The Geopolitics of Energy in the Caspian Basin

Zeinolabedin, Y.*, Yahyapoor M. S. and Shirzad, Z.

Department of Human Geography, Islamic Azad University, Rasht, Guilan, Iran

ABSTRACT: After the Soviet Union fragmentation, the attentions of regional and international countries have turned to this region for oil and gas discovery in the Caspian Basin. After that, this region enjoys more geopolitical importance increasingly. Therefore, the main question is: “what factors can influence the new geopolitics of the Caspian basin?” It seems that, some issues such as the lack of a legal status of the Caspian Sea, the pipeline routes for transportation of energy to the world markets and the ecological and environmental issues arising from hydrocarbon resources make the Geopolitical issues of the Caspian basin more complicated. The purpose of presenting this paper is to explain the new geopolitics of the Caspian and different position of each littoral states and international countries regarding as how to use the new hydrocarbon resources of the basin. According to the research findings, each of mentioned countries follows their own national interests in the Caspian basin.

Key words: Geopolitics, Caspian basin, Legal status, Pipeline routes, Environmental issues, Oil, Gas

INTRODUCTION

The geopolitical importance of the Caspian region dates well back in history. Absheron Peninsula, the region, known west of the Caspian Sea, was among the first producers of oil and petroleum products. The Bible contains references to some sort of petroleum products in the Baku region, in Azerbaijan. Even Marco Polo alluded to a small 13th century export trade in oil soaked sand and also to the Caspian delicacy, i.e. caviar. The region continued to be geopolitically important in the 20th century during the 1973 oil embargo and the 1991 Persian Gulf War (Zeinolabedin, 2009). Alongside the political significance related to the economy and geographic location, the oil and gas reserves of the Caspian and the multiplicity of the region’s transcontinental corridors including its relative proximity to the Persian Gulf highlight the Caspian on any global geopolitical map.

MATERIALS & METHODS

Research method in this article includes three steps. At first, scientific data were gathered from the libraries of universities and relevant institutions and network sites. Secondly, the data were classified and then these data were tested with touchstone of science. Therefore, it is a plausible excuse that there is not a site address as a reference in this article. Finally, the authors analyzed all the data critically to gain a scientific result. Briefly, the hypothesis testing in this paper is descriptive analysis one, based on library gathering data and for the best presentation of the content maps, diagrams and tables are used.

RESULTS & DISCUSSION

Oil and Gas Resources

Oil and gas have been major industries of the Caspian since the end of 19th century. On the one hand, regarding landlocked position of three new independent republics of the Caspian basin, the Soviet Union fragmentation makes instability in specially three important countries of Afghanistan, Iran and Turkey (USCNS, 2002, Mojtahed Zadeh, 2000). On the other hand, the Caspian basin is believed to contain considerable oil and gas deposits, though the magnitude and value are in some cases not estimated. Location and ownership are also controversial. Up to now, oil reserves are estimated to be approximately 50 billion barrels. Natural gas reserves are even larger. The resources of this basin will be enduring source of energy after Persian Gulf until 40 years (Roshan and Farhadian, 2006). Accordingly, the produced oil and gas should be transported to the markets. Existing pipelines and other infrastructure make this task possible (Fig. 1).

Oil exploration and production are increasing in the Caspian and are already well established in the Baku (onshore and offshore) and Tenghiz (onshore) regions (Rais Dana, 1996). Oil production is expected to increase dramatically during the next few decades (Fig. 2).
Fig. 1. Main Transport Axes for Oil and Gas

Fig. 2. World oil production to 2030 (Van Agt, 2004)
In this way, the Caspian region can provide 4500 kb/d oil until 2015 and this process might be increased (Fig. 3).

**CASPIAN BASIN RESOURCE MANAGEMENT**

The attention of the wider international community has turned to the Caspian basin in part because of its rich natural resources. The international competition for the access to oil and gas reserves and the need to bring them to world markets, has caused closer tie amongst national interests of different countries of the world (Fig. 4).

