

GOVERNMENT OF ASSAM
ENVIRONMENT AND FOREST DEPARTMENT
DISPUR, GUWAHATI-6

ECF No. 238662/118

Dated Dispur, the 20th October, 2022

- To :** The Inspector General of Forest (Central),
 Government of India, Ministry of Environment, Forest & Climate Change,
 Integrated Regional Office, 4th Floor, Housefed Building,
 G.S Road, Rukminigaon, Guwahati-781022
- Sub :** Forest Diversion proposal for 4.125 ha of forest land for Oil and Gas Exploration,
 Development and production of Well pad no.29 in Nambor South Reserved Forest
 under Golaghat Division in favour of M/s Vedanta Limited (Division Cairn Oil& Gas)
- Ref :** Govt. of India Letter F. No. 3-AS B 106/2022-GHY/3065-66 dated 22.09.2022.

Sir,

In inviting a reference to the letter on the subject cited above, I am directed to enclose herewith a copy of letter No.FG.27/FCA/Proposal/Vedanta Ltd./Well Pad No.29/Golaghat Divn dated 19.10.2022 along with its enclosures as received from the CCF & NO (FC Act), O/o the PCCF & HoFF, Assam regarding clarification/justification of land requirement of 4.125 ha. in connection with the subject mentioned proposal for favour of your kind information and necessary action.

Yours faithfully,

Enclo: As stated above.

Signed by Indreswar
Kalita

Date: 20-10-2022 14:17:04

(I. Kalita, ACS)

Addl. Secretary to the Govt. of Assam
 Environment and Forest Department

Memo ECF No. 238662/118-A

Dated Dispur, the 20th October, 2022

Copy to:

The Principal Chief Conservator of Forests & HoFF, Assam, Panjabari, Guwahati-37.

(ESIGNED)

Addl. Secretary to the Govt. of Assam
 Environment and Forest Department

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: adlpcsf.nodal@gmail.com

No. FG.27/FCA/Proposal/Vedanta Ltd./Well Pad No.29/Golaghat Divn

Date: 19.10.2022

To,

The Additional Chief Secretary to the Government of Assam
Environment and Forest Department Dispur, Guwahati-6

Sub: **Forest diversion proposal of 4.125 Ha. forest land for Oil and Gas exploration, development and production of Well Pad No.29 in Nambor South Reserved Forest under Golaghat Division in favour of M/s Vedanta Limited (Diversion Cairn Oil & Gas).**

Ref: Government of India letter No. 3-AS B 106/2022- GHY/3102-3103 dated 11.10.2022.

Sir,

With reference to the above, I am enclosing herewith a letter No. AA-1/FC/29/15 dated 13.10.2022 along with its enclosures received from the Vedanta Ltd. regarding forest diversion proposal of 4.125 Ha. forest land for Oil and Gas exploration, development and production of Well Pad No.29 in Nambor South Reserved Forest under Golaghat Division in favour of M/s Vedanta Limited (Diversion Cairn Oil & Gas).

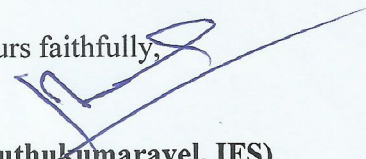
The User Agency (M/s Vedanta Limited) has stated that they had already submitted the justification of land requirement of 4.125 Ha. at the time of submission of proposal (copy enclosed). In continuation of the same the following additional clarification/justification for requirement of land 4.125 Ha for Well Pad# 29

- 1) Commercially viable discovery of hydrocarbon is highly anticipated at this drill site. (Well Pad#29).
- 2) Drill ready prospect associated with this located (well pad# 29) is relatively small structural closure (four way), where multiple wells have been envisaged from the same surface location to reduce the necessity of multiple surface location (i.e. additional land requirement in future) and for the same multiple caller pits need to be constructed within same surface area and hence the area requirement is more.
- 3) Setting-up of surface facilities (e.g., installation of surface facility/GGS, storage of Crude Oil, etc.) is also anticipated at this location (Within the well pad).

The above-mentioned information may kindly be send to the Government of India, MoEF&CC, Integrated Regional Office, Guwahati accordingly.

Encl: As stated above.

