBETSO YA TIKOLOHO

Setshwantsho se ka tlase mona se fana ka kakaretso ya Tshebetso ya Scoping le EIA

MOKGAHLELO WA II: Mokgahlelo wa phuputso (scoping) [Mphalane – Tshitwe 2022]

MOKGAHLELO WA III: Mokgahlelo wa EIA le EMPr 2023]



Setshwantsho sa 3: Tshebetso ya Scoping le EIA

SLR Consulting (South Africa) Proprietary Limited

RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD TOKOMANE YA TLHAHISOLESEDING YA SETSHEHETSO

PHUPUTSO E SISINTSWENG YA HO BORA BAKENG SA PETROLEAMO DIBAKENG TSE PEDI TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 294, PROVINSING YA FREISTATA

PHATO 2022

DINTLHA TSA BATHO BA NANG ANGWANG KE SENA	g le thahasello ba	LETSATSI		
LEBITSO				
MOKGATLO/KHAMPHANI				
ATERESE YA POSO				
		KHOUTU YA POSO		
NOMORO YA MOHALA				
ATERESE YA IMEILE				
KE KOPA HORE LE NNGODISE YA ANGWANG KE PROJEKE EN EKETSEHILENG LE DITSEBISO N	NA (I&AP) E LE HORE NKA FUI	Mana Tlhahisoleseding e	E	TJHE
			IMEI	LE
O KA LAKATSA HO FUMANA D	ITSEBISO TSA HAO JWANG?		POS	0
			SM	S

KA KOPO NGOLA MAIKUTLO A HAO LE DIPOTSO MONA (ka kopo sebedisa maqephe a ka thoko n	iaeba o lakatsa ho etsa
jwalo)	

KA KOPO KENYELETSA BASEBETSI-MMOHO BA LATELANG/METSWALLE/BAAHISANI JWALO KA BATHO BA NANG LE THAHASELLO LE BA ANGWANG KE PROJEKE ENA:

Ka kopo kgutlisetsa diforomo tsena ho:

Motho w boikopanyo wa SLR: Theo Wicks/ Gugu Dhlamini

Imeile: RhinoER294@slrconsulting.com

Mohala: 011 467 0945, Fekse: 011 467 0975 le/kapa Poso: PO Box 1596, Cramerview, 2060

WhatsApp: 066 313 7574

Ka ho fana ka tlhahisoleseding ya hao ya botho hore o ngodiswe jwalo ka motho ya nang le thahasello le ya angwang (I&AP) ke projeke ena o dumela hore SLR e sebetse ka tlhahisoleseding ya hao ho ya ka Molao wa Tshireletso ya Tlhahisoleseding ya Botho (Protection of Personal Information) Molao wa 4 wa 2013. Sena se kenyeletsa; ho boloka le ho sebedisa Tlhahisoleseding ya hao ya Botho jwalo ka karolo ya dintlha tsa boikopanyo ho dathabeisi bakeng sa sena le/kapa ditshebetso tse ding tsa ESIA, ho senolela ba bang ba baholo ba dumeletsweng dathabeisi ho kenyeletswa le mokopi bakeng sa merero ya molao, le ho kenyeletsa mangolo afe kapa afe Ditlalehong tsa ESIA. O ka kopa hore Tlhahisoleseding ya hao ya Botho e hlakolwe ho dathabeisi ya Projeke kapa hore maikutlo ao o a hlahisitsweng a se kenyeletswe Ditlalehong tsa ESIA Reports ka nako efe kapa efe ka hore o ikopanye le SLR.



APPENDIX 3.6: ADVERTISEMENTS

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION

PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS IN ER 294, **FREE STATE PROVINCE**

Notice is hereby given of Rhino Oil and Gas Exploration South Africa's (ROGESA) intention to make an application for:

- An amendment to the existing Exploration Right (ER) and Environmental Management Programme (EMPr) in terms of Section 102 of the Minerals and Petroleum Resources Development Act, (No 28 of 2002) (MPRDA);
- An Environmental Authorisation (EA) in terms of Chapter 5 of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA).

ROGESA hold an ER and EA to explore for petroleum resources in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The granted EA and ER permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial gradiometry gravity survey.

ROGESA undertook the studies and survey, and now proposes to advance exploration by drilling up to 40 exploration wells in two Target Areas within the ER. The first Target Area is located south of Petrus Steyn and the second Target Area lies south of the R34 between Kroonstad and Edenville. The specific well locations within the Target Areas are still to be confirmed based on landowner engagement and environmental investigations (to be completed during this application process). No hydraulic fracturing or fracking is proposed.

Notice is hereby given of the following application:

Legislation	Authorisation required and process to be followed	Competent Authority
National	Environmental Authorisation for Activity 21D in	Department of Mineral
Environmental	Environmental Impact Assessment (EIA) Regulation	Resources and Energy (DMRE),
Management Act	Listing Notice 1 of 2014 (GNR 983) and Activity 18 in	through the Petroleum Agency of
(No. 107 of 1998).	EIA Regulation Listing Notice 2 of 2014 (GNR 984).	South African (PASA)

SLR Consulting (South Africa) (Ptv) Ltd has been appointed as the independent environmental assessment practitioner responsible for undertaking the required environmental assessment and conducting the public participation process. The application will be subject to a Scoping and EIA process as stipulated in the EIA Regulations (GNR 982). Further project details can be found on the SLR Website and will be provided in the Scoping and EIA reports.

The following public information meetings have been arranged where information on the proposed project will be presented for discussion and raising of any initial issues and concerns. All stakeholders are invited to attend any of the following meetings as may be convenient. Please RSVP to SLR using the details included below.:

Date	Venue	Time
Wednesday 7 September	Steynsrus Boerevereniging Hall	15h00
2022	Van Riebeeck Street, Steynsrus	
Thursday 8 September	Edenville Boerevereniging Hall	09h00
2022	Mark Street, Edenville	

All stakeholders are invited to register as Interested & Affected Parties (I&AP). You must register as an I&AP if you would like more information or wish to participate in the environmental assessment process for the project. A draft Scoping Report will be made available to registered I&APs for review. To do so, or to raise any issues or concerns regarding the project, please contact:

Theo Wicks (Project Manager) and/or Gugu Dlamini (Public Participation) by

Email: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Fax: 011 467 0975 and/ or Post: PO Box 1596, Cramerview, 2060 SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294 Data Free Website: https://slrpublicdocs.datafree.co/en/public-documents/ Rhino-well-ER294

By providing your personal information to be registered as an I&AP for this Project you consent to SLR managing your information in accordance with the Protection of Personal Information Act, 2013 (No. 4 of 2013). SLR will not process your Personal Information, other than as permitted or required by EIA processes, or as required by law or public policy. For further details, contact SLR as detailed above.

KENNISGEWING VAN AANSOEK OM OMGEWINGSMAGTIGING

BEOOGDE BOORWERK VIR EKSPLORASIEBOORGATE IN DRIE TEIKENGEBIEDE **IN ER 294, VRYSTAATPROVINSIE**

Kennisgewing geskied hiermee van Rhino Oil and Gas Exploration South Africa (ROGESA) se voorneme om

- 'n wysiging van die bestande Eksplorasiereg (ER) en Omgewingsbestuursprogram (OBPr) ingevolge Artikel 102 van die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet 28 van 2002) (MPRDA); en
- 'n Omgewingsmagtiging (OM) ingevolge Hoofstuk 5 van die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998) (NEMA).

ROGESA beskik oor 'n ER en OM om eksplorasie vir petroleumhulpbronne in die Vrystaatprovinsie van Suid-Afrika te doen (verwysing 12/3/294 (ER 294)). Die OM en ER wat toegestaan is, het ROGESA toestemming gegee om 'n eksplorasiewerkprogram te onderneem wat kantoorgebonde studies en 'n gradiometrie-swaartekragopname vanuit

ROGESA het die studies en opname onderneem, en beoog nou om hoogstens 40 eksplorasieboorgate in drie teikengebiede in die ER te boor. Die eerste teikengebied is suid van Petrus Steyn en die tweede teikengebied is suid van die R34 tussen Kroonstad en Edenville geleë. ROGESA het die spesifieke liggings vir die boorgate in die teikengebiede voorgestel en moet nog op grond van skakeling met grondeienaars en omgewingsondersoeke (wat tydens hierdie aansoekproses afgehandel moet word) bevestig word. Geen hidrouliese breking, oftewel hidrobreking,

Kennis geskied hiermee van die volgende aansoek:

Wetgewing	Vereiste magtiging en proses wat gevolg moet word	Bevoegde owerheid
Nasionale Wet op	Omgewingsmagtiging vir Aktiwiteit 21(D) in die	Departement van Minerale
Omgewingsbestuur	Regulasies op Omgewingsimpakevaluerings (OIE)	Hulpbronne en Energie
(Wet 107 van 1998)	Lyskennisgewing 1 van 2014 (Staatskennisgewing	(DMHE), deur die
	R983) en Aktiwiteit 18(I) in OIE-regulasie	Petroleumagentskap van
	Lyskennisgewing 2 van 2014 (Staatskennisgewing	Suid-Afrika (PASA)
	R984)	

SLR Consulting (South Africa) (Edms.) Bpk. is aangestel as die onafhanklike omgewingsevalueringspraktisyn wat verantwoordelik is om die vereiste omgewingsevaluering en die openbare deelnameproses te onderneem. Die aansoek sal onderhewig wees aan 'n Bestekopname- en OIE-proses soos uiteengesit in die OIE-regulasies (Staatskennisgewing R982). Meer projekbesonderhede, wat op SLR se webwerf gevind kan word, sal in die Bestekopname- en OIE-verslag voorsien word.

Die volgende openbare inligtingsvergaderings is gereël waar inligting oor die beoogde projek voorgehou sal word vir bespreking en om enige aanvanklike kwessies en knelpunte te opper. Alle belanghebbers word genooi om enige van die volgende vergaderings by te woon waar dit gerieflik is. RSVP asseblief vir SLR by die besonderhede wat hieronder ingesluit is

Datum	Plek	Tyd
Woensdag, 7 September 2022	Steynsrus Boerevereniging Hall	15h00
	Van Riebeeck Straat, Steynsrus	
Donderdag, 8 September 2022	Edenville Boerevereniging Hall	09h00
	Mark Straat, Edenville	

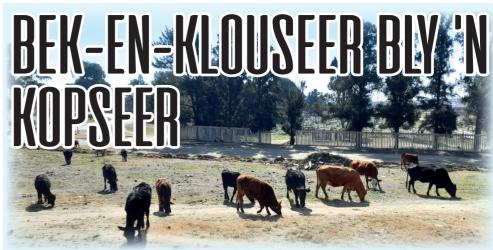
Alle belanghebbers word genooi om as Belangstellende & Geaffekteerde Partye (B&GP's) te registreer. U moet as 'n B&GP registreer as u meer inligting wil hê of as u aan die projek se omgewingsevalueringsproses wil deelneem. 'n Konsep Bestekopnameverslag sal aan geregistreerde B&GP's beskikbaar gemaak word vir insae. Om dit te doen, of om enige omgewingskwessies of knelpunte met betrekking tot die projek te opper, moet u asseblief in verbinding

Theo Wicks (Projekbestuurder) en/of Gugu Dlamini (Openbare Deelname) by

Datavry-webwerf: https://slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294

E-pos: RhinoER294@slrconsulting.com Tel: 011 467 0945, Faks: 011 467 0975 en/of Pos: Posbus 1596 1596, Cramerview, 2060 $SLR \ se \ webwerf: \underline{https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294}$

Deur u persoonlike inligting te voorsien om as 'n B&GP vir hierdie projek geregistreer te word, stem u in daartoe dat SLR u inligting ingevolge die Wet op die Beskerming van Persoonlike Inligting (Wet 4 van 2013) beheer. SLR sal nie u persoonlike inligting verwerk nie, behalwe soos toegelaat of vereis word deur OIE-prosesse, of soos vereis word deur wet of openbare beleid. Kontak SLR soos hierbo aangedui is vir meer besonderhede.



et Bek-en-Klouseer op elke boer se lippe, en nadat meer as 60 00 beeste in die Vrystaat positief getoets het vir die siekte, is dit geen wonder dat die Vrystaatse Premier Sisi Ntombela en Thoko Didiza, minister van landbou, grondhervorming en landelike ontwikkeling, 'n noodvergadering gehou het nie. Die epidemie wat Suid-Afrika op die oomblik in die gesig staar sal 'n astronomiese impak hê, nie net op die boere nie, maar wel ook op Jan Alleman. Veilingshuise, voerkrale en vervoerkontrakteurs wie afhanklik is van verkoop en vervoer van beeste, trek ook aan die kortste end van die tou. Jan-Hendrik Claassen, bemarker van BKB Lewendehawe in Frankfort, is van mening dat hulle glad nie beeste kan skuif na 'n veiling toe nie as gevolg van die 21 dae verbod en dat daar geen uitdie-hand transaksies plaasvind nie wat almal affekteer. Hy voeg ook by dat daar soveel aspekte van die samelewing is wat negatief geaffekteer word deur die verbod en dat die mens nie die skade eers behoorlik kan bereken nie. Veeboere is baie onseker oor die situasie en die verbod kon nie op 'n slegter tyd kom nie. Septembermaand word gewoonlik beskou as die maand wanneer produksielenings

betaal word, asook huur van grond. Talle boere verkoop dan hul beeste om die lenings en huurgeld te betaal. 'n Nuwe regulasie is wel op die 18de Augustus deur minister Thoko Didiza uitgereik wat verduidelik dat vee slegs geskuif kan word mits die boer 'n permit het en ook net as beeste na 'n abattoir geskuif word. Steeds word dié as problematies beskou. Daar word bespiegel dat sou die verbod langer duur, dit 'n reuse inpak op Jan Alleman se sak gaan hê as gevolg van 'n styging in vleispryse. Jan-Hendrik vertel verder dat al is dit 'n slegte tyd wat almal deurgaan, mens al die nodige voorsorgmaatreëls moet tref om vinniger terug te kan keer na normaal. 'n Silwer randjie om die donker wolk is dat die verbod op die uitvoer van wol na China gelig is.

Ten spyte van die maatreël dat beeste vir 21 dae in 'n kraal moet wees, het Heilbron steeds rondloperbeeste wat die dorp gereeld besoek, soms sonder 'n wagter. Dié is 'n probleem in sy eie reg. Die kwessie oor of die beeste die siekte het en ingeënt is, is 'n vraag waarop daar geen antwoord is nie. maar buiten dit verwoes hulle tuine en is baie lastig. Daar word 'n beroep op die gemeenskap gedoen om 'n foto te neem, daarna 'n saak by die polisie te maak en dan die Skutmeester in Virginia te kontak.

TSEBISO MABAPI LE KOPO BAKENG SA TUMELLO E AMANANG TIKOLOHO

PHUPUTSO E SISINTSWENG YA HO BORA SEDIBA DIBAKENG TSE BOBEDI TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 294, PROVINSING YA FREITATA

Mona ho etswa maikemisetso ya kopo ya Rhino Oil and Gas Exploration South Africa's (ROGESA) bakeng sa:

- Phetoho ho Exploration Right (ER) and Environmental Management Programme (EMPr) e ntseng e le teng ho ya ka Karolo ya 102 ya Minerals and Petroleum Resources Development Act, 2002 (Nom ya 28 ya 2002) (MPRDA);
- Environmental Authorisation (EA) ho ya ka Kgaolo ya Chapter 5 ya National Environmental Management Act, 1998 (Nom. ya

ROGESA e tshwere ER le EA bakeng sa ho fuputsa mehlodi ya petroleamo Provinsing ya Freistata Afrika Borwa (referense ke 12/3/294 (ER 294)). EA le ER tsa tumello bakeng sa ROGESA ho qala lenaneo la phuputso le kenyeletsang diphuputso tsa desktop le phuputso ya aerial gradiometry gravity.

ROGESA e ile ya qadisa diphuputso tsena, mme hona jwale e sisintse ho bora didiba tse sa feteng tse 40 Dibakeng tse bobedi tseo ho Tsepamisitsweng ho tsona hara dipehelo tsa ER. Sebaka sa pele seo ho Tsepamisitsweng ho sona se ka borwa ba Petrus Steyn mme Sebaka sa bobedi seo ho Tsepamisitsweng ho sona se borwa ba R34 pakeng tsa Kroonstad le Edenville. Dibakeng tseo ka ho qollehileng sediba se tla ba ho tsona Dibakeng tseo ho Tsepamisitsweng ho tsona tse sisisntsweng ke ROGESA mme di tla netefatswa ho ya ka ho seabo sa mong a mobu le diphuputso tsa tikoloho (nakong ya kopo ya tshebetso ena). Ho hang ha ho a sisinngwa ho bora ka metjhini ya haedroliki kapa ho pompela mekedikedi ho ntsha oli kapa kgase

Mona ho fanwa ka tsebiso bakeng sa kopo e latelang

Melao	Tumello e hiokahalang le tshebetso e lokelang ho latelwa	Ba Boholong ba Tshwanelehang
National Environmental Management Act	Environmental Authorisation (Tumello ya Tikoloho)	Department of Mineral
(Nom. ya 107 wa 1998).	bakeng sa Mosebetsi wa 21D ho ya ka Environmental	Resources and Energy
	Impact Assessment (EIA) Regulation Listing Notice 1 ya	(DMRE), ka ho sebedisa
	2014 (GNR 983) le Mosebetsi wa 18 I EIA Regulation	Petroleum Agency of
	Listing Notice 2 ya 2014 (GNR 984).	South African (PASA)

SLR Consulting (South Africa) (Pty) Ltd e thontswe jwalo ka setsebi se ikemetseng phuputsong ya tikoloho mme e ikarabella bakeng sa ho qala phuputso e hlokahalang ya tikoloho le ho tsamaisa tshebetso ya ho nka karolo ha setjhaba. Kopo e tla ba latela dipehelo tsa tshebetso ya phuputso le EIA jwalo ka ha ho bontshitswe Melaong ya EIA (GNR 982). Dintiha tse eketsehileng le tse batsi mabapi le projeke di ka fumana ho Websaete ya SLR le ho fanwa ditlalehong tsa Scoping le EÍA.

Tlhahisoleseding e latelang ya dikopano le setjhaba e hlophisitswe moo tlhahisoleseding mabapi le projeke e sisintsweng e tla fanwa bakeng sa dipuisano le ho hlahisa dipotso mabapi le mathata le dingongoreho. Batho bohle ba nang le seabo ba mengwa hore ba be

Letsatsi	Sebaka	Nako
Laboraro la la 7 Lwetse 2022	Steynsrus Boerevereniging Hall	15h00
	Strateng sa Van Riebeeck, Steynsrus	
Labone la la 8 Lwetse 2022	Edenville Boerevereniging Hall	09h00
	Strateng sa Mark, Edenville	

Batho bohle ba nang le seabo ba mengwa hore ba ngodise jwalo ka Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP). O tlameha ho ngodisa jwalo ka I&AP haeba o lakatsa ho fumana tlhahisoleseding e ekeetsehileng kapa haeba o lakatsa ho nka karolo projekeng va tekolo va tikoloho. Moralo wa Tlaleho va Scoping o tla fumaneha bakeng sa Batho ba Nang le Thahasello le ba Angwang ke Sena ((&AP).bakeng sa ho o hlahloba. Bakeng sa ho etsa sena, kapa ho botsa dipotso dife kapa dife kapa dingongoreho mabapi le projeke, ka kopo ikopanye le:

Theo Wicks (Motsamaisi wa Projeke) le/kapa Gugu Dhlamini (Ho Nka Karolo ha Setjhaba) ka ho i Imeile ho: RhinoER294@slrconsulting.com

Mohala: 011 467 0945, Fekse: 011 467 0975 le/kapa romela ka Poso ho: PO Box 1596, Cramerview, 2060 SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294 Websaete ya Datha ya Mahala: https://slrpublicdocs.datafree.co/en/public-documents/ Rhino-well-ER294

Ka ho fana ka tlhahisoleseding ya hao ya botho hore o ngodiswe jwalo ka motho ya nang le thahasello le ya angwang ke projeke (I&AP) bakeng sa Projeke ena o dumela hore SLR e sebedise tlhahisoleseding ya hao hoy a ka Molao wa Tshireletso ya Tlhahisoleseding ya Botho (Protection of Personal Information Act) wa 2013 (Non.ya 4 wa 2013). SLR e ke ke ya sebedisa Tlhahisoleseding ya hao ya Botho, ntle le kamoo ho dumeletsweng kateng kapa iwalo ka ha ho hlokwa ke ditshebetso tsa EIA, kapa iwalo ka ha ho hlokwa ke molao kapa pholisi ya setjhaba. Bakeng sa dintlha tse eketsehileng, ikopanye le SLR jwalo ka ha ho bontshitswe mona ka hodimo.