On the other hand, there are some issues that turn management more complicated in this region; such as lack of legal status of the Caspian, pipeline routes and ecological issues arising from energy exploitation and exploration.

**Legal Status of the Caspian**

During the Soviet period, most of the Caspian Sea coastline, apart from a small Iranian portion in the south, belonged to the Soviet Union. The fragmentation of the Soviet Union, however, brought about five states sharing the coastline and claiming jurisdiction over parts of the Sea. Therefore, it is possible to think the date of the new coastal countries independence is the birth date of the Caspian basin and accordingly, this basin looks like a tabula rasa which is in need of a new legal status (Molai, 2005). Although it is not difficult to see the urgent need for an explicit definition of the legal status of the Caspian, the ongoing

![Diagram 2- Potential Caspian Oil Production Growth, Kb/d](image)

**Fig. 3. Potential Caspian oil production growth in Kb/d (Van Agt, 2004)**

![Diagram 4- Caspian Sea Neighbors and other Beneficiaries](image)

**Fig. 4. Caspian Sea Neighbors and other Beneficiaries (Forster, 2006)**
discussion among the littoral states has tended to dwell on the definition of the Caspian as a sea or a lake, while the real problem appears to be one of the profit sharing (NADSA, 2002).

In general, the choices regarding the status of the Caspian Sea under international law is between common ownership of the Caspian, thus subject to the joint sovereignty of all the littoral states, and delimitation based on some sort of formula to be agreed on. However, there is not any historical precedent that can illuminate a solution to the Caspian’s status. There is, of course, the fact of an exclusive Russian naval and military presence for about 200 years and the signing of a number of treaties between Russia/Soviet Union and Persia/Iran concerning freedom of navigation, maritime activity and trade in the Caspian Sea. Russia has been quick to use the 1921 and 1940 treaties to pursue her views, especially with Azerbaijan and Kazakhstan, that the Caspian is an object of common use by the littoral states on an equal basis (Molai, 2005). Azerbaijan, in particular, has increasingly emphasized that these treaties are not applicable to the present-day problem of defining the status of the Caspian because they are only applied to navigation and fishing, leaving the problem of the exploitation of mineral resources as open issue and under the seabed out of their scope.

Russia’s original position bases on protecting navigation freedom on the Caspian to maneuver both its own lost power (in the past) and its monopolistic navigation power in this region (at present). Thus, Russia emphasized to apply the Law of Sea formerly and now—considering Caspian as an inland lake (not a sea) and should be governed as such—apply its own effort to share the surface of the sea and to divide the seabed. Therefore, in Tehran conference (2007) Russia, argued utilization is the only way forward (Afrasiabi, 2007) and continues this position until now.

In contrast to the original Russian position, the Azeri position was described as the “border lake” concept, with national sectors formed by median line and the extension of international borders into the Caspian. Accordingly, each littoral state would have exclusive sovereignty over biological resources, water surface, navigation and exploitation of the seabed in its own sector. At times, it has also aired the “open sea” concept with 12-mile territorial waters and adjoining exclusive economic zones exceeding 200 miles, in agreement with a median line principle. Kazakhstan generally supports Azerbaijan’s position, though with a variation regarding the exclusive economic zones formed by a central line equidistant from points on coastline. Accordingly, Azerbaijan and Kazakhstan in a unilateral manner have already divided the Caspian to suit to their own designs, though Iran, Russia and Turkmenistan object to such moves.

Turkmenistan has claimed full rights to the Azeri and Kyapaz/Serdar oil deposits and partial rights to the Chirag oil deposits. However, the lack of Russian support for Turkmenistan has led the latter to search for a deal with Azerbaijan, which now seems quite possible.

