



Tethys gas fields

Unique gas opportunities in
Western Kazakhstan's Pre-Caspian North Ustyurt



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About us



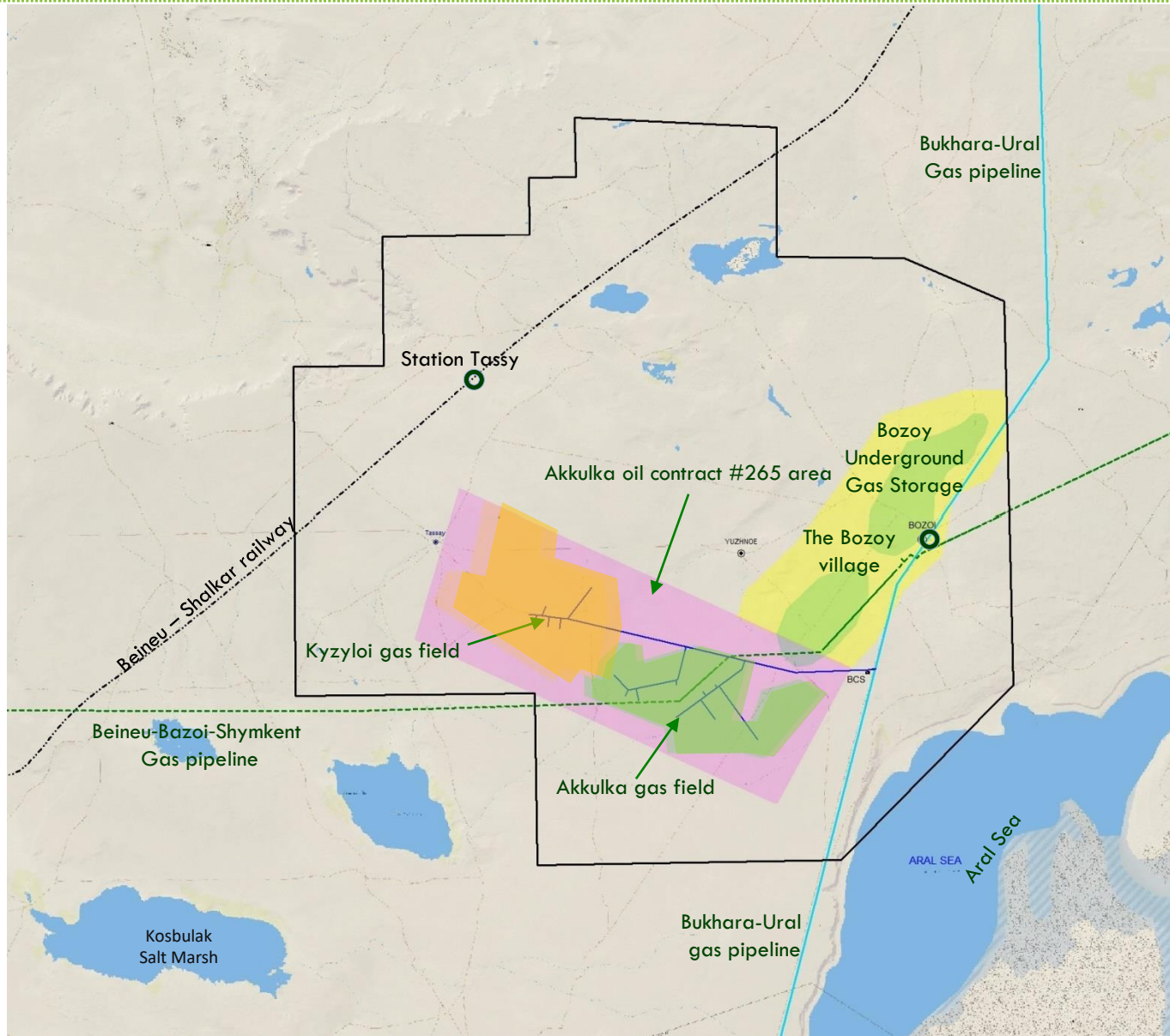
Tethys Petroleum Limited is an oil and gas exploration and production company focused on Central Asia and the Caspian Region with projects in Kazakhstan. Tethys Petroleum has a portfolio of assets including existing oil and gas production. Tethys is a public company with its listing on the TSX Venture Exchange (TSXV). <https://tethys-group.com/about-us/>

