



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 (E.O.) MOPM*

*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;

Sum *AB*

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,

Signature
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 :-

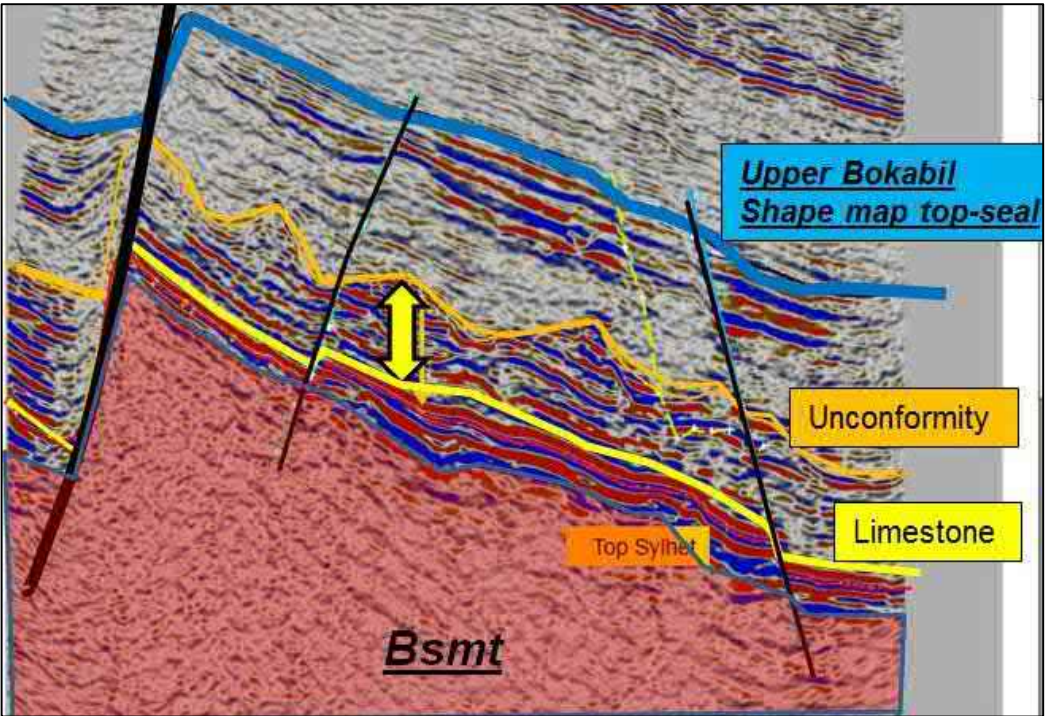
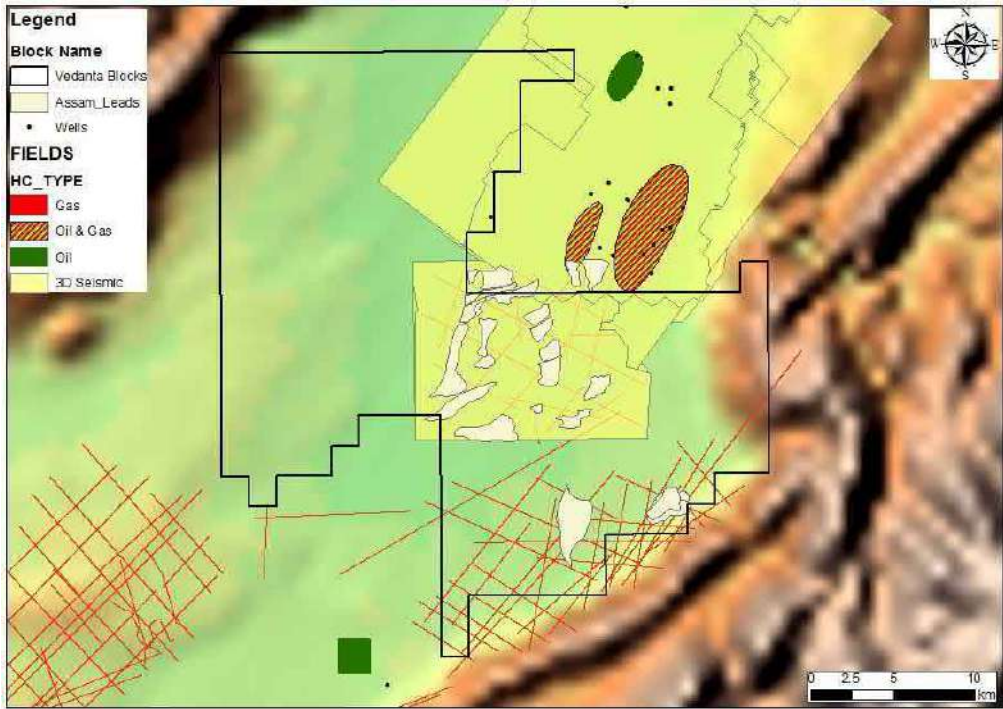
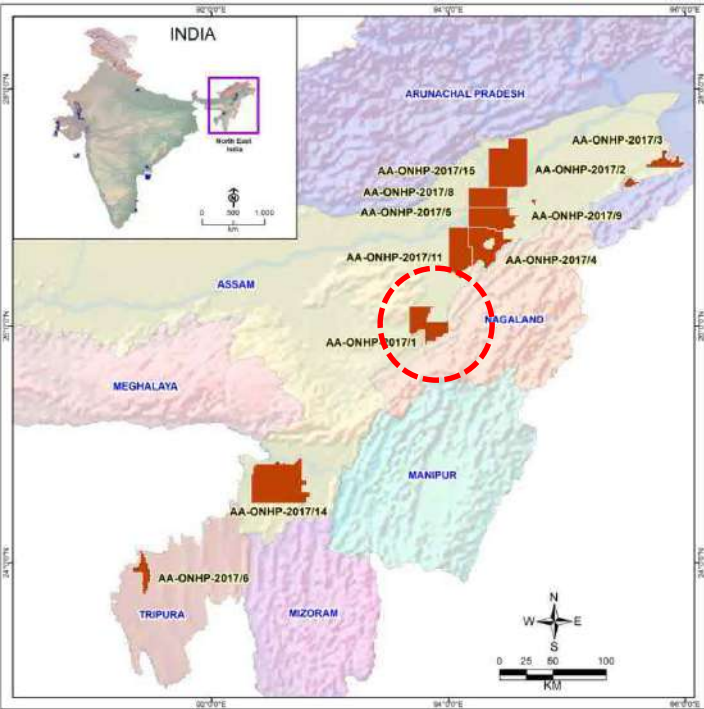
1. The Addl. HOD(HELP), Directorate General of Hydrocarbons, OIDB Bhawan, Tower-A, Plot No. 2, Sect. -73, Noida-201301.
2. The Joint Secretary to the Govt. of India, Ministry of Petroleum & Natural Gas, New Delhi-110001 Shastri Bhawan, with reference to his letter D.O. No.O-12017(11)/25/2018-ONG-II Dt. 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.

Signature
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 | Existing data coverage |
|----------------------------|---------------------------|
| ➤ Wells: 12 | ➤ Seismic 3D: 2,300 sq.km |
| ➤ Wells with Core: 12 | ➤ Seismic 2D: 670 LKM |
| ➤ 2D: 0 LKM | ➤ Wells: 1 |
| ➤ 3D: 715 sq. km | |



The map displays the geographical context of the study area. A purple outline delineates the 'Block-AA-ONHP-2017/1'. Within this block, a hatched area represents 'A299 (Purchased 3D seismic data from NDR)'. Green dots indicate the locations of 'FC_WELL' sites, specifically labeled as Well_12, Well_14, Well_22, Well_29, Well_20, Well_21, and Well_28. The map also shows the neighboring states of Assam and Nagaland. A red arrow points from the text 'Figure 1' to the map. A legend in the bottom right corner explains the symbols used. A scale bar indicates distances up to 14 km, and a north arrow is present in the top right corner. The map includes latitude and longitude coordinates along its borders.



Well-29: Seismic Section