Iran continues to insist on a condominium solution, protesting against plans to construct underwater pipelines across the Caspian, favoring the transport of oil by the existing pipelines through Iranian and Russian territory. Nevertheless, Iran could accept a sectoral principle of Caspian Sea division if its interests are taken into account, primarily in the Azerbaijan-Turkmenistan deal concerning the partition of the southern Caspian (Fig. 5).

**Pipeline Routes and International Rivalries**

One of the peculiar features of the Caspian oil picture is that the regional countries are mostly interested in the early exploration and transport of oil and natural gas that are landlocked and have to rely on the goodwill and cooperation of their neighbors. Therefore, the Caspian Sea, join two regions of the Central Asia and Caucasus (Cohen, 2002). Thus, the region’s political and strategic conditions assume prominence when discussing which route should be chosen for transport of hydrocarbon resources out of the region.

The initial regional power vacuum created by the fragmentation of the Soviet Union has pulled most of the regional states and some external powers into a dangerous power-influence game played out in a rapidly changing Eurasian scene (Naderpour, 2007). Among the countries that envisioned playing a key role in the region at one time or another are the Russian Federation, Turkey, Iran, Saudi Arabia, the United States, the European Union, Pakistan, China, Japan and so on (Saghafi Ameri & Naghi Zadeh, 1999). Obviously, each country has specific objectives and the competition has economic, political, ideological and religious dimensions. As such, there exist various possibilities for conflict among regional rivals (Tables 1 & 2).

In spite of this, two important coastal states of Russia and Iran can play an effective role: Iran needs the support of Russia to be a main corridor of the exports of both Russia and new independent countries that suffer from landlocked position (Molai, 2003). This remembers the definition of geopolitics in Gray point of view when he defines geography as energy, energy as economy, economy as security and security as geopolitics (Hafezia, 2006).
Fig. 5. Unstable Legal Statues Source (Dehghan, 2005)

Table 1. Oil Pipeline Routes (Ahmadi Lafooraki, 2004)

<table>
<thead>
<tr>
<th>Project</th>
<th>Length (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atyrau(Kazakhstan)-Samara(Russia)</td>
<td>432</td>
</tr>
<tr>
<td>Baku-Jeyhan(Turkey)</td>
<td>1038</td>
</tr>
<tr>
<td>Baku-supsa(Georgia)</td>
<td>515</td>
</tr>
<tr>
<td>Baku- Novorossiyisk(Russia) (north route)</td>
<td>868</td>
</tr>
<tr>
<td>Baku-Mahachkala(Dagestan)-Novorossiyisk</td>
<td>204</td>
</tr>
<tr>
<td>Tenghiz- Novorossiyisk</td>
<td>990</td>
</tr>
<tr>
<td>Kazakhstan- Gawadar(Pakistan)</td>
<td>1040</td>
</tr>
<tr>
<td>Baku-Tabriz(Iran)</td>
<td>*</td>
</tr>
<tr>
<td>Neka(Iran)- Tehran</td>
<td>208</td>
</tr>
<tr>
<td>Acktyubinsk(Kazakhstan)-Xinzhuang(China)</td>
<td>1800</td>
</tr>
<tr>
<td>Kazakhstan-Turkmenistan-Khark(Iran)</td>
<td>930</td>
</tr>
<tr>
<td>Dubendi(Azerbaijan) Khashury- Batumi(Georgia)</td>
<td>Khashury- Batumi 105</td>
</tr>
<tr>
<td>Aktau(Kazakhstan)-Baku(Azerbaijan)</td>
<td>370</td>
</tr>
</tbody>
</table>

Table 2. Gas Pipeline Routes (Ahmadi Lafooraki, 2004)