24 Augustus 2022 VrystaatKroon

NGWATHE MUNISIPALE
GRONDGEBRUIKBEPLANNINGSREGULASIE
(PROVINSIALE KENNISGEWING NR.
50 VAN 17 AUGUSTUS 2018):
KOPPIESDISTRIK: PLOT 1103 & DIE
RESTANT VAN PLOT 942

NGWATHE MUNICIPAL LAND USE PLANNING BY-LAW (PROVINCIAL NOTICE NO. 50 OF 17 AUGUST 2018): KOPPIES DISTRICT: PLOT 1103 & THE REMAINDER OF PLOT 942

Hiermee word bekend gemaak dat die volgende aansoek, in terme van Artikel 16(2) van bostaande Regulasie, deur die Munisipale Bestuurder, Ngwathe Plaaslike Munisipaliteit, ontvang is vanaf die behoorlik gemagtigde agent van die applikant, LMV Stadsbeplanners, Posbus 61 of ABSA Gebou, Cross-straat 109, Kroonstad, 9500 by telefoonnommer 056 215 2260 en lê ter insae by die Ngwathe Munisipaliteit, Liebenbergstraat, Rekordsen Administrasiebestuurder:

Deur die "Indunduma Resort" BK: aansoek in terme van bostaande Regulasie vir die opheffing van 'n beperkende voorwaarde met betrekking tot die notariële verbinding van plot 1103 en die restant van plot 942 (geleë te Kopjes Nedersetting).

Enige persoon of instansie wat 'n beswaar, kommentaar of voorlegging wil lewer tot die aansoek, word hiermee uitgenooi om hul beswaar, tesame met die redes daarvoor (binne 30 dae van hierdie kennisgewing) skriftelik aan die Ngwathe Munisipale Bestuurder te lewer, by Posbus 359, Parys, 9585, Vir Aandag: Mnr. Nthiba Monyeke op voorwaarde dat die beswaar volledige besonderhede van die beswaarmaker insluit (posadres, straatadres, telefoonnommer en e-posadres).

Diegene wat nie kan skryf nie, kan gedurende kantoorure die kantoor van die Rekords- en Administrasiebestuurder besoek waar die administratiewe beampte van die kantoor diegene sal bystaan met die transkribering van hul beswaar, kommentaar of voorlegging. Diegene wat 'n beswaar, kommentaar of voorlegging gemaak het, sal skriftelik in kennis gestel word indien 'n verhoor ten opsigte van die aansoek gehou sal word.

It is hereby notified that the following application, in terms of Section 16(2) of the above-mentioned By-law has been received by the Municipal Manager, Ngwathe Local Municipality, from the duly authorised agent of the applicant, LMV Town Planners, P.O. Box 61 or ABSA building, 109 Cross street, Kroonstad, 9500 at telephone number 056 215 2260 and will lie for inspection at the Ngwathe Municipality, Liebenberg Street, Records and Administration Manager:

By the "Indunduma Resort" CC: application in terms of the above-mentioned By-law for the removal of a restrictive condition pertaining to the notarial tying of plot 1103 and the remainder of plot 942 (located at Kopjes Settlement).

Any person or institution who wishes to make an objection, comment or presentation to the application, is hereby invited to lodge and substantiate their objection (within 30 days of this notification) in writing to the Ngwathe Municipal Manager, P.O. Box 359, Parys, 9585, For Attention: Mr Nthiba Monyeke - provided that the objection stipulates the full particulars of the objector (postal address, street address, telephone number and email address).

Any person who is unable to write may, during office hours, visit the office of the Records and Administration Manager where the administrative officer of this office will assist those by transcribing their objections, comments or presentation. Any person who submitted an objection, comment or presentation, will be notified in writing whether a hearing will be held in respect of the application.

MOQHAKA MUNICIPAL LAND USE PLANNING BY-LAW (PROVINCIAL NOTICE NO. 134 OF 27 NOVEMBER 2015)

It is hereby notified that the following applications, in terms of Section 16(2) of the above-mentioned By-law have been received by the Municipal Manager, Moqhaka Local Municipality, from the duly authorised agent of the applicant, LMV Town Planners, P.O. Box 61 or ABSA building, 109 Cross street, Kroonstad, 9500 at telephone number 056 215 2260 and will lie for inspection at the Moqhaka Municipality, Hill Street, Records and Administration Manager.

Any person or institution who wishes to make an objection, comment or presentation to the applications, is hereby invited to lodge and substantiate their objection (within 30 days of this notification) in writing to the Moqhaka Municipal Manager, P.O. Box 302, Kroonstad, 9500, For Attention: Mr André Kotze - provided that the objection stipulates the full particulars of the objector (postal address, street address, telephone number and email address).

Any person who is unable to write may, during office hours, visit the office of the Records and Administration Manager where the administrative officer of this office will assist those by transcribing their objections, comments or presentation. Any person who submitted an objection, comment or presentation, will be notified in writing whether a hearing will be held in respect of the application.

1) KROONSTAD: ERF 5379

By "Propt Solutions" (Pty) Ltd: applications in terms of the above-mentioned By-law for the i) amendment of "Schedule 7" of the Moqhaka Land Use Scheme by adding a "Special Use 2" zoning and to (ii) rezone the property (located at 27 7th Avenue, Kroonstad, Industria) from "general industry" to "Special Use 2" for the purpose of continuing current general industrial activities, but adding the storage and retailing of fuel on the premises.

2) KROONSTAD: ERF 5215

By Mr B J Parsons: application in terms of the above-mentioned By-law for the amendment of the Moqhaka Land Use Scheme pertaining to the rezoning of erf 5215 (located at 23 Meyer Street, Kroonstad) from "single residential" to "medium residential" in regulating an existing guesthouse.

DISCLAIMER

VrystaatKroon and Media24 have not verified whether any of the services or products advertised will have the desired effect or outcome. Readers will note that some of the promised results in the advertisements are extraordinary and may be impossible to achieve. Beware some of the procedures and claims advertised may be dangerous if not executed by a qualified medical practitioner. Readers are warned that they should carefully consider and verify the advertiser's credentials. VrystaatKroon and Media24 do not accept any liability whatsoever in respect of any of the services or goods advertised.



X1XD087D-VR240822

KENNISGEWING VAN AANSOEK OM OMGEWINGSMAGTIGING
BEOOGDE BOORWERK VIR EKSPLORASIEBOORGATE IN DRIE TEIKENGEBIEDE
IN ER 294, VRYSTAATPROVINSIE

Kennisgewing geskied hiermee van Rhino Oil and Gas Exploration South Africa (ROGESA) se voorneme om aansoek te doen om:

- 'n wysiging van die bestande Eksplorasiereg (ER) en Omgewingsbestuursprogram (OBPr) ingevolge Artikel 102 van die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet 28 van 2002) (MPRDA); en
- 'n Omgewingsmagtiging (OM) ingevolge Hoofstuk 5 van die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998) (NEMA).

ROGESA beskik oor 'n ER en OM om eksplorasie vir petroleumhulpbronne in die Vrystaatprovinsie van Suid-Afrika te doen (verwysing 12/3/294 (ER 294)). Die OM en ER wat toegestaan is, het ROGESA toestemming gegee om 'n eksplorasiewerkprogram te onderneem wat kantoorgebonde studies en 'n gradiometrie-swaartekragopname vanuit die lug behels.

ROGESA het die studies en opname onderneem, en beoog nou om hoogstens 40 eksplorasieboorgate in drie teikengebiede in die ER te boor. Die eerste teikengebied is suid van Petrus Steyn en die tweede teikengebied is suid van die R34 tussen Kroonstad en Edenville geleë. ROGESA het die spesifieke liggings vir die boorgate in die teikengebiede voorgestel en moet nog op grond van skakeling met grondeienaars en omgewingsondersoeke (wat tydens hierdie aansoekproses afgehandel moet word) bevestig word. Geen hidrouliese breking, oftewel hidrobreking, word beoog nie.

Kennis geskied hiermee van die volgende aansoek:

Wetgewing	Vereiste magtiging en proses wat gevolg moet word	Bevoegde owerheid
Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998)	Omgewingsmagtiging vir Aktiwiteit 21(D) in die Regulasies op Omgewingsimpakevaluerings (OIE) Lyskennisgewing 1 van 2014 (Staatskennisgewing R983) en Aktiwiteit 18(I) in OIE-regulasie Lyskennisgewing 2 van 2014 (Staatskennisgewing R984)	Departement van Minerale Hulpbronne en Energie (DMHE), deur die Petroleumagentskap van Suid-Afrika (PASA)

SLR Consulting (South Africa) (Edms.) Bpk. is aangestel as die onafhanklike omgewingsevalueringspraktisyn wat verantwoordelik is om die vereiste omgewingsevaluering en die openbare deelnameproses te onderneem. Die aansoek sal onderhewig wees aan 'n Bestekopname- en OIE-proses soos uiteengesit in die OIE-regulasies (Staatskennisgewing R982). Meer projekbesonderhede, wat op SLR se webwerf gevind kan word, sal in die Bestekopname- en OIE-verslag voorsien word.

Die volgende openbare inligtingsvergaderings is gereël waar inligting oor die beoogde projek voorgehou sal word vir bespreking en om enige aanvanklike kwessies en knelpunte te opper. Alle belanghebbers word genooi om enige van die volgende vergaderings by te woon waar dit gerieflik is. RSVP asseblief vir SLR by die besonderhede wat hieronder ingesluit is.

Datum	Plek	Tyd
Woensdag, 7 September 2022	Steynsrus Boerevereniging Hall Van Riebeeck Straat, Steynsrus	15h00
Donderdag, 8 September 2022	Edenville Boerevereniging Hall Mark Straat, Edenville	09h00

Alle belanghebbers word genooi om as Belangstellende & Geaffekteerde Partye (B&GP's) te registreer. U moet as 'n B&GP registreer as u meer inligting wil hê of as u aan die projek se omgewingsevalueringsproses wil deelneem. 'n Konsep Bestekopnameverslag sal aan geregistreerde B&GP's beskikbaar gemaak word vir insae. Om dit te doen, of om enige omgewingskwessies of knelpunte met betrekking tot die projek te opper, moet u asseblief in verbinding tree met:

Theo Wicks (Projekbestuurder) en/of Gugu Dlamini (Openbare Deelname) by

E-pos: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Faks: 011 467 0975 en/of Pos: Posbus 1596 1596, Cramerview, 2060 SLR se webwerf: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294 Datavry-webwerf: https://slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294



Deur u persoonlike inligting te voorsien om as 'n B&GP vir hierdie projek geregistreer te word, stem u in daartoe dat SLR u inligting ingevolge die Wet op die Beskerming van Persoonlike Inligting (Wet 4 van 2013) beheer. SLR sal nie u persoonlike inligting verwerk nie, behalwe soos toegelaat of vereis word deur OIE-prosesse, of soos vereis word deur wet of openbare beleid. Kontak SLR soos hierbo aangedui is vir meer besonderbede

TSEBISO MABAPI LE KOPO BAKENG SA TUMELLO E AMANANG TIKOLOHO

PHUPUTSO E SISINTSWENG YA HO BORA SEDIBA DIBAKENG TSE BOBEDI TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 294, PROVINSING YA FREITATA

Mona ho etswa maikemisetso ya kopo ya Rhino Oil and Gas Exploration South Africa's (ROGESA) bakeng sa

- Phetoho ho Exploration Right (ER) and Environmental Management Programme (EMPr) e ntseng e le teng ho ya ka Karolo ya 102 ya Minerals and Petroleum Resources Development Act, 2002 (Nom ya 28 ya 2002) (MPRDA);
- Environmental Authorisation (EA) ho ya ka Kgaolo ya Chapter 5 ya National Environmental Management Act, 1998 (Nom. ya 107 wa 1998) (NEMA).

ROGESA e tshwere ER le EA bakeng sa ho fuputsa mehlodi ya petroleamo Provinsing ya Freistata Afrika Borwa (referense ke 12/3/294 (ER 294)). EA le ER tsa tumello bakeng sa ROGESA ho qala lenaneo la phuputso le kenyeletsang diphuputso tsa desktop le phuputso ya aerial gradiometry gravity.

ROGESA e ile ya qadisa diphuputso tsena, mme hona jwale e sisintse ho bora didiba tse sa feteng tse 40 Dibakeng tse bobedi tseo ho Tsepamisitsweng ho tsona hara dipehelo tsa ER. Sebaka sa pele seo ho Tsepamisitsweng ho sona se ka borwa ba Petrus Steyn mme Sebaka sa bobedi seo ho Tsepamisitsweng ho sona se borwa ba R34 pakeng tsa Kroonstad le Edenville. Dibakeng tseo ka ho qollehileng sediba se tla ba ho tsona Dibakeng tseo ho Tsepamisitsweng ho tsona tse sisisntsweng ke ROGESA mme di tla netefatswa ho ya ka ho seabo sa mong a mobu le diphuputso tsa tikoloho (nakong ya kopo ya tshebetso ena). Ho hang ha ho a sisinngwa ho bora ka metjhini ya haedroliki kapa ho pompela mekedikedi ho ntsha oli kapa kgase.

Mona ho fanwa ka tsebiso bakeng sa kopo e latelang

Melao	Tumello e hlokahalang le tshebetso e lokelang ho latelwa	Ba Boholong ba Tshwanelehang
National Environmental Management Act (Nom. ya 107 wa 1998).	Environmental Authorisation (Tumello ya Tikoloho) bakeng sa Mosebetsi wa 21D ho ya ka Environmental Impact Assessment (EIA) Regulation Listing Notice 1 ya 2014 (GNR 983) le Mosebetsi wa 18 I EIA Regulation Listing Notice 2 ya 2014 (GNR 984).	Department of Mineral Resources and Energy (DMRE), ka ho sebedisa Petroleum Agency of South African (PASA)

SLR Consulting (South Africa) (Pty) Ltd e thontswe jwalo ka setsebi se ikemetseng phuputsong ya tikoloho mme e ikarabella bakeng sa ho qala phuputso e hlokahalang ya tikoloho le ho tsamaisa tshebetso ya ho nka karolo ha setjhaba. Kopo e tla ba latela dipehelo tsa tshebetso ya phuputso le EIA jwalo ka ha ho bontshitswe Melaong ya EIA (GNR 982). Dintlha tse eketsehileng le tse batsi mabapi le projeke di ka fumana ho Websaete ya SLR le ho fanwa ditlalehong tsa Scoping le EIA.

Tlhahisoleseding e latelang ya dikopano le setjhaba e hlophisitswe moo tlhahisoleseding mabapi le projeke e sisintsweng e tla fanwa bakeng sa dipuisano le ho hlahisa dipotso mabapi le mathata le dingongoreho. Batho bohle ba nang le seabo ba mengwa hore ba be teng. Ka kopo RSVP ho SLR.

Letsatsi	Sebaka	Nako
Laboraro la la 7 Lwetse 2022	Steynsrus Boerevereniging Hall Strateng sa Van Riebeeck, Steynsrus	15h00
Labone la la 8 Lwetse 2022	Edenville Boerevereniging Hall Strateng sa Mark, Edenville	09h00

Batho bohle ba nang le seabo ba mengwa hore ba ngodise jwalo ka Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP). O tlameha ho ngodisa jwalo ka I&AP haeba o lakatsa ho fumana tlhahisoleseding e ekeetsehileng kapa haeba o lakatsa ho nka karolo projekeng ya tekolo ya tikoloho. Moralo wa Tlaleho ya Scoping o tla fumaneha bakeng sa Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP).bakeng sa ho o hlahloba. Bakeng sa ho etsa sena, kapa ho botsa dipotso dife kapa dife kapa dingongoreho mabapi le projeke, ka kopo ikopanye le:

Theo Wicks (Motsamaisi wa Projeke) le/kapa Gugu Dhlamini (Ho Nka Karolo ha Setjhaba) ka ho romela

Mohala: 011 467 0945, Fekse: 011 467 0975 le/kapa romela ka

Poso ho: PO Box 1596, Cramerview, 2060

SLR Website: https://www.sirconsulting.com/en/public-documents/Rhino-well-ER294 Websaete ya Datha ya Mahala: https://sirpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294

Ka ho fana ka tlhahisoleseding ya hao ya botho hore o ngodiswe jwalo ka motho ya nang le thahasello le ya angwang ke projeke (I&AP) bakeng sa Projeke ena o dumela hore SLR e sebedise tlhahisoleseding ya hao hoy a ka Molao wa Tshireletso ya Tlhahisoleseding ya Botho (Protection of Personal Information Act) wa 2013 (Non.ya 4 wa 2013). SLR e ke ke ya sebedisa Tlhahisoleseding ya hao ya Botho, ntle le kamoo ho dumeletsweng kateng kapa jwalo ka ha ho hlokwa ke ditshebetso tsa EIA, kapa jwalo ka ha ho hlokwa ke molao kapa pholisi ya setjhaba. Bakeng sa dintlha tse eketsehileng, ikopanye le SLR jwalo ka ha ho bontshitswe mona ka hodimo.

14 VrystaatKroon 24 Augustus 2022

NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION

PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS IN ER 294, FREE STATE PROVINCE

Notice is hereby given of Rhino Oil and Gas Exploration South Africa's (ROGESA) intention to make an application for:

- An amendment to the existing Exploration Right (ER) and Environmental Management Programme (EMPr) in terms of Section 102 of the Minerals and Petroleum Resources Development Act, (No 28 of 2002) (MPRDA);
- An Environmental Authorisation (EA) in terms of Chapter 5 of the National Environmental Management Act, 1998 (No. 107 of 1998)

ROGESA hold an ER and EA to explore for petroleum resources in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The granted EA and ER permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial

ROGESA undertook the studies and survey, and now proposes to advance exploration by drilling up to 40 exploration wells in two Target Areas within the ER. The first Target Area is located south of Petrus Steyn and the second Target Area lies south of the R34 between Kroonstad and Edenville. The specific well locations within the Target Areas are still to be confirmed based on landowner engagement and environmental $investigations \ (to be completed during this application process). No hydraulic fracturing or fracking is proposed.\\$

Notice is hereby given of the following application:

Legislation	Authorisation required and process to be followed	Competent Authority
National Environmental Management Act (No. 107 of 1998).	Environmental Authorisation for Activity 21D in Environmental Impact Assessment (EIA) Regulation Listing Notice 1 of 2014 (GNR 983) and Activity 18 in EIA Regulation Listing Notice 2 of 2014 (GNR 984).	Department of Mineral Resources and Energy (DMRE), through the Petroleum Agency of South African (PASA)

SLR Consulting (South Africa) (Pty) Ltd has been appointed as the independent environmental assessment practitioner responsible for undertaking the required environmental assessment and conducting the public participation process. The application will be subject to $a \ Scoping \ and \ EIA \ process \ as \ stipulated \ in \ the \ EIA \ Regulations \ (GNR \ 982). \ Further \ project \ details \ can \ be \ found \ on \ the \ SLR \ Website \ and \ and \ on \ the \ SLR \ Website \ and \ on \ the \ the \ the \ and \ on \ the \ SLR \ Website \ and \ on \ the \ t$ will be provided in the Scoping and EIA reports.