The Company has been operating in Kazakhstan since 1998 through its 100% subsidiaries TethysAralGas LLP, Kul-Bas LLP and DMS Services LLP.

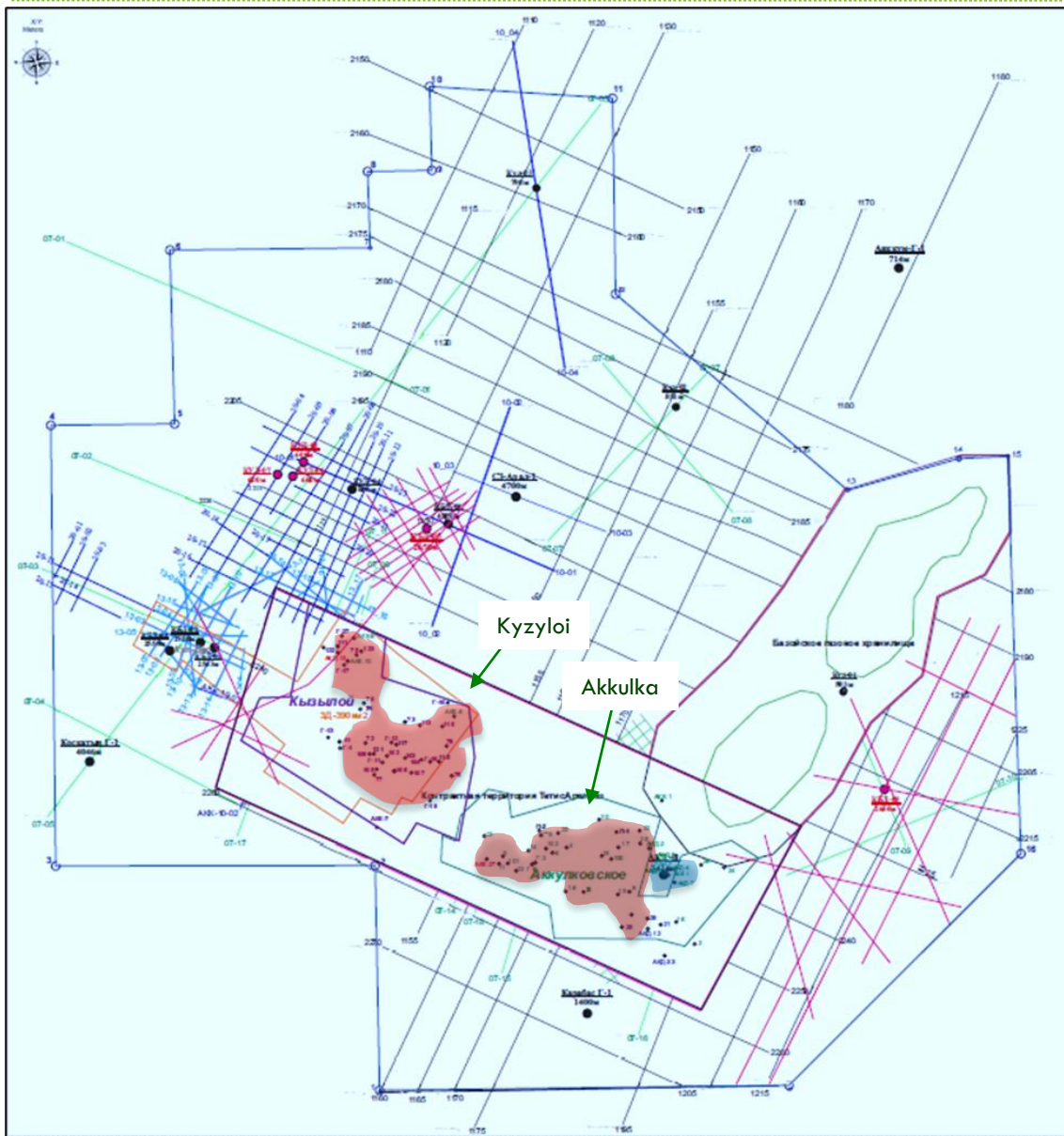
TethysAralGas LLP has the following subsoil production contracts:

