

**O'ZBEKISTON RESPUBLIKASI OLIY VA O'RTA MAXSUS TA'LIM VAZIRLIGI
ISLOM KARIMOV NOMIDAGI TOSHKENT DAVLAT TEXNIKA UNIVERSITETI**

**O'QUV GEOLOGIK XARITALAR
ATLASI
(TO'RTINCHI TO'LDIRILGAN NASHRI)**

O'zbekiston Respublikasi Oliy va o'rta maxsus ta'lif vazirligi tomonidan geologiya, gidrogeologiya va neft - gaz yo'nalishi talabalariga o'quv qo'llanma sifatida tavsiya etiladi

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UDK 5508:528

Ushbu atlas “Strukturaviy geologiya va geologik xaritalsh” fani o’qitiladigan talabalar uchun mo’ljallangan bo’lib, 34 varaq ko’p turli maqsadli xaritalardan tashkil topgan bo’lib, asosiy maqsad talabalarni geologic xaritalarni tahlil qilish, turli xil geologik yotqiziqlarni o’rganish, geologil qirqimlarni tuzish, stratigrafik ustunlarni, shuningdek ularning tektonik sxemalarini o’rgatishdan iboratdir.

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O’zbekiston Respublikasi Oliy va o’rta maxsus ta’lim vazirligi, 2020

O’QUV GEOLOGIK XARITALAR

A T L A S I

(to’rtinchи to’ldirilgan nashri)

O'quv geologik haritalar atlasi qo'llanmasi uchun uslubiy ko'rsatmalar

Strukturalarni tekshirish va geologik haritalash usullari Yer qobig'ini mukammal o'rghanishda katta ahamiyatta ega. Geologik haritalar maydonning geologik tuzilishini aniq shaklda ko'rsata oladi va geologik fanlarni o'rghanishda foydalaniladigi asosiy hujjat hisoblanadi.

Bu dasturniig vazifasi talabalarni geologik xaritalarni o'qishga o'rgatish, ularning mazmunini tahlil qilish. Yerning ichki qismini ko'ra bilish, qatlamlarning yotish elementlarini, qalinligini hosil bo'lishda ketma-ketligini aniqlash, burmachan va uzilma strukturalarni turini ajrata bilish, geologik jinslarni shaklini va ularni yoshini aniqlashga o'rgatishdir.

Atlasda keltirilgan geologik haritalar tabiiy jismlarning barchasining xilma - xilligi va murakkabligini to'liq tasvirlamaganligiga qaramasdan talabaning ongida aniq bir maydonning geologik tuzilishi modulini ko'ra bilishga olib keladi.

Moskva Universitetining bir guruh mualliflari (1978y) tomonidan tayyorlangan o'quv geologik hapitlar atlasidan taklif qilayoggan atlasning farqi shundaki, bu qo'llanma yirik mashtabli geologik haritalar geologik kesmasi stratigrafiya ustunsiz berilib, har bittasi uchta - to'rtta aniq vazifani bajarishga mo'ljallangan. Shu universitetning yana bir guruh mualliflari tomonidan tayyorlangan tasviriy geologik haritalarining atlasidagi bizning tayorlagan ishimiz esa rangli ko'rinishda berilgan. Fikrimiz bo'yicha bunday xaritalar geologik jismlarni hajm jihatdan ko'rinishini talabalar yanada yaxshiroq tasavvur eta oladilar. Har bir haritada bajariladigan vazifa berilgan. Bundan tashqari talabalar haritada qatlamlarning yotish elementlari (qiyalik burchagi, yotish va yo'naliш azimuti) qatlamlarning qalinligi (yo'naliш azimutiga perpendikulyar kesmalar olib), burchak va uzilmalarni shakli va yoshini aniqlash, yo'naliш azimutiga perpendikulyar bo'lgan kesmalar olish (atlasni haritadagi berilgan nomogrammalardan foydalanib) kabi ishlarni bajaradilar.

Har bir geologik haritaga qisqacha tushintirish ko'rsatma berilgan

1 - chizma. Geologik haritada maydonning ikki qavatdan iborat bo'lган geologik tuzilishi ko'rsatilgan. Kembriy-quyi devon tog' jinslaridan tashkil topgan pastki (ostki) kompleks burmalangan va tektonik uzilmalar bilan murakkablashgan. Yuqori toshko'mir davrida hosil bo'lган intruziyalar va qiya tushirma uzilmaning shakllanishi gertsin burmachan davriga to'g'ri keladi. Yuqori (ustki) kompleks oligotsenda hosil bo'lган gorizontal holatdagi kontinental cho'kindi yotqiziqlari va miotsen - pliotsen davri andezit, datsit tarkibli qoplamlardan tuzilgan. Hozirgi zamon tektonik harakatlarining natijasida esa vertikal tushirma uzilma paydo bo'lган va bu uzilma bo'yicha shimoli-g'arb blok ko'tarilgan.

2,3 - chizma. Harita maydonining geologik kesmalar yotqiziqlarining stratigrafik ustuni tuziladi..

4 - chizma. Harita maydonining tektonik tasviri ko'rsatilgan. Bu esa maydonni tektonik tuzilishi to'g'risida ma'lumot beradi. Haritada struktura - formatsiya komplekslari burmachan va uzilma strukturalar ajratilgan.

5 - chizma. Haritada chegaralari gorizontallarga parallel bo'lган, gorizontal holatda joylashgan qatlamlar tasvirlangan. Janubda esa burmachang joylashgan tog' jinslari ostki qavatni tashkil etadi. **Vazifa:** geologik kesma chizish, stratigrafik ustun tuzish.

6 - chizma. Bu maydonning geologik tuzilishi 5-harita maydonning ko'rinishiga o'xshaydi. Qatlamlarning joylashishi har xil yoshdagи uzilmalar bilan murakkablashgan. **Vazifa:** geologiya kesmalar chizib, uzilmalarni yoshini, siljish amplitudasini aniqlash, qaysi blok qancha masofaga va qaysi yo'naliшda siljigan. Stratigrafik ustun tuzish.

7 - chizma. Geologik haritada mezazoy va kaynazoy yotqiziqlarining monoklinal (bir tomonga qiya) yotgan ko'rinishi tasvirlantani. **Vazifa:** kursatmaning avvalida ko'rsatilgan ishlarni bajarish va nomuvofiqlikni chegarasi va yoshini aniqlash.

8 - chizma. Uzilmalar bilan murakkablashgan devon va karbon burmachan strukturasi tarqalgan maydonning geologik xaritasi. **Vazifa:** burmalarning qanotlarini yotish elementlarini aniqlash, uzilmani elementlari, gurini va vertikal amplitudasini aniqlash. Burmalarning o'qlarini va ularni qiyalik burchagini aniqlash.

9 - chizma. Yuqori trias, yura, bo'r davri qatlamlarning qiyalik burchaklari har xil bo'lган to'ntarilgan holatda joylashganligi ko'rsatilgan. **Vazifa:** burmalarning qanotlarini yotish elementlarini aniqlash, kesmalar chizish, yotqiziqlarning haqiqiy qalinligini hisoblash, stratigrafik ustunlar chizish.

10 - chizma. Nomuvofiqlik bilan ajralgan ikkita har xil tog' jinslari tarqalgan maydonning geologik haritasi ko'rsatilgan. Ostki qatlamlar to'ntarilgan va uzilma bilan murakkablashgan. Ustki (yuqori) qatlamlar gorizontal joylashgan bo'lib, datsit va andezit - bazal't lavalaridan iborat. Shimolda har xil yoshdagи jerlo(tomir) jinslari ko'riniб turibdi. **Vazifa:** burmalarning qanotlarini, yotish elementlarini aniqlash. Uzilmani yotish elementlarini qaysi guruhgа taalluqlilagini va amplitudasini aniqlash, nomuvofiqlikni va cho'kindi hosil bo'lishda tanaffus bo'lganligini aniqlash.

11,12 - chizma. Trias, yura, bo'r davri yoqiziqlari Burmalangan, paleogen va neogen qatlamlari gorizontal holatda ostki trias, yura, bo'r yotqiziqlarini nomuvofiq qoplagan holati tasvirlangan. **Vazifa:** burmalarni qanotlarini yotish elementlarini topib, kesmalar chizadi. Nomuvofiqlikni aniqlash va qaysi tipligii belgilash. Barcha tog' jinslarini qalinligini kesmalarda hisoblash.

13 - chizma. Geologik harita maydonida yura va bo'r yotqiziqlari devon qatlamlari ustida nomuvofiq holatda joylashgan ko'rinish. Barcha yotqiziqlar to'ntarilgan va uzilma bilan marakkablashgan. **Vazifa:** burmalarni qanotlarini va uzilmani yotish elementlarini aniqlash, uzilmani tipi va u bo'yicha siljish vaqtini aniqlash, kesmalarda shartli belgilar orqali tog' jinslarini tarkibini

qo'rsatish.

14 - chizma. Uzilma bilan murakkablashgan burmachang struktura ko'rsatilgan geologik harita. Uzilma maydonini ikki blokka ajratgan. **Vazifa:** burmalarning qanotlarini yotish elementlarini ikkala blokda alohida aniqlash, uzilma tekisligining yotish elementlarini, uning vertikal amplitudasi, yoshi va turini aniqlash. Nomuvofiqlikni stratigrafik ustunda ko'rsatish.

15 - Chizma. Geologik haritada uzilmalar bilan murakkablashgan, ikki qavatli geologik tuzilish ko'rsatilgan. **Vazifa:** ostki qavat burchaklarining qanotlarini yotish elementlarini, uzilmalarni elementlarini (azimuti yotish burchagi vertikal amplitudalari, yoshi va turlarini) aniqlash. Kesmalar tog' jinslarining shartli belgilar orqali litologik tarkibini ko'rsatish, stratigrafik ustunda nomuvofiq-liklarni ko'rsatish.

16-23 chizma. Burmachan va monoklinal joylashgan yotqiziqlarni har xil tuzilmalar bilan murakkablashgan geologik haritasini maydoni tasvirlangan. Bular tushirma va ko'tarilma uzilmalar, tushirma uzilma siljimalar, zinasimon uzilmalar, tektonik qoplamlalar va ulardan siljima natijasida ajralgan bo'laklar, tektonik darzlar, gorst va grabenlar. **Vazifa:** bu haritalarda avval qatlamlarni uzilmalarini elementlarini aniqlash zarur, ularni turini, ko'tarilgan va tushgan qanotlarini aniqlash kerak. Oxirgi bosqichda kesmalar va stratigrafik ustunlar chiziladi.

24-29 chizma. Burmalangan va siljigan tog' jinslari orasida har xil intruziv jinslarni tarqalgan geologik haritalari maydonlari ko'rsatilgan. **Vazifa:** birinchi navbatda yotqiziqlarning yotish elementlarini, intruziv jinslarni, uzilmalarni yoshini aniqlash kerak. So'ngra intruziv jinslarni shakllari aniqlanadi. Ohirgi bosqich kesmalar va stratigrafik ustunlar chizish.

24-28 chizmalarda Yer qobig'ini ikki va uch qavatli tuzilishi ko'rsatilgan. Bu haritalarda yuqoridagi vazifalardan tashqari cho'kindi hosil bo'lishda qaysi davrlarda uzilishlar ro'y berganligi, nomuvofiqliklarni aniqlash va cho'kindi hosil bo'lishdagi uzilish davrlarida qanday jarayonlar ro'y berganini ko'rsatish kerak.

30-32 chizma. Bu geologik haritalar bir tomonida geologik tuzilishi ko'rsatilgan ma'lumotlar asosida ikkinchi bo'sh tomonida geologiyasi tushirish va to'ldirish uchun mo'ljallangan geologik ma'lumotlarni asosida haritani to'ldirib kesmalar va ustunlar chiziladi.

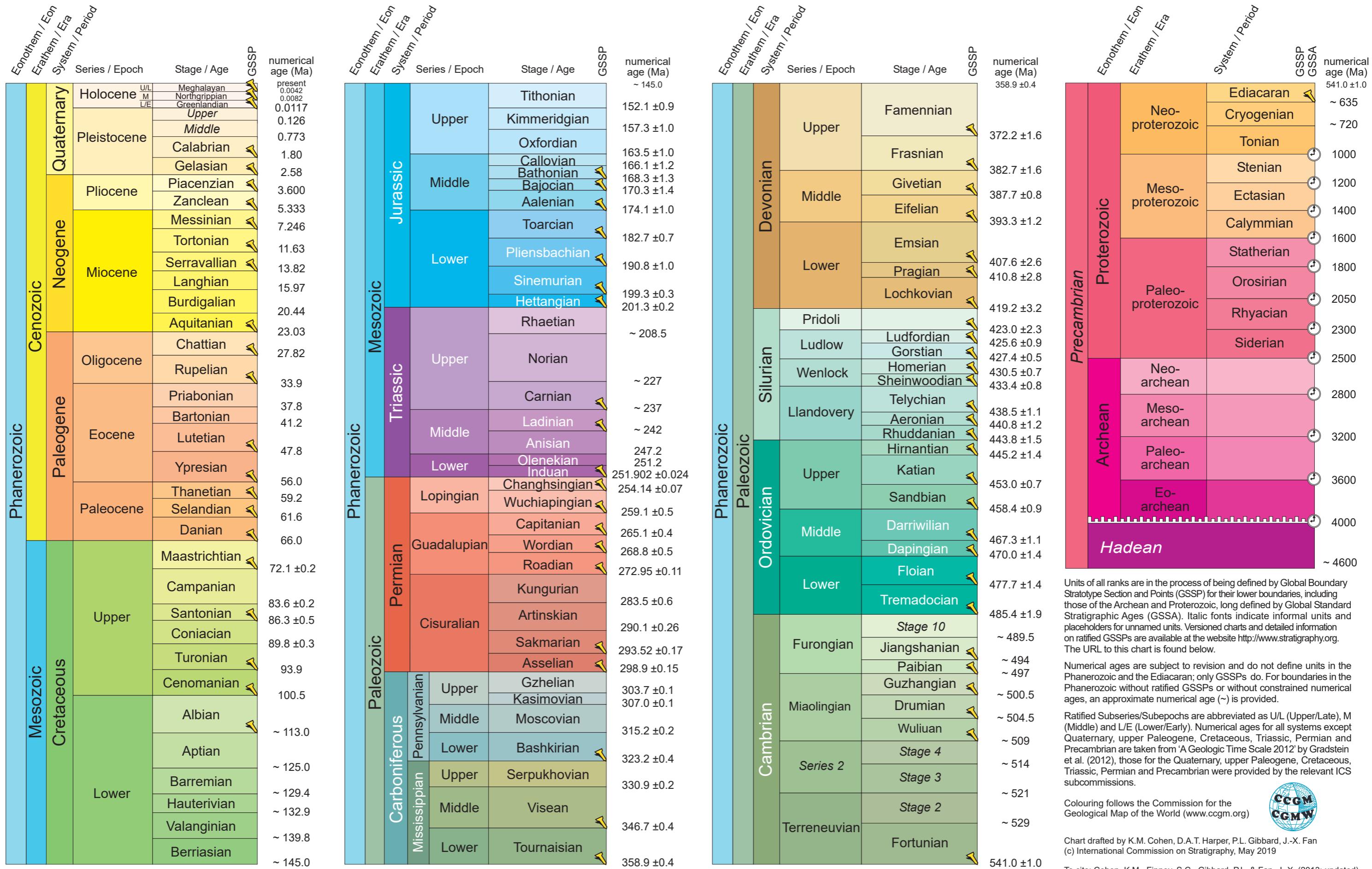


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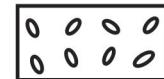


CHOKINDI TOG' JINSLARINING SHARTLI BELGILARI

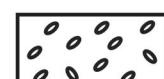
Chaqiq va gilli

Bo'shoq

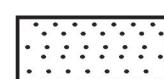
 Katta bo'lakli

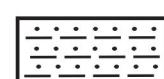
 Shag'altosh

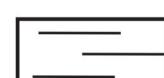
 Chaqiqtosh

 Graviy

 Dresva

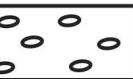
 Qum

 Aleverpum

 Gil

Sementlangan

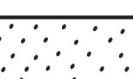
 Katta bo'lakli brekchiya

 Konglomerat

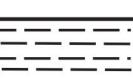
 Brekchiya

 Gravelit

 Mayda shag'al

 Qumtosh

 Alevrolit

 Argilit

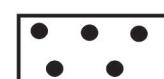
Karbonatli

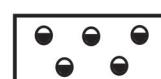
 Ohaktosh

 Dolomit

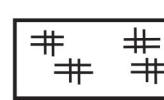
 Mergel

Boksitlar va boksitli tog' jinslari

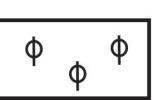
 Boksitlar

 Allitlar

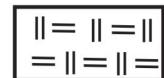
Temirli va marganesli

 Temirli (rudali)

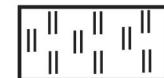
 Marganesli

 Fosforitli

Kremniyli

 Trepel diatomit

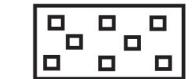
 Opoka, spongolit

 Radiolyarit, yashma

Sul'fat-galloidli

 Gips

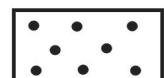
 Angidrit

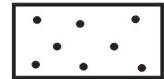
 Galit (osh tuzi)