<table>
<thead>
<tr>
<th>Project</th>
<th>Length (km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baku(Azerbaijan)-Teflis(Georgia)-Erzerum(Turkey)</td>
<td>540</td>
</tr>
<tr>
<td>Douletabad(Turkmenistan)-Heart(Afghanistan)-Multan(Pakistan)</td>
<td>870</td>
</tr>
<tr>
<td>Turkmenistan- Kazakhstan- Uzbekistan- Saratov(Russia)</td>
<td>Existing routes</td>
</tr>
<tr>
<td>Turkmenistan- Jinjiang(China)</td>
<td>4161</td>
</tr>
<tr>
<td>Turkmenbashi(Turkmenistan)-Baku(Azerbaijan)-Teflis(Georgia) Erzerum(Turkey)</td>
<td>1020</td>
</tr>
<tr>
<td>Korpezhe(Turkmenistan)- Kurt-kui(Iran)</td>
<td>124</td>
</tr>
</tbody>
</table>
Environment and Ecology

Lots of studies have discussed water and soil pollution within the Caspian basin (Nasrabadi et al., 2010; Nabi Bidhendi et al., 2007) and similar ones due to anthropogenic exposures (Vicente and Cerezo, 2010; Banerjee and Srivastava, 2010; Adekunle et al., 2010; Zahed et al., 2010; Nasrabadi et al., 2009; Zagas et al., 2010; Otitoloju, 2010; Baghvand et al., 2010). The World’s attention is attracted to the region by regional rivalries over the highly explosive issues of oil extraction, transport and profit sharing, and occasionally by ethnic tensions. However, there is another, equally important, danger about which politicians and oil-interests generally remain silent, namely the ruination of the Caspian’s unique ecosystem and an accompanying irreversible environmental catastrophe (Zeinolabedin, 2007). This is due to a total lack of respect for overall regional development and the former Soviet Union’s long-term violation of generally accepted environmental norms. The present rush of Western oil companies and a lack of control over oil exploration operations in most of the newly independent Caspian littoral states only exacerbate the situation (Mostaghimi, 2005).

The general ecological situation is already beyond recovery throughout the region. In addition to the rising sea level and the flooding of coastal areas, the problem of the increasing saturation and greasiness of the soil further worsens the conditions. Because of rising pollution, disturbances caused by the hasty exploration of the coastal shelf and the development of offshore oilfields, various forms of aquatic life face the threat of extinction in the Caspian. Moreover, because of the concentration of hydrocarbon waste, which is three times higher than the permitted norm as a result of the development work on the Azeri, Chirag and Gunesli oil fields, the Azerbaijani coastline is now declared unsafe for humans (Clark, 2005).

This large-scale environmental and ecological damage underlines the need for an international authority to enforce compliance with appropriate legislation.

Fig. 6. Pollution Hot Spots of the Caspian
environmental norms in the Caspian Basin. However, as the negotiations on legal issues surrounding the Caspian Sea are intermingled with the resolution of environmental concerns, the ongoing dispute over access to resources presents a major obstacle to the effective management of such problems, particularly at the supranational level.

CONCLUSION
After the Soviet Union fragmentation, the Caspian basin, containing considerable resources specially oil and gas reserves, enjoys more geopolitical importance. There are some association and contrast between the regional and international countries interests, about using these resources. The lack of legal status in the Caspian basin, economical needs of the new independence republics of the former Soviet Union and the entrance of international players to this region cause to hasty use of its resources. Thus, this process causes the Caspian basin face numerous environmental issues. Furthermore, transportation routes of existing energy of the Caspian to the world markets turn the players’ role more complicated in this region. The coastal countries in the Caspian (Russia, Iran, Kazakhstan, Azerbaijan, and Turkmenistan) have not yet reached an agreement about the division of the Caspian potentials.

Considering the Caspian as a ‘lake’, not sea, makes it impossible to solve existing problems of this region under United Nations Convention on the Law of the Seas. Therefore, these disputes in the Caspian basin had to be ended through diplomacy and agreement norm between the littoral states. Thus, the interference of big powers specially, United States of America is the main obstruction to achieve an agreement between the Caspian basin countries. At the other hand, holding Iran back cooperation in new plans related to oil and gas transportation pipeline routes make these disputes doubled.

REFERENCES


Geopolitics of Energy in the Caspian