The following public information meetings have been arranged where information on the proposed project will be presented for discussion and raising of any initial issues and concerns. All stakeholders are invited to attend any of the following meetings as may be convenient. Please RSVP to SLR using the details included below.

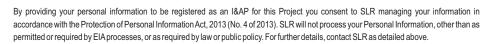
Date	Venue	Time
Wednesday 7 September 2022 Steynsrus Boerevereniging Hall Van Riebeeck Street, Steynsrus		15h00
Thursday 8 September 2022	Edenville Boerevereniging Hall Mark Street, Edenville	09h00

All stakeholders are invited to register as Interested & Affected Parties (I&AP). You must register as an I&AP if you would like more information or wish to participate in the environmental assessment process for the project. A draft Scoping Report will be made available to registered I&APs for review. To do so, or to raise any issues or concerns regarding the project, please contact:

Theo Wicks (Project Manager) and/or Gugu Dlamini (Public Participation) by

Email: RhinoER294@slrconsulting.com









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Vacurect suksesvol gebruik.

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ü Veroorsaak 'n ereksie binne minute.

ü Koste-effektief: Eenmalige uitgawe.

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APPENDIX 3.7:

SITE NOTICES



NOTICE OF APPLICATION FOR ENVIRONMENTAL AUTHORISATION

PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS IN ER 294,

FREE STATE PROVINCE

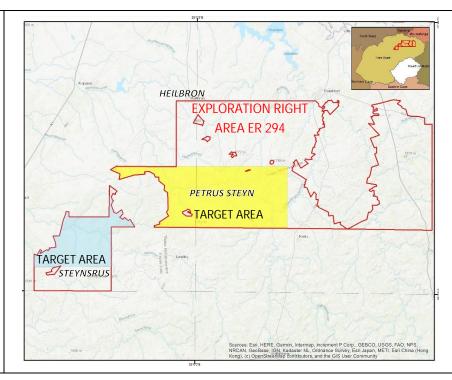
PASA REFERENCE NO.: 12/3/294 (ER 294)

Notice is hereby given of Rhino Oil and Gas Exploration South Africa's (ROGESA) intention to make an application for:

- An amendment to the existing Exploration Right (ER) and Environmental Management Programme (EMPr) in terms of Section 102 of the Minerals and Petroleum Resources Development Act, 2002 (No 28 of 2002) (MPRDA);
- An Environmental Authorisation (EA) in terms of Chapter 5 of the National Environmental Management Act, 1998 (No. 107 of 1998) (NEMA).

ROGESA hold an ER and EA to explore for petroleum resources in the Free State Province of South Africa (reference 12/3/294 (ER 294)). The granted EA and ER permitted ROGESA to undertake an exploration work programme involving desktop studies and an aerial gradiometry gravity survey.

ROGESA undertook the studies and survey, and now proposes to advance exploration by drilling up to 40 exploration wells in two Target Areas within the ER. The first Target Area is located south of Petrus Steyn and the second Target Area lies south of the R34 between Kroonstad and Edenville. The specific well locations within the Target Areas are still to be confirmed based on landowner engagement and environmental investigations (to be completed during this application process). No hydraulic fracturing or fracking is proposed.



Notice is hereby given of the following application:

Legislation	Authorisation required and process to be followed	Competent Authority
National Environmental	Environmental Authorisation for Activity 21D in Environmental	Department of Mineral Resources and
Management Act	Impact Assessment (EIA) Regulation Listing Notice 1 of 2014 (GNR	Energy (DMRE), through the Petroleum
(No. 107 of 1998).	983) and Activity 18 in EIA Regulation Listing Notice 2 of 2014	Agency of South African (PASA)
	(GNR 984).	

SLR Consulting (South Africa) (Pty) Ltd has been appointed as the independent environmental assessment practitioner responsible for undertaking the required environmental assessment and conducting the public participation process. The application will be subject to a Scoping and EIA process as stipulated in the EIA Regulations (GNR 982). Further project details can be found on the SLR Website and will be provided in the Scoping and EIA reports.



The following public information meetings have been arranged where information on the proposed project will be presented for discussion and raising of any initial issues and concerns. All stakeholders are invited to attend any of the following meetings as may be convenient. Please RSVP to SLR using the details included below.

Date	Venue	Time
Wednesday, 7 September 2022	Steynsrus Boerevereniging Hall	15h00
	(Van Riebeeck Street, Steynsrus)	
Thursday, 8 September 2022	Edenville Boerevereniging Hall	09h00
	(Insert address)	

All stakeholders are invited to register as Interested & Affected Parties (I&A P). You must register as an I&AP if you would like more information or wish to participate in the environmental assessment of the project. To do so, or to raise any environmental issues or concerns regarding the project, please contact:

Theo Wicks (Project Manager) and/or Gugu Dlamini (Public Participation) by

Email: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Fax: 011 467 0975, WhatsApp: 066 171 3677 and/ or Post: PO Box 1596, Cramerview, 2060

SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294

Data Free Website: https://slrpublicdocs.datafree.co/en/public-documents/ Rhino-well-ER294

By providing your personal information to be registered as an I&AP for this Project you consent to SLR managing your information in accordance with the Protection of Personal Information Act, 2013 (No. 4 of 2013). SLR will not process your Personal Information, other than as permitted or required by EIA processes, or as required by law or public policy. For further details, contact SLR as detailed above.



KENNISGEWING VAN AANSOEK OM OMGEWINGSMAGTIGING

BEOOGDE BOORWERK VIR EKSPLORASIEBOORGATE IN DRIE TEIKENGEBIEDE

IN ER 294, VRYSTAATPROVINSIE

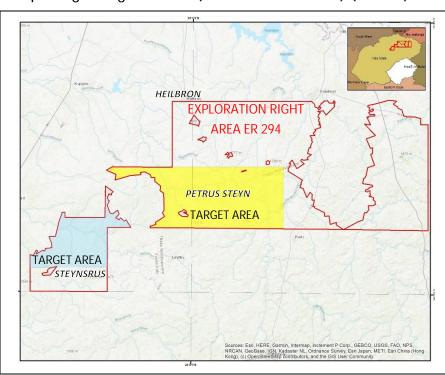
PASA VERWYSING NO.: 12/3/294 (ER 294)

Kennisgewing geskied hiermee van Rhino Oil and Gas Exploration South Africa (ROGESA) se voorneme om aansoek te doen om:

- 'n wysiging van die bestande Eksplorasiereg (ER) en Omgewingsbestuursprogram (OBPr) ingevolge Artikel 102 van die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet 28 van 2002) (MPRDA); en
- 'n Omgewingsmagtiging (OM) ingevolge Hoofstuk 5 van die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998) (NEMA).

ROGESA beskik oor 'n ER en OM om eksplorasie vir petroleumhulpbronne in die Vrystaatprovinsie van Suid-Afrika te doen (verwysing 12/3/294 (ER 294)). Die OM en ER wat toegestaan is, het ROGESA toestemming gegee om 'n eksplorasiewerkprogram te onderneem wat kantoorgebonde studies en 'n gradiometrie-swaartekragopname vanuit die lug behels.

ROGESA het die studies en opname onderneem, en beoog nou om hoogstens 40 eksplorasieboorgate in drie teikengebiede in die ER te boor. Die eerste teikengebied is suid van Petrus Steyn en die tweede teikengebied is suid van die R34 tussen Kroonstad en Edenville geleë. ROGESA het die spesifieke liggings vir die boorgate in die teikengebiede voorgestel en moet nog op grond van skakeling met grondeienaars en omgewingsondersoeke (wat tydens hierdie aansoekproses afgehandel moet word) bevestig word. Geen hidrouliese breking, oftewel hidrobreking, word beoog nie.



Kennis geskied hiermee van die volgende aansoek:

Wetgewing	Vereiste magtiging en proses wat gevolg moet word	Bevoegde owerheid
Nasionale Wet o	Omgewingsmagtiging vir Aktiwiteit 21(D) in die Regulasies op	Departement van Minerale Hulpbronne
Omgewingsbestuur	Omgewingsimpakevaluerings (OIE) Lyskennisgewing 1 van 2014	en Energie (DMHE), deur die
(Wet 107 van 1998)	(Staatskennisgewing R983) en Aktiwiteit 18(I) in OIE-regulasie	Petroleumagentskap van Suid-Afrika
	Lyskennisgewing 2 van 2014 (Staatskennisgewing R984)	(PASA)

SLR Consulting (South Africa) (Edms.) Bpk. is aangestel as die onafhanklike omgewingsevalueringspraktisyn wat verantwoordelik is om die vereiste omgewingsevaluering en die openbare deelnameproses te onderneem. Die aansoek sal onderhewig wees aan 'n Bestekopname- en OIE-proses soos uiteengesit in die OIE-regulasies (Staatskennisgewing R982). Meer projekbesonderhede, wat op SLR se webwerf gevind kan word, sal in die Bestekopname- en OIE-verslag voorsien word.



Die volgende openbare inligtingsvergaderings is gereël waar inligting oor die beoogde projek voorgehou sal word vir bespreking en om enige aanvanklike kwessies en knelpunte te opper. Alle belanghebbers word genooi om enige van die volgende vergaderings by te woon waar dit gerieflik is. RSVP asseblief vir SLR by die besonderhede wat hieronder ingesluit is.

Date	Venue	Time
Woensdag, 7 September 2022	Steynsrus Boerevereniging Hall Van Riebeeck Straat, Steynsrus	15h00
Donderdag, 8 September 2022	Edenville Boerevereniging Hall Mark Straat, Edenville	09h00

Alle belanghebbers word genooi om as Belangstellende & Geaffekteerde Partye (B&GP's) te registreer. U moet as 'n B&GP registreer as u meer inligting wil hê of as u aan die projek se omgewingsevalueringsproses wil deelneem. 'n Konsep Bestekopnameverslag sal aan geregistreerde B&GP's beskikbaar gemaak word vir insae. Om dit te doen, of om enige omgewingskwessies of knelpunte met betrekking tot die projek te opper, moet u asseblief in verbinding tree met:

Theo Wicks (Projekbestuurder) en/of Gugu Dlamini (Openbare Deelname) by

E-pos: RhinoER294@slrconsulting.com

Tel: 011 467 0945, Faks: 011 467 0975, WhatsApp: 066 171 3677 en/of Pos: Posbus 1596 1596, Cramerview, 2060

SLR se webwerf: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER294
Datavry-webwerf: https://slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294

Deur u persoonlike inligting te voorsien om as 'n B&GP vir hierdie projek geregistreer te word, stem u in daartoe dat SLR u inligting ingevolge die Wet op die Beskerming van Persoonlike Inligting (Wet 4 van 2013) beheer. SLR sal nie u persoonlike inligting verwerk nie, behalwe soos toegelaat of vereis word deur OIE-prosesse, of soos vereis word deur wet of openbare beleid. Kontak SLR soos hierbo aangedui is vir meer besonderhede.



TSEBISO MABAPI LE KOPO BAKENG SA TUMELLO E AMANANG TIKOLOHO PHUPUTSO E SISINTSWENG YA HO BORA SEDIBA DIBAKENG TSE THARO TSEO HO TSEPAMISITSWENG HO TSONA HO YA KA ER 318, PROVINSING YA FREITATA

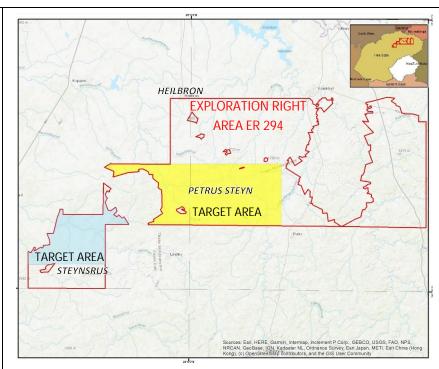
PASA REFERENSE KE: 12/3/294 (ER 294)

Mona ho etswa maikemisetso ya kopo ya Rhino Oil and Gas Exploration South Africa's (ROGESA) bakeng sa:

- Phetoho ho Exploration Right (ER) and Environmental Management Programme (EMPr) e ntseng e le teng ho ya ka Karolo ya 102 ya Minerals and Petroleum Resources Development Act, 2002 (Nom ya 28 ya 2002) (MPRDA);
- Environmental Authorisation (EA) ho ya ka Kgaolo ya Chapter 5 ya National Environmental Management Act, 1998 (Nom. ya 107 wa 1998) (NEMA).

ROGESA e tshwere ER le EA bakeng sa ho fuputsa mehlodi ya petroleamo Provinsing ya Freistata Afrika Borwa (referense ke 12/3/318 (ER 318)). EA le ER tsa tumello bakeng sa ROGESA ho qala lenaneo la phuputso le kenyeletsang diphuputso tsa desktop le phuputso ya aerial gradiometry gravity.

ROGESA e ile ya qadisa diphuputso tsena, mme hona jwale e sisintse ho bora didiba tse sa feteng tse 40 Dibakeng tse bobedi tseo ho Tsepamisitsweng ho tsona hara dipehelo tsa ER. Sebaka sa pele seo ho Tsepamisitsweng ho sona se ditsing tse potolohileng toropo ya Wesselsbron, Sebaka sa bobedi seo ho Tsepamisitsweng ho sona se ka botjhabela ba Allanridge mme Sebaka sa boraro seo ho Tsepamisitsweng ho sona se ka borwa bo ka botjhabela ba Kroonstad. Dibakeng tseo ka ho qollehileng sediba se tla ba ho tsona Dibakeng tseo ho Tsepamisitsweng ho tsona tse sisisntsweng ke ROGESA mme di tla netefatswa ho ya ka ho seabo sa mong a mobu le diphuputso tsa tikoloho (nakong ya kopo ya tshebetso ena). Ho hang ha ho a sisinngwa ho bora ka metjhini ya haedroliki kapa ho pompela mekedikedi ho ntsha oli kapa kgase.



Mona ho fanwa ka tsebiso bakeng sa kopo e latelang:

Melao		Tumello e hlokahalang le tshebetso e lokelang ho latelwa	Ba Boholong ba Tshwanelehang
Nationa	al Environmental	Environmental Authorisation (Tumello ya Tikoloho) bakeng sa Mosebetsi	Department of Mineral Resources and Energy
Manage	ement Act	wa 21D ho ya ka Environmental Impact Assessment (EIA) Regulation	(DMRE), ka ho sebedisa Petroleum Agency of
(Nom. y	ya 107 wa 1998).	Listing Notice 1 ya 2014 (GNR 983) le Mosebetsi wa 18 I EIA Regulation	South African (PASA)
		Listing Notice 2 ya 2014 (GNR 984).	

SLR Consulting (South Africa) (Pty) Ltd e thontswe jwalo ka setsebi se ikemetseng phuputsong ya tikoloho mme e ikarabella bakeng sa ho qala phuputso e hlokahalang ya tikoloho le ho tsamaisa tshebetso ya ho nka karolo ha setjhaba. Kopo e tla ba latela dipehelo tsa tshebetso ya phuputso le EIA jwalo ka ha ho bontshitswe Melaong ya EIA (GNR 982). Dintlha tse eketsehileng le tse batsi mabapi le projeke di ka fumana ho Websaete ya SLR le ho fanwa ditlalehong tsa Scoping le EIA.



Tlhahisoleseding e latelang ya dikopano le setjhaba e hlophisitswe moo tlhahisoleseding mabapi le projeke e sisintsweng e tla fanwa bakeng sa dipuisano le ho hlahisa dipotso mabapi le mathata le dingongoreho. Batho bohle ba nang le seabo ba mengwa hore ba be teng. Ka kopo RSVP ho SLR.

Letsatsi	Sebaka	Nako
Labobedi la la 6 Lwetse	Wesselsbron Golf Club (Strateng sa Willemse, Wesselsbron)	15h00
Laboraro la la 7 Lwetse	Odendaalsrus Town Hall (Toropong) (Strateng sa Church, Odendaalsrus)	09h00

Batho bohle ba nang le seabo ba mengwa hore ba ngodise jwalo ka Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP). O tlameha ho ngodisa jwalo ka I&AP haeba o lakatsa ho fumana tlhahisoleseding e ekeetsehileng kapa haeba o lakatsa ho nka karolo projekeng ya tekolo ya tikoloho. Moralo wa Tlaleho ya Scoping o tla fumaneha bakeng sa Batho ba Nang le Thahasello le ba Angwang ke Sena (I&AP).bakeng sa ho o hlahloba. Bakeng sa ho etsa sena, kapa ho botsa dipotso dife kapa dife kapa dingongoreho mabapi le projeke, ka kopo ikopanye le:

Nicolas Arnott (Motsamaisi wa Projeke) le/kapa Gugu Dhlamini (Ho Nka Karolo ha Setjhaba) ka ho romela Imeile ho: RhinoER318@slrconsulting.com

Mohala: 011 467 0945, Fekse: 011 467 0975 le/kapa romela ka Poso ho: PO Box 1596, Cramerview, 2060

SLR Website: https://www.slrconsulting.com/en/public-documents/Rhino-well-ER318

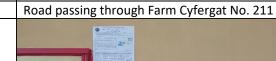
Websaete ya Datha ya Mahala: https://slrpublicdocs.datafree.co/en/public-documents/Rhino-well-ER294

Ka ho fana ka tlhahisoleseding ya hao ya botho hore o ngodiswe jwalo ka motho ya nang le thahasello le ya angwang ke projeke (I&AP) bakeng sa Projeke ena o dumela hore SLR e sebedise tlhahisoleseding ya hao hoy a ka Molao wa Tshireletso ya Tlhahisoleseding ya Botho (Protection of Personal Information Act) wa 2013 (Non.ya 4 wa 2013). SLR e ke ke ya sebedisa Tlhahisoleseding ya hao ya Botho, ntle le kamoo ho dumeletsweng kateng kapa jwalo ka ha ho hlokwa ke ditshebetso tsa EIA, kapa jwalo ka ha ho hlokwa ke molao kapa pholisi ya setjhaba. Bakeng sa dintlha tse eketsehileng, ikopanye le SLR jwalo ka ha ho bontshitswe mona ka hodimo.





Quest Edenville





Road entrance to Farm Honinglaagte No. 2118



Usave Steynsrus





Public library, Matlwangtlwang, Steynsrus

R720 and Farm Road access to Benoni No. 662



R720 and Farm Road access to Benoni No. 662



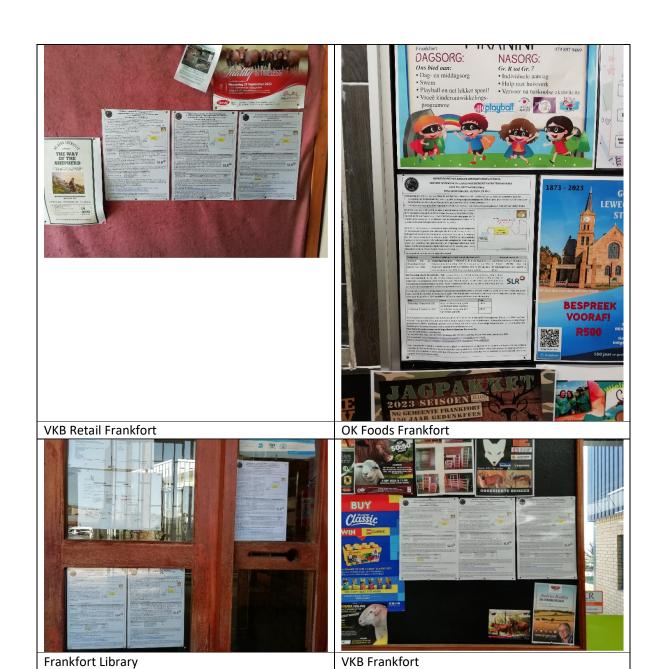
OK Mini Mark Petrus Steyn



VKB Petrus Steyn



Spar Heilbron



APPENDIX 3.8: MINUTES OF PUBLIC INFORMATION MEETINGS



RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD

NOTES OF PRE-APPLICATION PUBLIC MEETING

DATE	08 September 2022, 15h00	
VENUE:	Edenville Boerevereniging Hall	
PROJECT:	Environmental Impact Assessment (EIA) for well drilling in 294 Exploration Right (ER) 294	
SLR COMPANY:	SLR Consulting (South Africa) (Pty) Ltd	
PROJECT NUMBER:	720.18034.00020	
PURPOSE:	 The purpose of the meeting was to provide: An introduction and overview of the proposed project; An overview of the required Scoping & Environmental Impact Assessment (S&EIA) process; An overview of the specialist input into the S&EIA An overview of the public participation process; and An opportunity for Interested and Affected Parties (I&APs) to ask questions and raise any issues and concerns. 	
ATTENDANCE:	An attendance register is presented in Appendix 1.	