Yours faithfully,


(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

dlc

Copy to:

1. The Inspector General of Forest (Central), Government of India, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, 4th Floor, Housefed Building, G.S Road, Rukminigaon, Guwahati-781022 for kind information.
2. The Sr. Manager- Environment, M/s Vedanta Limited (Diversion Cairn Oil & Gas), DLF Phase-2, DLF City, Gurgaon, Haryana-122002 for information.

dlc



Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Date: 13.10.2022

Ref No: AA-1/FC/29/15

Chief Conservator of Forest & Nodal Officer (FC Act) Assam,
Office of the Principal Chief Conservator of Forest &
Head of Forest Forces, Assam
Aranya Bhawan, Panjabari,
Guwahati – 781037, Assam

Sub: Proposal for diversion of 4.125 ha. Of forest land for Oil and Gas Exploration, Development, and Production in Well Pad No 29 in Nambor Reserved Forest under Golaghat Division in favour of M/s Vedanta Limited – Submission of additional details/justification- regd.

Ref.: 1. FC Proposal No. FP/AS/MIN/44361/2020
2. Our submission to IRO, letter No. AA-1/FC/29/14 dtd 26.09.2022 (enclosed)
3. Communication from the office of IRO, State Government, letter No. 3-AS B 106/2022-GHY/3102-3103 dtd 11.10.2022 (enclosed)

Dear Sir,

This has reference to the above-mentioned proposal for diversion of forest land. In this regard, as a part of FC application, we have already submitted the justification (copy enclosed as Annexure-1 for your reference) of land requirement of 4.125 ha. at the time of submission of proposal. In continuation of the same, we would also like to submit the following additional clarification/justifications just for requirement of land of 4.125 ha. for the Well Pad # 29, for your kind consideration and persual:

- I. Commercially viable discovery of hydrocarbon is highly anticipated at this drill site. (Well Pad #29)
- II. Drill ready prospect associated with this location (well pad # 29) is relatively small structural closure (fourway), where multiple wells have been envisaged from the same surface location to reduce the necessity of multiple surface locations (i.e., Additional land requirement in future) and for the same multiple celler pits need to be constructed within same surface area and hence the area requirement is more.
- III. Setting-up of surface facilities (e.g., installation of surface facility/GGS, storage of Crude Oil, etc.) is also anticipated at this location (within the wellpad).

In view of the above, it is humbly requested you to kindly grant FC so that Exploaration Drilling activities could be taken up.

Thanking You

For Vedanta Ltd. (Div.: Cairn Oil & Gas)



Dilip Kumar Bera
DGM -Environment

Enclosure: As above

VEDANTA LIMITED

Cairn Oil & Gas: ASF Center Tower A, 362-363, Jwala Mill Road, Phase IV, Udyog Vihar, Sector 18, Gurugram - 122016, Haryana, India
T +91 124 459 3000 | F +91 124 414 5612 | www.cairnindia.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai - 400093, Maharashtra, India | T +91 22 664 34500 | F +91 22 664 34530 | www.vedantalimited.com

CIN: LI3209MH1965PLC291394

Sensitivity: Internal (C3)

Justification of Project located in the Forest Land

Vedanta Ltd. (Division Cairn Oil & Gas) has been allocated hydro-carbon Block namely AA-ONHP-2017/1 (715 sq. km) by the Government of India under the Revenue Sharing Contract (RSC) for exploration and exploitation of hydrocarbon. A Revenue Sharing Contract (RSC) was signed between the Government of India (GoI) and Vedanta Ltd on 1st October 2018. Vedanta Limited (Division- Cairn Oil and Gas) is currently contributing to more than 20 percent of India's current crude oil production. The hydrocarbon Block is located in Golaghat and Karbi Anglong of Assam & Wokha district of Nagaland

Vedanta Limited (Division Cairn Oil and Gas) proposes to carry out exploration and appraisal well drilling and early production of oil and gas in the Block. In case of a discovery (ies), the exploratory and appraisal well(s) would be tested for an extended duration by flowing hydrocarbons to ascertain the reservoir parameters and assess the quality and commercial viability. The exploratory and appraisal wells would be drilled to explore the reservoirs in the range of 1750m to 5000m.

The proposed well Pad No. 29 is located in the village: Christian Basti, Subdivision: Dhansiri in Golaghat district, Assam. The Well pad is located within the Nambar South Reserve forest. The location of the proposed well Pad has been decided after due consideration and interpretation of all geoscientific data. Around 4.125 Ha of forest land will be required for the drilling activities.

Based on the preliminary technical study with available geoscientific data & operational feasibility, Vedanta Ltd.(Division: Oil and Gas) expects that the hydrocarbon Block AA-ONHP-2017/1 offers a tenable cost-benefit scenario for carrying out the exploration activities and this would also boost the local economy.