- Contract No. 1734 for natural gas production at the Kyzylai field
- Contract No. 3496 for natural gas production at the Akkulka field
- Contract No. 265 for the exploration and production of hydrocarbons at the Akkulka oil and gas area.

Tethys Petroleum Gas Fields location



Akkulka and Kyzylloi Gas fields



Akkulka gas field was discovered in 2007, is located in the northeast of the North Ustyurt and is confined to a sublatitudinally oriented brachianticline on the northern slope of the Akkulka swell. The uplift has an area of about 30 km². Drilled wells have proven the productivity of Paleogene deposits. The reservoirs are sandstones and siltstones with open porosity up to 30%.

Kyzylloi gas field was discovered in 1967 by the G-11 well, where, during testing of Paleogene deposits (Upper Eocene), a commercial gas inflow was obtained with a flow rate of 93.1 th. m³/d at 15 mm choke. The main gas-bearing horizon, confined to the middle part of the Kyzylloi deposits, occurs at a depth of 439 m and is composed of fine-grained clayey siltstones alternating with clay interlayers. The gas deposit, about 50 m high, is stratal, domed with elements of lithological screening in the north, west and south of the structure.

Commercial gas fields Akkulka and Kyzylloi



Akkulka oil field

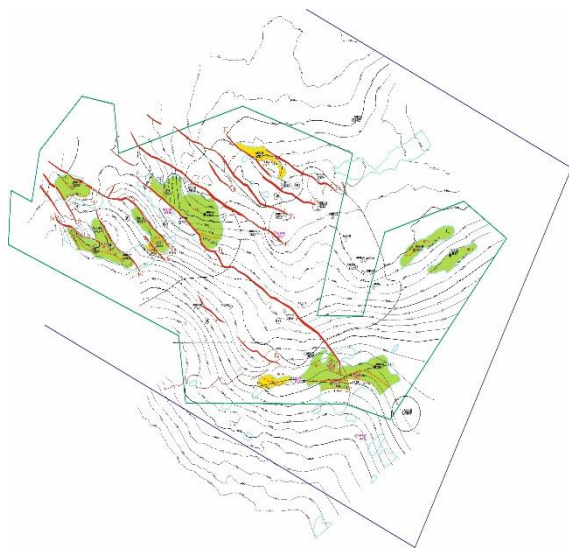




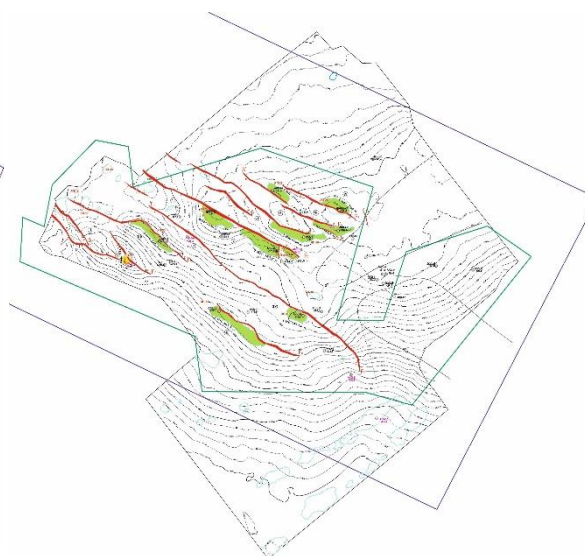
**Gas Booster capacity– 1,2 mln m3./day
connected to 1 and 2 lines of main Bukhara – Ural
trunk line at 910 km**