1. OPEN AND INTRODUCTION

Ms Antoinette Pietersen (AP) opened the meeting and welcomed everyone present and introduced herself as the independent facilitator of the meeting. AP then opened the floor for the project team to introduce themselves. Mr Travis Smithard (TS) introduced himself and Mr Gilles Pantanancce (GP) representing Rhino Oil and Gas Exploration South Africa (Pty) Ltd (ROGESA) (the applicant). Mr Theo Wicks (TW), introduced himself, Mr Nicholas Arnott (NA) and Ms Gugu Dhlamini (GD) as the independent Environmental Consultants from SLR Consulting (South Africa) (Pty) Ltd (SLR) who are appointed by ROGESA to undertake the Scoping and Environmental Impact Assessment (S&EIA) process for the proposed exploration well drilling project. A list of attendees is provided in Appendix 2.

AP outlined the meeting's agenda, health and safety points and the proposed protocol and indicated that the presentation would be presented by the project team in Afrikaans and in English. It was suggested that questions be asked at the end of each presentation (i.e., Rhino and SLR's presentations). AP stated that she would record issues raised onto the flipchart and will make them available for photography at the end of the meeting. I&APs consented to recording the meeting.

AP explained that the meeting/consultation is not a voting or consensus-driven process, rather a process of collecting input for the purpose of enabling the decision-maker to consider key issues and impacts of concern raised by Interested and/or Affected Parties (I&APs). AP then provided a brief overview of the ESIA process and noted that SLR is in the pre-application phase of the process and the S&EIA phases have not formally begun.

2. PRESENTATION

TS presented an overview of the exploration undertaken by ROGESA to date under their existing Exploration Right (ER). He the provided detail on the current application for ER renewal, an overview of the proposed project and its need and desirability. In this regard, the project objectives, regulatory compliance requirements for Environmental Authorisation (EA) and the technical exploration background and progression to date were highlighted. TS gave a high-level description of how the proposed well drilling would be undertaken by the drilling contractor. Additional detail on the gas testing phase was also provided. Lastly, a possible production phase scenario was outlined by TS, should the site prove to be highly prospective and the necessary approvals for a Production Right be obtained.

TW then presented an overview of the S&EIA process which set out the regulatory framework and legal requirements for the proposed project and S&EIA process. He provided an overview of the drill site selection process (including site screening), the proposed specialist studies to be undertaken in the EIA phase, as well as the public participation process to be followed and the associated opportunities for I&APs to comment and participate in the S&EIA process.

A copy of the presentation is included in Appendix 3.

3. DISCUSSION

A number of issues were raised during the meeting. These have been recorded in Table 1 below. Where a response was provided the response has been included in the table.

Table 1: Record of Issues Raised and Responses Given

Issue Raised	By Whom	Response (given by ROGESA or SLR)
What happened to Matthew Hemming?	Thomas	Matthew is part of SLR.
Who is in control of White River Exploration? Who or what are they?	Anonymous	Honestly, ROGESA thought they are out of the area. We have their blocks now as of July.
Who is financing Rhino?	Thomas	ROGESA has 8 UK investors in an investor SPV. They invest in projects all over the place. They are known in the ESG world.
Why is Rhino using SLR for this project? Is there a reason?		The reason ROGESA uses SLR is because SLR understands the process well and has a big database of people and we can effectively reach out to potential I&APs
Is Rhino BBBEE registered?	Anonymous	No, ROGESA is still busy with its due diligence. It is a legislative requirement that we get a BBBEE partner. We need to make sure we work with the correct company.
If you aren't BBBEE registered, what gives Rhino the right of exploration?	Anonymous	When you get issued an exploration right, you have that right. The law says you usually have 2 - 3 years to find a BBBEE partner for that right. ROGESA is busy with this process.
If you find a sustainable source of gas, where will the gas be stored? Where will the pipeline be placed?	Johan Slabbert	At the moment you all know Renergen. They stated abstracting gas and also get helium. They are the first company in South Africa to obtain a production right to abstract gas.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
		Their plant is now online. ROGESA uses another method to abstract gas. My colleague will later in the presentation show you how our process works.
At what stage of the process must Rhino obtain a BBBEE partner?		At the moment the law says that ROGESA must get a BBBEE partner round about here. We are aware the law is changing so we are not sure. Our lawyers are to confirm if we must do it at production or still during exploration.
From which country will the BBBEE partner come from?		As ROGESA understands, it must be a South African company. As soon as we know, we will place the information in the public domain.
What if one of the target boreholes are in the middle of my wildlife camp with endangered species? What happens then?	Johan Brumeris	Then ROGES will not drill on your farm – it is as easy as that. We need permission from you as the farm owner to drill on your farm. There is a lot of land here we can access.
Is Rhino Oil and Gas an International Company?	Anonymous	Rhino head office sits in Luxembourg. The subsidiary company is a South African company.
How deep is the gas, or how deep will Rhino drill?	Anonymous	Up to 800m.
What is the width of the pipe and the thickness of the cement casing? The ground moves, so what impact will it have on the cement casing? Will it crack and leak gas into the groundwater?	Anonymous	The biggest is 12.5 inches in diameter. Then you completely close it with cement. You then drill through the cement. Then you repeat at 10 inches, 7,5 inches and end at 4 inches. That is up to 3.5 inches of cement between steel. Should something crack, ROGESA will immediately notice it. We will then close the borehole, killing the hole rather than continuing.
I am concerned about groundwater pollution due to gases and poisons. What guarantee do we have that pollution will not take place, especially years after the borehole has been closed? Who will pay for the clean-up of the pollution?	Anonymous	ROGESA uses steel, which is scarce in South Africa, with cement which is not like your typical cement. The steel has tensile strength, so won't crack easily.
Is fracking involved?	Anonymous	Not at all. It is like drilling a borehole, but ROGESA woll go deeper and use better technology.
How many boreholes has Torque Africa drilled?	Anonymous	Torque Africa has drilled ~1000 boreholes. They have 20 borehole machines and have drilled 200 holes for Renergen recently to a far better standard than some 40 boreholes previously drilled for Renergen by another

Issue Raised	By Whom	Response (given by ROGESA or SLR)
		company. ROGESA really did Its research to use the correct company.
If you find gas, will the borehole structure remain in place for production, or will new boreholes be drilled for production?	Alwyn Laas	The reason so much steel and cement will be used is that, should ROGESA find gas, we can then use that hole for production. We start with a big budget, so we do not need to drill again later.
How many boreholes will be drilled should a sustainable source of gas be found for production?		It depends. If ROGESA finds gas within sandstone, in the industry we call it a conventional reservoir. That whole 3 -4 km² can be accessed with one borehole. If it is a crack like Renergen, they drill a borehole every 0.5 – 1.5 km. The one farm Smaldeel Anglo drilled a borehole every 400m. ROGESA obviously hopes to drill in Sandstone.
Does the gas compressor require electricity?	M. Visser	It generates its own electricity using the gas that is present.
Should production commence, how many litres of gas per borehole will be produced?	Anonymous	It depends. Renergen has drilled holes producing 200 litre per day, as well as some that produce 5000 litre per day.
How deep does your drill go?	Anonymous	Up to 800m.
Won't you drill with mud? Can you guarantee you won't drill with mud?	Anonymous	ROGESA prefers to drill with air pressure. If we have to use mud, we close the cracks with mud then gas will not enter the borehole. It will not be useable. The only reason we would use mud is to make the borehole safe, for example if the end of the borehole breaks apart, we pump in cement which seals the hole. The mud stabilises that part of the borehole. Usually, it is exceptionally tare for water to be found at 700m. The pressure at 700m on the hole is far higher than at for example 400m.
Should you use mud, what will you do with it when it comes out the hole?	Anonymous	It will be taken away to a toxic waste site. When using mud there are three main additives. Two are classified as non-hazardous and the other is classified as moderate hazard. This will be detailed in the EIA.
If you abstract gas in large volumes, won't it create / cause empty caverns underground?	Alwyn Laas	That is the thing with gas, you can compress it a lot. It is not like air. If you pull out air the crack will close. With gas it is at such pressure, those cracks are already almost closed, but the gas comes out due to the pressure.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
The biggest risk is the sustainability of groundwater.	Anonymous	That is why ROGESA is proposing to develop these expensive boreholes rather than for example open boreholes. It protects the groundwater from gas and the borehole from the water. To be honest, if gas is in the water, once you pump it out, the gas immediately starts to come out of the water. That is how gas works.
What types of gasses are found in the area?	Anonymous	ROGESA has data from Allanridge near Kroonstad. Up to 95% of it is methane gas, argon of 1-2 % and helium of 2 – 10 % and nitrogen. It is very clean gas.
Are any of the natural gasses adverse to the area / groundwater?	Anonymous	Helium and argon are inert gases. Nitrogen is in the atmosphere. Methane we just explained.
Should you have a production facility, will people stay there? How many will stay there?	Kassie	The station will likely be remote. There will be 2-3 persons who will work on the station. Construction requires about 50 persons. Maybe 3 -5 persons for special maintenance
Should there be production, who will build and maintain the roads for the gas trucks?	Anonymous	ROGESA will make sure that the truck has a good quality access route. As farmers we understand your concern regarding dirt roads.
How will security be managed at such a gas production site? I am concerned of the impact on security of landowners and that such a project will bring unwanted elements to the farms.	Anonymous	ROGESA has been thinking about that. We are looking at drones with a control room. We will have a set of drones which will go onsite which will have a loudspeaker to chase away persons. Drones these days have a 20 – 30-minute flying time. These days drones can automatically track someone. There is no need for someone to control the drone. The drone will follow someone, tell them they are intruding and then if battery runs empty, it will be replaced by another drone, so you have a rolling train of drones following the person to where he lives, then a security team can go to his house. This will probably happen one time until the community becomes aware this is how the system works. The drones can also patrol then come back to site. This can be set to random times, so will not be able to time when drones come.
When you are working on farms, it is important to follow farm protocol.	Anonymous	Absolutely.
Does Rhino have insurance for fires?	Anonymous	Yes, ROGESA does have insurance in place before any drilling work is undertaken.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
How long before exploration will specialists come to do their studies?	Anonymous	Likely this year with drilling only taking place later next year. This will form part of my EIA process.
How will we know who the specialists are and that they are who they say they are?	Anonymous	The best way forward is if SLR introduces them to myself (Travis Smithard), then I take my own bakkie and introduce them to you.
Give the farmers advance notice before specialists come.	Anonymous	ROGESA will do so. A weeks' notice is doable.
Can the micro-sites details be shared with us? The lack of information regarding the microsites causes insecurity with farmers.	Anonymous	ROGESA would rather not do that for two reasons. Firstly, ROGESA needs to get the consent from the farmers it has already spoken to, to see that they are happy it is known. Secondly, as a company that is our proprietary information. We have spent millions to gather information to tell us where we think is good value for gas. We don't want to share that with the general public if that makes sense.
Can Rhino sell their company and rights to another company?	Krause	ROGESA is a company, so honestly if a big company like Sasol wants to buy us, there is always the possibility. Personally (Travis Smithard), I would like to stay on this project through its entirety. What I can say is that our investors do need the money. We aren't like the fly by night companies to hope to sell to bigger companies.
Can we trust Rhino? Is it not a fly by night smoke screen?		No, ROGESA's new investors do not believe there is oil. We are looking for gas.
Does the EIA consider the microenvironment? This is a conservation area for Sungazer Lizards.	Ben	Very much so. That is why we have the project team here with reptile specialists which will come in. For example, Sungazer Lizards areas are well understood as to where they could be. A team will go look and confirm if they are there and whether the area is right for them. It is a huge area, so we are very risk averse and will exclude sensitive areas.
If Rhino is sold or goes bankrupt, how will it affect the farmers which have an agreement in place with Rhino?	Anonymous	Firstly, if there is a contract and the company gets bought out, those contracts are still applicable or must be renegotiated with the landowner.
Will the contracts with farmers be changed should Rhino be bought by another company? Will the contracts be changed?	Anonymous	If the new company comes, ROGESA can place in the contract that they can only change the contract to be the same or better.
The maps are not clear. Please send detailed maps.	Anonymous	Absolutely.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
What is the likelihood that sustainable gas reserves will be discovered?	Anonymous	That is the reason why ROGESA is here, to drill the holes and find out. The reality is we can drill fifteen boreholes and find no gas.
Where did the plane fly when it did the electromagnetic and gravimetric flyover for Rhino?	Anonymous	So, ROGESA did the regional flyover. ROGESA also did a high-density survey. The original was 200m, but the high density is 50m width for these four areas. ROGESA is not allowed to fly outside our exploration footprint.
Is the aerial survey better technology than the ground seismic studies done with trucks?	Anonymous	The reason why ROGESA does not do seismic surveys is that there is enough information we can purchase for cheaper than redoing it. We only flew with the plane. Should we need to do seismic surveys, that would be another EIA process.
What benefits are there for landowners due to the project?	Anonymous	Everything is on the table. It would be a business contract between ROGESA and the landowners. It is your farm, your land.
You will only drill? No underground dynamite explosions or hydro-fracking will occur?	Anonymous	Yes, drilling only. ROGESA will never use fracking within South Africa. We even wrote a letter to FS Agriculture on this.
Can I refuse that you drill on my farm?	Anonymous	Of course.

4. THE WAY FORWARD

TW outlined the way forward as follows:

- Compilation and distribution of meeting notes/minutes.
- I&APs are to:
 - o contact SLR for information and / or documents.
 - o submit comments / questions / issues to SLR.
- Notification of all registered I&APs (who have completed the meeting attendance register) of the next round of public participation e.g., availability of Draft Scoping Report for review and comment.
- Documents will be made available in hard copy and posted to SLR's website and data free website, when available.

5. CLOSE

AP thanked attendees for their input and for making the time to attend the meeting. The meeting was closed by AP.

APPENDIX 1: ATTENDANCE REGISTER

Name	Surname	Interest in project	Postal address	Contact number	Email address
Nicholas	Arnott	SLR Consulting	Main Rd, Newlands, 7700	+27723764809	narnott@slrconsulting.com
Alwyn	Laas	Sernick (Pty) Ltd	PO Box 130 Edenville 9535	+27606046718	alwyn@sernick.co.za
Hano	Blomenis	Tovi Boerdery	Posbus 2481 Fleetwood krd	+27723568481	hano@tovic.co.za
Ken	Lehimkuhl	Lehimkuhlerus	Bus 497 Krd 9500	+27828220558	kenlehmkuhl11@gmail.com
Johan	Blomenis	Tovi Boerdery	Bus 175 Krd 9500	+27825507622	johan@tovic.co.za
David	Crouse	De Villlershof	Bus 6059 Kroonheuwel 9501	+27723784049	davidcrouse@gmail.com
Hilary	Hill	VKB Group	PO Box 100 Reitz 9810	+27827774818	hilaryh@vbk.co.za
Antoinette	Pieterson	Fasiliteerdel	Bus 7158 Centurion	+27832805024	tanipieterson@gmail.com
Tammie	Esterhuyse	FSA	Bus 636 Heilbron	+27827820668	enkelbosch@gmail.com
Gugu	Dhlamini	SLR Consulting	PO Box 1596 Cramerview 2060	+27114670945	gdhlamini@slrconsulting.com
Andre	Bodenstein	Transnet	PO Box 1389 Bfn	+27835530714	andre.bodenstein@transnet.net
Ben	Eeden	Forever	Bus 49 Edenville	+27732203824	benvaeeden95@gmail.com
В	Klopper	Boer	Posbus 32 Edenville	+27826739608	
М	Coetex	Boer	Tasism 6238	+27825233233	morne145@gmail.com
Zak	Niekeil	Boer	Posbus 81 Edenville	+27711921010	zak.zvn7@gmail.com
Johan	Slabbert	Boer	Posbus 296 Kroonstad	+27827766266	islabbert@carfone.net
Alex	Blade	Boer	Bus 765 Kroonstad	+27828075990	alex@carfone.net
Glles	Р	Rhino	France	+33675770547	gp@ashis.energy
Neville	Hobbs	Private	-	+278330881129	hobbs@shisas.com
Dubaas	Meiring	Private	-	+27827719922	hitzakker@gmail.com

Name	Surname	Interest in project	Postal address	Contact number	Email address
Ben	Keeve	Private	-	+27824483381	benkeeve@vodamil.co.za
Frans	Keeve	Private	-	+27827702834	franskeeve@gmail.com
Cassie	Muller	Private	-	+27827874522	cassiemuller56@outlook.com
IJ	van Modert	Private	-	+27827814744	comien@lantic.net
J	Naude	Private	-	+27828409379	naudejohan92@gmail.com
WM	Sharp	Private	-	+27832863012	sharp.jessie@gmail.com
Frans	Muller	Private	-	+27834551260	fmuller@worldonline.co.za

APPENDIX 2: MEETING PRESENTATION



1. Introductions

- · Independent Facilitator:
 - Antoinette Pietersen
- Applicant Rhino Oil and Gas Exploration South Africa (Pty) Ltd (ROGESA):
 - Travis Smithard (Director)
 - Gilles Pantanacce (Engineering Manager)
- Environment Assessment Practitioner (EAP) SLR Consulting (Pty) Ltd:
 - Theo Wicks (Project Manager ER 294)
 - Nicholas Arnott (Project Manager ER 318)
 - Gugu Dhlamini (Project Assistant)

2



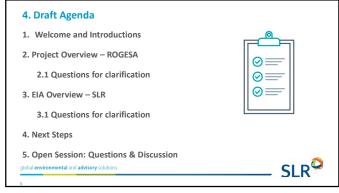
2. Health and Safety • Emergency procedure: Building Safety Instructions • Ablutions (Mens and Ladies Toilets) SLR

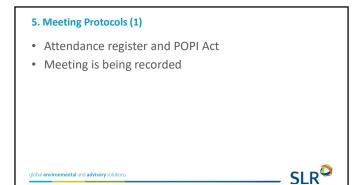
3. Meeting Objectives

- For Applicant and EAP to provide an introduction to:
 - the proposed project
 - $\boldsymbol{-}$ the EIA and public participation process to be undertaken during the application for Environmental Authorisation.
- For Interested and/or Affected Parties (I&APs) to:
 - Engage and ask questions, raise issues of concern, or contribute comments about the proposed project, potential environmental or social risks and the $\,$ EIA process.



3





5. Meeting Protocols (2)

- Flow of meeting:
 - Presentations: approximately 20 25 minutes each
 - Questions and discussion session after all presentations
 - Meeting duration: approximately 2 hours
- Proceedings of the meeting will be included in Draft Scoping Report (to be posted to SLR's website and data free website, when available).

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6. Constructive Discussion Guidelines

Public consultation is **NOT** a voting or consensus-driven process, rather a process of collecting input for purpose of enabling decision-maker to consider issues and impacts.

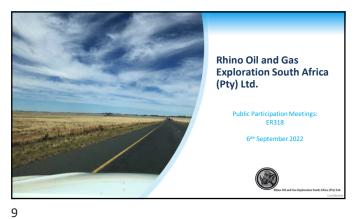
- Raise your hand to comment or ask a question and work through the facilitator.
- 2. Identify yourself (name, surname and organization).
- 3. Respect one another.
- 4. Focus on the issue, not the person. Agree to disagree.
- 5. One question at a time. Ask questions concisely.
- 6. Please turn your cell phones on silent.