 Kaliy-magnezialli tuz

Cho'kindi tog' jinslarining turli xil namunalari

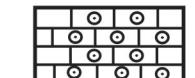
Qumtosh

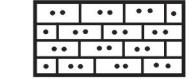
 Yirik donali

 O'rta donali

 Mayda donali

Ohaktosh

 Oolitli

 Qumtoshli

 Organogenli

To'rtlamchi tog' jinslarining qo'shimcha shartli belgilar

 Lyoss

 Lentasimon gilmoya

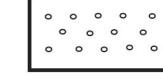
 Torf

 Chig'anoqtosh

 Ohaktoshli tuf

 Kremniyli tuf

 Gletcherli muz

 Firn va qor

MAGMATIK TOG' JINSLARINING SHARTLI BELGILARI

Effuziv tog' jinslarining shartli belgilar

	Bazal't
	Andezit
	Datsit
	Liparit

	Traxit
	Fanolit
	Effuziv ishqorli-o'ta asosli ishqorli-bazal'toidli tarkib
	Pikrit

Effuziv tog' jinslarining turli xil shartli belgilaridan namunalari

	Olivinli bazal't
	Giperstenli bazal't

Vulanoklastik va vulkanogen-cho'kindi tog' jinslarining shartli belgilar

	Bo'shoq piroklastik vulqonli katta bo'lak va vulqon bombasi (aglomeratlar)
	Lapilla va vulqonli shag'al

Lavaklastik, litifitsirlangan piroklastik, cho'kindi-piroklastik va piroklastik-cho'kindi tog' jinslari

	Brekchiiali lava
	Tufli lava
	Katta bo'lakli aglomeratli tuf va vulqonli brekchiya
	Tuflar (yirik-, o'rta-, mayda-va yupqa bo'lakli)

Intruziv tog' jinslarining shartli belgilar

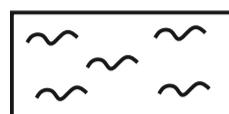
	Ul'tramafitlar (dunit, peridotit, piroksenit va b.)
	Gabbro
	Diorit
	Granit

Intruziv tog' jinslarining turli xil namunalari

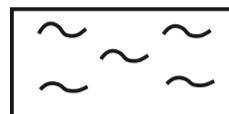
	Yirik donali gabbro
	O'rta donali gabbro
	Mayda donali gabbro
	Granit-porfir
	Diorit porfirit

METAMORFIK TOG' JINSLARINING SHARTLI BELGILARI

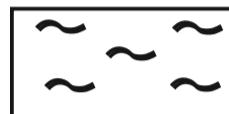
Regional metamorfizm tog' jinslari



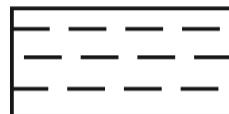
**Mikrokristalik
slanets**



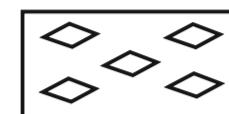
Kristalli slanes



Amfibolit



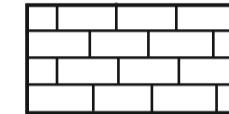
Gneys



Eklogit

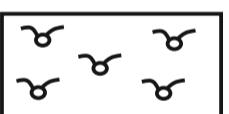


Kvarsit

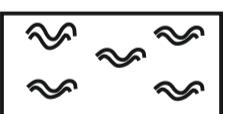


Marmar

Regional metamorfizm tog' jinslarining turli xil shartli belgilaridan namunalar



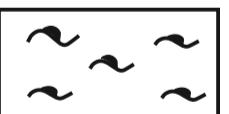
**Xlorit-seritsitli
slanets**



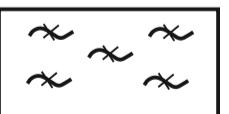
Porfiroid



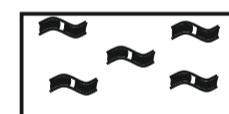
Porfiritoid



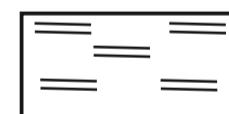
**Biotit-sillimanitli
slanets**



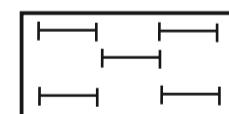
Ставролитли сланец



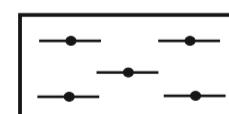
Granatli amfibolit



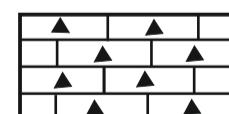
Granulit



**Disten-muskovitli
gneys**



**Biotit-sillimanitli
gneys**

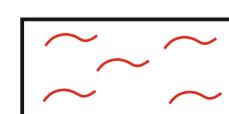


Vollastonitli marmorlar

Ul`trametamorfik hodisa



Granitlashgan

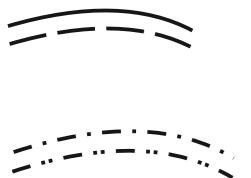


Migmatlashgan

Geologik xaritalardagi boshqa turli xil shartli belgilar

Geologik chegaralar va uzilishlar

Chegaralar

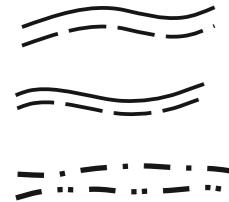


Turli davr oralig'ida hosil bo'lgan geologik chegaralar: a-haqiqiy, b-ixtiyoriy

Turli davr oralig'ida hosil bo'lgan, nisbatan yosh yotqiziqlar bilan qoplangan: a-haqiqiy, b-ixtiyoriy

Bir davrdagi litologik va fatsial bo'linmalar

Uzilmalar

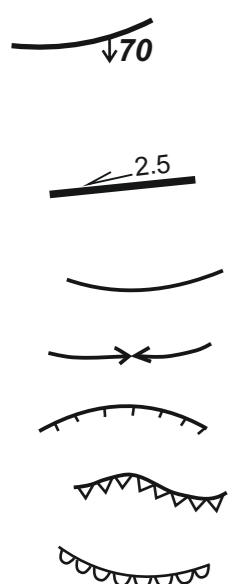


birlamchi: a-haqiqiy, b-ixtiyoriy

ikkilamchi: a-haqiqiy, b-ixtiyoriy

nisbatan yosh yotqiziqlar bilan qoplangan (misol uchun dastlabki uzilishlar)
a-haqiqiy, b-ixtiyoriy

Morfologik turli xil uzilishlar



Ko'tarılma va tushirma. Uzilma yo'nalishi strelkasi, og'ish burchagi son bilan belgilangan

Siljish, ko'tarılma- tashlama-siljish. Strela gorizontal siljishni ko'rsatadi (kilometrlarda)

Tik yo'nalishdagi uzilishlar

Surilmagan darzlilar

Surilma

Tyektonik yotqiziqlar

Ko'chki

Qatlamlarning yotishi

+ Vertikal

— Qiya

— Ag'darilgan

+ Gorizontal

Prototektonik magmatik tog'jinslarining elementlari

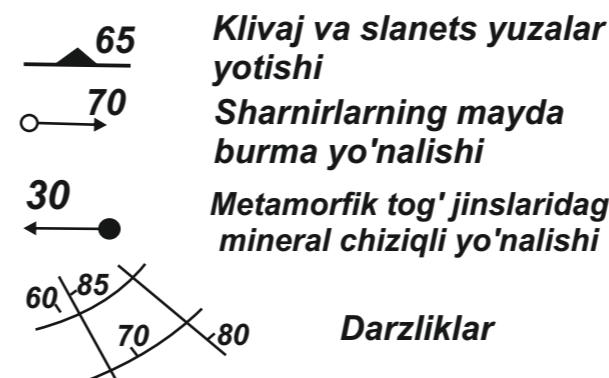
→²⁰ Oqim yo'nalishi

— Flyuidal yassi teksturlar

△ Traxitoid va yo'l-yo'l yassi teksturlar

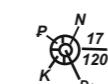
▲³⁰ Oqim yo'nalishi bilan yassi teksturalarni birikishi

Strukturali elementlar



Xaritadagi burg'ilash quduqlari

Quduq tubidan to'rtlamchi davrgacha bo'lgan tog'jinslarini ochish (ularning shiftidan ma'lum bir chuqurligigacha, m)

