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Coal Sequence developed to 1.5 km across strike and along strike for a length of 3 km

- Coal sequence across the full width of the south western limb of licence area
- Continuous thick coal sequence confirmed
- Trenching extends coal sub-crop to 700 m length
- Coal sequence shallows to the southern licence boundary
- CFO appointed in Australia

Drilling Update

With the arrival of two additional drilling rigs in recent weeks, the rate of drilling has increased and the directors of TVN Corporation are pleased to present the following update. Three holes recently completed (NDH10, NDH11 and NDH12) have continued to support the revised exploration target and demonstrate the extent of the Nuurst Project coal seam development in the southwestern limb of the Nuurst Licence. In this area the coal seam development appears to be bound by the licence boundary, remaining open to the north.

Coal seam development has now been defined to the full width of the licence in this area (1.5 km) and for a length of at least 3 km from the southern boundary to the north which remains open.

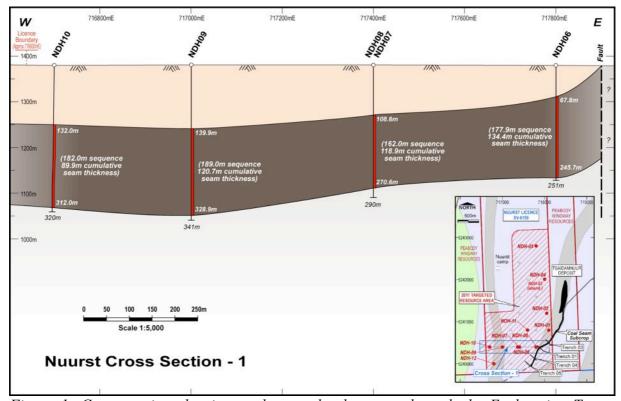


Figure 1: Cross section showing coal seam development, through the Exploration Target Area.

Trenching activities in the area of the fault in the south eastern portion of the Targeted Resource Area have now extended the sub-cropping coal sequence for over 700 m of strike length, extending south westerly from Peabody Winsway Resources' Tsaidam Deposit which contains a NI 43-101 Reportable Mineral Resource of 149.7 Mt. The map below outlines the areas of recent drilling activities and the area of sub-cropping coal seam development.

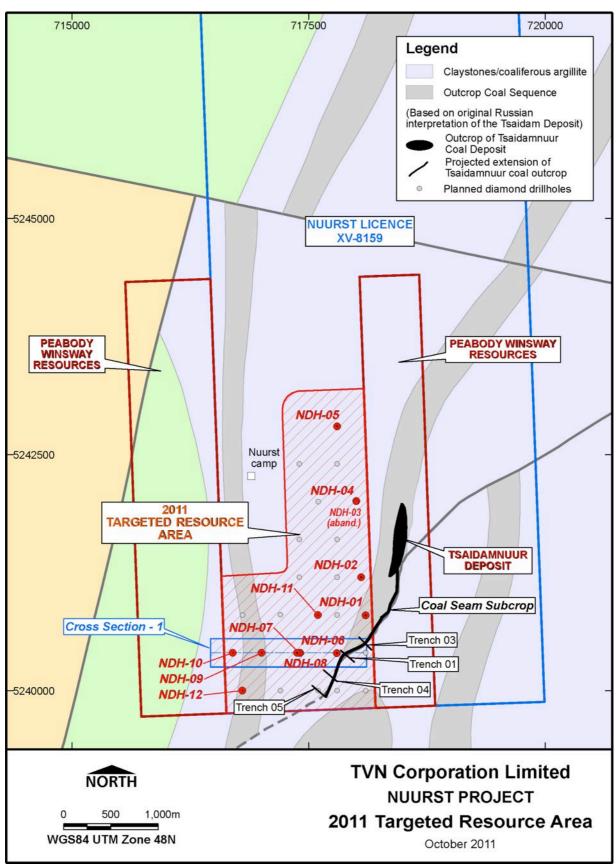


Figure 2: Recent Drilling Activity and Coal Seam Subcrop.