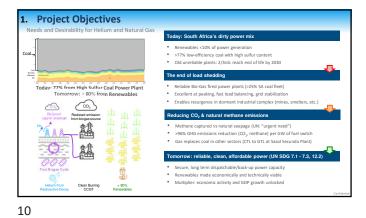
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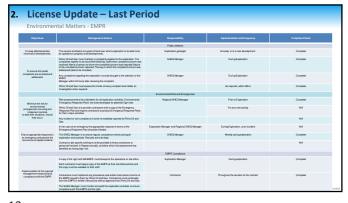
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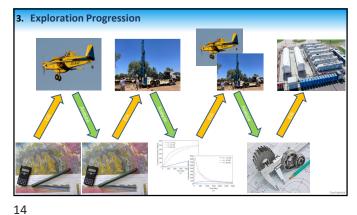


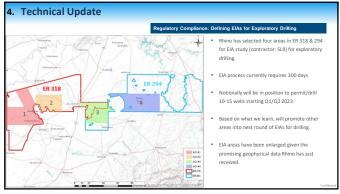


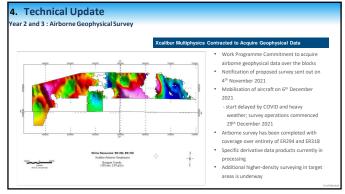
	Renewal Application (MPRDA – Section 81)
81.	(1) Any holder of an exploration right who wishes to apply to the Minister for the renewal of an exploration right must lodge the application—
	nt the office of the designated agency; in the prescribed manner; and
	ogether with the prescribed non-refundable application fee.
	An application for renewal of an exploration right must—
	tate the reasons and period for which the renewal is required;
	be accompanied by a detailed report reflecting the exploration results, the interpretation thereof and the exploration expenditure incurred;
	be accompanied by a report reflecting the extent of compliance with the requirements of the approved environmental management programme, rehabilitation to be completed and the estimated cost thereof; and
	renabilitation to be completed and the estimated cost increo; and include a detailed exploration work programme for the renewal period.
()	action a demand exposition work programme for the fellowing
	The Minister must grant the renewal of an exploration right if the application complies with subsections (1) and (2) and the holder of the exploration right
	complied with the— terms and conditions of the exploration right is not in contravention of any relevant provision of this Act or any other law:
	exploration work programme: and
(c) 1	requirements of the approved environmental management programme.
(4)	An exploration right may be renewed for a maximum of three periods not exceeding two years each.
	An exploration in respect of which an application for renewal has been lodged shall, notwithstanding its expiry date, remain in force until such time as such fication has been eranted or refused.

Er	nvironmental Matters - EMPR			
Objective 6	Management Actions	Responsibility	Implementation and Frequency	Compliant Check
		Roles and Responsibilities		
	Ultimate responsibility for the implementation of and compliance with the EMPR during exploration rests with Philos Oil and Gas.	Rhino Oil and Gas		Complete
	Phino Olland Gas is to nominate an Euploration Manager to be responsible for overseeing compliance with the DEPR. The Euploration Manager is responsible for implementation, monitoring and sudding of compliance with the DEPR.	Exploration Manager	On approval of EMPR, continuous	Complete
	The Expiration Manager may assign specific tasks and roles required by the EMPR to other suitably qualified personal including the Expiration Geologist and SHEQ filtrager.	Exploration Manager	Weekly.	Complete
Define	Rhino Olland Gas is to ensure that all contractors and sub-contractors are aware of and familiar with operations, the key environmental issues and consequences of non-compliance to the EMPR.	Exploration Manager	Throughout the duration of a contract.	Complete
roles and responsibil	Adherence to the conditions of the right and the DMPR must be included as a contractual requirement.	SHEQ Manager		Complete
ities for the	All contractors must be provided with a copy of the EMPR and related plans and procedures			Complete
implement ation of the EMPR	Each contractor is to provide Phino Oil and Gas with a signed letter indicating their acknowledgement of the conditions of the right and EMPR.	Exploration Manager		Complete
	Contractors are responsible for compliance with the EMPR for all aspects of their work package.	Contractor		Complete
	Any incident or non-compliance is to be immediately reported to Rhino Oil and Gas.	Contractor		NANTR
	The Exploration Manager must ensure that a SHEQ Manager is involved in the management of operations.	Exploration Manager	Throughout the duration of the contract.	Complete
	The SHEQ Manager is to ensure regular compliance checks during all exploration work periods. Records are to be kept.	SHEQ Manager	Weekly during exploration	Complete
	Contract or job-specific training must be provided to those contractors or personnel involved in activities which risk assessment has identified as having high risk.		Repeat annually	Complete
		FTG Survey Complete		
Minimise disturbanc e during surveys.	All planned survey flights should comply with local civil aviation rules. Flight paths must be pro- planned to avoid rational paths, nature secrete and world the image size. Where this is not possible, an abbused of 250 feer (Vill or holad be maintained (as per Section CF1) of NEMPAN, unless permission is obtained from the management authority or in an emergency.			Complete
	All plans must be briefed on ecological risks associated with flying at a low level over sensitive areas, in planning sign paths, specialists on Cranse and Vultures at the EWT or DESTEA should be consulted with regards receiving and needing ables and seasons. Where practical the Sigft paths should askid these shiesby at least 500 m.	SHEQ hibrager and independent environmental scientist.	Prior to and during surveys	Complete
	Where flights are planned to occur over game farms or other potentially noise sensitive receptors, landowners should be notified of the survey programme-prior to survey commencement			Complete

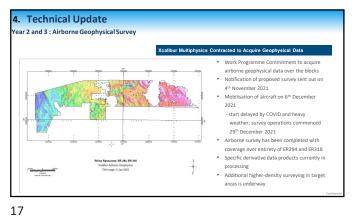


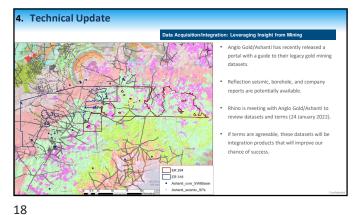




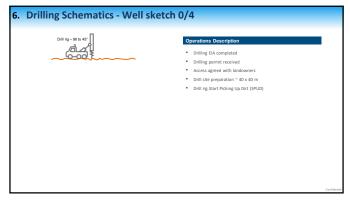


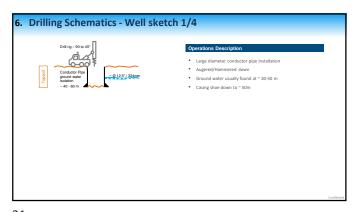
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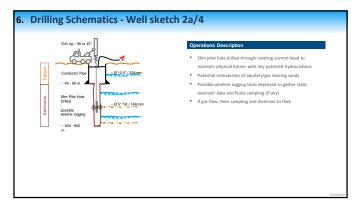


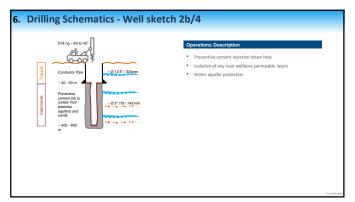


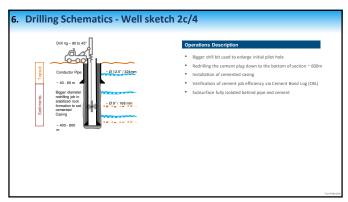




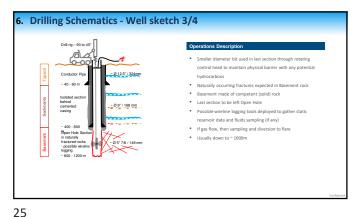


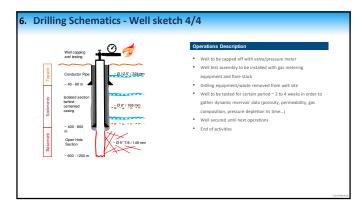


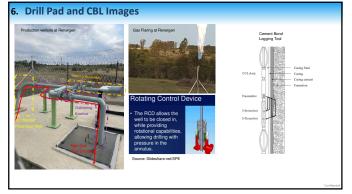




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Scoping and EIA

• Each ER requires a distinct Scoping and EIA process

• The EIA process is undertaken to gather information to inform an authority decision on the Environmental Authorisation by:

- identifying potential risks and benefits on the environment,

• through consultation with landowners and stakeholders

- assessing the significance of potential impacts (++ and --),

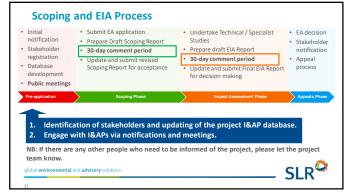
• with inputs from specialist studies

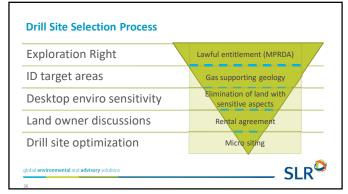
- identifying measures to prevent or mitigate impacts, should the project be approved.

• The EIA Report includes an Environmental Management programme (EMPr)

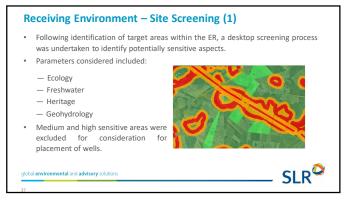
• The EIA process and timeframes are defined in the EIA Regulations 2014 (as amended)

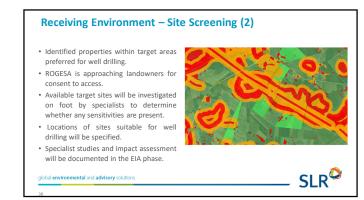
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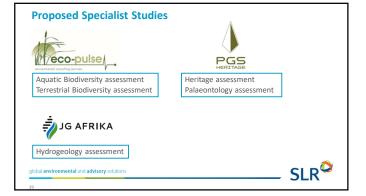




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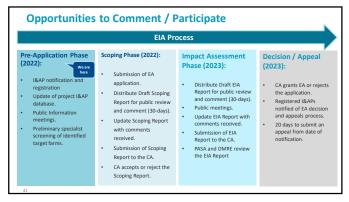




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Next Steps Minutes of meetings to be compiled. I&APS to: contact SLR for information and / or documents. submit comments / questions / issues to SLR. All registered I&APs (by completing meeting attendance register) will be notified of the next round of public participation — e.g. availability of Draft Scoping Report for review and comment. Documents will be made available in hard copy and posted to SLR's website and data free website, when available.

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Reminder: Constructive discussion guidelines

Public consultation is NOT a voting or consensus-driven process, rather a process of collecting input for purpose of enabling decision-maker to consider issues and impacts.

1. Raise your hand to comment or ask a question and work through the facilitator(s).

2. Identify yourself, name and surname and organisation.

3. Respect one another.

4. Focus on the issue, not the person. Agree to disagree.

5. One question at a time. Ask questions concisely.

6. Please turn your cell phones on silent.

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Key Issues – Need & Desirability

1. Global concern of the need to reduce carbon emissions

2. Rapid transition to net zero presents a potential risk to economic growth

3. Current policies acknowledge that natural gas is required in the JUST TRANSITION to net carbon zero by 2050

4. It is SA government policy to use gas in the energy mix in the transition and to explore and develop indigenous gas resources

5. These national strategic policy issues relating to energy and climate change and how South Africa uses fossil fuels fall beyond the scope of the EIA

6. In making a decision, DMRE will need to weigh up:

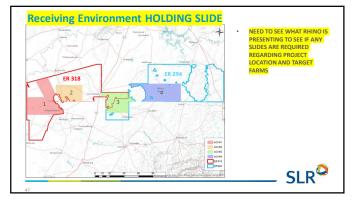
— Current relational strategic policies and the transition to net carbon zero

— Need for a stable electricity supply and economic growth

— Current relatince of liquid floel imports versus the use of a local resource

— Potential impacts and risks associated with the proposed project

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APPENDIX 3: PHOTOS OF PUBLIC MEETING









RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD

NOTES OF PRE-APPLICATION PUBLIC MEETING

DATE	07 September 2022, 15h00		
VENUE:	Steynsrus Boerevereniging Hall		
PROJECT:	EIA for well drilling in 294 Exploration Right		
SLR COMPANY:	South Africa		
PROJECT NUMBER:	720.18034.00020		
PURPOSE:	 The purpose of the meeting was to provide: An introduction and overview of the proposed project; An overview of the required Scoping & Environmental Impact Assessment (S&EIA) process; An overview of the specialist input; An overview of the public participation process; and An opportunity to ask questions and raise any issues and concerns. 		
ATTENDANCE:	An attendance register is presented in Appendix 2.		

1. OPEN AND INTRODUCTION

Ms Antoinette Pietersen (AP) opened the meeting and welcomed everyone present and introduced herself as the independent facilitator of the meeting. AP then opened the floor for the project team to introduce themselves. Mr Travis Smithard (TS) introduced himself and Mr Gilles Pantanancce (GP) as the Rhino Oil and Gas Exploration South Africa (Pty) Ltd (ROGESA) team (the applicant) and Mr Theo Wicks (TW) introduced himself, Mr Nicholas Arnott (NA) and Ms Gugu Dhlamini (GD) as the independent Environmental Consultants from SLR who are appointed by ROGESA to undertake the Scoping and Environmental Impact Assessment (S&EIA) process for the proposed exploration well drilling project. A list of attendees is provided in Appendix 2.

AP explained that the meeting/consultation is not a voting or consensus-driven process, rather a process of collecting input for the purpose of enabling the decision-maker to consider key issues and impacts of concern raised by Interested and/or Affected Parties (I&APs). AP then provided a brief overview of the ESIA process and noted that SLR is in the pre-application phase of the process and the S&EIA phases have not formally begun.

AP outlined the meeting's agenda, health and safety points and the proposed protocol and indicated that the presentation would be presented by the project team in English. It was suggested that questions be asked at the end of each presentation (i.e., Rhino and SLR's presentations). AP stated that she would record issues raised onto the flipchart and will make them available for photography at the end of the meeting. I&APs requested for the meeting not to be recorded.

2. PRESENTATION

TS gave a presentation providing an overview of the proposed project and its need and desirability. In this regard, the project objectives, regulatory compliance requirements (for Environmental Authorisation (EA) renewal) and the technical exploration background and progression to date were highlighted. GP gave a high-level description of how the proposed well drilling will be undertaken by the drilling contractor and how the wells will be cemented and isolated to prevent any seepage to subsurface. Additional detail on the gas testing phase was also provided. Lastly, a possible production phase scenario was outlined, by the ROGESA team, should the site prove to be highly prospective.

In the second segment of the presentation, TW provided an overview of the S&EIA process. This fundamentally outlined the proposed project's regulatory framework and legal requirements, the S&EIA process, the drill site selection process (including site screening), the proposed specialist studies to be undertaken as well as the public participation process/opportunities for I&APs to comment and participate.

A copy of the presentation is included in Appendix 3.

3. DISCUSSION

A few issues were raised during the meeting. These have been recorded in the table attached as Appendix 1. Where a response was provided the response has been included in the table.

4. THE WAY FORWARD

TW outlined the way forward as follows:

- Compilation and distribution of meeting notes/minutes.
- I&APs are to:
 - o contact SLR for information and / or documents.
 - o submit comments / questions / issues to SLR.
- Notification of all registered I&APs (who have completed the meeting attendance register) of the next round of public participation e.g., availability of Draft Scoping Report for review and comment.
- Documents will be made available in hard copy and posted to SLR's website and data free website, when available.

5. CLOSE

AP and TS thanked attendees for their input and for making the time to attend the meeting. The meeting was closed by AP.

APPENDIX 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
Do you use mud during the drilling process?	Ben	Air drilling is the primary method of drilling that will be used, however should the drillers experience difficulties with the geology at deeper depths then there is a possibility of using mud drilling, however this is unlikely and is only considered a secondary/alternative approach.
How will the well be kept from not caving in?		Firstly, good rock structure would ensure that the well does not cave in. Secondly, air drilling also ensures that the well does not cave in.
How deep will you be drilling?		This will be dependent on where exactly drilling will happen, typically the depth is between 400m -800m. A further 200m – 300m can be drilled. So, a maximum depth of approximately 1200 m may be drilled.
Should mud drilling be used, will the mud not come into contact with the groundwater resulting in contamination?		ROGESA understands the hydraulic sensitivity of the zone and that water is a key issue and are therefore cognisant of this. The additives used by Torque Africa for the Renergen drilling included fully biodegradable foam. In the event that mud drilling is undertaken, the Material Safety Data Sheet (MSDS) will be made available.
I assume there will be no financial gain for gas extraction for the farmers. Will the government receive all financial gain?	Boy Simon	No. ROGESA will enter into a contract with the land owners to agree on the land rental amount.
If ROGESA starts drilling and cementing and later decides to leave the area, who will then be responsible for pollution prevention once you've left?	JSL Nagel	Once the well is closed, it is sealed completely with cement. If the cement cracks, all the rocks will also crack and gas leak.
What will happen if as a landowner I don't give consent for drilling on my farm?		Then ROGESA will not drill on your farm and go somewhere else.
Would ROGESA be able to get gas off my property even if they drill on my neighbour's farm?		Technically this is unlikely due to the depth of the resource. It would unlikely be possible to reach the gas via a neighbourly property.
How would groundwater be rehabilitated in case of contamination?	Ben	ROGESA does not currently have the technical response to the question. The geohydrologist team would be able to answer at a later stage.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
What gases will ROGESA be looking for during drilling?		Natural gas has been documented in Edenville, Bothaville and Petrus Steyn. ROGESA is expecting to find 91-97% of methane, with the remaining 3% being Argon, Helium and Nitrogen. The natural gas is very clean but comes from biogenic sources.
In the event of a major accident resulting in methane being released into the groundwater and thus making the groundwater acidic, how will ROGESA rehabilitate the water?		Your assumption is that the gas will enter the water table, however this is untrue as natural gas will go to the surface, this is pure Physics – natural gas always goes to the lowest pressure point, which will be the surface.
		Should this unlikely scenario however occur, the technical solution would be to cement the entire well to patch the fractures. If this option does not work, then ROGESA will redrill parallel to the damaged well at a bigger diameter and remedy it by milling the well and cementing it to close it.
		A more technical solution to this would be to drill a water producer well that is purposely designed to pump the water from the gas filled aquifer. You can do this very quickly and early, because drilling that well would take less than a week. You then pump the water that has the gas to the surface, and remove the gas, thereafter you drill another well which would redirect the clean water back to the ground.
I understand that, however that will take 4-6 weeks. Lots of damage/contamination would be taking place during then. How will the groundwater be rehabilitated?		There are over 30 000 boreholes that have been drilled in the Free State, by farmers and mines. If it was as bad as you're saying, then the entire Free State would have a big issue.
Who is the owner and director of ROGESA?	Gerald Hendriks	Travis Smithard is the director of ROGESA in South Africa. There are various shareholders from America and the UK.
I am also worried about the drilling activities' impacts on my farm, even if you drill on my neighbour's farm.		The Environmental Impact Assessment will consider the highly sensitive/high-risk areas and Rhino may decide not to drill in these areas. Risk mitigation measures will also be considered for these areas.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
What would there be in terms of benefits for the community if the exploration really finds a resource? If only one well is possible, what percentage (of profits) could be given to Steynsrus?	JSL Nagel	The answer to that centres around the real size of resources.
What percentage can be given to uplift the community of Steynsrus, for a hospital or mall?	Annikie	ROGESA is unable to answer this question at this stage of the process.
How many people will be employed from inception of the plant to extraction?	JSL Nagel	If 20-40 wells are needed to operate then 2-3 people are needed to verify that the wells are working in order. About 5-10 people for operating and maintaining everything else. Therefore 10-20 people in total. The main employment will be indirect employment opportunities.
I would like to commend ROGESA for saying that they will go elsewhere should the landowners not give consent to drill on their farms.	Johan Botha	Noted.
Is it possible to exclude the title deeds from the PASA application for the farmers that are not interested/give consent to the proposed project?		ROGESA will have to check with PASA, but from our understanding we cannot relinquish individual farms in the Exploration Right Areas, the farms would have to be contiguous.
Will ROGESA sign an agreement with the farmers that no fracking will be taking place?		ROGESA has already sent out a letter of commitment to the farmers with Travis Smithard's (South African director) and the head director's signatures stating that no hydraulic fracking will be undertaken.
Does SLR know the risks involved that will be set out in the S&EIA?		Yes, the scope of assessment for the current exploration programme will be included in the Scoping Report.
Will there be compensation if there's pollution to the water resources?		There will be a financial liability assurance guarantee, which is available in different ways. This can be deposited into a trust account that is held by PASA or ROGESA can set up their own trust fund and set the money aside in that trust for rehabilitation. Thaat total amount is worked out on a particular calculation.
When the project is decommissioned, what will the monitoring process and requirements be and for how long? Thereafter, what will happen if something goes wrong after decommissioning?		The fund is there for ROGESA to draw from until rehabilitation is completed and has been signed off. The drilled well will be plugged completely with cement and thereafter the geohydrologists, as part of the impact assessment, will identify where ROGESA will have to drill monitoring wells and will then set up a monitoring programme