Gas Reserves

Gas fields	Approved by GKZ (State Reserves) GIIP, mln.m ³	Approved by GKZ (State Reserves) Recoverable Gas, mln.m ³	Cumulative gas produced as at 1 Jan 2024	Remaining Gas (State Reserves) as at 1 Jan 2024	Evaluation by McDaniel as at 31 Dec 2023 mln.m ³
Kyzyloi	3,360	2,879	1,406	1473	628
Akkulka	1,547	1,249	662	587	355
Total gas	4,907	4,128	2,068	2060	983



Kyzyloi formation approved in 2023:
C₁ GIIP/Recoverable - 988/822 mln.m³
C₂ GIIP/Recoverable - 42/26 mln.m³



Tasaran formation approved in 2023:
C₁ GIIP/Recoverable - 559/427 mln.m³
C₂ GIIP/Recoverable - 2/1 mln.m³



Kyzyloi formation approved in 2018:
C₁ GIIP/Recoverable - 3360/2879 mln.m³
C₂ GIIP/Recoverable - 631/341 mln.m³

Well Stock

	Kyzyloi field	Active wells	To be connected/producing after WO
1	Main Kyzyloi structure	102, 103, 104, 106, 107, Г-12, Г-16	-
2	North Kyzyloi structure	AKK-10, KYZ-111,	AKK-08
3	AKK-05, KYZ-110 area Kyzyloi	AKK-05, KYZ-110	KYZ-113
	Total for Kyzyloi field	11	2

- Kyz-113 – new well drilled in 2022, is awaiting flowline connection in Nov'24
- WO job plan to enter into production - AKK-08 in Sep'24