Key Appointment

The directors of TVN are pleased to announce the appointment of Daniel Rohr to the position of Chief Financial Officer. Daniel Rohr CA, B.Comm has 20 years management, corporate advisory, finance and accounting experience working for a number of listed and unlisted companies. He has extensive experience in managing the development of high growth and start up companies.

About the Nuurst Coal Project:

The Nuurst Project is a wholly owned 3,451 Ha exploration licence located 120 kms south of Ulaanbaatar in an area with a number of operating coal mines. Nuurst is 6 km from existing rail infrastructure providing low cost access to the key coal export markets of China, South Korea and Japan.

Recent drilling has identified significant coal seam development over 3 km of strike in a northerly direction, and 1.5 km across the south western portion of the licence area. This coal seam development remains open to the North.

TVN continues to review the potential acquisition of other coking and thermal coal projects in Mongolia.

Chris Mardon Managing Director TVN Corporation Ltd.

Competent Person Statement

The information in this announcement that related to exploration results is based on information obtained from the vendor and Cadastral archives in Mongolia and recent drilling and trenching activities on site. This information has been reviewed by Mr Geoff Richards of CSA Global Pty Ltd, Western Australia. Mr Richards is a member of the Australian Institute of Geoscientists and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a competent person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Richards consents to the inclusion in the report of the matters based on his information in form and context in which it appears.