Thanking you.

For Vedanta Limited (Division:Cairn Oil and Gas)


Dilip Kumar Bera
DGM- Environment



VEDANTA LIMITED

(Formerly known as Sesa Sterlite Limited)

Cairn Oil & Gas : DLF Atria, Phase 2, Jacaranda Marg, DLF City, Gurugram-122002, Haryana, India
T +91-124 459 3000 F +91-124 414 5612 | www.cairnindia.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai-400093, Maharashtra, India | T +91-22 664 34500 | F +91-22 664 34530 | www.vedantalimited.com

CIN: L13209MH1965PLC291394



Cairn Oil & Gas

Form 1 Technical Justification for Well Site

Block-AA-ONHP-2017/1- Well 29



Block: AA-ONHP-2017/1



REVENUE SHARING CONTRACT

BETWEEN

THE GOVERNMENT OF INDIA

AND

VEDANTA LIMITED

UNDER

HYDROCARBON EXPLORATION AND LICENSING
POLICY

WITH RESPECT TO CONTRACT AREA IDENTIFIED

AS BLOCK

AA-ONHP-2017/1

*Chitra K.K. Aolaw
US(IEU), MOPNG*

*Shashi
(Shashir Mathur)
Vedanta Limited*

*Sanjit Banerjee
26/4*

REVENUE SHARING CONTRACT FOR ONLAND AREAS

1st October

This Contract made on this 1st October, Two thousand and Eighteen between:
The President of India, acting through the Joint Secretary (E) Ministry of Petroleum
and Natural Gas (hereinafter referred to as "the Government") of the FIRST PART;

AND

Vedanta Limited, a company incorporated under the laws of India (hereinafter referred to
as "Vedanta" or "Contractor") having its registered office at 1st Floor, C wing, Unit 103,
Corporate Avenue Atul Projects, Chakala, Andheri (East) Mumbai, Mumbai City
Maharashtra-400093 India which expression shall include its successors and such assigns
as are permitted under Article 26 hereof, of the SECOND PART;

WITNESSETH:

WHEREAS

- (1) The Oilfields (Regulation and Development) Act, 1948 (53 of 1948) (hereinafter referred to as "the Act") and the Petroleum and Natural Gas Rules, 1959, made there under (hereinafter referred to as "the Rules") make provisions, inter alia, for the regulation of Petroleum Operations and grant of Licenses and Leases for exploration, development and production of Petroleum in India;
- (2) The Rules provide for the grant of Licenses and Leases in respect of land vested in a State Government by that State Government with the previous approval of the Central Government;
- (3) Rule 5 of the Rules provides for an agreement between the Government and the Licensee or Lessee containing additional terms and conditions with respect to the License or Lease;
- (4) The Government desires that all types of Petroleum resources which may exist in India, whether within territorial waters (ultra-deep, deep or shallow water), exclusive economic zone, the continental shelf of India, or Onland, be discovered and exploited in accordance with Good International Petroleum Industry Practices (GIPIP) with utmost expedition in the overall interests of India;
- (5) The Government has formulated and approved a new exploration and licensing policy named 'Hydrocarbon Exploration and Licensing Policy' ("HELP") vide Resolution dated 30.03.2016, whereby it has been determined to provide a uniform license to enable E&P operators to explore and extract all hydrocarbon resources including conventional and unconventional oil and gas resources including CBM, Shale Gas/Oil, Tight Gas, Gas Hydrates and any other resource to be identified in future which fall within the definition of "Petroleum" and "Natural Gas" under the Rules;

Sanjit Banerjee

GOVERNMENT OF ASSAM
MINES AND MINERALS DEPARTMENT
DISPUR, GUWAHATI -6.

No.PEM.40/2019/129

Dated Dispur, the 7th Aug., 2019.

From : Secretary to the Government of Assam,
Mines and Minerals Department,
Dispur, Guwahati -6.

To : The Director Exploration
1st Floor, 'C' Wing Unit 103, Corporate
Avenue, Atul Projects, Chakala, Andheri
(East), Mumbai 400093, Maharashtra.

Sub : Grant of Petroleum Exploration License of Karbi Anglong and Golaghat
Districts in the Block AA-ONHP-2017/1 measuring 668.5 Sq. Km. to Vedanta
Ltd. in the State of Assam.

Ref : No. NIL dt. 18/10/2018.