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		which will stipulate recommendations on the frequency and duration the monitoring should take place. This could be anything between 2-5 years after decommissioning.
Does the landowner have any say about the monitoring requirements following decommissioning?		Absolutely. That would go into the EMPr and if the landowner feels that the stipulated requirements are inadequate then it can be amended. Secondly, it becomes a relationship factor between ROGESA and landowners, more than it is a legal requirement factor.
Where will the landowner claim if ROGESA is nowhere to be found following the decommissioning?		The law makes provision to say that despite ROGESA walking away after closure, if they have caused any harm, they are obliged to fix it. This would fall under the Duty of Care provisions.
		In terms of money, an Escrow account which needs 2 signatories to ensure that the funds are used appropriately will be set up. The second signatory would likely be a Community Liaison Officer on behalf of the farmers. Furthermore, an auditor will likely also be appointed to audit the site post decommissioning and if there are still any problems even post decommissioning then money can be taken from the escrow account to remedy that. The EMPr will determine how long the funds exist post decommissioning. Furthermore, a formal closure process will be followed by the Department of Mineral Resources and Energy (DMRE) after the decommissioning phase.
If there are some farmers that would like to continue with the process, then the farmers would like to see an external Environmental Control Officer from within every farmers' union region. Is that a requirement that will come with the EA or can it be included as part of the Environmental Management Programme?		It is possible to add some recommendations, but SLR cannot necessarily commit to that as a person with such expertise may not be available in that region.
How often is the water around the wells normally tested and what is the radius?		From some of our auditing and sampling & monitoring experience this is usually undertaken monthly. The radius comes down to the recommendations by the geohydrologists.
Is it possible to see the Geohydrological report before the scoping report is submitted to the authorities?		Yes, however it depends on when the geohydrological report will become available. The environmental scoping report will likely include a geohydrological baseline by the geohydrologist, which will

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		be sourced by undertaking a hydro census on site which details the water quality and quantity etc.
Will the geohydrological report have sufficient risk and impacts set out?		As part of the Environmental Impact Assessment phase reports, not the scoping, yes.
Security is a measure issue. The farmers experience stock theft in the area and people who work on projects like these usually inform criminals to come and steal. So what security measures will be put in place?		ROGESA would work with the community to ensure the security in the area is maintained.
Is it possible to issue a police security clearance for all the employees?		Yes, ROGESA can speak to Torque Africa about this.
What will prevent the water table from draining into the ground next to the casing?		The cement used for the wells is different from normal cement, the cement is very liquid and is able to go into the pores of the well. The more it progresses into the pores, the more it sets. The geology also prevents the water from draining downwards and physics says that the pressure would force the water upwards.
How much gas will be left in the reservoir after the project is completed and will this gas not move upwards and cause a risk of water and soil contamination?		Gas has pressure, so when you extract gas you decrease the pressure at the bottom of the well and thus at the top of the well too. This results in the well reaching equilibrium and thus the stop of the flow of gas.
Will some of the biological processes not continue to give gas?		ROGESA is hoping that is the case because if there's a continuous production of gas hopefully it will keep a relative pressure and this will produce for 150 years.
The drilling of 15 holes was mentioned now, but I previously read 40. Please clarify.	Ben	The EA we've asked for is for 40 wells, however ROGESA will initially drill 15 wells and dependent on the outcome of those wells, more wells will be drilled.
How long will the exploration process take after you have been granted the EA? A 2-year period was mentioned.		The government gives you 2 years to accomplish your exploration work. If you get to the end of the 2 years and still need more time to explore, then you need to provide a motivation as to why and request another 2 years. In the South African legislation, you get an initial 3-year period and 3 2-year renewal periods to explore. ROGESA has gone through their first 3-year period and is now

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		applying for their first 2-year renewal period, and we will have the option of 2 more thereafter, provided we receive the EAs to do so. Hypothetically, ROGESA could drill 15 wells in 3 months, analyse the results in 2 months and if the results are favourable more wells would be drilled over a year and eventually we would apply for a production right. A 300-days EIA would then need to be undertaken to convert from an Exploration Right to a Production Right. So we are looking at 3-4 years at best.
What happened in Kwa-Zulu Natal Harrismith/Ladysmith, why did you stop exploring there?		There were two changes in the company, firstly the company got new investors and the whole team got replaced. I (Travis Smithard) was a Geophysicist and then became director and I did not believe in the technical merit of that exploration, hence why we stopped in Kwa-Zulu Natal.
My biggest concern is water contamination, I've seen this happen in the DRC. Companies like ROGESA make empty promises to people telling them they will retire rich and then 5 years down the line the water is acidic and no one can use it, and the company has disappeared.		ROGESA understands your concern and we understand that for most people farming is not just commercial, but it's a heritage that is why we are doing our research to ensure that the well drilling is done according to the best international standards.
If the pressure is equalised down the well and you plug the well, what are the chances then of the gas leaching into the ground?	Johan Botha	The chances are very small. There are several ways to safely abandon the well. One being putting cement in the well which will infiltrate the cracks and because there is no pressure in the well against the cement, the cement will isolate everything. The other option is to do a chemical peel, which is basically using a jelly-like substance to plug the permeable pores/pathways which the gas would escape, this would block the porosity and permeability.
If the pressure is equalised, will the gas not rise post closure as well?		No, because the pressure is in equilibrium.
Can the presentation be shared with us?	Benita Norman	Yes, the presentation will be put up onto the SLR website.
Who owns Rhino?	Kristie Prinsloo	It is a total of 8 people from the USA, UK and South Africa. Unfortunately, not more information about the investors can be disclosed at this point.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
Will Geotechnical studies be undertaken?	Benita Norman	ROGESA is looking at a 3-month programme for the exploration, if
		there's a geotechnical risk we identify or that you're particularly
		concerned with let us know and ROGESA and SLR will look into it.

APPENDIX 2: ATTENDANCE REGISTER

Name	Interest / Village	Postal Address	Contact Details

APPENDIX 3: MEETING PRESENTATION



1. Introductions

- · Independent Facilitator:
 - Antoinette Pietersen
- Applicant Rhino Oil and Gas Exploration South Africa (Pty) Ltd (ROGESA):
 - Travis Smithard (Director)
 - Gilles Pantanacce (Engineering Manager)
- Environment Assessment Practitioner (EAP) SLR Consulting (Pty) Ltd:
 - Theo Wicks (Project Manager ER 294)
 - Nicholas Arnott (Project Manager ER 318)
 - Gugu Dhlamini (Project Assistant)

2



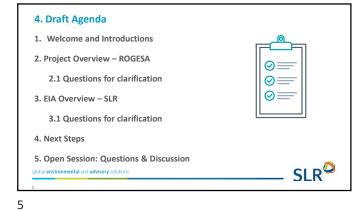
2. Health and Safety • Emergency procedure: Building Safety Instructions • Ablutions (Mens and Ladies Toilets) SLR

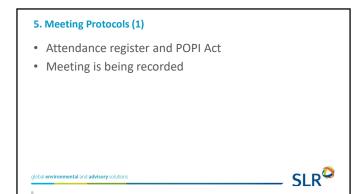
3. Meeting Objectives

- For Applicant and EAP to provide an introduction to:
 - the proposed project
 - $\boldsymbol{-}$ the EIA and public participation process to be undertaken during the application for Environmental Authorisation.
- For Interested and/or Affected Parties (I&APs) to:
 - Engage and ask questions, raise issues of concern, or contribute comments about the proposed project, potential environmental or social risks and the $% \left(1\right) =\left(1\right) \left(1\right$ EIA process.



3





5. Meeting Protocols (2)

- Flow of meeting:
 - Presentations: approximately 20 25 minutes each
 - Questions and discussion session after all presentations
 - Meeting duration: approximately 2 hours
- Proceedings of the meeting will be included in Draft Scoping Report (to be posted to SLR's website and data free website, when available).

global environmental and advisory solution



6. Constructive Discussion Guidelines

Public consultation is **NOT** a voting or consensus-driven process, rather a process of collecting input for purpose of enabling decision-maker to consider issues and impacts.

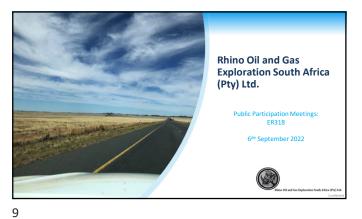
- 1. Raise your hand to comment or ask a question and work through the facilitator.
- 2. Identify yourself (name, surname and organization).
- 3. Respect one another.
- $4. \quad \hbox{Focus on the issue, not the person. Agree to disagree}.$
- 5. One question at a time. Ask questions concisely.
- 6. Please turn your cell phones on silent.

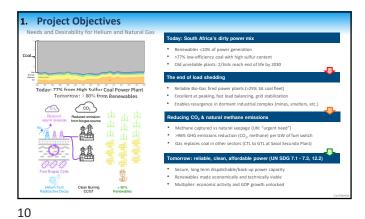
global environmental and advisory solutions



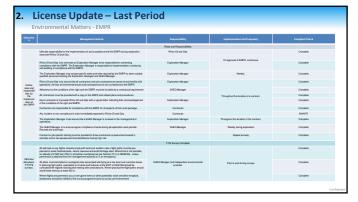
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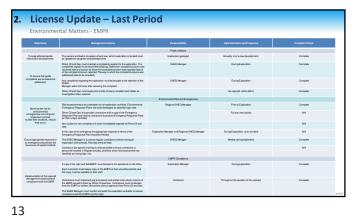
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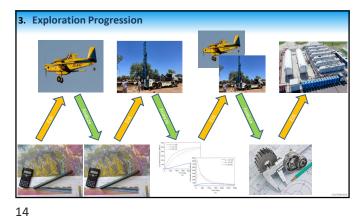


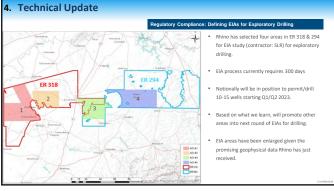


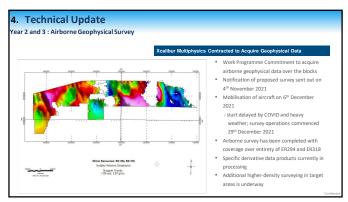
	Project Objectives
	Renewal Application (MPRDA – Section 81)
81. (1)	Any holder of an exploration right who wishes to apply to the Minister for the renewal of an exploration right must lodge the application—
	ne office of the designated agency;
	he prescribed manner; and
(c) tog	ether with the prescribed non-refundable application fee.
(2) An	application for renewal of an exploration right must—
(a) stat	e the reasons and period for which the renewal is required;
(b) be	accompanied by a detailed report reflecting the exploration results, the interpretation thereof and the exploration expenditure incurred;
	accompanied by a report reflecting the extent of compliance with the requirements of the approved environmental management programme,
	abilitation to be completed and the estimated cost thereof; and
(d) inc	lude a detailed exploration work programme for the renewal period.
	e Minister must grant the renewal of an exploration right if the application complies with subsections (1) and (2) and the holder of the exploration right
	nplied with the—
	ns and conditions of the exploration right is not in contravention of any relevant provision of this Act or any other law;
	doration work programme; and uirements of the approved environmental management programme.
(c) req	urrements of the approved environmental management programme.
(4) An	exploration right may be renewed for a maximum of three periods not exceeding two years each.
	exploration in respect of which an application for renewal has been lodged shall, notwithstanding its expiry date, remain in force until such time as such tion has been granted or refused.

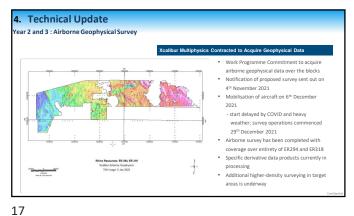


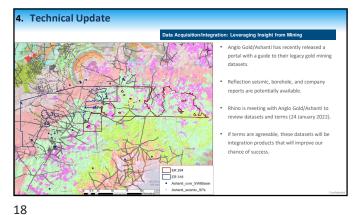




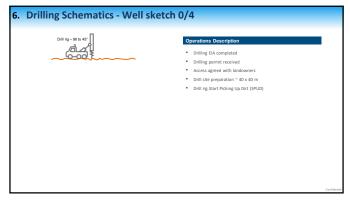


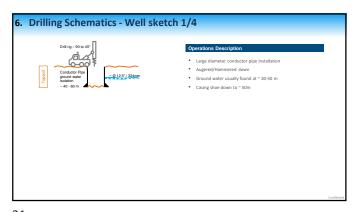


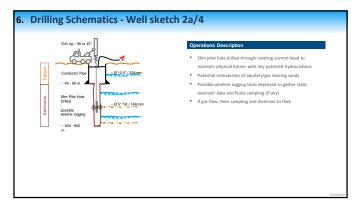


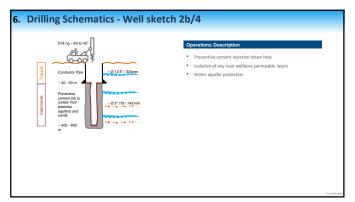


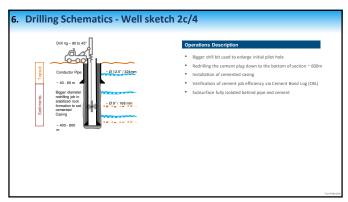




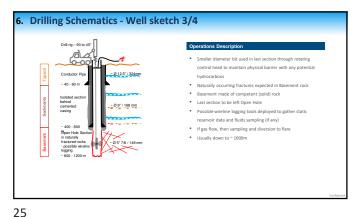


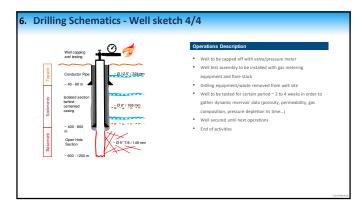


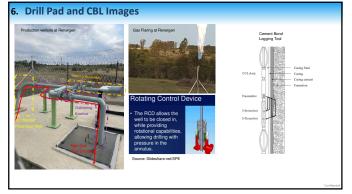




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Scoping and EIA

• Each ER requires a distinct Scoping and EIA process

• The EIA process is undertaken to gather information to inform an authority decision on the Environmental Authorisation by:

- identifying potential risks and benefits on the environment,

• through consultation with landowners and stakeholders

- assessing the significance of potential impacts (++ and --),

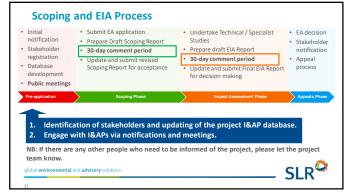
• with inputs from specialist studies

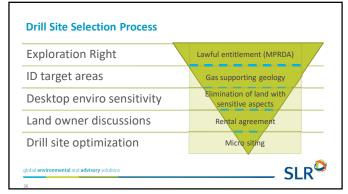
- identifying measures to prevent or mitigate impacts, should the project be approved.

• The EIA Report includes an Environmental Management programme (EMPr)

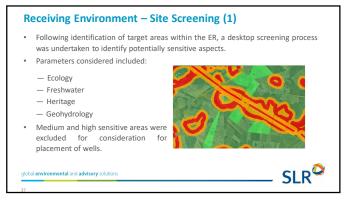
• The EIA process and timeframes are defined in the EIA Regulations 2014 (as amended)

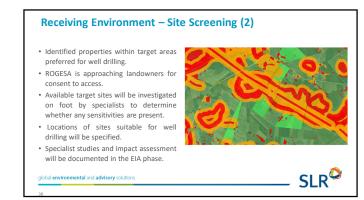
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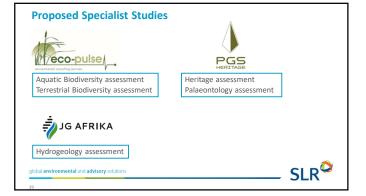




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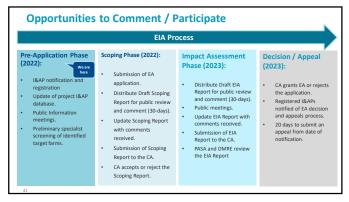




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Next Steps Minutes of meetings to be compiled. I&APS to: contact SLR for information and / or documents. submit comments / questions / issues to SLR. All registered I&APs (by completing meeting attendance register) will be notified of the next round of public participation — e.g. availability of Draft Scoping Report for review and comment. Documents will be made available in hard copy and posted to SLR's website and data free website, when available.

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Reminder: Constructive discussion guidelines

Public consultation is NOT a voting or consensus-driven process, rather a process of collecting input for purpose of enabling decision-maker to consider issues and impacts.

1. Raise your hand to comment or ask a question and work through the facilitator(s).

2. Identify yourself, name and surname and organisation.

3. Respect one another.

4. Focus on the issue, not the person. Agree to disagree.

5. One question at a time. Ask questions concisely.

6. Please turn your cell phones on silent.

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Key Issues – Need & Desirability

1. Global concern of the need to reduce carbon emissions

2. Rapid transition to net zero presents a potential risk to economic growth

3. Current policies acknowledge that natural gas is required in the JUST TRANSITION to net carbon zero by 2050

4. It is SA government policy to use gas in the energy mix in the transition and to explore and develop indigenous gas resources

5. These national strategic policy issues relating to energy and climate change and how South Africa uses fossil fuels fall beyond the scope of the EIA

6. In making a decision, DMRE will need to weigh up:

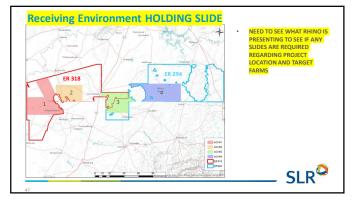
— Current relational strategic policies and the transition to net carbon zero

— Need for a stable electricity supply and economic growth

— Current relatince of liquid floel imports versus the use of a local resource

— Potential impacts and risks associated with the proposed project

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APPENDIX 3.7:

CORRESPONDENCE RECEIVED DURING THE PRE-APPLICATION PUBLIC PARTICIPATION PROCESS

1. PRE-APPLICATION PHASE COMMENT PERIOD

1.1 Pre-Application Comments and Responses Report

No.	Organisation and Contact Person	Method and Date of communication	Comment	Response
1.	John Adamson	Email 22 August 2022	I am out of the office. Please forward your email to Tyron.Good @Citibearings.co.za.	Email was forwarded to the given email address.
2.	Nicolien Kok	Email 22 August 2022	Ek is vanaf 1 Februarie 2022 nie meer by BVSA nie Stuur asseblief jou navraag aan die volgende persone: Bloemfontein / Kathu / Kuruman / Upington ("Sentraal") area Jou kontak persoon is Christina De Jager by christinad@bvsa.ltd / 051 430 5299, of maak kontak met jou takbestuurder Gauteng area Jou kontak persoon is Amelia Retief by ameliar@bvsa.ltd / 012 348 2150, of maak kontak met jou takbestuurder BVSA takke Jou kontak persoon is Rene Wuis by renew@bvsa.ltd / 083 280 0868, of	Email was forwarded to the given email address.
3.	Willem Naude	Email 22 August 2022	maak kontak met jou takbestuurder. I am no longer with the company please contact:	Email was forwarded to the given email address.