*		PROJECT NAME	Nuurst	Collar	r location
		LICENSE INFORMATION	XV-008159	EASTING	716700
		DRILL HOLE NUMBER	NDH-10	NORTHING	5240400
$\star\star$		DATE COLLARED	2011.09.24	GRID	UTM WGS-
MINERAL	EXPLOS	ATION COMPANY DATE COMPLETED	2011.09.31	ZONE	North 48
MINERAL	LAFLOR	DESCRIPTION	From	To	Coal
GRAPH	ROCK	(Colour, Weathering, Rock Type, Grain size etc) Note: reference to the "core axis", refers to the short core axis. ie contacts are largely shallow dipping.	m	m	m
	OSS	Redish brown, coarse grained well sorted sand with clay.	0.00	5.00	
	oss	Light brown, very coarse grained, moderately sorted sand. At 18.00-20.00m core loss	5.00	20.00	
	CL	Dark to light brownish yellow clay. At 20.00-23.00m core loss 1.70m, and 24.50-26.00m.	20.00	26.00	
	CONGL	Grey colored, poorly sorted, subrounded, very large pebbles of conglomerate. a 10.00-50.00mm. Core is washed core loss At26.00-29.00m: 2.50m, At29.00-32.00m: 2.80m, At32.00-38.00m: 5.80m.	26.00	38.00	
	CONGL	Dark grey to grey colored, very poorly sorted, subrounded conglomerate with medium grained sandstone	38.00	40.30	
	CL	Brownish yellow colored clay with poorly sorted, subrounded medium pebbles. Grey colored, poorly sorted, subrounded, small to very large pebbles og conglomerate. 2 up to 60mm.very well washed.	40.30	40.93	
	CONGL	Core loss 5.55m	40.93	47.00	
	MS SHC	Grey to dark brownish grey colored, sandy carbonaceous mudstone. Lower contact with shaly coal planar, 15° to core axis. Black to darl brown colored shaly coal with thin C5 (<10% bright) coal beds.	47.00 48.30	48.30 48.58	
	MS	Dark to dark grey colored, sandy carbonaceous mudstone. Upper contact is planar 10° to core axis, lower contact with CONGL irregular.	48.58	49.80	
100000000000000000000000000000000000000	CONGL	Dark grey to grey colored, poorly sorted, rounded conglomerate. Rock fragments are >1cm, filled by sand. Core loss	49.48 49.80	49.80 50.00	
	CONGL	Light grey to grey colored, poorly sorted, rounded pebbles and cobbles of conglomerate Rock fragments >1cm. Very well washed.	50.00	53.00	
	CONGL	Dark grey, very poor sorted, rounded conglomerate. Rock fragments are >1cm. Moderately washed, filled by sand &clay. Core	53.00	59.00	
	SHC	loss At53,00-56.00: 2.30m, At56.00-59.00m: 2.30m. Black shaly coal with grey, sandy carbonaceous mudstone (At 59.65-60.85m).	59.00	61.25	
	CONGL	Grey, very poor sorted roundedpebbles & cobbles of conglomerate.	61.25	62.00	
	MS	Grey to dark grey colored, sandy carbonaceous mudstone withthin clay layers (5cm) and coaly shale(~5cm). Lower contact with shaly coal planar 5° to core axis.	62.00	74.45	
ШШШ	SHC	Black to dark grey colored shaly coal.	74.45	74.71	
	CSH	Black coal. Bright C5.coal layer 5° to core axis. Black to dark grey colored coaly shale bed with thin grey mudstone layer.(~10cm)	74.71 75.10	75.10 76.00	
	MS	Grey sandy carbonaceous mudstone. Upper & lower contactsare irregular.	76.00 77.31	77.31 77.74	
	MS	Coal. Lower contact with mudstone 5° to core axis Dark grey colored, sandy carbonaceous mudstone. Lower contact with shaly coal 5° to core axis.	77.74	78.25	
	MS	Dark grey and black colored shaly coal with pebbles. Dark grey, sandy carbonaceous mudstone. Upper contact with shaly coal 5° to core axis.	78.25 78.95	78.95 80.70	
	CONGL	Grey colored, poorly sorted, rounded pebbles of conglomerate, weak washed. Filled by clay. Core loss 1.30m.	80.70	83.00	
	MS	Dark grey to grey colored, sandy carbonaceous and non carbonaceous mudstone with clay, coal & shaly coal layers. A485.85-85.94m, 86.75-86.80m, 92.00-92.05m, 93.75-93.85m, dark grey clay. A487.88-88.03, 90.82-90.9m, 97.21-97.41m, 97.90-98m black to dark grey shaly coal. all contacts -5°-15° to core axis. Core loss A495.00-98.00m: 0.10m.	83.00	99.65	
	C MS	Coal. Upper &lower contacts are with mudstone planar. 10° to core axis. Dark grey to to grey colored sandy carbonaceous mudstone with shaly coal layers: At 102.20-102.32m, 104.05-104.15m, 111.31-111.43m, 113.68-	99.65	99.89	
		111.71m, 112.69-112.84m, black to dark grey shaly coal layers. Core loss At 101.00-104.00m: 0.10m; At107-110m: 0.30m			
	CSH	Dark grey colored coaly shale. At113.45-113.67m coal bed. Upper &lower contacts are 10° to core axis.	113.40	114.23	
	C	Black brown coal bed with coaly shale.	114.23	114.85	0.62
	MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20% lower contact is broken.			0.62
	MS C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m	114.23	114.85	0.62
	MS C MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m	114.23 114.85 126.05 126.68	114.85 126.05 126.68 130.04	0.63
