

Brief Summary of the Project

The Kharsang Oil Field (KOF) located in Changlang District in Arunachal Pradesh was discovered by Oil India Limited. Oil India drilled the first exploratory well Kharsang#1 in 1968 and the field was discovered in 1975. Regular production from Kharsang Oil Field commenced in 1983. Oil India drilled a total of 36 wells till 1995 and the total Field production was 265 barrels of Oil per day (BOPD) as of 1995.

In 1995, for further development of Oil and Gas Field, the Kharsang field was awarded by the Government of India (GoI), under Production Sharing Contract (PSC) dated 16th June 1995, to a Consortium comprising the below,

- Oil India Limited (40%)
- Jubilant Energy Kharsang Limited (25%)
- GeoPetrol International Inc. (25%)
- GeoEnpro Petroleum Limited (10%) (**Operator**)

GeoEnpro Petroleum was designated as the Operator of the KOF. At the time of take-over, the field had a total of 36 legacy wells drilled to depths ranging from 700 m to 3400 m along with related production facilities including Oil Collection Station (OCS), Custody Transfer Tank Farm (CTTF), pipelines etc.

After taking over the field from Oil India, the consortium has drilled additional 34 development wells in the field. At present, total well count at Kharsang Oil Field is 70 wells and present crude oil production is around 230 KL/day. GeoEnpro is presently carrying out the petroleum operations at Kharsang Oil Field. The quantity of crude oil produced from the field is dispatched to Digboi refinery of Indian Oil Corporation Ltd. by road tankers / bowsers. Along with the crude oil, around 70-80 KL/day of formation water and around 50,000 m³/day of gas is being produced from the field. Associated gas so produced along with the crude oil from the field is used for meeting power and steam as well as domestic fuel requirement at camp facilities and some unused gas quantity is being flared. Produced formation water is treated in the existing Effluent Treatment Plant (ETP), with treating capacity of 200 KLPD, to achieve permissible limit for disposal as per State Pollution Control Board norms.

The Kharsang Field covers an area of approximately 10 square km in an alluvial plain and partly hilly jungle region at an elevation of approximately 200 m above sea level. Hydrocarbon accumulation have been found in Namsang, Girujan, Tipam and Barail Formation in the upper Assam sedimentary basin.

Out of the 70 wells drilled so far at KOF, at present around 36 wells are on oil production, 8 are gas wells, 4 are abandoned and 22 wells are shut in. Producing depth typically lie in the range 600 to 1500 m, with production coming from a multiple series of thin and lenticular reservoir sands, primarily in the Girjun Clays Formation (Miocene). Individual well production ranges between 1 to 30 KLPD. The oil is medium gravity crude (17-35 deg API) in the majority of wells.

Now to further augment the oil and gas production from the field and test the deeper prospects, Tipam and Barail, GeoEnpro plan to carry out the below activities,

Development Well Drilling: GeoEnpro plan to drill **additional 40 Development wells**, in a phased manner, within the KOF over the coming years so as to further increase the field oil and gas productivity. Existing production facilities at KOF are adequate to accommodate the expected increased production from the drilling of these wells.

Exploratory Well Drilling: GeoEnpro plan to drill 5 Exploratory / Appraisal wells to target deeper prospects within the KOF. Upon successful discovery and establishing commercial viability in deeper prospects production operations shall be carried out in these wells.