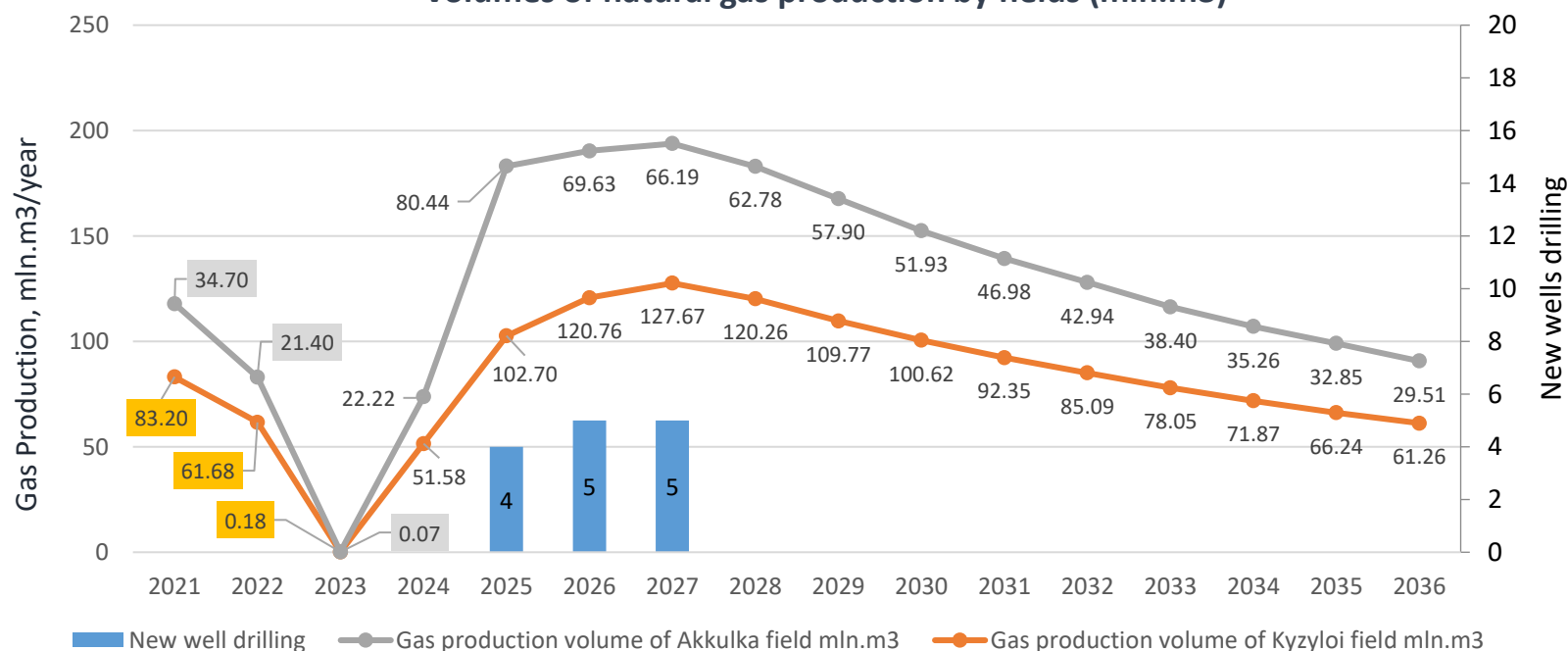
Akkulka field	Kyzyloi formation							Tasaran formation								Total wells	
	ЯП-1	ЯП-2	ЯП-3	ЯП-8	ЯП-9	ЯП-10	ЯП-11 res.C2	ЯП-23	ЯП-24	ЯП-25	ЯП-26	ЯП-27	ЯП-28	ЯП-29	ЯП-31		ЯП-32
Active wells		АКК-101	АКК-04	АКК-26	АКК-24	АКК-16			АКК-23		АКК-22			АКК-15			8
To be connected/ producing		АКК-12				АКК-21, 28		АКК-14									4
Total for Akkulka field		2	1	1	1	3		1	1		1			1			12

- *AKD-12, AKK-21, 28 – converted to C1, and awaiting flowline connection
- WO job plan to enter into production - AKK-14

Potential gas production for 2023 - 2036

Field name	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Kyzylloi field mln.m3	83,20	61,68	0,18	51,58	102,70	120,76	127,67	120,26	109,77	100,62	92,35	85,09	78,05	71,87	66,24	61,26
Akkulka field mln.m3	34,70	21,40	0,07	22,22	80,44	69,63	66,19	62,78	57,90	51,93	46,98	42,94	38,40	35,26	32,85	29,51
Total	117,90	83,07	0,24	73,80	183,14	190,40	193,86	183,04	167,67	152,55	139,33	128,03	116,45	107,13	99,09	90,77

Volumes of natural gas production by fields (mln.m3)



Summary of competitive advantages



The area has the following competitive advantages:

- Kyzylai and Akkulka gas fields are with over 2 bln. M3 of gas reserves
- Shallow depth
- Human resources - experienced O&G personnel
- Proximity of the Bozoi gas storage with all the energy facilities and large construction resources (sand, clay, limestone).
- Logistics
 - ✓ 50 km to the east of the Kyzylai field, the Bukhara-Ural main gas pipeline runs and connecting in 19 km to Beineu-Bozoy-Shymken gas pipeline
 - ✓ from the Kyzylai and Akkulka fields to the tie-in in the Bukhara-Ural gas pipeline, there is an operating infield gas pipeline with a length of 51 km.
 - ✓ The route of the existing main gas pipeline Beineu-Bozoi-Shymkent passes directly through the Akkulka gas field.
 - ✓ Through the Beineu railway station, located 230 km west of the Akkulka area, the main gas pipeline Central Asia – Center
 - ✓ the Beineu-Shalkar railway with the operating Tassay station passes nearby at the neighboring Kul-Bas area