Sir,

I am directed to say that the Government of Assam is pleased to grant Petroleum
Exploration License of Karbi Anglong and Golaghat Districts in the Block AA-ONHP-2017/1
measuring 668.5 Sq.Km. to Vedanta Ltd. in the State of Assam for 8 (eight) years from the date of
execution under rule 5(i) (ii) read with Rule 12 of the Petroleum & Natural Gas Rules 1959 (as
amended from time to time) in pursuance of Govt. of India's letter D.O. No. O-
12017(11)/25/2018-ONG-II Dt. 04/12/2018 conveying their approval for grant of Karbi Anglong
and Golaghat Districts PEL.

The grant of PEL is subject to the observance and conditions laid down in the
PEL Deed to be executed between the Govt. of Assam and Vedanta Ltd.

You are therefore, requested to fulfill all the conditions like Environment
clearance, Forest clearance, etc. as required before the execution of work.

The receipt of the letter may pleased be acknowledged.

Yours faithfully,

Sanjit Banerjee
Secretary to the Govt. of Assam
Mines & Minerals Department,
Dispur, Guwahati-6.

Dated Dispur, the 7th Aug., 2019.

Memo.No.PEM. 40/2019/129 -A

Copy forwarded for information and necessary action to :-

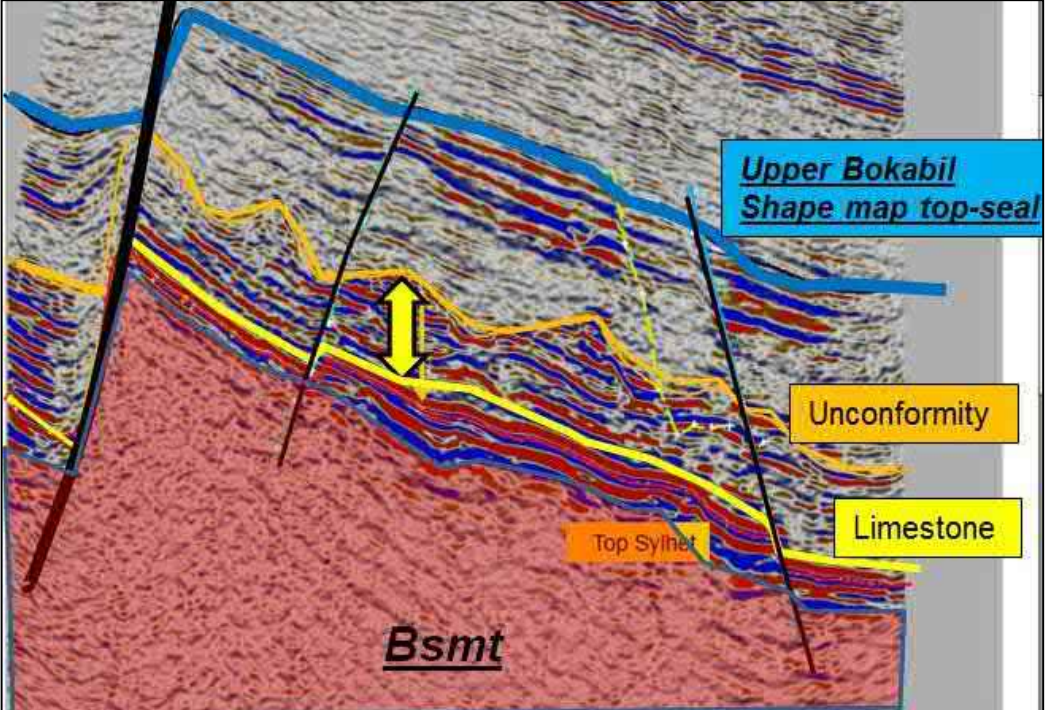
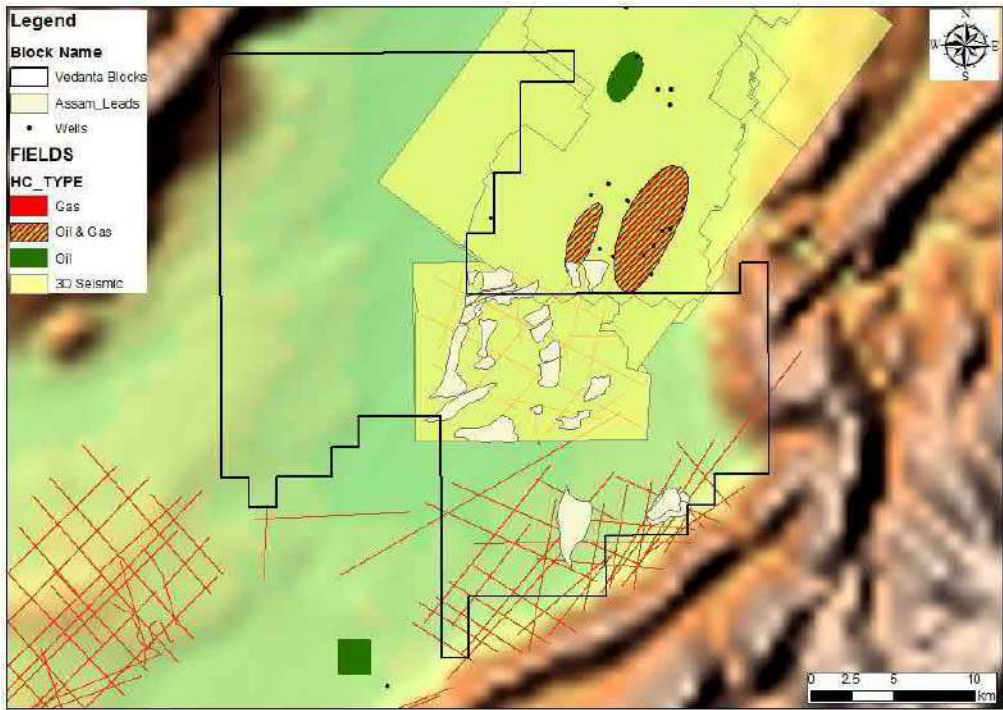
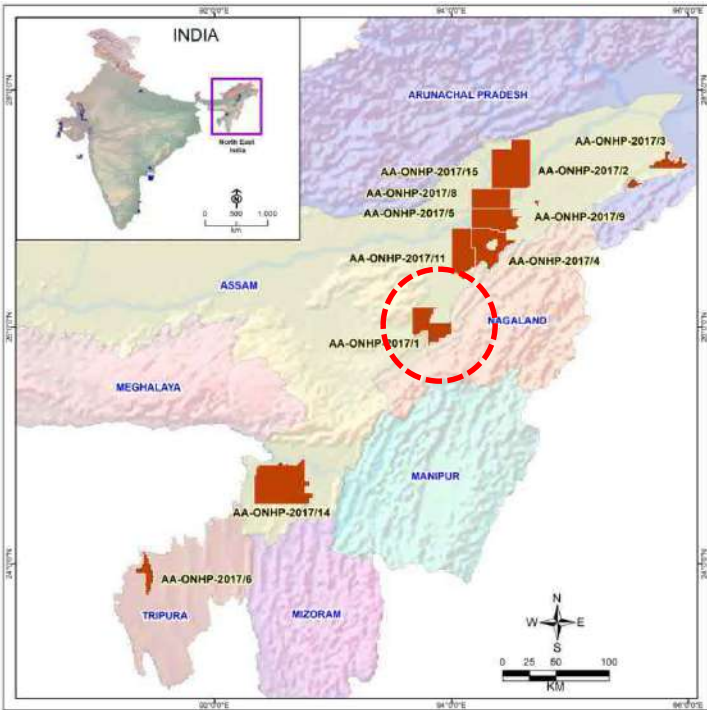
1. The Addl. HOD(HELP), Directorate General of Hydrocarbons, OIDB Bhawan, Tower-A, Plot No. 2, Sect. -73, Noida-201301.
2. The Joint Secretary to the Govt. of India, Ministry of Petroleum & Natural Gas, New Delhi-110001 Shastri Bhawan, with reference to his letter D.O. No.O-12017(11)/25/2018-ONG-II Dt. 04/12/2018.
3. The Director, Geology & Mining, Assam, Kahilipara, Guwahati-19. He is requested to prepare the draft PEL Deed and execute the same with Vedanta Ltd. in corporation and updating the relevant clauses of terms and condition as necessitated with recent development with intimation to this Department at an early date. This has the reference to his letter No.GM/MM/11/6704 dated 06/02/2019.
4. The Deputy Commissioner & Supdt. of Police, Karbi Anglong and Golaghat Districts, Assam.
5. The Principal Chief Conservator of Forest & Head of Forest Force, Aranya Bhawan, Panjabari, Ghy-37.

By order etc.

Sanjit Banerjee
Joint Secretary to the Govt. of Assam,
Mines & Minerals Department,
Dispur, Guwahati-6.