 Quduqdan chiqqan to'rtlamchi davr yotqiziqlarini xaritaga tushirish

Qirqimdagagi burg'ilash quduqlari

— Qirqim yuzasidagi loyiha yotqiziqlari

— Qirqim yuzasida yotgan yotqiziqlar

Stratigrafik ustundagi geologik chegaralar

— munosib yotishi

— tekis bo'lmagan yuzada yotishi

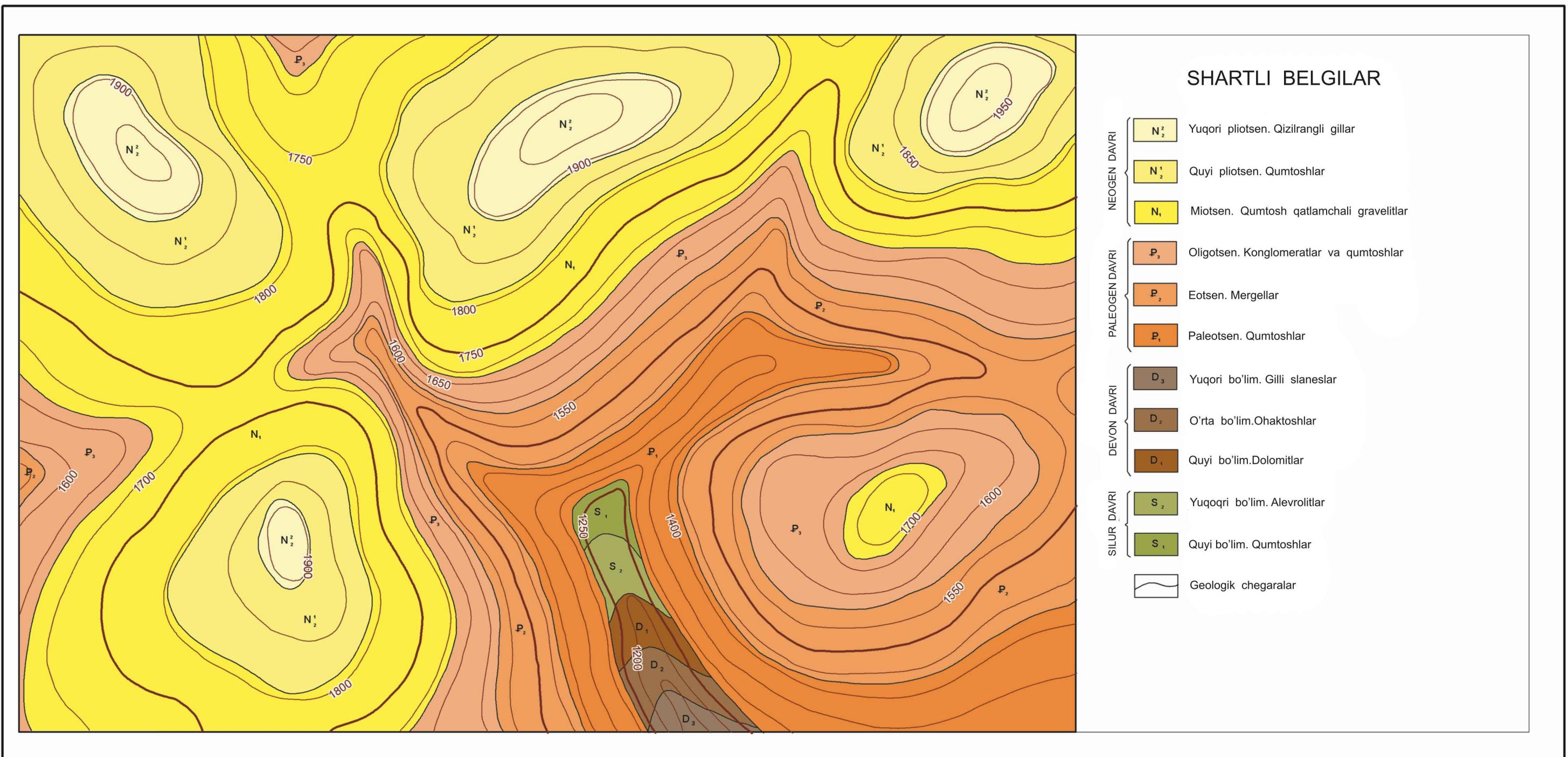
— stratigrafik nomuvofiq yotishi

~~~~~ burchak ostidagi nomuvofiq yotish

# O'QUV GEOLOGIK XARITA

Masshtab 1:25000

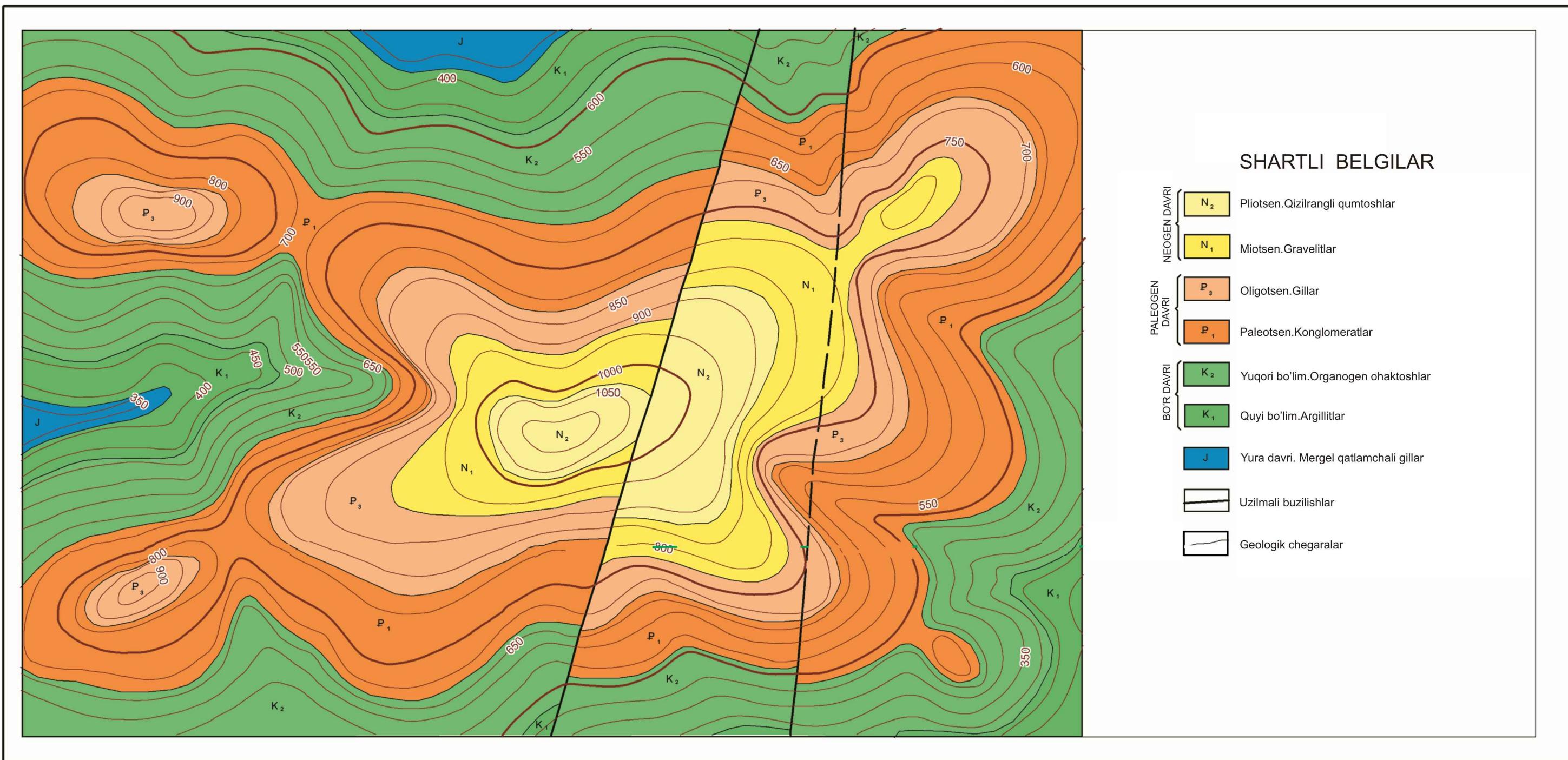
5-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10000

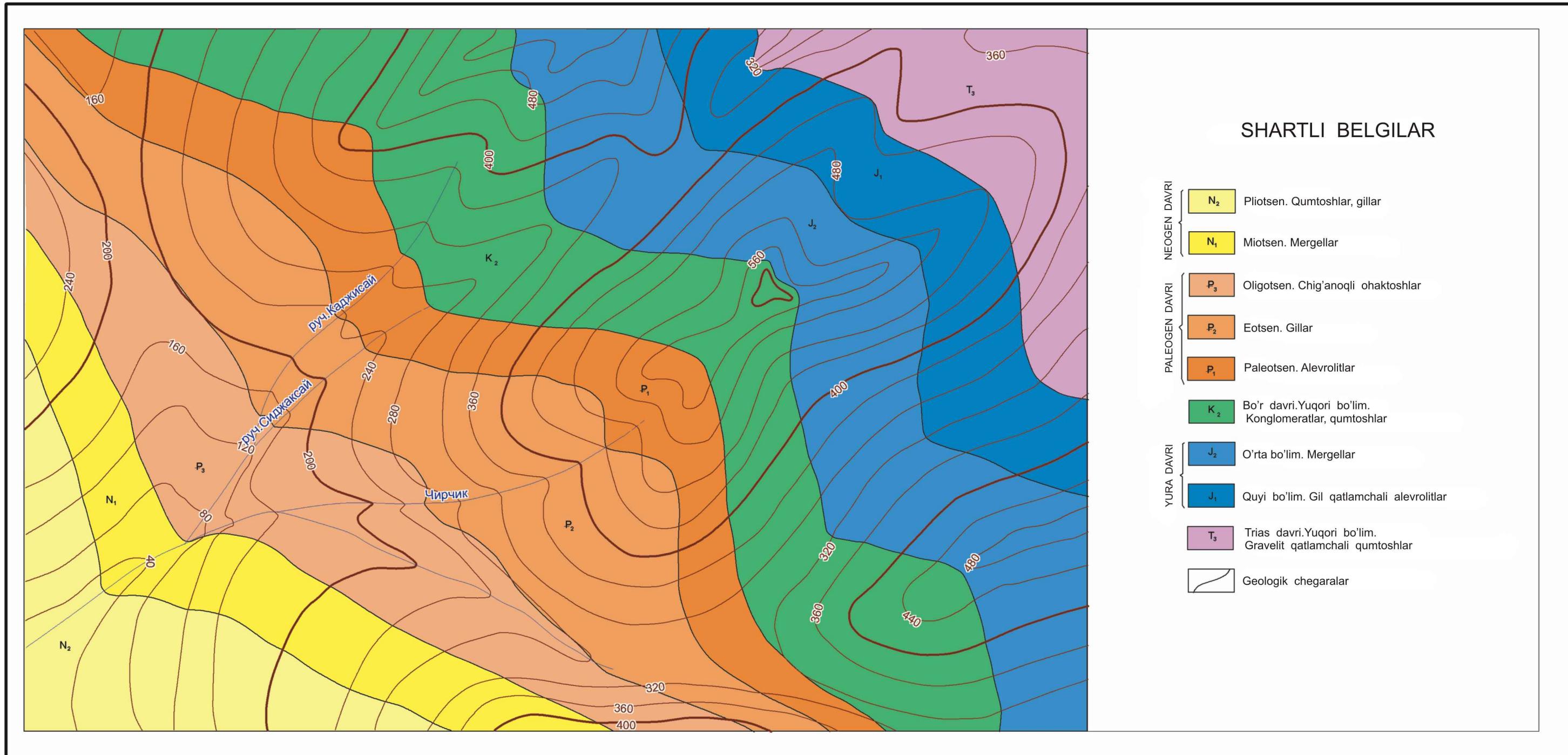
6-varaq



# O'QUV GEOLOGIK HARITA

Masshtab 1:5 000

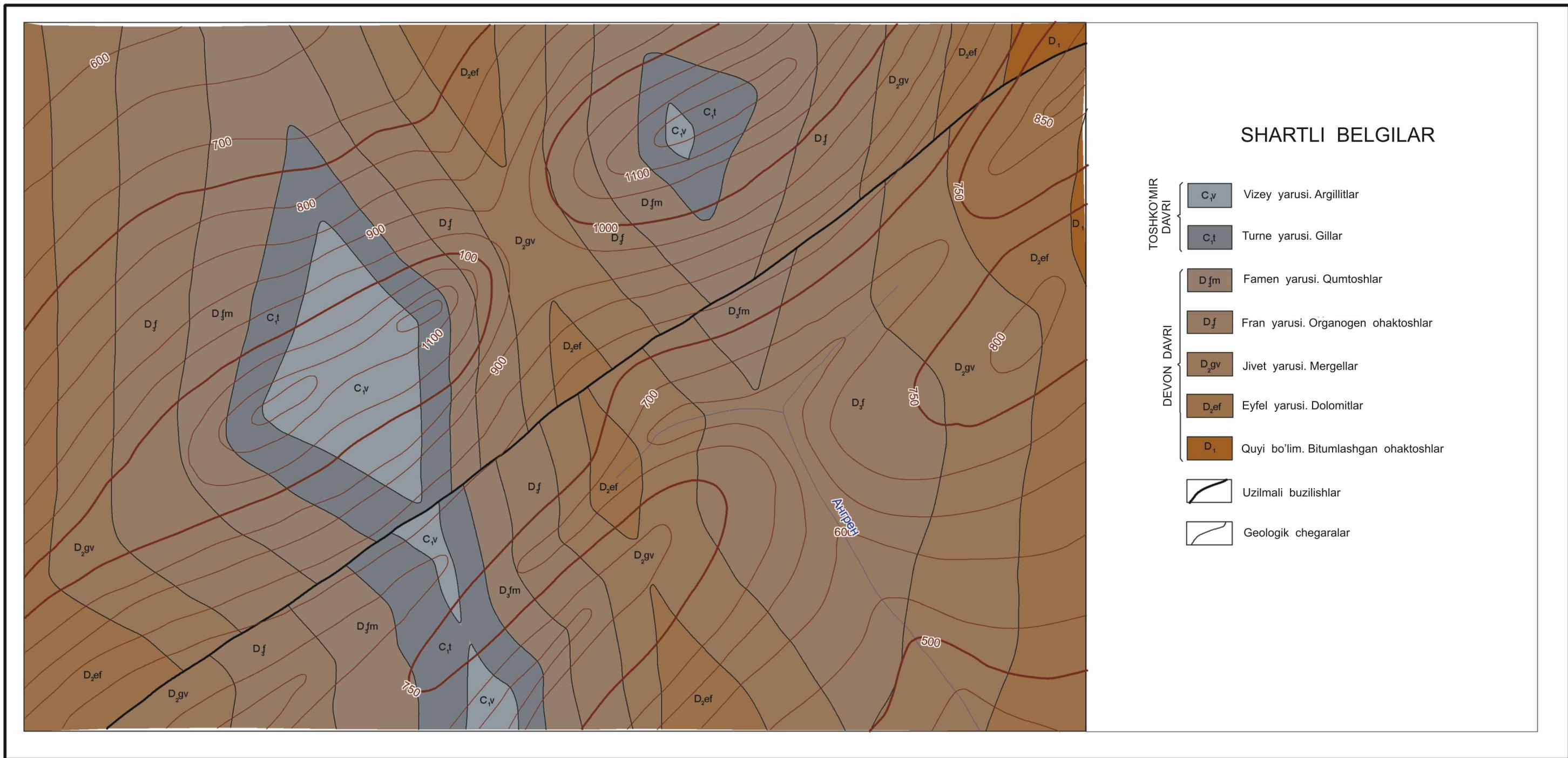
7-varaq



# O'QUV GEOLOGIK XARITA

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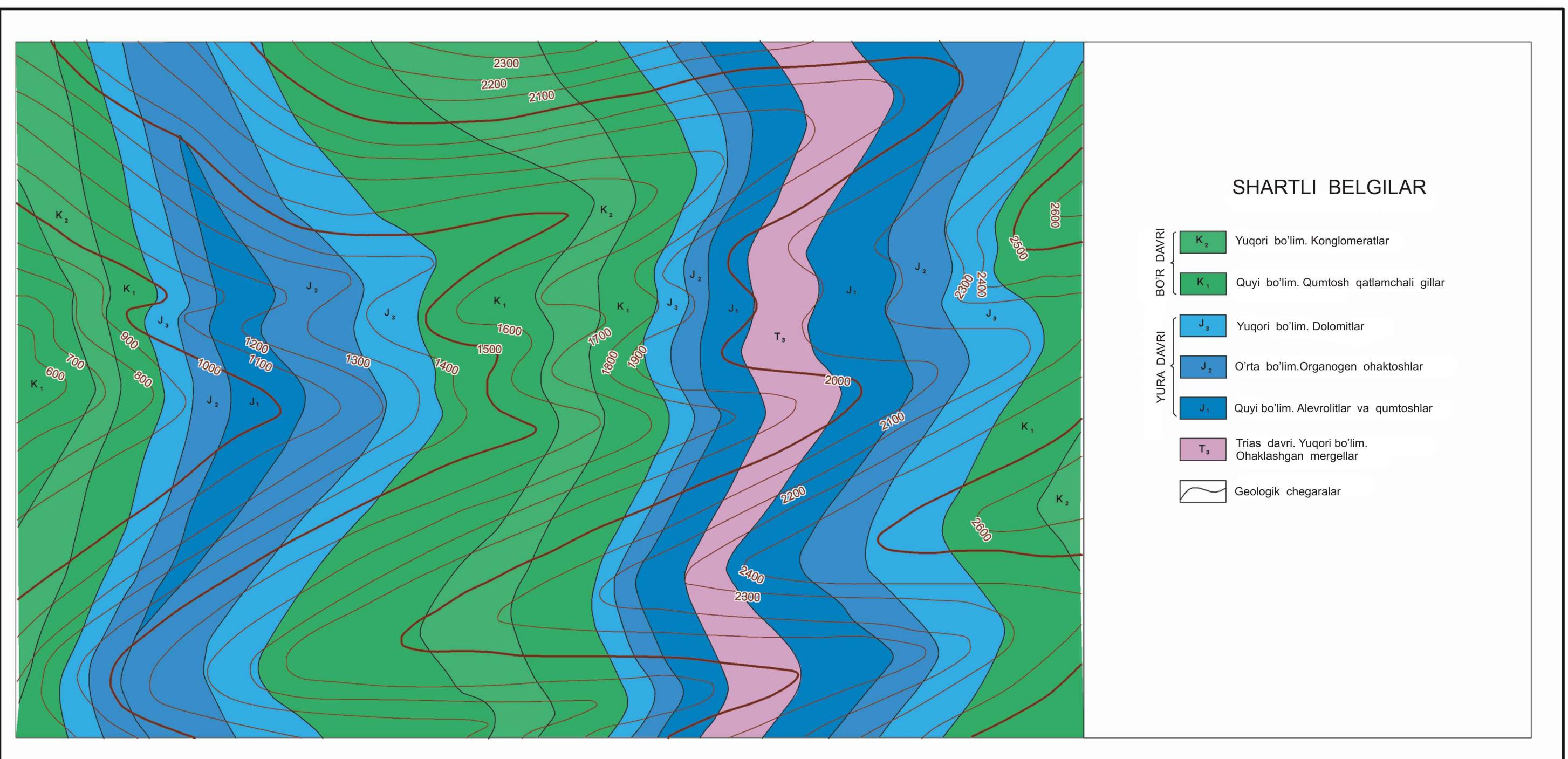
8-varaq



# O'QUV GEOLOGIK XARITA

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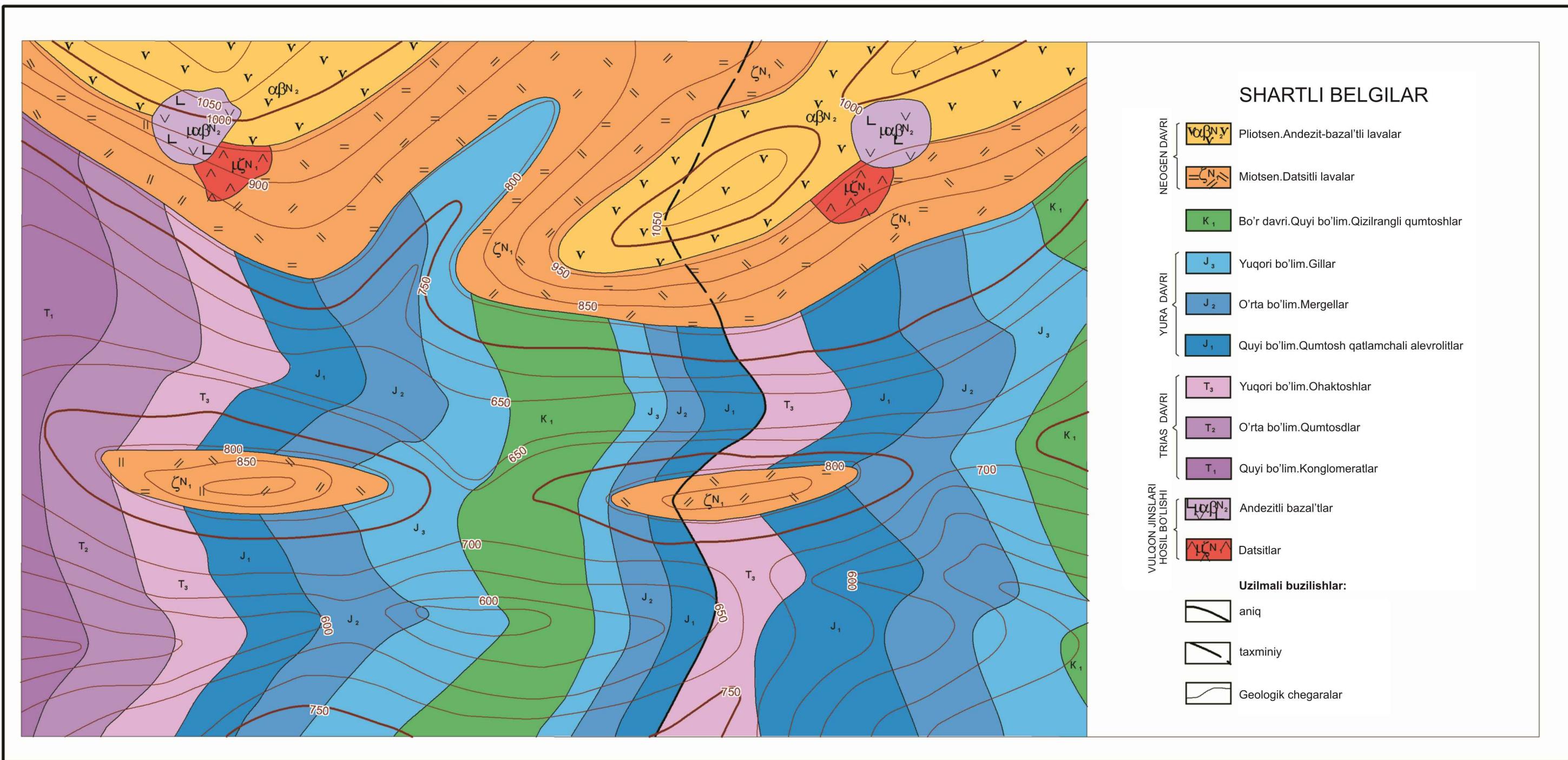
9-varaq



# O'QUV GEOLOGIK XARITA

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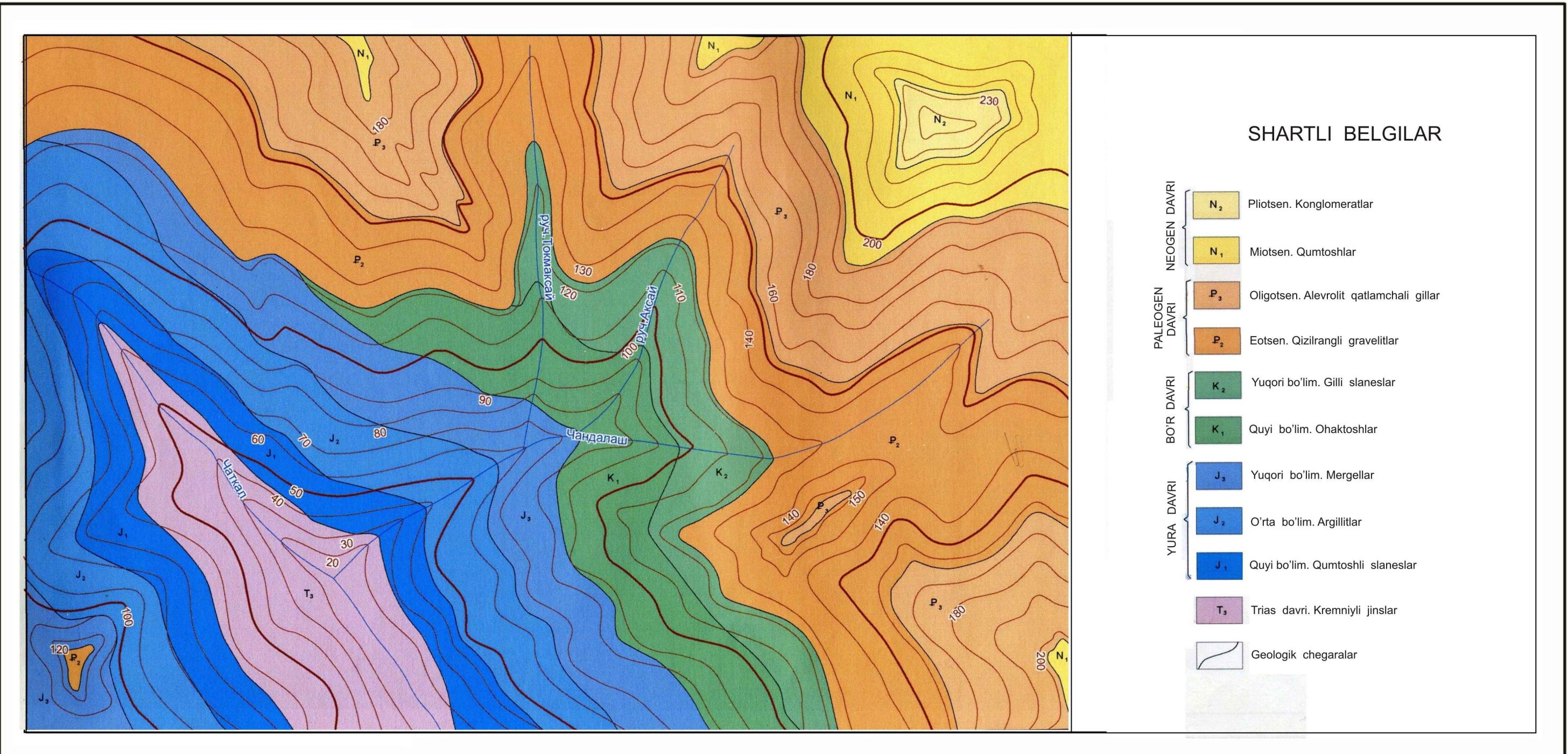