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	C MS C CSH C CSH C CSH C CSH C CSH C C SHC MS C MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored, duil and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black to grey colored coaly shale Black and brown colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black olored shaly coal. Black colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored duil coal bed. Lower contact is irregular. Black colored duil coal bed. Lower contact is irregular. Black colored duil coal bed. Lower contact is irregular. Black colored duil coal bed. Lower contact is irregular. Black colored, duil and bright coal bed. Slack to grey colored and coal boads. Coal Core and coal beds. Coal beds thick >5cm. Black colored, duil and bright coal bed. Slack to grey colored interbedded coally shale and coal beds. Coal beds thick >5cm. Black colored, duil coal bed. Lower contact is planar, 3° to core axis. Grey colored carbonaceous mudstone. Lower contact is 10° to core axis. Black colored, duil dual bright coal bed. Soul beds. Coal beds thick >5cm. Black colored duil and bright coal beds. Coal beds thick >5cm. Black colored duil and bright coal with thin coalsy shale, thick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is 130° to core axis. Black colored duil and bright coal with thin coalsy shale, thick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular. Black colored duil and bright coal beds. Coal beds thick	114.23 114.85 126.05 126.68 130.04 134.20 133.67 135.67 137.16 140.15 140.15 142.5 142.5 142.5 142.5 142.5 146.52 148.53 149.76 149.76 151.27 151.89 152.00	114.85 126.68 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.45 142.05 142.05 142.05 144.20 144.20 144.20 145.21 146.20 145.52 148.20 148.73 149.77 150.64 151.27 151.47 151.89 152.08	0.63 4.16 1.26 1.24 1.94
	C MS C CSH C CSH C CSH C CSH C C CSH C C MS C C MS C C MS C C MS MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 122.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored coaly shale lower contact is 20° to core axis, irregular. Black brown colored coaly shale. Lower contact is 100° to core axis. Black to grey colored coaly shale. Lower contact is 100° to core axis. Fault gauge cane. Black shaly coal & coal. Core loss 0.50m Black brown colored dull to cal bed with thin black shaly coal layers. Lower contact is irregular. Black colored shaly coal. Grey to dark grey colored carbonaceous mudstone. Lower contact is irregular. Black colored dull and bright coal bed. Black colored dull and bright coal bed. Lower contact is inplana, 5° to core axis. Grey colored corponecous mudstone with black colored dull and bright coal beds. Thick >5cm. Black colored dull dool bed. Lower contact is inplana, 5° to core axis. Grey colored contendeded coaly shale and coal beds. Coal beds thick >5cm. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is 10° to core axis. Grey colored contended coaly shale and coal beds. Coal beds thick >5cm. Grey colored contended coaly shale and coal beds. Coal beds thick >5cm. Grey colored contended coaly shale and coal beds. Coal beds thick >5cm. Grey colored contended coaly shale and coal beds. Coal beds thick >5cm. Gr	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.45 142.5 142.5 142.5 146.52 148.20 146.52 148.20 146.52 148.20 146.52 148.20 149.27 149.27 149.27 149.27 149.27 149.27 149.27 149.27 159.64 1	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 142.50 142.65 146.20 148.53 149.27 149.76 151.27 151.89 151.89 152.00	0.63 4.16 1.26 1.24 1.94
	C MS C CSH C CSH C CSH C CSH C C SHC C MS C C C MS C C C MS C C MS C C MS C C C MS C C C MS C C C MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored, dull and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black to grey colored coaly shale. Black on grey colored coaly shale to grey colored coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black on grey colored coal bed. Fault gauge zone. Black shaly coal & coal. Core loss 0.50m Black brown colored dull coal bed. Black colored dull coal bed. Lower contact is irregular. Black colored dull coal bed. Lower contact is irregular. Black colored, dull coal bed. Lower contact is irregular. Black colored, dull coal bed. Lower contact is irregular. Black colored dull coal bed. Lower contact is irregular. Black colored dull coal bed. Lower contact is layer. Black colored dull coal bed. Lower contact is layer. Black colored dull coal bed. Dower contact is layer. Black colored dull and bright coal bed. Black colored dull and bright coal bed. Grey colored carbonaceous mudstone. Lower contact is layer. Black colored dull coal bed. Lower contact is layer. Black colored dull and bright coal with thin coaly shale, thick > 5cm. Black colored dull and bright coal with thin coaly shale, thick > 1cm. Lower contact is 10° to core axis. Grey colored carbonaceous mudstone. Lower contact is irregular Black colored dull and bright coal with thin coaly shale, thick > 1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular Black colored dull and bright coal bed. Lower contact is irregular Blac	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.45 142.5 142.5 142.5 148.20 148.33 149.27 149.27 149.27 151.67 150.64 150.64 151.47 151.47 151.47 151.89 152.08 152.28 152.28	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 146.20 148.20 148.20 148.20 148.20 148.20 148.20 148.20 151.17 151.89 152.08 152.28 152.28	0.63 4.16 1.26 1.24 1.94