Block: AA-ONHP-2017/1: Committment



- Block Area - 715 sq. km
- Predominantly within Foreland area and partly in fold thrust belt
- Pm STOIP: 800 MMBOE
- Expected Fluid Type: Light Oil and Gas

- Opportunities
 - Play extension of adjacent Khoraghat and Nambar fields
 - Close vicinity to proven mature kitchen
 - Multiple stacked reservoirs, high chance of success
 - Proximity to existing infrastructure
 - Also huge upside potential for the area with sparse data
- Key success factors
 - Reservoir characterization
 - Seismic imaging

- Exploration Work Programme
- Wells: 12
 - Wells with Core: 12
 - 2D: 0 LKM
 - 3D: 715 sq. km

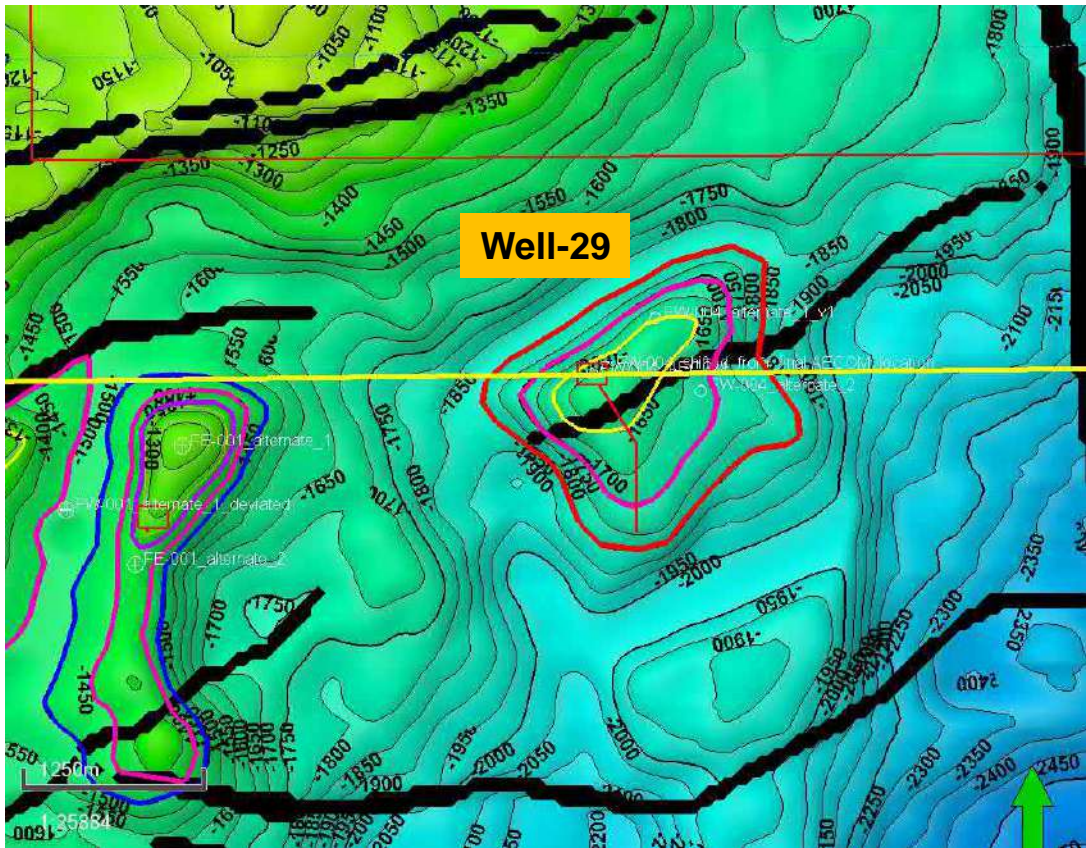
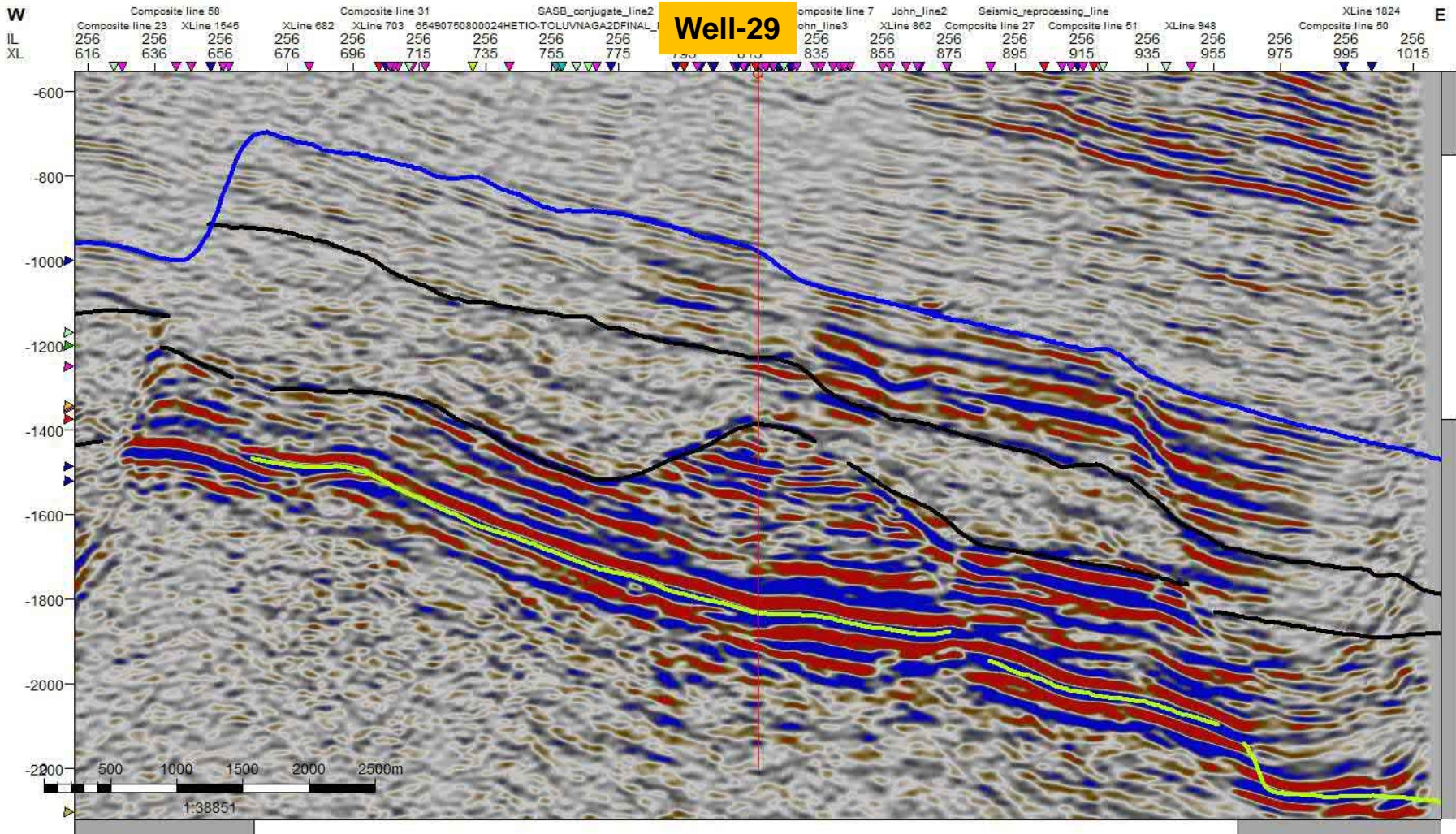
- Existing data coverage
- Seismic 3D: 2,300 sq.km
 - Seismic 2D: 670 LKM
 - Wells: 1