10-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:1000

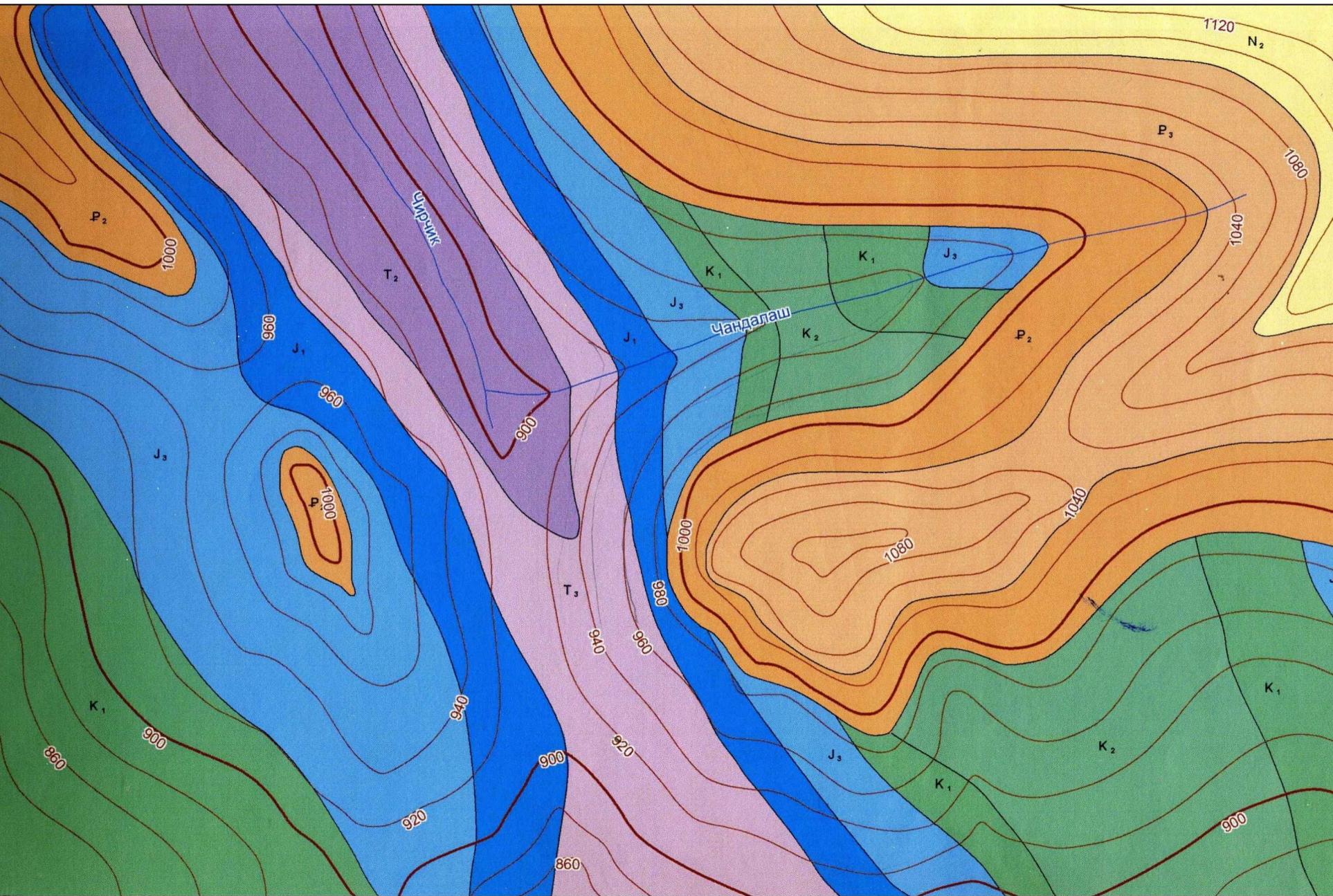
11-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:1000

12-varaq



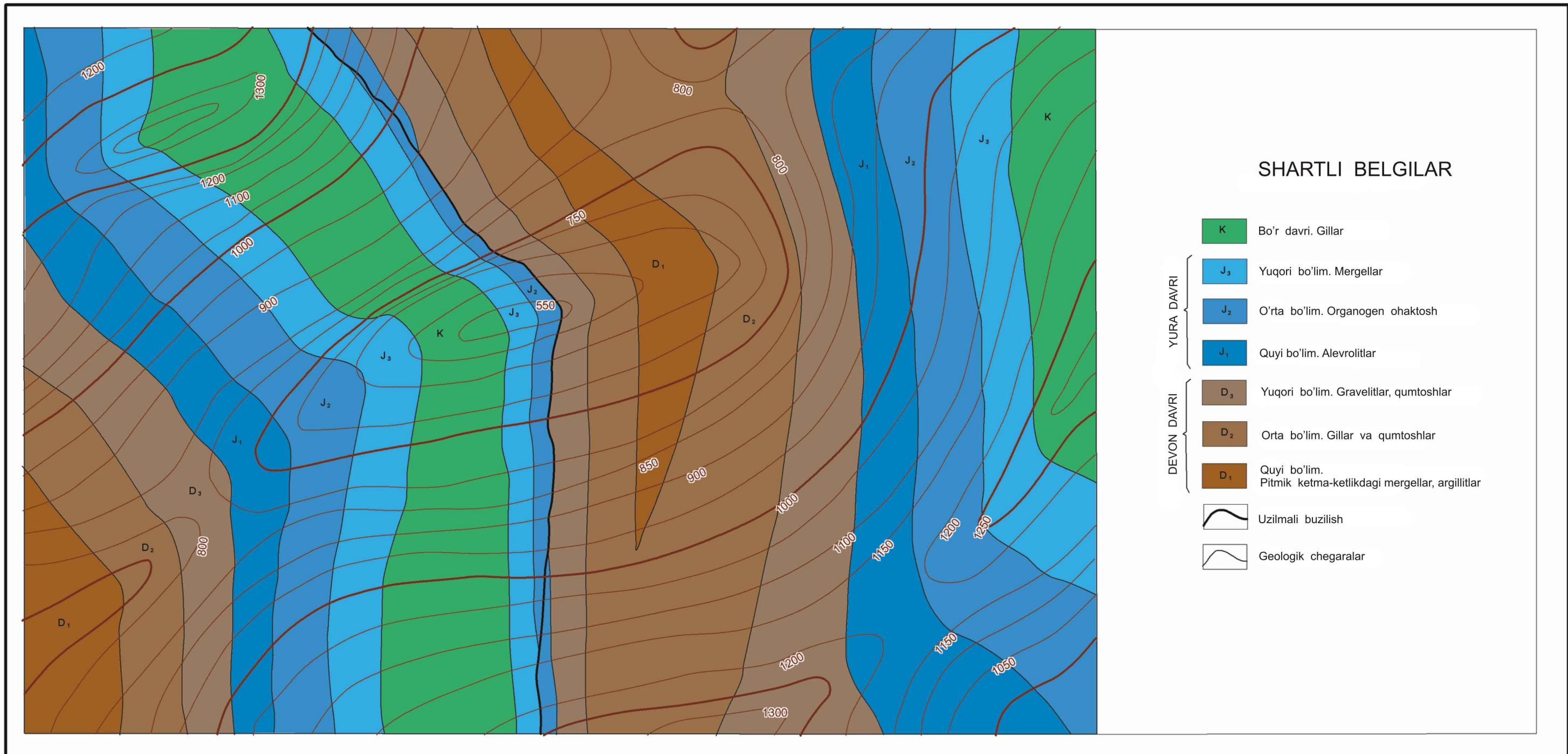
## SHARTLI BELGILAR

|                |                |                                                             |
|----------------|----------------|-------------------------------------------------------------|
| PALEOGEN DAVRI | N <sub>2</sub> | Pliotsen. Gil qatlamchali qumtoshlar                        |
|                | P <sub>3</sub> | Oligotsen. Qumtosh qatlamchali argillitlar                  |
|                | P <sub>2</sub> | Eotsen. Qizilrangli qumtoshlar, gravelitlar, konglomeratlar |
| BO'R DAVRI     | K <sub>2</sub> | Yuqori bo'lim. Mergellar                                    |
|                | K <sub>1</sub> | Quyi bo'lim. Gillar                                         |
| YURA DAVRI     | J <sub>3</sub> | Yuqori bo'lim. Qalinqatlamli ohaktoshlar                    |