			Danie Nel danien@interwaste.co.za	
			Michael McAllister michaelm@interwaste.co.za	
4.	Louw & Mia Deale	Email 22 August 2022	Please note that we have changed our e-mail address, our new e-mail address is Louw@dealeboerdery.com Any new e-mails should be sent to the new e-mail address and not the old e-mail address.	Email was forwarded to the given email address.
5.	Landowner Johan Botha	Phone call 23 August 2022	I have received an SMS notification about Rhino Oil and Gas commencing with an application for the Environmental Authorisation for the well drilling in the Exploration Right area. I am one of the landowners and wanted to find out if other landowners and surrounding/adjacent landowners have been notified of the project and the planned public meetings? May I forward the received SMS to our Farmers WhatsApp group to raise awareness of the planned public meeting? When will specialists be headed to site to undertake their various investigations? Please kindly advise all landowners so access can be granted/ Is there a generic EMP for drilling projects such as this proposed Rhino project?	All landowners and adjacent/surrounding landowners whose contact details Rhino Oil & Gas Exploration South Africa (ROGESA) and SLR were able to source have been notified about the proposed project and planned public meetings. On-going efforts are being made to source more contact information and notify more landowners and adjacent landowners. Yes, you may. We are currently in the pre-application phase. Specialists will go to site during the Scoping phase. All relevant landowners will be notified and contacted when specialists go to site. As part of the Environmental Impact Assessment process, SLR will develop a project and site-specific Environmental Management programme.
6.	Transnet	Email	Trust you are well.	Thank you for your correspondence.
	Andre Bodenstein	23 August 2022	To enable this office to conduct accurate investigation and to provide detailed comments it will assist us greatly if you could provide me with a dwg/ dxf/ shp file of the two areas of interest (area 3 & area 4).	For reference, I have attached the requested areas of interest/target areas here.
				Please not that these are being circulated for Transnet's information purposes only.
				With the identification of drilling sites being subject to a sensitivity analysis, we would like to include any Transnet infrastructure (along with an recommended buffer) into this analysis. If this information

7.	SAHRA Sityhilelo Ngcatsha	Email 23 August 2022	Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: http://sahra.org.za/sahris/. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions. Please create an application on SAHRIS and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 24(4)b(iii) of NEMA and section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA. Once all documents including all appendices are uploaded to the case application, please ensure that the status of the case is changed from DRAFT to SUBMITTED. Please ensure that all documents produced as part of the EA process are submitted as part of the application.	could be shared in a spatial format (.shp or .kml) with us, along with your recommended buffer it would greatly appreciated. Please do not hesitate to contact us should you require any further information. Thank you for your email. This email serves to notify you that an application on SAHRIS has been created for the project and the initial document pertaining to the Environmental Authorisation Process (i.e. the Background Information Document) has been uploaded onto SAHRIS. All documents produced as part of the EA process will be continuously submitted onto SAHRIS. The case ID for the project is 19394.
			Please contact Sityhilelo Ngcatsha for any queries	
8.	MENAR Sarah Wanless	Email 25 August 2022	I hope you are keeping well. Please can you provide me with all information available for the aforementioned project.	A project Background Information Document was sent.

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9.	Transnet Andre Bodenstein	Email 29 August 2022	I enquired with my head office, and I am instructed to request a formal letter of request from your organisation signed by the head of department, where the information is requested.	As per request, please find attached Request Letter for data and Background Information Documents (ER294 and ER318) for reference.
10.	Landowner Johan Botha	Email 29 August 2022	We spoke on the phone last week about the Rhino Oil and Gas 12/3/294 exploration project near Steynsrus. I am however one of the landowners but I want to make sure I am on your I&AP list. If you can please add my wife, Marelie Botha, to the list I would appreciate it. Her contact details are:	Your email is acknowledged. You and your wife will be registered on the project's stakeholder database and, as such, will be notified and kept informed of future stakeholder engagements for this project. Please find attached previous EIA report for Rhino ER 294.
			Marelie Botha marelie@donaway.co.za Cell: 082 493 5166	
			Can I please ask you to send me the old reports of the project? You can share a Dropbox folder with me as well, it might be easier as to try and email larger files.	
11.	Rhino Heritage Park Twin Mosia	Letter via email 30 August 2022	I am a cultural, heritage and environmental activist from Mamafubedu, Petrus Steyn, I am also a curator at Elandskop Museum. Please register our organisation as an interested & affected party (I&AP) so that we may get information and notifications via email. We would also like to be involved in all your Aquatic &Terrestrial Biodiversity and Heritage assessments in Petrus Steyn/ Mamafubedu. You must be aware that Petrus Steyn/Mamafubedu celebrates 110 Years in October, one of the curatorial research subject was who were the first inhabitants of Mamafubedu before Petrus Steyn whom the town is named after, arrived in the 1850's around the Basotho Wars. Centuries before this, Mamafubedu as it was called by Dihoja and Basotho, was an important cultural hub! The assessments and finding	Your email below is acknowledged. You will be registered on the project's stakeholder database and, as such, you will be notified and kept informed of future stakeholder engagements for this project. As a registered I&AP you will be afforded the opportunity to review the reports including the Aquatic & Terrestrial Biodiversity Assessment Report and the Heritage Assessment Report during the Scoping phase. While your request to meet in Petrus Steyn is noted, Rhino Oil and Gas South Africa is currently focusing their exploration areas closer to Steynsrus and Edenville, hence hosting our planned meeting closer to these areas.

			thus will be very important and form part of our museum/library archives. We also believe one of the meeting could have taken place in Petrus Steyn since it covers most of the land to be explored. Nonetheless, we are looking forward to working with you.	
12.	NRA Ria Barkhuizen	Email 31 August 2022	Please forward your application to SANRAL Eastern Region erstatutory@nra.co.za, as this falls under their jurisdiction.	Email was forwarded to the given email address.
13.	Mangaung Municipality Boniswa Taju	Email 05 September 2022	Kindly send these communiques to our Environmental Management GM @Lebogang Lekhu or manager @Mpolokeng M.H. Ramongalo for assistance.	Email was forwarded to the given email addresses.
14.	(Department of Environmental Affairs on behalf of the Thabo Mofutsanyane District Municipality) Lifu Mofokeng	Phone call 06 September 2022	I received an email yesterday informing me that there will be public meetings held for the Rhino project, I unfortunately will not be able to attend either, but may I still partake in the public participation process? Does the project area fall under the Thabo Mofutsanyane District Municipality?	Yes, you may. The public meetings serve as pre-application consultation, however interested and/or affected parties will be afforded the opportunity to raise comments, issues or concerns regarding the proposed project throughout the Scoping and Environmental Impact Assessment phase. Yes, some of the 294 Exploration Right Area falls under the Thabo Mofutsanyane District Municipality.
15.	Jasper Cornelis Van der Bilj	SMS 06 September 2022	URL does not want to open	Thank you for your reply. Please can you send your email to RhinoER294@slrconsulting.com. We will send you further information via email.
16.	Sawukazi	WhatsApp 06 September 2022	I wanted to attend your briefing session today but couldn't make it. So, I was wondering if I can be briefed via email.	Thank you for making contact. Please find attached a Background Information Document with information about the project. A copy of the presentation has been made available on the website (www.slrconsulting.com/en/public-documents/Rhino-well-ER294). Minutes of the meeting will also be made available in due course.

17.	Nairobi Trust Johan Taljaard	Email 07 September 2022	Kindly provide us with a more detailed map for the area surrounding Reitz as we are unsure from the locality map provide (Figure 1: ER294) whether the farms owned by the Nairobi Trust fall within the ER boundary and target area. Kindly acknowledge receipt of this submission and kindly confirm that the Nairobi Trust has been registered as an I&AP. We look forward to receiving your response.	To confirm, you've been included in our I&AP database and will be notified and kept informed of future stakeholder engagements for this project. For your reference we've included the attached map. Please let us know if you need any more information.
18.	Eliz Bester	Email 09 September 2022	I wish to become an interested and affected party.	Your email is acknowledged. You will be registered on the project's stakeholder database and, as such, you will be notified and kept informed of future stakeholder engagements for this project.
19	Eliz Bester	Email 12 September 2022	Thank you for your response. If I have any issues regarding future developments, how can I address them?	Any issues, comments or concerns you may have with the proposed project can be shared with SLR via email. These will then be incorporated into a Comments and Response Report (CRR) and be responded to either by SLR, Rhino Oil and Gas or an applicable project specialist. The CRR will form part of the Scoping Report and will be made available for review and/or comment in the Scoping phase.
20.	Transnet Andre Bodenstein	Email 14 September 2022	Your written request to receive Transnet Cadastral information is acknowledged. Herewith attached is a Conditions of Use letter which requires your acknowledgement and after competition and receipt back from you I will forward the requested data as well as the appropriate buffer distance that should be applied next to all Transnet land and infrastructure.	Signed conditions of use letter was sent.
21.	Transnet Andre Bodenstein	Email 16 September 2022	Hi lan, Thanks for the mail below. Theo, please see questions below from Transnet Rail network. Will you please respond to lan Lombard regarding these. This will determine the buffer that should be applied alongside all Transnet properties and activities.	Thank for the Transnet cadastral data. Currently Rhino Oil and Gas is to avoid drilling alongside any infrastructure. Initiatively, a buffer of 100 m is to be applied to all infrastructure. For further details please refer to the project description in Chapter 5 of the Scoping Report.

22.	Transnet	Email	In the meantime, herewith also please receive the Transnet cadastral data that you requested. Regards Just a few questions:-	Thank for the Transnet cadastral data.
22.	Mohamed Jogiat	16 September 2022	Diameter of the hole they intend drilling Will the hole be filled with bentonite or slurry to ensure that there is no hole collapse or water filling How long will the drilling take place? Is it a continuous drill or will they be doing it in stages? How many holes do they intend digging underneath the railway line? Kind Regards	Currently Rhino Oil and Gas is to avoid drilling alongside any infrastructure. Initiatively, a buffer of 100 m is to be applied to all infrastructure. For further details please refer to the project description in Chapter 5 of the Scoping Report.
23.	Landowner Benita Norman	Email 16 September 2022	Following the public participation meeting held last week Wednesday, 07 September, at Steynsrus, I would like to request the documentation, as requested on the day: - Meeting minutes - Rhino Presentation - SLR Presentation Thank you in advance. Kind regards, Benita	Thanks for your feedback, The minutes from the meeting are currently being compiled. Apologies for the delay as we are busy compiling these for x4 meetings. The Rhino and SLR presentations are available for download from the SLR page at: ROGESA - Proposed Exploration Well Drilling in Targeted Areas of Interest in the Free State Province (294 ER) (slrconsulting.com)
24.	Benita Norman	Email 16 September 2022	Please advise the date till when we have to make commitments and add questions following the meeting?	Any issues, comments or concerns you may have with the proposed project can be shared with SLR throughout the Scoping & Environmental Phases of the project. These will be incorporated into a Comments and Response Report (CRR) which will form part of the Scoping report and Environmental Impact Assessment report. Each of

			Also, please may I request to be added to the mailing list for all future communication. In addition, please could you add my parents to the list as well, their email address is: xtralinkptyltd@gmail.com	these reports will then, during their respective phases, be made available for a 30-day public review and comment period. All Interested and/or Affected Parties registered on the project database will be notified when the reports are available for review and comment and when the review and comment periods end for each phase (i.e. the Scoping phase and the EIA phase). You and your parents have been added to the project database and, as such, you will be notified and kept informed of future stakeholder engagements for this project.
25.	Federation for a sustainable environment Mariette Lieferink	Letter via email 19 September 2022	PRELIMINARY COMMENTS ON RHINO OIL AND GAS EXPLORATION SOUTH AFRICA (PTY) LTD BACKGORUND INFORMATION DOCUMENT PROPOSED EXPLORATION WELL DRILLING WITHIN TWO TARGET AREAS WITHIN ER 294, FREE STATE PROVINCE 1. INTRODUCTION The following preliminary comments are submitted on behalf of the Federation for a Sustainable Environment. The FSE's main objective is the realisation of Section 24 of the Constitution of the Republic of South Africa. The FSE is a member of a number of governmental and academic task teams, steering and advisory committees and forums. 2. DESCRIPTION OF THE ACTIVITY IN TERMS OF THE BID We infer from the Background Information Document (BID) that the Application will involve inter alia: • The establishment of a drill site camp • 40 exploration wells • The pumping of cement down the drill string to the bottom	Thank you for your email and comments with regards to the proposed project. These comments will be included in the draft Scoping Report, which will be released for review and comment later this year.

- A wellbore which will be displaced with "an industrial water" and which will be encased by cement
- The pumping of drilling fluids down the inside of the drill pipe
- Please advise whether the drilling fluid which will be used will be bentonite mud.
- Potential hydrocarbons or water inflow as a result of the penetration by the well
- The testing of recovered hydrocarbons by sending it to a flare boom with burner

The impact of gas flaring is of local and international concern. The efficiency of flares can be dependent on several factors like composition of the flare stream, flow rate of flare gases, wind velocity, ambient turbulence, presence of hydrocarbon droplets in the flare stream and presence of water droplets in the flare stream. Please advise which mitigation measures will be implemented to ensure the that the flare is not defective in order to prevent the flare from spewing hydrocarbons into the atmosphere.

The risks of hydrocarbons are well documented.

- The installation of a flare pit
- The risks of the flare pit to the environment ought to be assessed.
- We furthermore infer from the BID that:
- The exploration falls within the Karoo Basin
- The exploration area has a high erosion hazard
- There are numerous wetlands
- The Vaal Dam traverses Target Area 7 of the project area

- The impact of the proposed activity on the Vaal Dam, which supplies water to Gauteng, ought to be assessed.
- Groundwater is used for domestic/municipal and agricultural purposes
- The land use is commercial agriculture
- The impacts of the proposed activity on commercial agriculture (water availability and quality) ought to be assessed.
- The project area has a very high fossil sensitivity

3. IDENTIFICATION OF THE PROCESS

Whilst IAPs were informed by the EAP during the public participation meeting that the Application is not for hydraulic fracturing (fracking), it is the FSE's understanding that the process will be analogous to the process used for hydraulic fracturing, which involves the injection of water containing fracking fluids and particulate materials into deep cement encased boreholes to create sufficient pressure to cause fracturing of rocks at the level that the gas resource occurs, in order to stimulate the release of gas from the rocks.

Please advise how the proposed process differs from the process for fracking.

4. GEOGRAPHIC AMBIT OF THE KAROO BASIN

The project area falls within the Karoo Basin. The Karoo Basin is an area hosting a treasure trove of archaeological and paleontological remnants providing a window to eons gone by — an insight to not only the origins of humankind but the earth itself. It follows hence that if the exploration yields positive results, that it will result in shale gas extraction and production. The ancillary activities will include new

roads, pipelines, infrastructure, etc. which will have a significant impact on the Karoo Basin.

The impacts of the exploration activities as the precursor to the exploration, namely shale extraction and production, on the archaeological and paleontological remnants ought to be assessed during the EIA phase to determine whether the exploration/shale extraction and production is the Best Environmental Option for the area and the optimal land use for the area.

 POTENTIAL IMPACT ON GROUNDWATER (WATER AVAILABILITY AND QUALITY)

The Karoo Basin is geologically different from equivalent shale formations elsewhere in the world in that it contains extensive dolerite intrusions and is thus unique. We consider it relevant to here refer to the academic treatise of G van Tonder, titled "Potential impacts of fracking on groundwater in the Karoo basin of South Africa" (Institute for Groundwater Studies, University of the Fee State, Bloemfontein, South Africa):

"A wild card that only exists in the karoo basin of South Africa is the numerous dolerite intrusions. [This is] associated with relative high yielding boreholes because of the fractured contact aureole that exist between solid dolerite and the adjacent Karoo sediments [This implies] that any pollutant will always try to migrate upwards in the Karoo...[T]his research clearly shows[s] that fracking in South Africa cannot be ddone in the same way that it is currently done worldwide."

The availability of surface water within the Karoo Basin is limited with the majority of rivers being ephemeral. This makes groundwater the

most important source of water used within the project area, not only for agricultural use but also for domestic and municipal use.

The potential impact of the project on the "water resource" of affected landowners and lawful occupiers of the land, and not on merely on the 'water" ought to be assessed. It should be noted that the National Water Act 36 of 1998 does not define "water" but rather the much broader term, "water resources" as the Act takes account of the full hydrological cycle in its integrated approach to water management. The phrase "water resource" is accordingly defined as a "water course, surface, water, estuary or aquifer or any other underground collection of water".

The introduction of the additional stress in the aquifer within the project area could damage the aquifer and boreholes permanently if not managed properly. It is necessary for the EAP to identify the aquifers within the project area and the risks to the aquifers as a result of the exploration activities.

It is furthermore necessary for the EAP to demonstrate how the waste will be managed during the exploration activities, namely the (a) drilling mud, (b) the "industrial water", (c) the drilling fluids.

We furthermore call upon the EAP to demonstrate the wells' integrity and that there will be no aquifer contamination by the wells penetrating the aquifer or by the migration of fluids into the well and/or aquifers.

There are currently uncertainties regarding oil and gas extraction activities (from exploration to vertical resources delineation wells to appraisal wells) and knowledge gaps specific to groundwater systems and the interaction between surface and groundwater. In the light thereof, a risk averse and cautious approach must be applied in the application under consideration. The principles of environmental management set out in section 2(4) of the National Environmental Management Act, 107 of 1998 (NEMA) indicate, inter alia, that

sustainable development requires a risk averse and cautious approach, which takes into account the limits of current knowledge about the consequences of decisions and actions.	
6. CONCLUSION We reserve the right to augment our preliminary comments. Kindly confirm receipt of this document.	
SUBMITTED BY: Mariette Liefferink. CEO: FEDERATION FOR A SUSTAINABLE ENVIRONMENT. 19 September 2022.	