The map displays the geographical context of the study area. A red arrow points from the study area in the previous figure to this map. The map shows the state of Assam, India, with its international border with Nagaland to the east. The study area, Block-AA-ONHP-2017/1, is outlined in purple. Within this block, a hatched area represents the A299 region, where 3D seismic data was purchased from the National Data Repository (NDR). Several oil wells are marked with green dots and labeled: Well_28, Well_21, Well_29, Well_22, Well_14, Well_20, and Well_12. The map includes a north arrow in the top right corner and a scale bar in the bottom right corner, indicating distances from 0 to 14 kilometers. The map is bounded by coordinates 93°42'0"E to 94°3'0"E and 25°51'0"N to 26°13'0"N.



Well-29: Seismic Section



Ref No: AA-1/FC/29/14

Date: 26/09/2022

The Inspector General of Forest (C)
Integrated Regional Office, Guwahati, MoEF&CC
4th Floor, Housefed building, GS Road, Rukmini gaon,
Guwahati – 781022, Assam

Subject: Proposal for diversion of 4.125 ha. of forest land for Oil and Gas exploration, development and production in Well Pad No.29 in Nambor Reserved Forest under Golaghat Division in favour of M/s Vedanta Limited. – Submission of additional details/ justification-regd.

Ref.: FC Proposal no. FP/AS/MIN/44361/2020

Dear Sir,

This has reference to the above-mentioned proposal for diversion of forest land. In this regard, as a part of FC application, we have already submitted the justification (copy enclosed as Annexure-1 for your reference) of land requirement of 4.125 ha. at the time of submission of proposal. In continuation of the same, we would also like to submit the following additional clarifications/ justifications for requirement of land of 4.125 ha. for the Well Pad # 29, for your kind consideration and perusal:

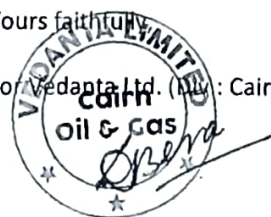
- I. Commercially viable discovery of hydrocarbon is highly anticipated at this drill site (Well Pad # 29).
- II. Drill ready prospect associated with this location (Well Pad # 29) is relatively small structural closure (fourway), where multiple wells have been envisaged from the same surface location to reduce the necessity of multiple surface locations (i.e., additional land requirement in future) & for the same multiple cellar pits need to be constructed within same surface area & hence the area requirement is more.
- III. Setting-up of surface facilities (e.g., installation of GGS, storage of crude oil, etc.) is also anticipated at this location (within the wellpad).

In view of the above, it is humbly requested you to kindly grant FC so that exploration drilling activities could be taken up.

Thanking You,

Yours faithfully,

For Vedanta Ltd. (M/s : Cairn Oil & Gas)



Dilip Kumar Bera
DGM- Environment

Enclosures: As above

VEDANTA LIMITED

Cairn Oil & Gas: ASF Center Tower A, 362-363, Jwala Mill Road, Phase IV, Udyog Vihar, Sector 18, Gurugram - 122016, Haryana, India
T +91 124 459 3000 | F +91 124 414 5612 | www.cairnindia.com

Registered Office: Vedanta Limited, 1st Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai - 400093, Maharashtra, India | T +91 22 664 34600 | F +91 22 664 34530 | www.vedantalimited.com

CIN: L13209MH1965PLC291394

Sensitivity: Internal (1/3)



भारत सरकार
Government of India
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate Change
 एकीकृत क्षेत्रीय कार्यालय, गुवाहाटी/Integrated Regional office, Guwahati
 चौथी मंजिल, हाउसफेड इमारत, जी एस रोड, रुक्मिणी गाँव, गुवाहाटी- 781022
 4th Floor, Housefed building, GS Road, Rukmini gaon, Guwahati -781022
 दूरभाष/Tel Fax: 0361-2330984, E-mail: iro.guwahati-mefcc@gov.in



No. 3-AS B 106/2022-GHY/3102 - 3103

11th October, 2022

सेवा मे,

अतिरिक्त प्रमुख सचिव/ Addl. Chief Secretary,
 पर्यावरण और वन विभाग/ Environment & Forest Department,
 असम सरकार/ Government of Assam,
 दिसपुर, गुवाहाटी-781006. / Dispur, Guwahati-781006.

Sub: Proposal is for diversion of 4.125 ha of forest land for **Oil and exploration development and production of well Pad No.29** in Nambar Reserved Forest under Golaghat Division in favour of M/s Vedanta Limited.

Ref: (i) Letter No. FRS 64/2022/98 dated 25.07.2022 of Govt of Assam.

Sir,

With reference to the subject and letter cited above, I am to inform that this instant proposal was submitted to Ministry for approval of the competent authority. However the file has been returned from Ministry with the following query:-

- (i) To clarify on the proposed excess plinth area i.e. 4 ha in this proposed diversion for the exploratory drilling of 1 (one) borehole of 26 inches diameter as in the similar proposal of the same user agency the plinth area proposed is only 2.4 ha.

State Govt is therefore requested to kindly furnish the above clarification for further processing of this proposal.

भवदीय,

(W. Longvah)

वन महानिरीक्षक (केंद्रीय)

Inspector General of Forests(C)

Copy to:

The Principal Chief Conservator of Forests & HoFF, Govt of Assam, Environment and Forest Department, Aranya Bhawan, Rop Konwar Jyoti Prasad, Agarwal Path, Near Srimanta Sankardev Kalakhetra, Panjabari, Guwahati-781037.

वन महानिरीक्षक (केंद्रीय)

Inspector General of Forests(C)

9/1