|                | J <sub>2</sub> | Quyi bo'lim. Qumtoshlar va gillar                           |
| TRIAS DAVRI    | T <sub>3</sub> | Yuqori bo'lim. Mergelli ohaktoshlar                         |
|                | T <sub>2</sub> | O'rta bo'lim. Dolomitlar                                    |
|                |                | Geologik chegaralar                                         |

# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

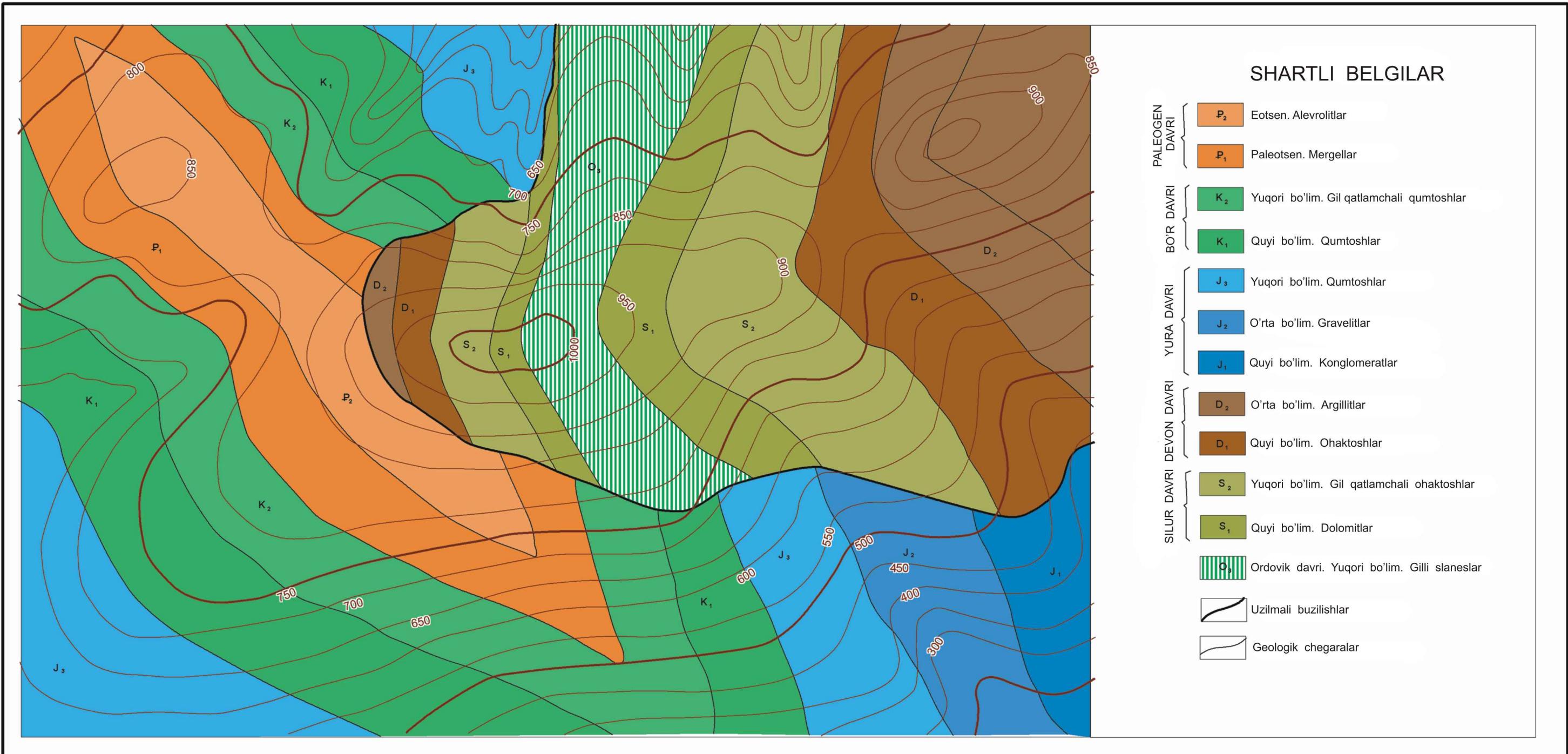
13-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

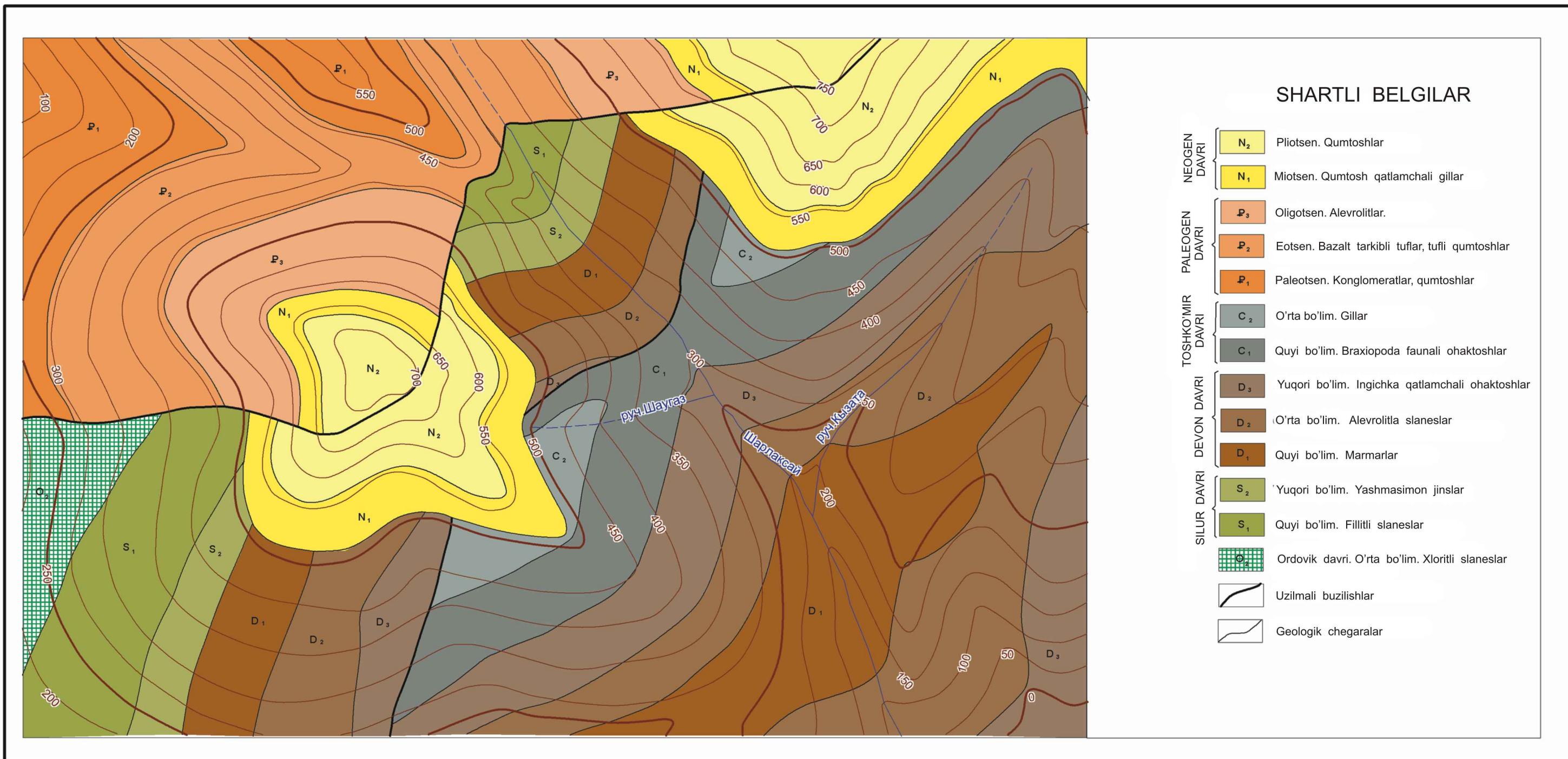
14-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:5 000

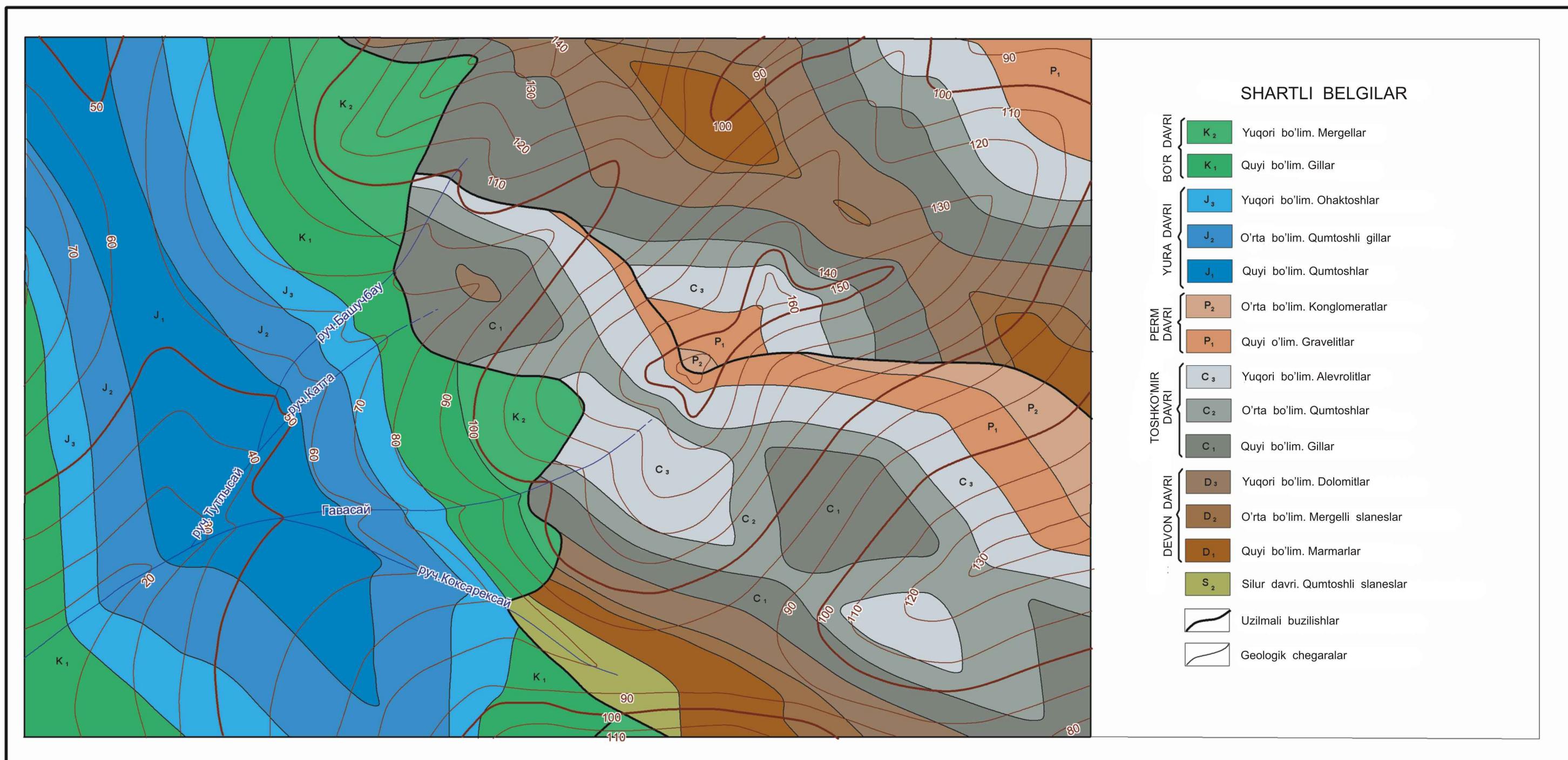
15-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

16-varaq



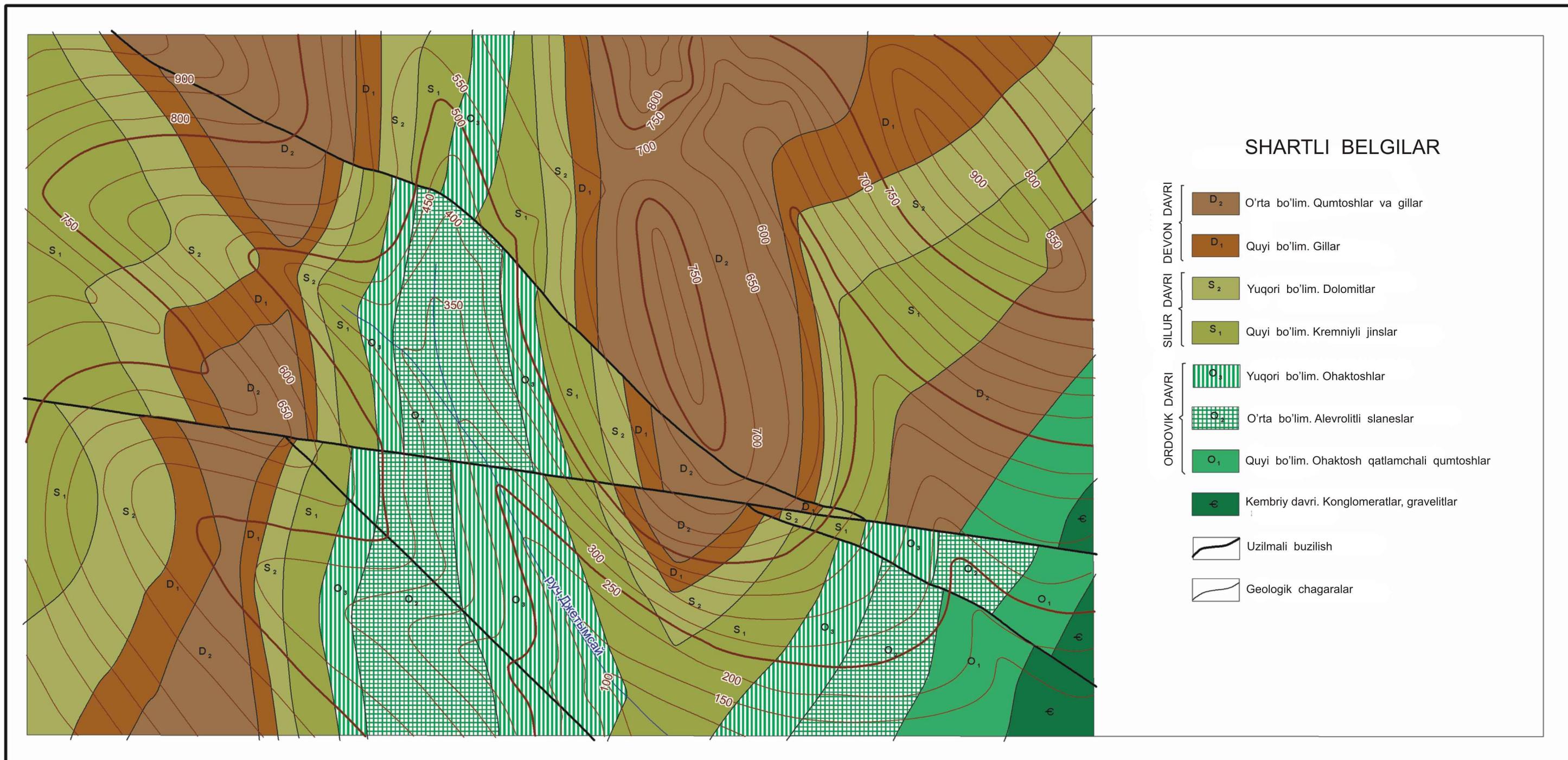
## SHARTLI BELGILAR

|                 |                                  |                                |
|-----------------|----------------------------------|--------------------------------|
| BO'R DAVRI      | K <sub>2</sub>                   | Yuqori bo'lim. Mergellar       |