1.2 Record of Edenville Issues Raised and Responses Given

Issue Raised	By Whom	Response (given by ROGESA or SLR)
What happened to Matthew Hemming?	Thomas	Matthew is part of SLR.
Who is in control of White River Exploration? Who or what are they?	Anonymous	Honestly, ROGESA thought they are out of the area. We have their blocks now as of July.
Who is financing Rhino?	Thomas	ROGESA has 8 UK investors in an investor SPV. They invest in projects all over the place. They are known in the ESG world.
Why is Rhino using SLR for this project? Is there a reason?		The reason ROGESA uses SLR is because SLR understands the process well and has a big database of people and we can effectively reach out to potential I&APs

Issue Raised	By Whom	Response (given by ROGESA or SLR)
Is Rhino BBBEE registered?	Anonymous	No, ROGESA is still busy with its due diligence. It is a legislative requirement that we get a BBBEE partner. We need to make sure we work with the correct company.
If you aren't BBBEE registered, what gives Rhino the right of exploration?	Anonymous	When you get issued an exploration right, you have that right. The law says you usually have 2 - 3 years to find a BBBEE partner for that right. ROGESA is busy with this process.
If you find a sustainable source of gas, where will the gas be stored? Where will the pipeline be placed?	Johan Slabbert	At the moment you all know Renergen. They stated abstracting gas and also get helium. They are the first company in South Africa to obtain a production right to abstract gas. Their plant is now online. ROGESA uses another method to abstract gas. My colleague will later in the presentation show you how our process works.
At what stage of the process must Rhino obtain a BBBEE partner?		At the moment the law says that ROGESA must get a BBBEE partner round about here. We are aware the law is changing so we are not sure. Our lawyers are to confirm if we must do it at production or still during exploration.
From which country will the BBBEE partner come from?		As ROGESA understands, it must be a South African company. As soon as we know, we will place the information in the public domain.
What if one of the target boreholes are in the middle of my wildlife camp with endangered species? What happens then?	Johan Brumeris	Then ROGES will not drill on your farm – it is as easy as that. We need permission from you as the farm owner to drill on your farm. There is a lot of land here we can access.
Is Rhino Oil and Gas an International Company?	Anonymous	Rhino head office sits in Luxembourg. The subsidiary company is a South African company.
How deep is the gas, or how deep will Rhino drill?	Anonymous	Up to 800m.
What is the width of the pipe and the thickness of the cement casing? The ground moves, so what impact will it have on the cement casing? Will it crack and leak gas into the groundwater?	Anonymous	The biggest is 12.5 inches in diameter. Then you completely close it with cement. You then drill through the cement. Then you repeat at 10 inches, 7,5 inches and end at 4 inches. That is up to 3.5 inches of cement between steel. Should something crack, ROGESA will

Issue Raised	By Whom	Response (given by ROGESA or SLR)
		immediately notice it. We will then close the borehole, killing the hole rather than continuing.
I am concerned about groundwater pollution due to gases and poisons. What guarantee do we have that pollution will not take place, especially years after the borehole has been closed? Who will pay for the clean-up of the pollution?	Anonymous	ROGESA uses steel, which is scarce in South Africa, with cement which is not like your typical cement. The steel has tensile strength, so won't crack easily.
Is fracking involved?	Anonymous	Not at all. It is like drilling a borehole, but ROGESA woll go deeper and use better technology.
How many boreholes has Torque Africa drilled?	Anonymous	Torque Africa has drilled ~1000 boreholes. They have 20 borehole machines and have drilled 200 holes for Renergen recently to a far better standard than some 40 boreholes previously drilled for Renergen by another company. ROGESA really did Its research to use the correct company.
If you find gas, will the borehole structure remain in place for production, or will new boreholes be drilled for production?	Alwyn Laas	The reason so much steel and cement will be used is that, should ROGESA find gas, we can then use that hole for production. We start with a big budget, so we do not need to drill again later.
How many boreholes will be drilled should a sustainable source of gas be found for production?		It depends. If ROGESA finds gas within sandstone, in the industry we call it a conventional reservoir. That whole 3 -4 km² can be accessed with one borehole. If it is a crack like Renergen, they drill a borehole every 0.5 – 1.5 km. The one farm Smaldeel Anglo drilled a borehole every 400m. ROGESA obviously hopes to drill in Sandstone.
Does the gas compressor require electricity?	M. Visser	It generates its own electricity using the gas that is present.
Should production commence, how many litres of gas per borehole will be produced?	Anonymous	It depends. Renergen has drilled holes producing 200 litre per day, as well as some that produce 5000 litre per day.
How deep does your drill go?	Anonymous	Up to 800m.
Won't you drill with mud? Can you guarantee you won't drill with mud?	Anonymous	ROGESA prefers to drill with air pressure. If we have to use mud, we close the cracks with mud then gas will not enter the borehole.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
		It will not be useable. The only reason we would use mud is to make the borehole safe, for example if the end of the borehole breaks apart, we pump in cement which seals the hole. The mud stabilises that part of the borehole. Usually, it is exceptionally tare for water to be found at 700m. The pressure at 700m on the hole is far higher than at for example 400m.
Should you use mud, what will you do with it when it comes out the hole?	Anonymous	It will be taken away to a toxic waste site. When using mud there are three main additives. Two are classified as non-hazardous and the other is classified as moderate hazard. This will be detailed in the EIA.
If you abstract gas in large volumes, won't it create / cause empty caverns underground?	Alwyn Laas	That is the thing with gas, you can compress it a lot. It is not like air. If you pull out air the crack will close. With gas it is at such pressure, those cracks are already almost closed, but the gas comes out due to the pressure.
The biggest risk is the sustainability of groundwater.	Anonymous	That is why ROGESA is proposing to develop these expensive boreholes rather than for example open boreholes. It protects the groundwater from gas and the borehole from the water. To be honest, if gas is in the water, once you pump it out, the gas immediately starts to come out of the water. That is how gas works.
What types of gasses are found in the area?	Anonymous	ROGESA has data from Allanridge near Kroonstad. Up to 95% of it is methane gas, argon of 1-2 % and helium of 2 – 10 % and nitrogen. It is very clean gas.
Are any of the natural gasses adverse to the area / groundwater?	Anonymous	Helium and argon are inert gases. Nitrogen is in the atmosphere. Methane we just explained.
Should you have a production facility, will people stay there? How many will stay there?	Kassie	The station will likely be remote. There will be 2-3 persons who will work on the station.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
		Construction requires about 50 persons. Maybe 3 -5 persons for special maintenance
Should there be production, who will build and maintain the roads for the gas trucks?	Anonymous	ROGESA will make sure that the truck has a good quality access route. As farmers we understand your concern regarding dirt roads.
How will security be managed at such a gas production site? I am concerned of the impact on security of landowners and that such a project will bring unwanted elements to the farms.	Anonymous	ROGESA has been thinking about that. We are looking at drones with a control room. We will have a set of drones which will go onsite which will have a loudspeaker to chase away persons. Drones these days have a 20 – 30-minute flying time. These days drones can automatically track someone. There is no need for someone to control the drone. The drone will follow someone, tell them they are intruding and then if battery runs empty, it will be replaced by another drone, so you have a rolling train of drones following the person to where he lives, then a security team can go to his house. This will probably happen one time until the community becomes aware this is how the system works. The drones can also patrol then come back to site. This can be set to random times, so will not be able to time when drones come.
When you are working on farms, it is important to follow farm protocol.	Anonymous	Absolutely.
Does Rhino have insurance for fires?	Anonymous	Yes, ROGESA does have insurance in place before any drilling work is undertaken.
How long before exploration will specialists come to do their studies?	Anonymous	Likely this year with drilling only taking place later next year. This will form part of my EIA process.
How will we know who the specialists are and that they are who they say they are?	Anonymous	The best way forward is if SLR introduces them to myself (Travis Smithard), then I take my own bakkie and introduce them to you.
Give the farmers advance notice before specialists come.	Anonymous	ROGESA will do so. A weeks' notice is doable.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
Can the micro-sites details be shared with us? The lack of information regarding the microsites causes insecurity with farmers.	Anonymous	ROGESA would rather not do that for two reasons. Firstly, ROGESA needs to get the consent from the farmers it has already spoken to, to see that they are happy it is known. Secondly, as a company that is our proprietary information. We have spent millions to gather information to tell us where we think is good value for gas. We don't want to share that with the general public if that makes sense.
Can Rhino sell their company and rights to another company?	Krause	ROGESA is a company, so honestly if a big company like Sasol wants to buy us, there is always the possibility. Personally (Travis Smithard), I would like to stay on this project through its entirety. What I can say is that our investors do need the money. We aren't like the fly by night companies to hope to sell to bigger companies.
Can we trust Rhino? Is it not a fly by night smoke screen?		No, ROGESA's new investors do not believe there is oil. We are looking for gas.
Does the EIA consider the microenvironment? This is a conservation area for Sungazer Lizards.	Ben	Very much so. That is why we have the project team here with reptile specialists which will come in. For example, Sungazer Lizards areas are well understood as to where they could be. A team will go look and confirm if they are there and whether the area is right for them. It is a huge area, so we are very risk averse and will exclude sensitive areas.
If Rhino is sold or goes bankrupt, how will it affect the farmers which have an agreement in place with Rhino?	Anonymous	Firstly, if there is a contract and the company gets bought out, those contracts are still applicable or must be renegotiated with the landowner.
Will the contracts with farmers be changed should Rhino be bought by another company? Will the contracts be changed?	Anonymous	If the new company comes, ROGESA can place in the contract that they can only change the contract to be the same or better.
The maps are not clear. Please send detailed maps.	Anonymous	Absolutely.
What is the likelihood that sustainable gas reserves will be discovered?	Anonymous	That is the reason why ROGESA is here, to drill the holes and find out. The reality is we can drill fifteen boreholes and find no gas.

Issue Raised	By Whom	Response (given by ROGESA or SLR)
Where did the plane fly when it did the electromagnetic and gravimetric flyover for Rhino?	Anonymous	So, ROGESA did the regional flyover. ROGESA also did a high-density survey. The original was 200m, but the high density is 50m width for these four areas. ROGESA is not allowed to fly outside our exploration footprint.
Is the aerial survey better technology than the ground seismic studies done with trucks?	Anonymous	The reason why ROGESA does not do seismic surveys is that there is enough information we can purchase for cheaper than redoing it. We only flew with the plane. Should we need to do seismic surveys, that would be another EIA process.
What benefits are there for landowners due to the project?	Anonymous	Everything is on the table. It would be a business contract between ROGESA and the landowners. It is your farm, your land.
You will only drill? No underground dynamite explosions or hydro-fracking will occur?	Anonymous	Yes, drilling only. ROGESA will never use fracking within South Africa. We even wrote a letter to FS Agriculture on this.
Can I refuse that you drill on my farm?	Anonymous	Of course.

1.3 Record of Steynsrus Issues Raised and Responses Given

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
Do you use mud during the drilling process?	Ben	Air drilling is the primary method of drilling that will be used, however should the drillers experience difficulties with the geology at deeper depths then there is a possibility of using mud drilling, however this is unlikely and is only considered a secondary/alternative approach.
How will the well be kept from not caving in?		Firstly, good rock structure would ensure that the well does not cave in. Secondly, air drilling also ensures that the well does not cave in.
How deep will you be drilling?		This will be dependent on where exactly drilling will happen, typically the depth is between 400m -800m. A further 200m – 300m

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		can be drilled. So, a maximum depth of approximately 1200 m may be drilled.
Should mud drilling be used, will the mud not come into contact with the groundwater resulting in contamination?		ROGESA understands the hydraulic sensitivity of the zone and that water is a key issue and are therefore cognisant of this. The additives used by Torque Africa for the Renergen drilling included fully biodegradable foam. In the event that mud drilling is undertaken, the Material Safety Data Sheet (MSDS) will be made available.
I assume there will be no financial gain for gas extraction for the farmers. Will the government receive all financial gain?	Boy Simon	No. ROGESA will enter into a contract with the land owners to agree on the land rental amount.
If ROGESA starts drilling and cementing and later decides to leave the area, who will then be responsible for pollution prevention once you've left?	JSL Nagel	Once the well is closed, it is sealed completely with cement. If the cement cracks, all the rocks will also crack and gas leak.
What will happen if as a landowner I don't give consent for drilling on my farm?		Then ROGESA will not drill on your farm and go somewhere else.
Would ROGESA be able to get gas off my property even if they drill on my neighbour's farm?		Technically this is unlikely due to the depth of the resource. It would unlikely be possible to reach the gas via a neighbourly property.
How would groundwater be rehabilitated in case of contamination?	Ben	ROGESA does not currently have the technical response to the question. The geohydrologist team would be able to answer at a later stage.
What gases will ROGESA be looking for during drilling?		Natural gas has been documented in Edenville, Bothaville and Petrus Steyn. ROGESA is expecting to find 91-97% of methane, with the remaining 3% being Argon, Helium and Nitrogen. The natural gas is very clean but comes from biogenic sources.
In the event of a major accident resulting in methane being released into the groundwater and thus making the groundwater acidic, how will ROGESA rehabilitate the water?		Your assumption is that the gas will enter the water table, however this is untrue as natural gas will go to the surface, this is pure

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		Physics – natural gas always goes to the lowest pressure point, which will be the surface.
		Should this unlikely scenario however occur, the technical solution would be to cement the entire well to patch the fractures. If this option does not work, then ROGESA will redrill parallel to the damaged well at a bigger diameter and remedy it by milling the well and cementing it to close it.
		A more technical solution to this would be to drill a water producer well that is purposely designed to pump the water from the gas filled aquifer. You can do this very quickly and early, because drilling that well would take less than a week. You then pump the water that has the gas to the surface, and remove the gas, thereafter you drill another well which would redirect the clean water back to the ground.
I understand that, however that will take 4-6 weeks. Lots of damage/contamination would be taking place during then. How will the groundwater be rehabilitated?		There are over 30 000 boreholes that have been drilled in the Free State, by farmers and mines. If it was as bad as you're saying, then the entire Free State would have a big issue.
Who is the owner and director of ROGESA?	Gerald Hendriks	Travis Smithard is the director of ROGESA in South Africa. There are various shareholders from America and the UK.
I am also worried about the drilling activities' impacts on my farm, even if you drill on my neighbour's farm.		The Environmental Impact Assessment will consider the highly sensitive/high-risk areas and Rhino may decide not to drill in these areas. Risk mitigation measures will also be considered for these areas.
What would there be in terms of benefits for the community if the exploration really finds a resource? If only one well is possible, what percentage (of profits) could be given to Steynsrus?	JSL Nagel	The answer to that centres around the real size of resources.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
What percentage can be given to uplift the community of Steynsrus, for a hospital or mall?	Annikie	ROGESA is unable to answer this question at this stage of the process.
How many people will be employed from inception of the plant to extraction?	JSL Nagel	If 20-40 wells are needed to operate then 2-3 people are needed to verify that the wells are working in order. About 5-10 people for operating and maintaining everything else. Therefore 10-20 people in total. The main employment will be indirect employment opportunities.
I would like to commend ROGESA for saying that they will go elsewhere should the landowners not give consent to drill on their farms.	Johan Botha	Noted.
Is it possible to exclude the title deeds from the PASA application for the farmers that are not interested/give consent to the proposed project?		ROGESA will have to check with PASA, but from our understanding we cannot relinquish individual farms in the Exploration Right Areas, the farms would have to be contiguous.
Will ROGESA sign an agreement with the farmers that no fracking will be taking place?		ROGESA has already sent out a letter of commitment to the farmers with Travis Smithard's (South African director) and the head director's signatures stating that no hydraulic fracking will be undertaken.
Does SLR know the risks involved that will be set out in the S&EIA?		Yes, the scope of assessment for the current exploration programme will be included in the Scoping Report.
Will there be compensation if there's pollution to the water resources?		There will be a financial liability assurance guarantee, which is available in different ways. This can be deposited into a trust account that is held by PASA or ROGESA can set up their own trust fund and set the money aside in that trust for rehabilitation. Thaat total amount is worked out on a particular calculation.
When the project is decommissioned, what will the monitoring process and requirements be and for how long? Thereafter, what will happen if something goes wrong after decommissioning?		The fund is there for ROGESA to draw from until rehabilitation is completed and has been signed off. The drilled well will be plugged completely with cement and thereafter the geohydrologists, as part of the impact assessment, will identify where ROGESA will

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
		have to drill monitoring wells and will then set up a monitoring programme which will stipulate recommendations on the frequency and duration the monitoring should take place. This could be anything between 2-5 years after decommissioning.
Does the landowner have any say about the monitoring requirements following decommissioning?		Absolutely. That would go into the EMPr and if the landowner feels that the stipulated requirements are inadequate then it can be amended. Secondly, it becomes a relationship factor between ROGESA and landowners, more than it is a legal requirement factor.
Where will the landowner claim if ROGESA is nowhere to be found following the decommissioning?		The law makes provision to say that despite ROGESA walking away after closure, if they have caused any harm, they are obliged to fix it. This would fall under the Duty of Care provisions.
		In terms of money, an Escrow account which needs 2 signatories to ensure that the funds are used appropriately will be set up. The second signatory would likely be a Community Liaison Officer on behalf of the farmers. Furthermore, an auditor will likely also be appointed to audit the site post decommissioning and if there are still any problems even post decommissioning then money can be taken from the escrow account to remedy that. The EMPr will determine how long the funds exist post decommissioning. Furthermore, a formal closure process will be followed by the Department of Mineral Resources and Energy (DMRE) after the decommissioning phase.
If there are some farmers that would like to continue with the process, then the farmers would like to see an external Environmental Control Officer from within every farmers' union region. Is that a requirement that will come with the EA or can it be included as part of the Environmental Management Programme?		It is possible to add some recommendations, but SLR cannot necessarily commit to that as a person with such expertise may not be available in that region.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
How often is the water around the wells normally tested and what is the radius?		From some of our auditing and sampling & monitoring experience this is usually undertaken monthly. The radius comes down to the recommendations by the geohydrologists.
Is it possible to see the Geohydrological report before the scoping report is submitted to the authorities?		Yes, however it depends on when the geohydrological report will become available. The environmental scoping report will likely include a geohydrological baseline by the geohydrologist, which will be sourced by undertaking a hydro census on site which details the water quality and quantity etc.
Will the geohydrological report have sufficient risk and impacts set out?		As part of the Environmental Impact Assessment phase reports, not the scoping, yes.
Security is a measure issue. The farmers experience stock theft in the area and people who work on projects like these usually inform criminals to come and steal. So what security measures will be put in place?		ROGESA would work with the community to ensure the security in the area is maintained.
Is it possible to issue a police security clearance for all the employees?		Yes, ROGESA can speak to Torque Africa about this.
What will prevent the water table from draining into the ground next to the casing?		The cement used for the wells is different from normal cement, the cement is very liquid and is able to go into the pores of the well. The more it progresses into the pores, the more it sets. The geology also prevents the water from draining downwards and physics says that the pressure would force the water upwards.
How much gas will be left in the reservoir after the project is completed and will this gas not move upwards and cause a risk of water and soil contamination?		Gas has pressure, so when you extract gas you decrease the pressure at the bottom of the well and thus at the top of the well too. This results in the well reaching equilibrium and thus the stop of the flow of gas.
Will some of the biological processes not continue to give gas?		ROGESA is hoping that is the case because if there's a continuous production of gas hopefully it will keep a relative pressure and this will produce for 150 years.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
The drilling of 15 holes was mentioned now, but I previously read 40. Please clarify.	Ben	The EA we've asked for is for 40 wells, however ROGESA will initially drill 15 wells and dependent on the outcome of those wells, more wells will be drilled.
How long will the exploration process take after you have been granted the EA? A 2-year period was mentioned.		The government gives you 2 years to accomplish your exploration work. If you get to the end of the 2 years and still need more time to explore, then you need to provide a motivation as to why and request another 2 years. In the South African legislation, you get an initial 3-year period and 3 2-year renewal periods to explore. ROGESA has gone through their first 3-year period and is now applying for their first 2-year renewal period, and we will have the option of 2 more thereafter, provided we receive the EAs to do so. Hypothetically, ROGESA could drill 15 wells in 3 months, analyse the results in 2 months and if the results are favourable more wells would be drilled over a year and eventually we would apply for a production right. A 300-days EIA would then need to be undertaken to convert from an Exploration Right to a Production Right. So we are looking at 3-4 years at best.
What happened in Kwa-Zulu Natal Harrismith/Ladysmith, why did you stop exploring there?		There were two changes in the company, firstly the company got new investors and the whole team got replaced. I (Travis Smithard) was a Geophysicist and then became director and I did not believe in the technical merit of that exploration, hence why we stopped in Kwa-Zulu Natal.
My biggest concern is water contamination, I've seen this happen in the DRC. Companies like ROGESA make empty promises to people telling them they will retire rich and then 5 years down the line the water is acidic and no one can use it, and the company has disappeared.		ROGESA understands your concern and we understand that for most people farming is not just commercial, but it's a heritage that is why we are doing our research to ensure that the well drilling is done according to the best international standards.

Issue Raised	By Whom	Response (given by ROGESA or SLR unless stated otherwise)
If the pressure is equalised down the well and you plug the well, what are the chances then of the gas leaching into the ground?	Johan Botha	The chances are very small. There are several ways to safely abandon the well. One being putting cement in the well which will infiltrate the cracks and because there is no pressure in the well against the cement, the cement will isolate everything. The other option is to do a chemical peel, which is basically using a jelly-like substance to plug the permeable pores/pathways which the gas would escape, this would block the porosity and permeability.
If the pressure is equalised, will the gas not rise post closure as well?		No, because the pressure is in equilibrium.
Can the presentation be shared with us?	Benita Norman	Yes, the presentation will be put up onto the SLR website.
Who owns Rhino?	Kristie Prinsloo	It is a total of 8 people from the USA, UK and South Africa. Unfortunately, not more information about the investors can be disclosed at this point.
Will Geotechnical studies be undertaken?	Benita Norman	ROGESA is looking at a 3-month programme for the exploration, if there's a geotechnical risk we identify or that you're particularly concerned with let us know and ROGESA and SLR will look into it.