|                 | K <sub>1</sub>                   | Quyi bo'lim. Gillar            |
| YURA DAVRI      | J <sub>3</sub>                   | Yuqori bo'lim. Ohaktoshlar     |
|                 | J <sub>2</sub>                   | O'rta bo'lim. Qumtoshli gillar |
| PERM DAVRI      | J <sub>1</sub>                   | Quyi bo'lim. Qumtoshlar        |
|                 | P <sub>2</sub>                   | O'rta bo'lim. Konglomeratlar   |
| TOSHKOMIR DAVRI | P <sub>1</sub>                   | Quyi o'lim. Gravelitlar        |
|                 | C <sub>3</sub>                   | Yuqori bo'lim. Alevrolitlar    |
| DEVON DAVRI     | C <sub>2</sub>                   | O'rta bo'lim. Qumtoshlar       |
|                 | C <sub>1</sub>                   | Quyi bo'lim. Gillar            |
| D <sub>3</sub>  | Yuqori bo'lim. Dolomitlar        |                                |
| D <sub>2</sub>  | O'rta bo'lim. Mergelli slaneslar |                                |
| D <sub>1</sub>  | Quyi bo'lim. Marmarlar           |                                |
| S <sub>2</sub>  | Silur davri. Qumtoshli slaneslar |                                |
|                 | Uzilmali buzilishlar             |                                |
|                 | Geologik chegaralar              |                                |

# O'QUV GEOLOGIK XARITA

Masshtab 1:5 000

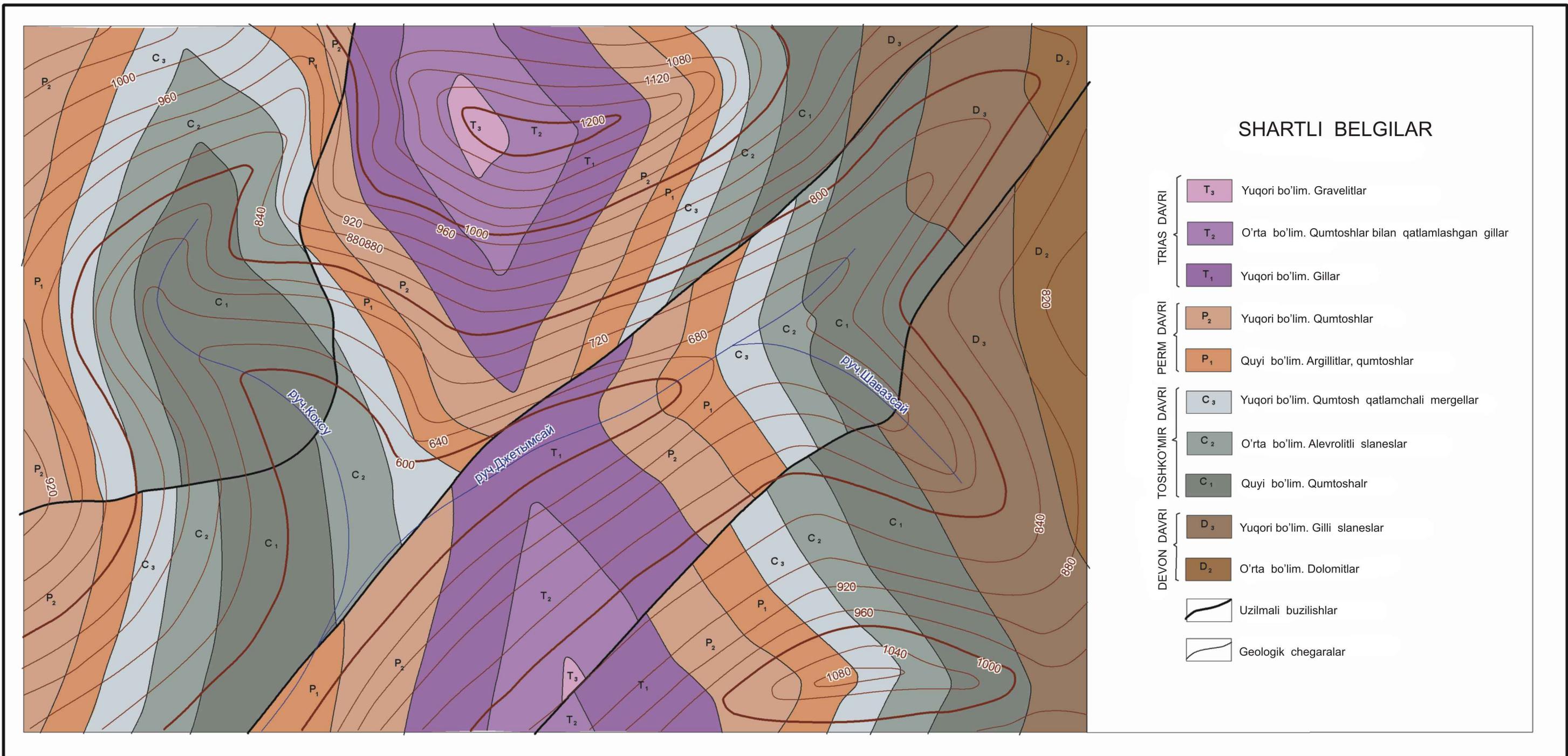
17-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:5 000

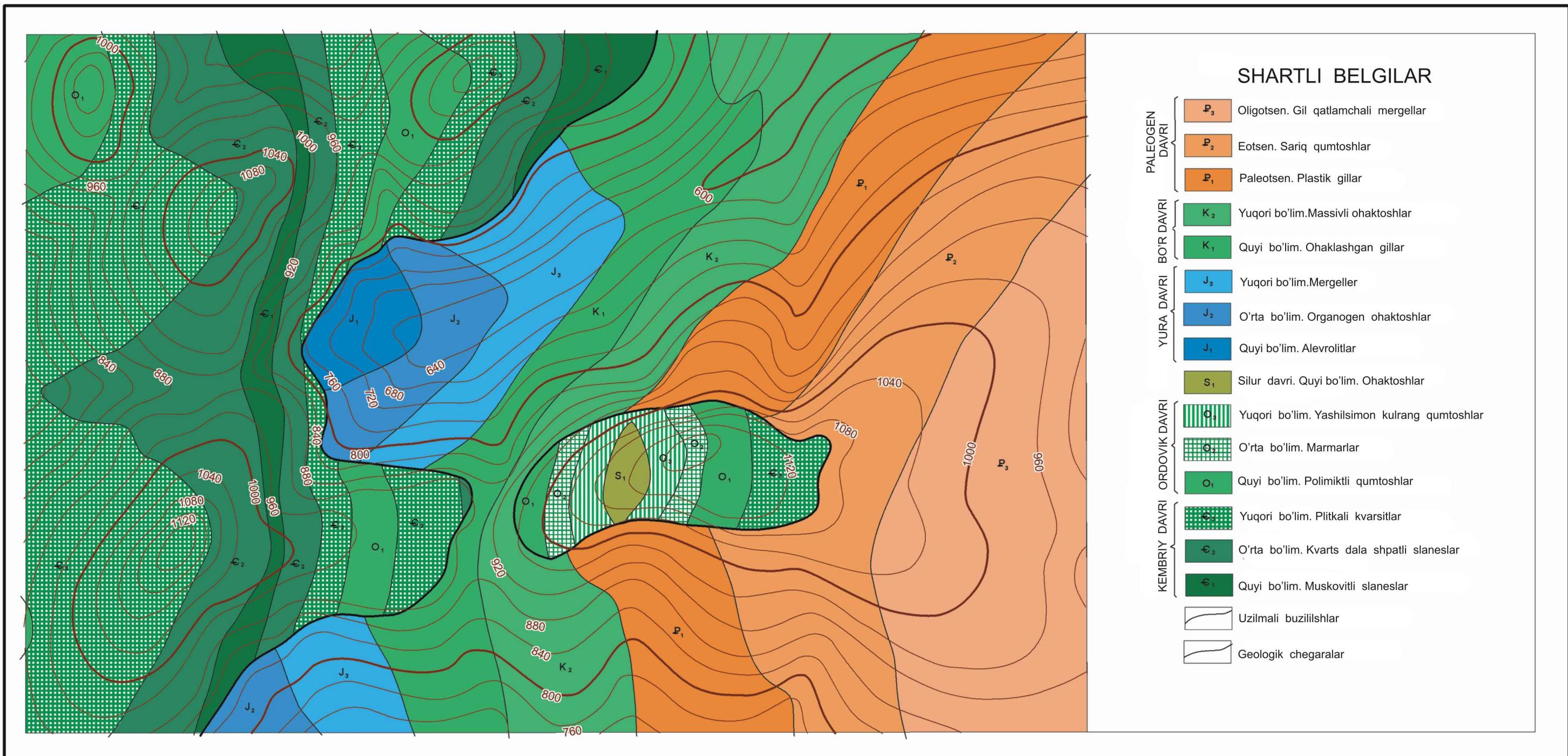
18-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:5 000

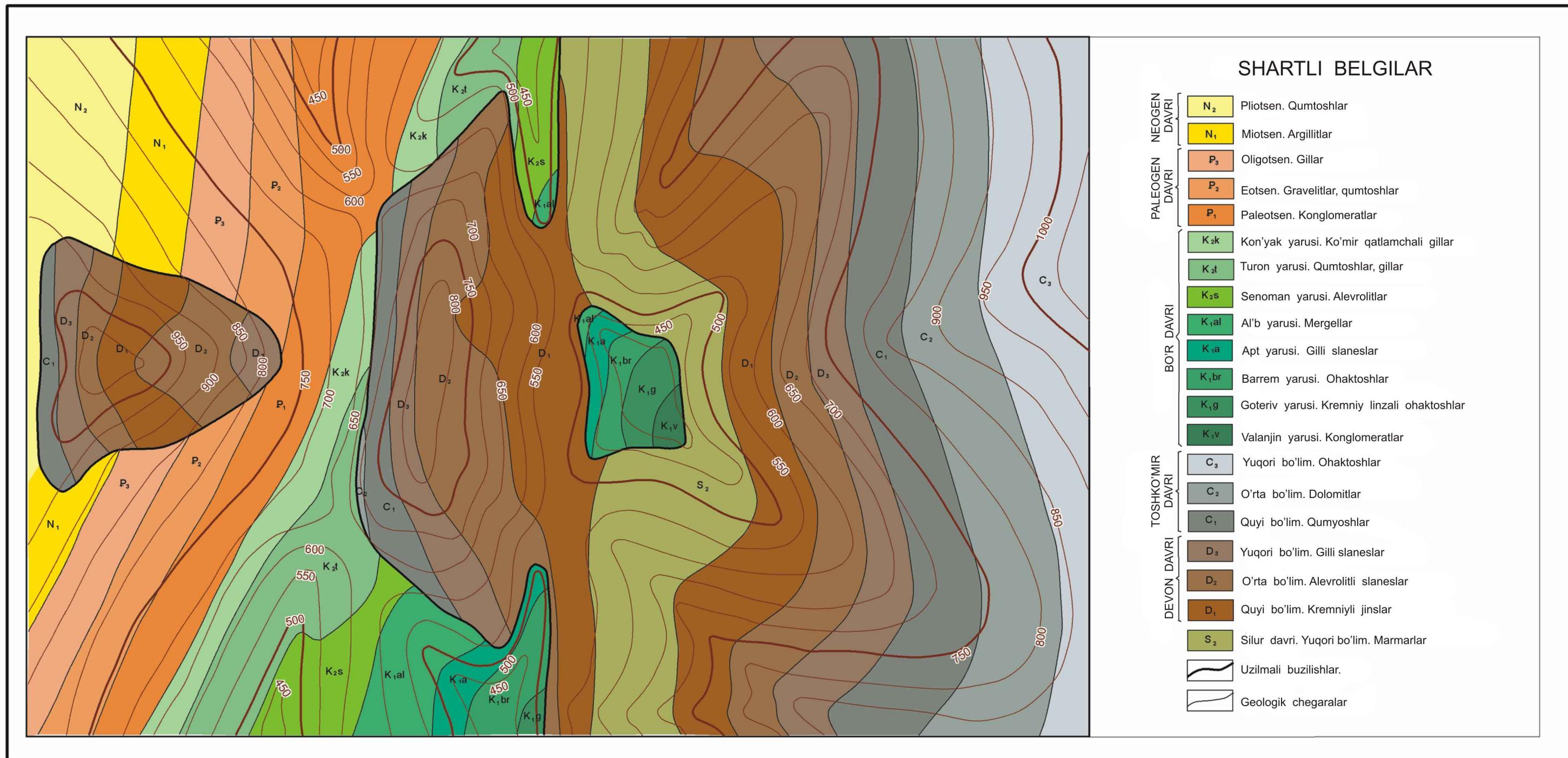
19-varaq



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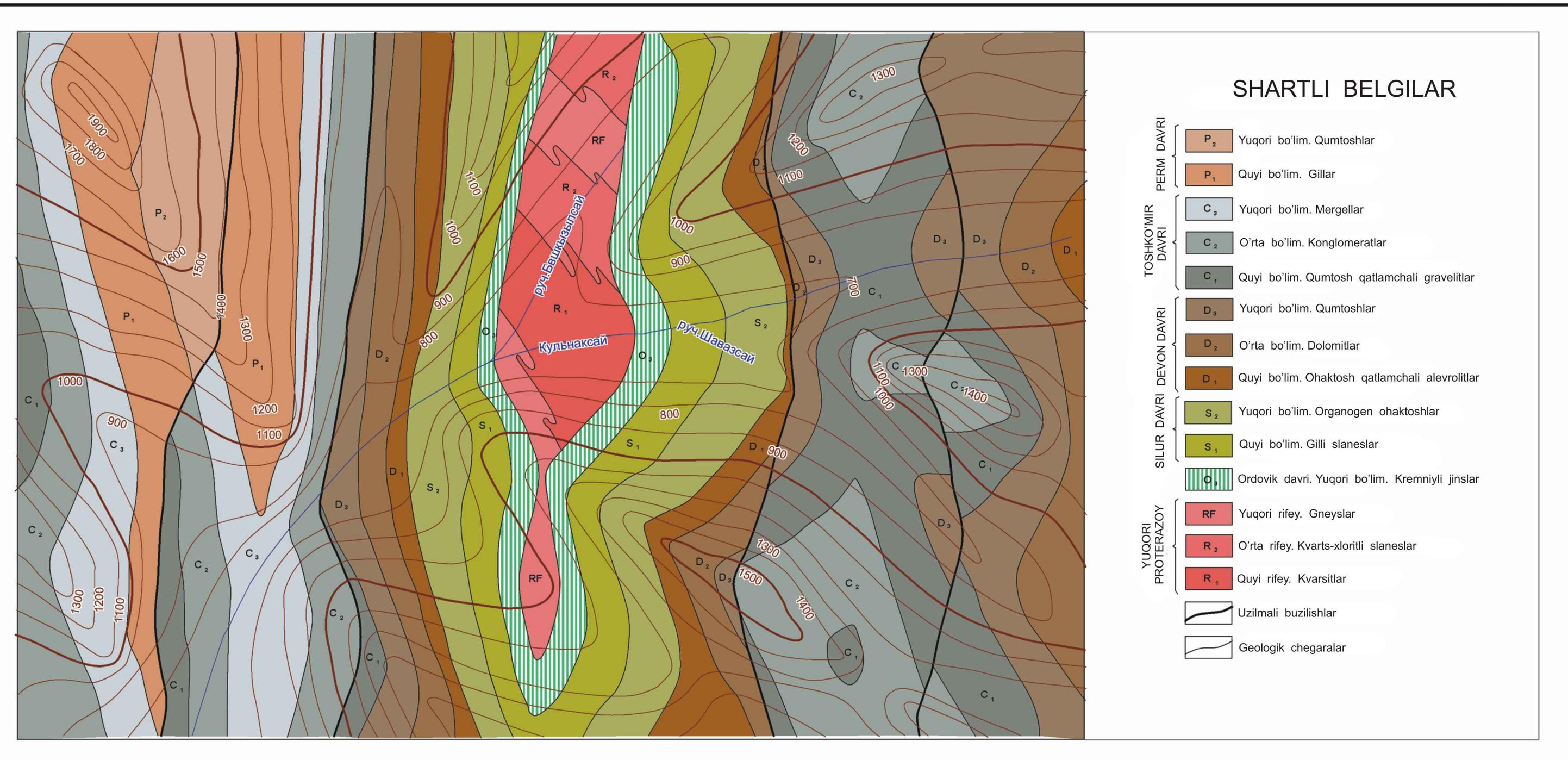
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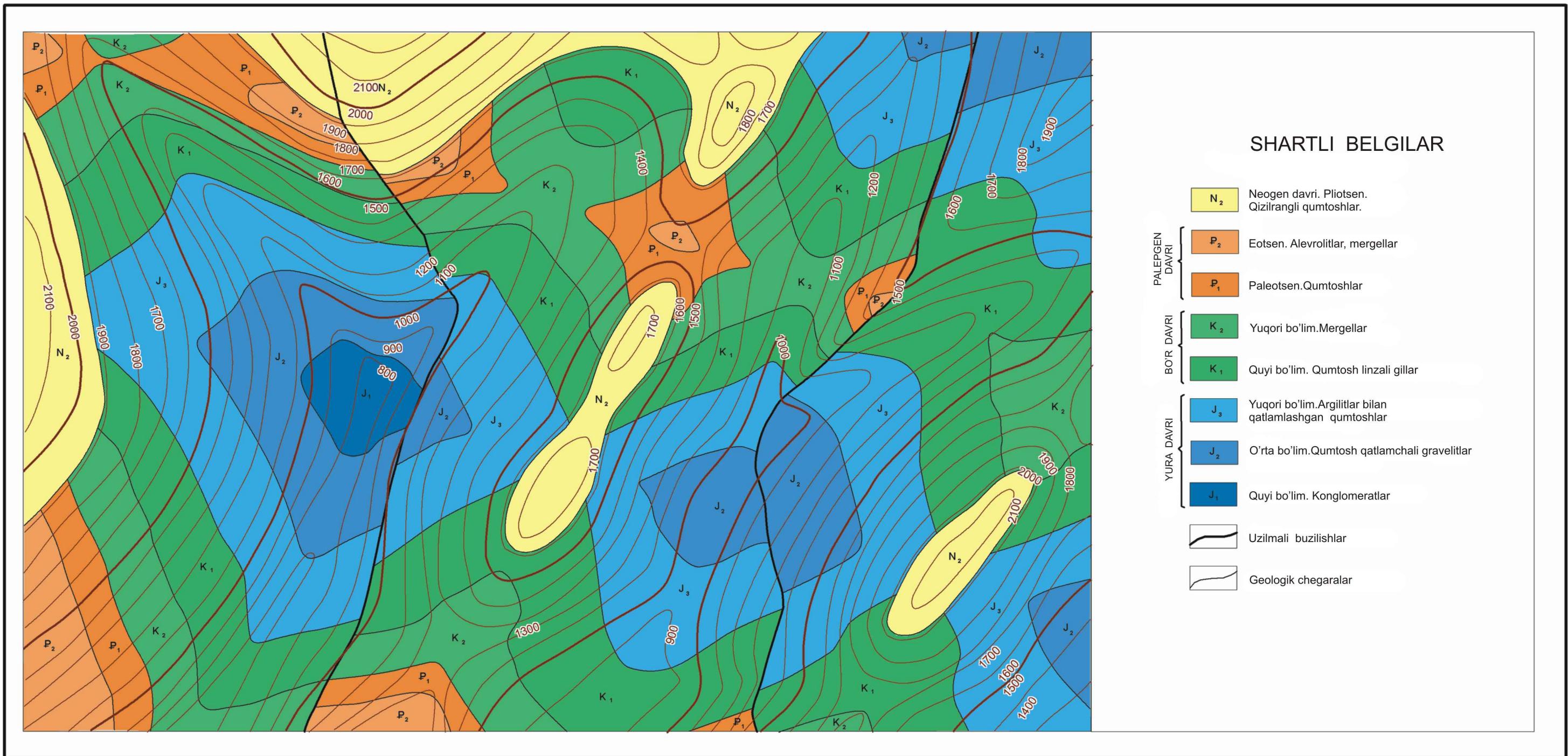
21-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

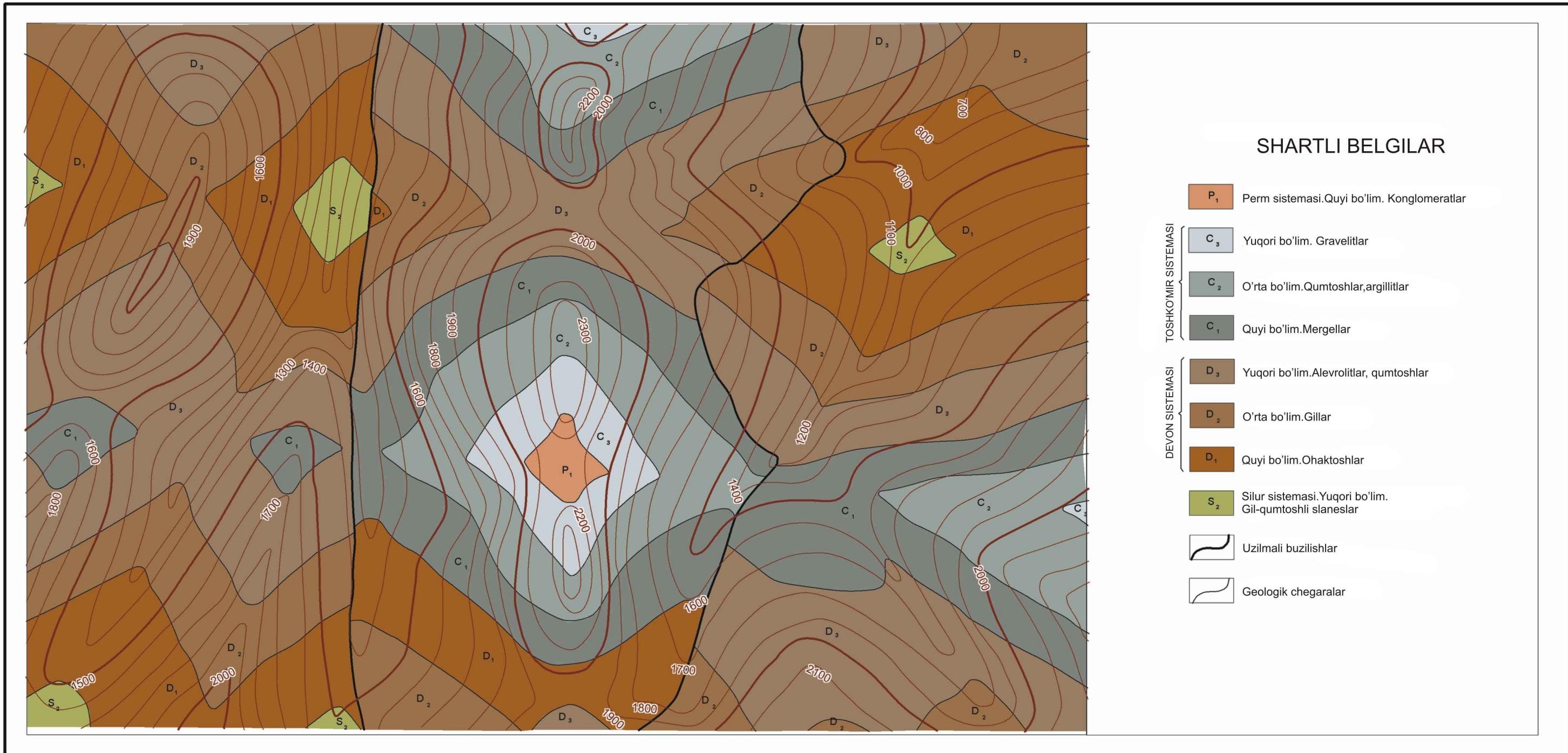
22-varaq



# O'QUV GEOLOGIK HARITA

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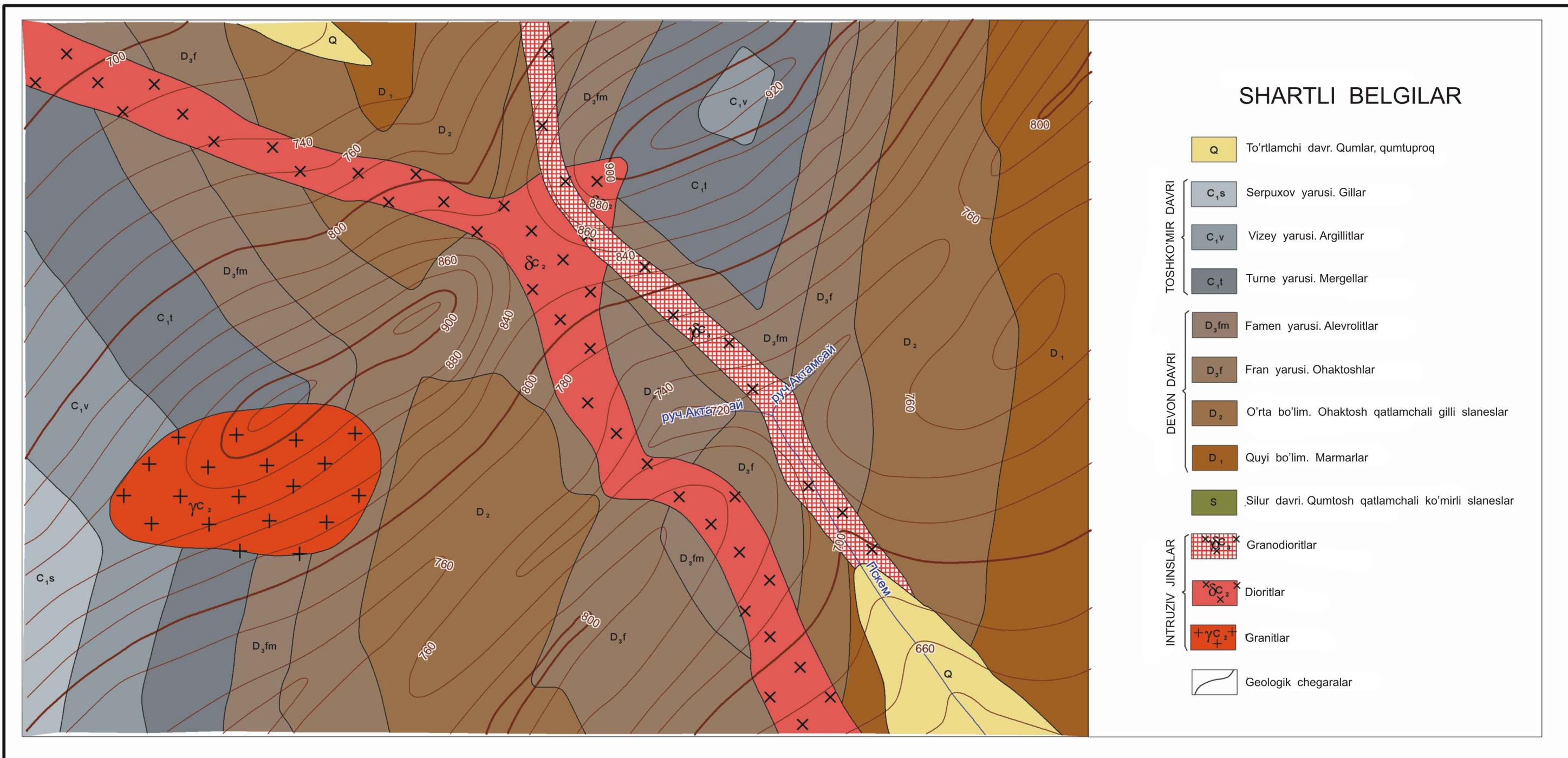
23-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:1 000

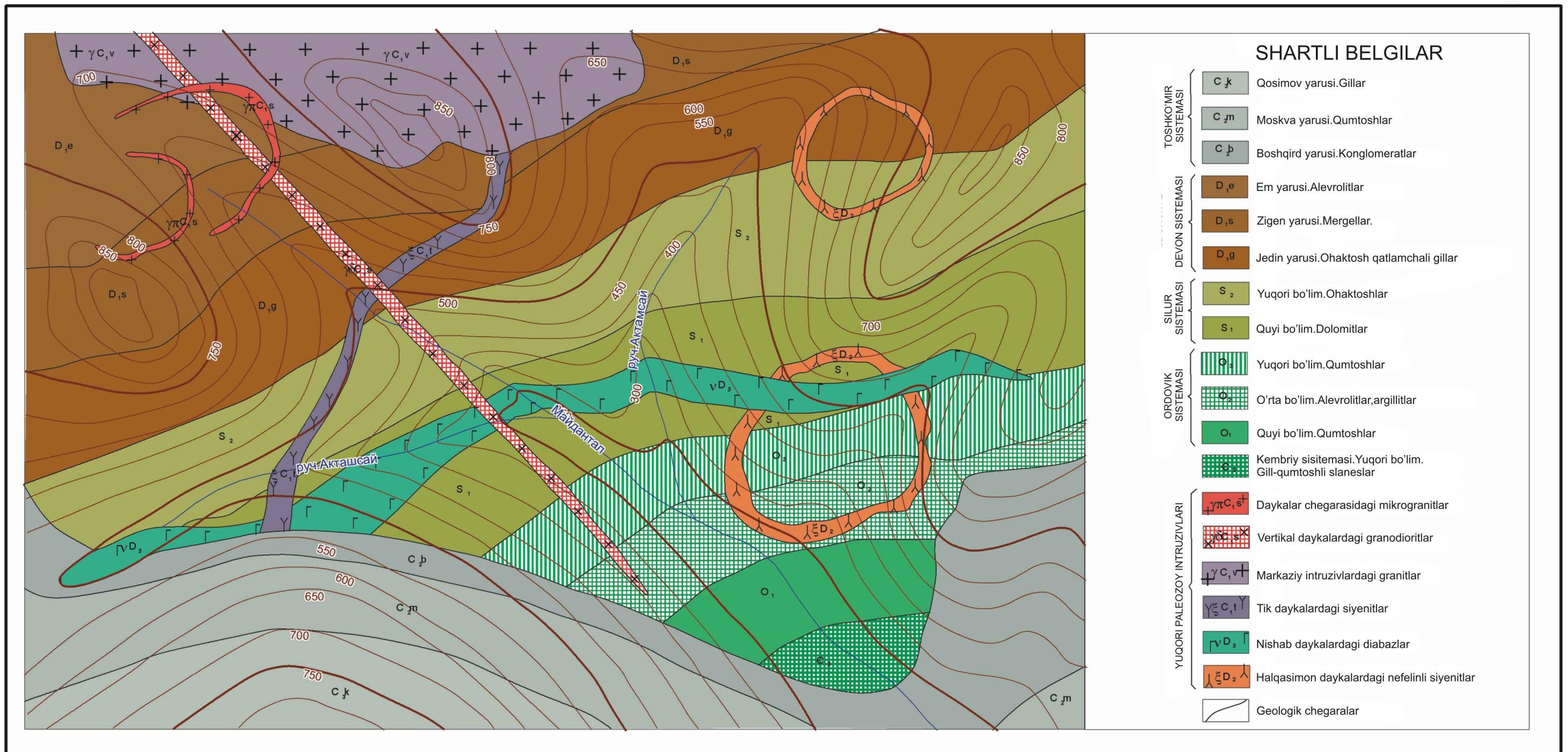
24-varaq



# O'QUV GEOLOGIK XARITA

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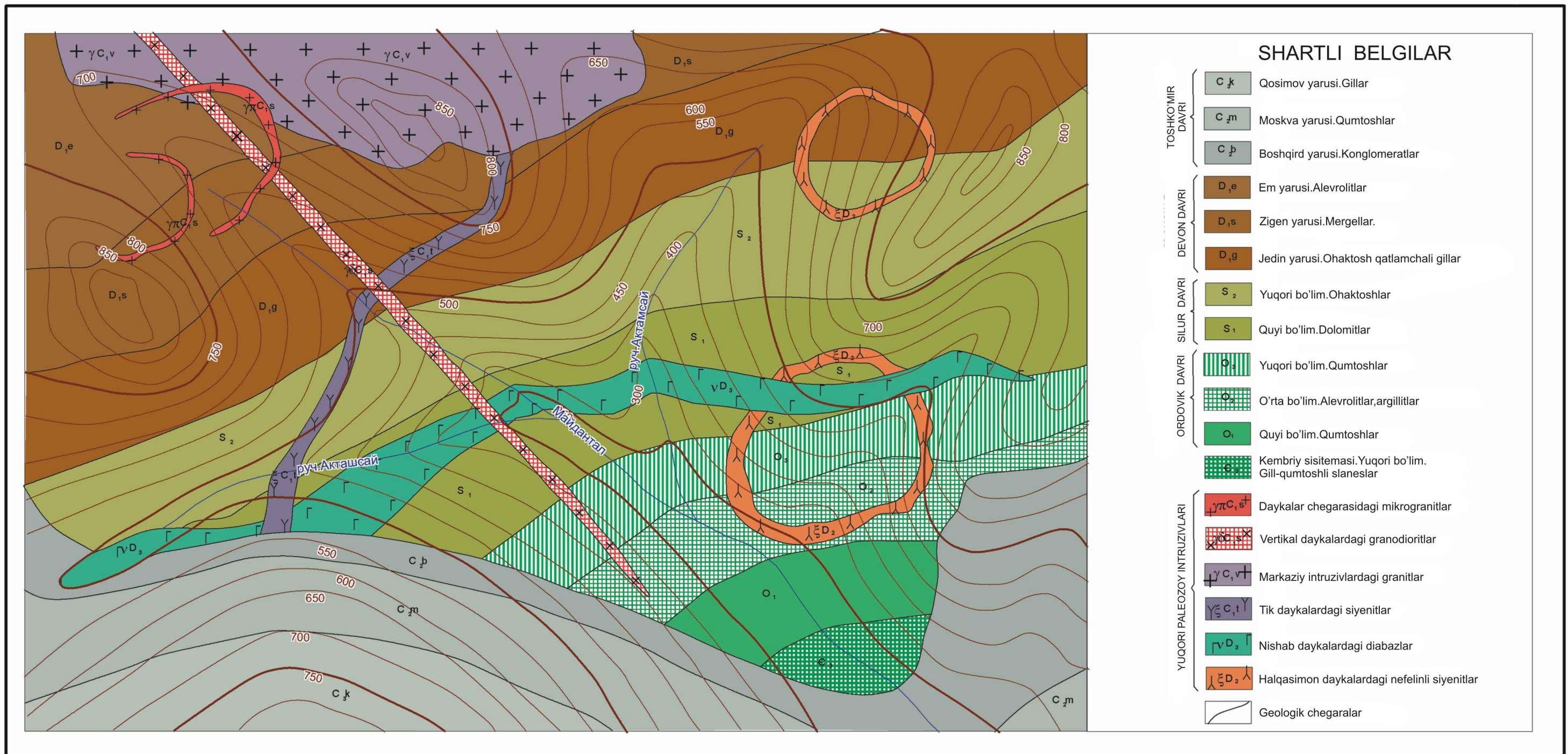
25-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

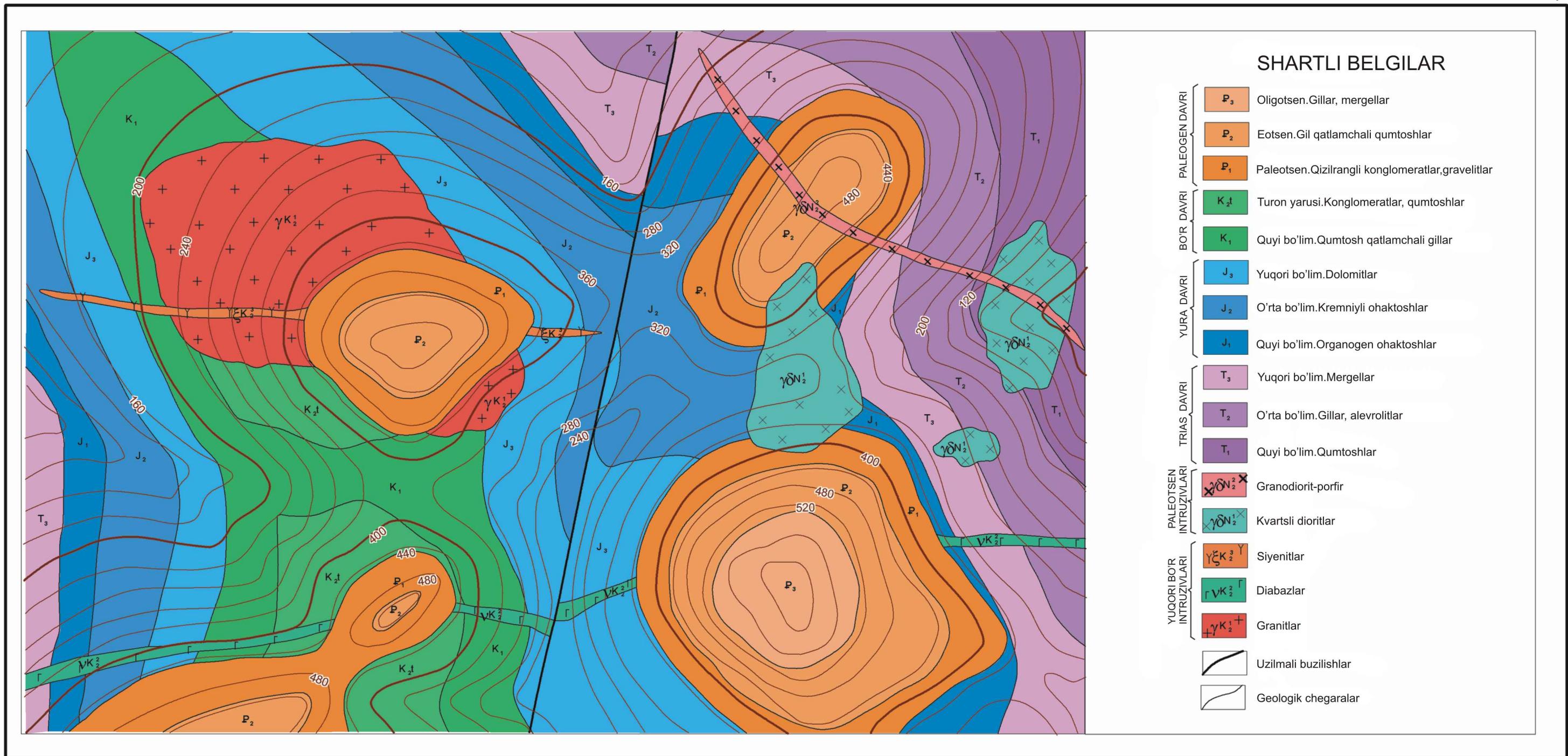
25-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10000

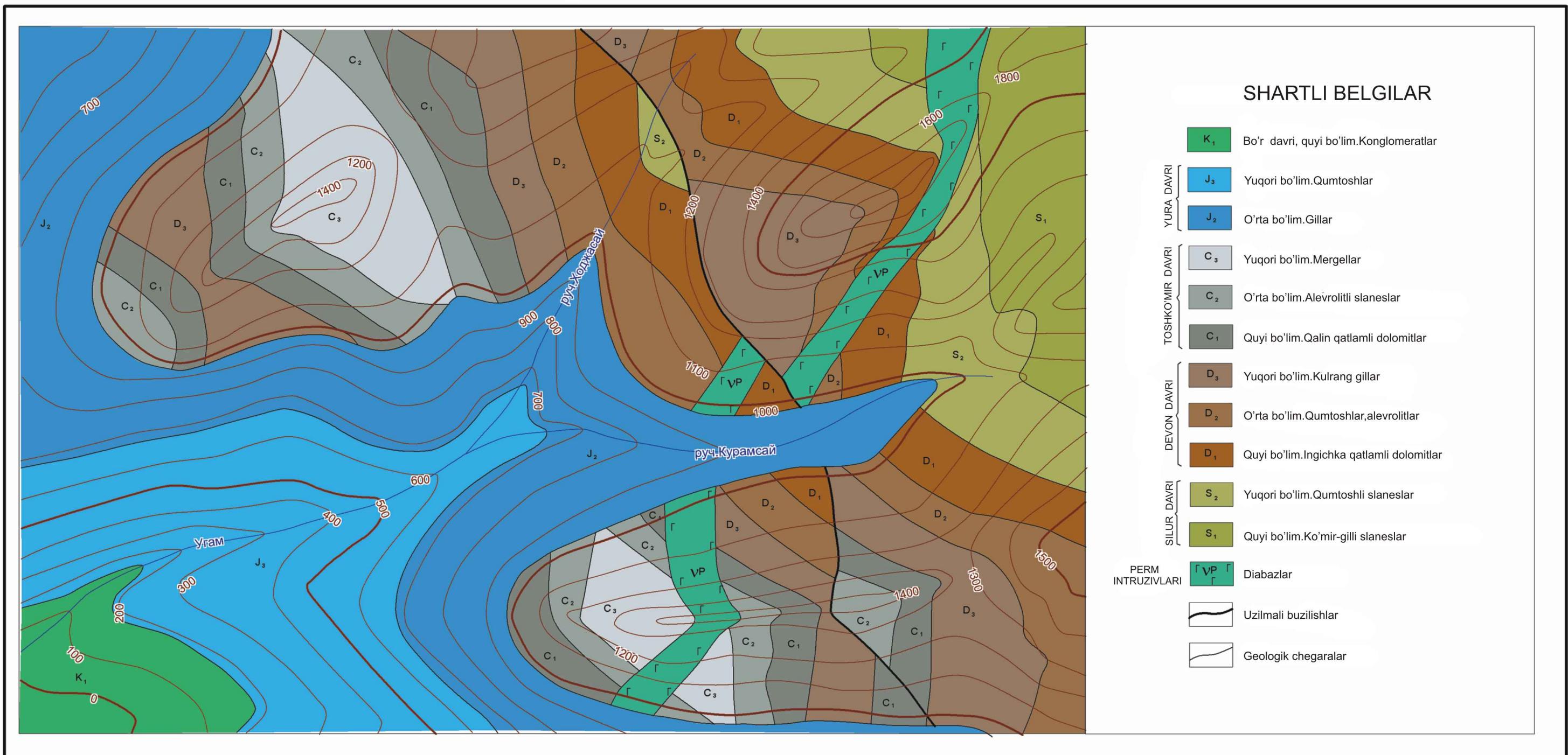
26-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

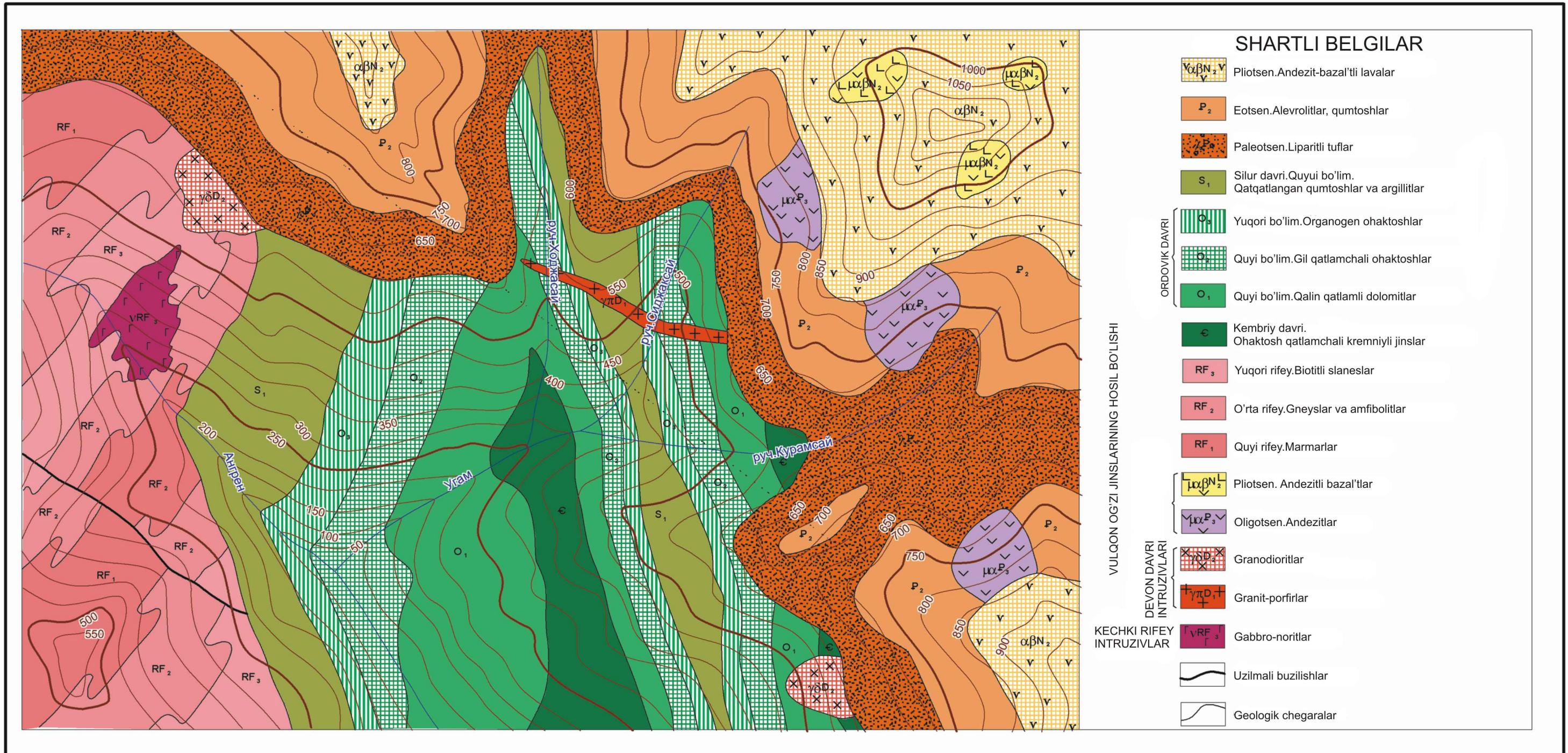
27-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10 000

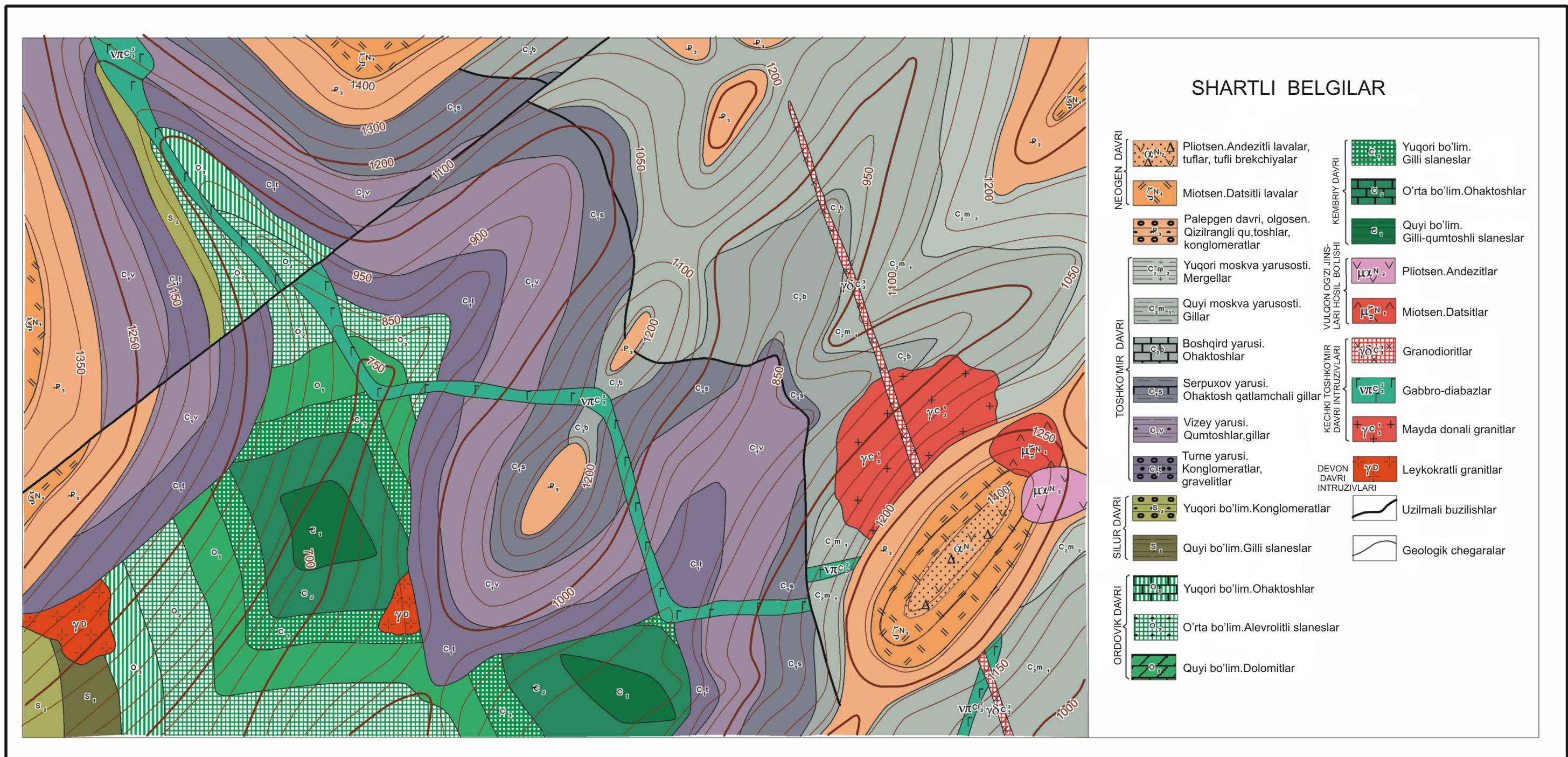
28-varaq



# O'QUV GEOLOGIK XARITA

Massstab 1:5000

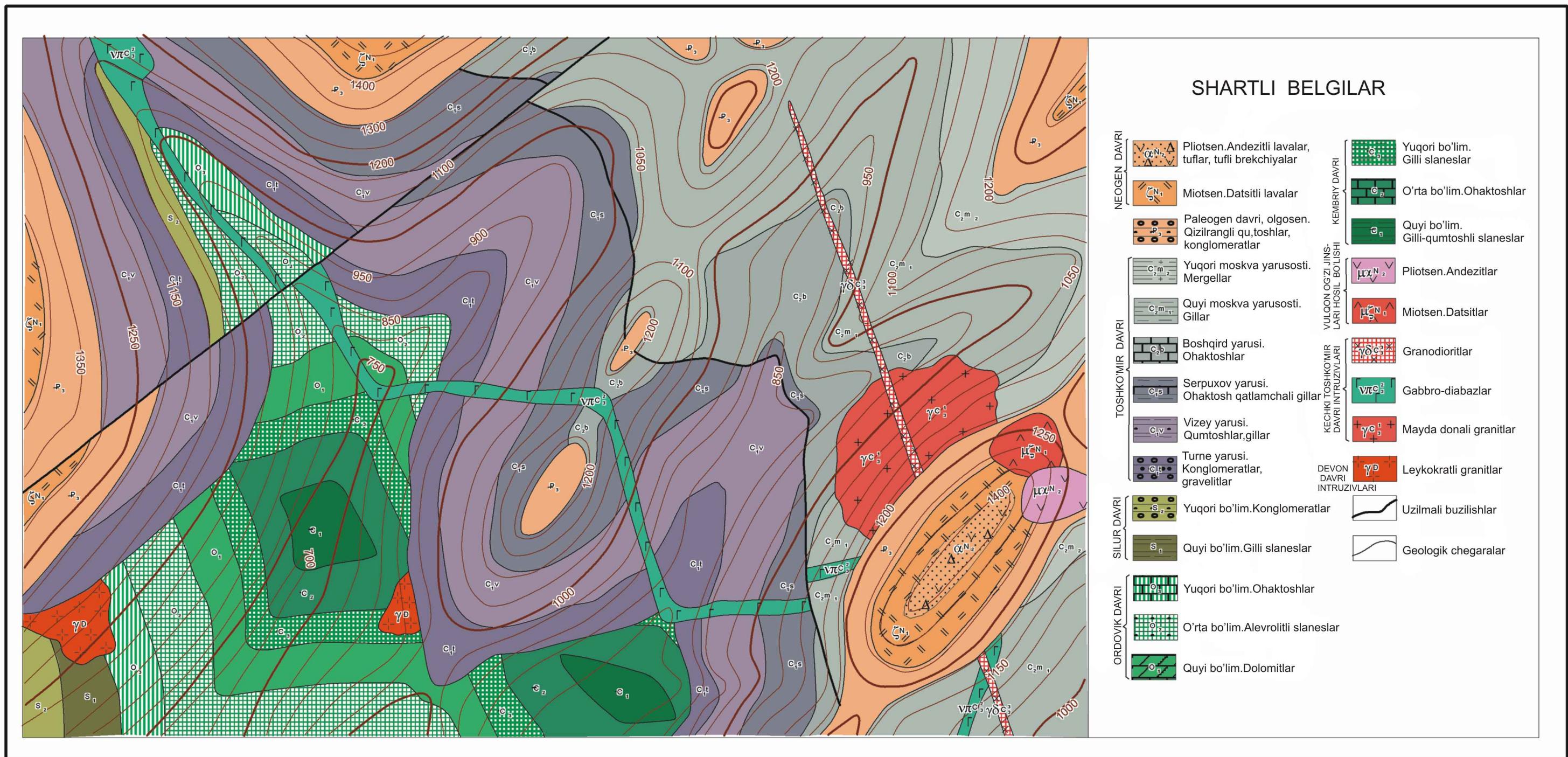
29-varaq



# O'QUV GEOLOGIK XARITA

Massstab 1:5000

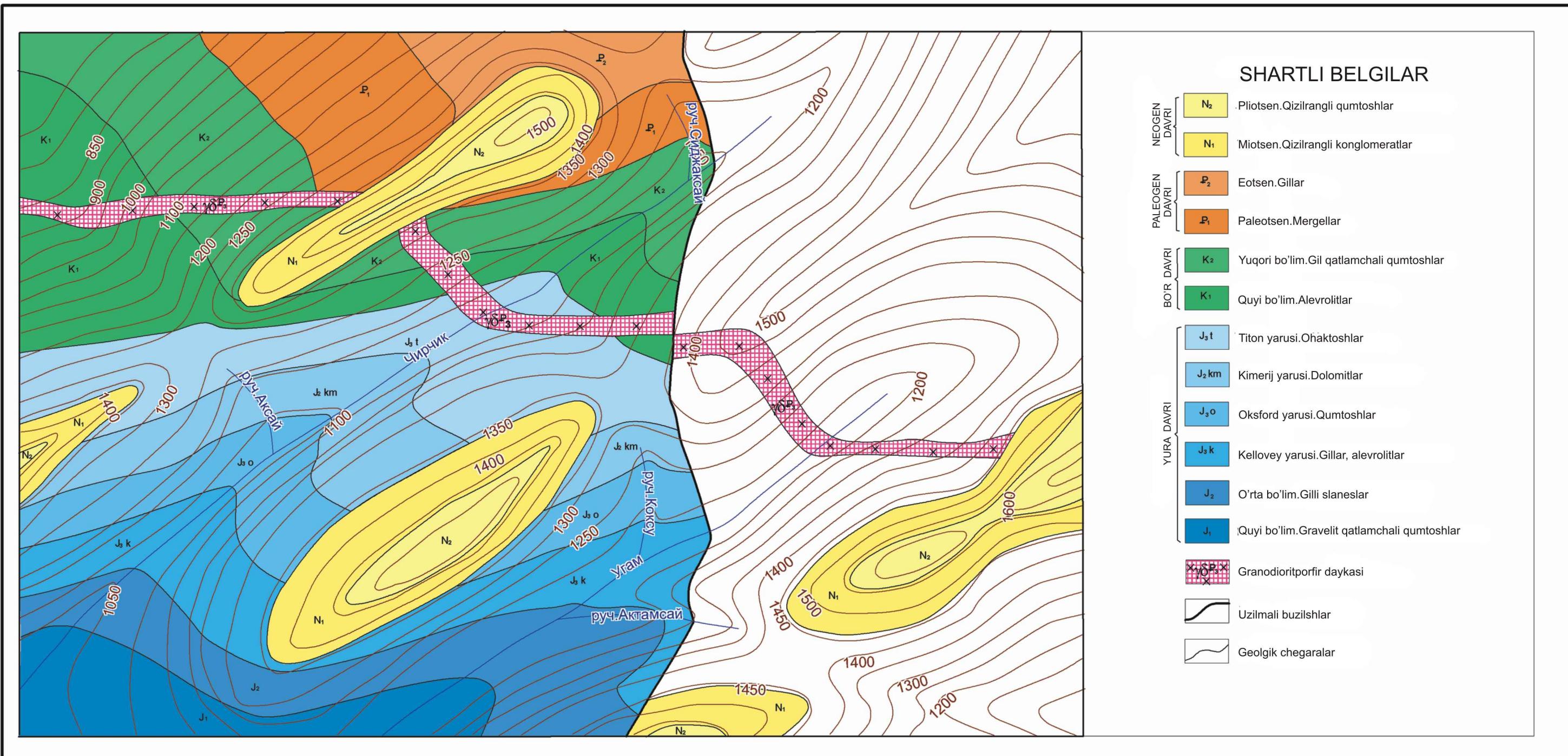
29-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:10000

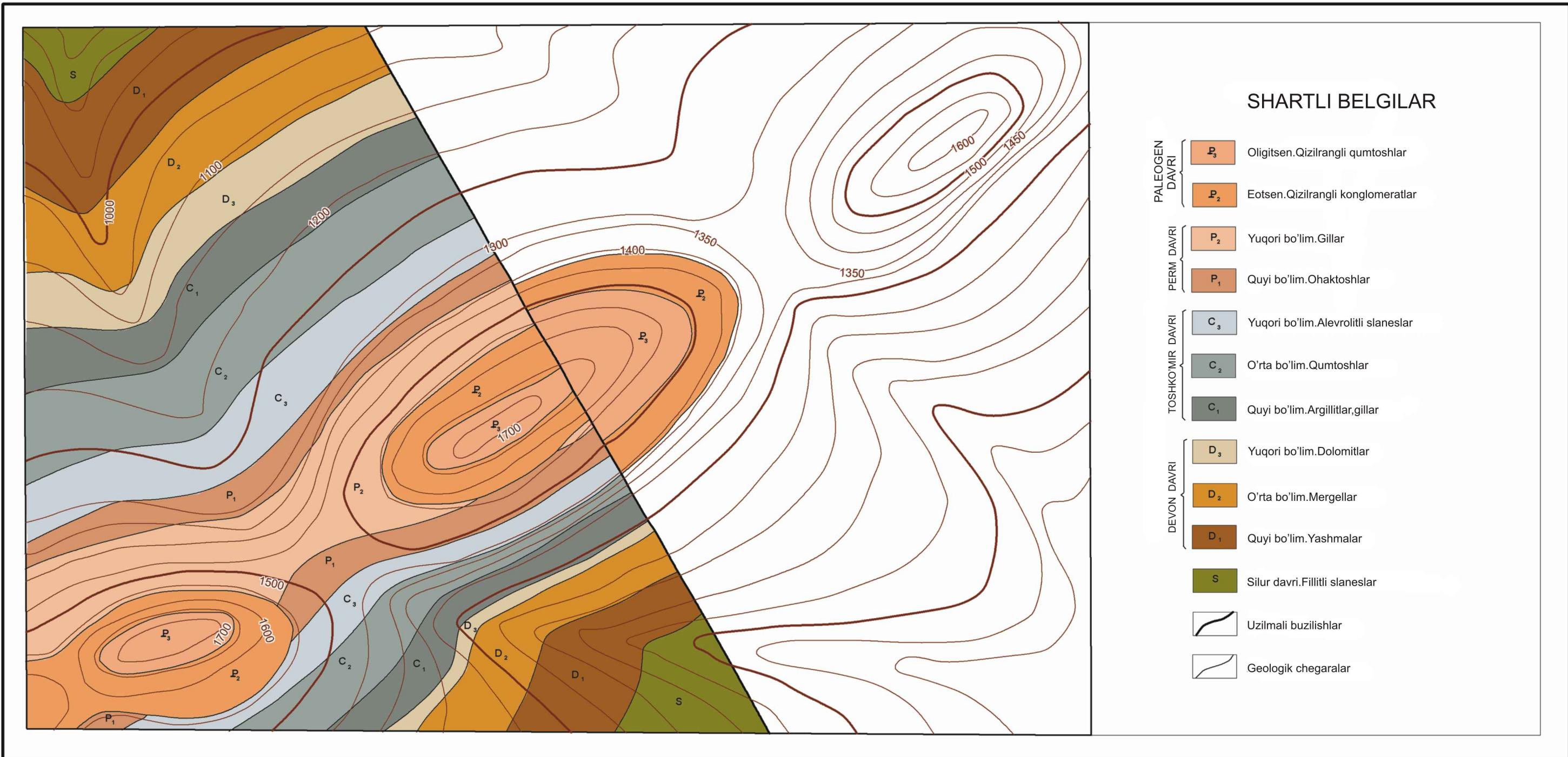
30-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:5000

31-varaq



# O'QUV GEOLOGIK XARITA

Masshtab 1:5000

32-varaq