	C MS C CSH C CSH C CSH C CSH C C CSH C C MS C C MS C C MS C C MS MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored, duil and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black brown colored duil and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black and brown colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black to grey colored carbonaceous mudstone. Lower contact is irregular. Black colored, duil and bright coal bed. Slack is grey colored and strain and coal beds. Coal beds thick >5cm. Black colored, duil and bright coal bed. Slack is grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored, duil coal bed. Lower contact is planar, 3° to core axis. Grey colored carbonaceous mudstone. Lower contact is 10° to core axis. Black colored, duil coal bed. Lower contact is planar, 5° to core axis. Black colored duil and bright coal bed. Stale, thick >1cm. Black colored duil and bright coal bed. Stale, thick >1cm. Lower contact is 10° to core axis. Black colored and and profit on with thin coaly shale, thick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular Black colored duil and bright coal bed. Lower contact is irregular Black colored duil and bright coal bed. Lower contact is irregular Black colored duil and bright coal bed. Lower contact is irregu	114.23 114.85 126.05 126.68 130.04 134.20 133.67 135.67 137.16 140.15 140.15 142.5 142.5 142.5 142.5 142.5 146.52 148.53 149.76 149.76 151.27 151.89 152.00 152.08 152.08	114.85 126.68 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.45 142.05 142.05 142.05 142.05 144.20 145.20 145.21 146.20 145.22 145.21 146.20 145.22 145.23 149.27 151.47 151.47 151.89 152.08 152.28	0.63 4.16 1.26 1.24 1.94
	C MS C C SHC C SHC C MS C C C MS C C C MS C C C MS C C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black town colored, dull and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black to grey colored coaly shale. Black and brown colored dull coal bed with thin black shaly coal layers. Lower contact is irregular. Black town colored dull coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored, dull coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored, dull coal bed. Lower contact is irregular. Black colored, dull coal bed. Lower contact is irregular. Black to colored dull coal bed. Lower contact is irregular. Black to colored, dull coal bed. Lower contact is planar, 5° to core axis. Black colored, dull coal bed. Lower contact is planar, 5° to core axis. Grey colored contendenceous mudstone cuby shale and coal beds. Coal beds thick >5cm. Black to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black to grey colored miterbedded coaly shale and coal beds. Coal beds thick >5cm. Black to grey colored miterbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored, dull coal bed. Lower contact is planar, 5° to core axis. Grey colored, controlanceous mudstone. Lower contact is 130° to core axis. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is broken. Grey colored car	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.45 142.5 142.5 142.5 148.20 146.52 148.20 148.33 149.27 149.27 151.47 151.47 151.47 151.47 151.20 152.28 152.28 152.28 152.28 152.28 152.28 152.26 153.20 153.21 1	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 142.50 142.50 146.20 148.53 149.27 149.76 151.17 151.89 152.08 152.08 152.28 152.38 152.05 154.24 155.50 158.82	0.63 4.16 1.26 1.24 1.94
	C MS C CSH C CSH C CSH C C MS MS MS C C C CSH MS	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored, duil and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black to grey colored coaly shale Black and brown colored duil coal bed. Fault gauge zone. Black shaly coal & coal. Core loss 0.50m Black only correct duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored duil coal bed. Black colored duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil and bright coal bed. Slack to grey colored and scandonaceous mudstone. Lower contact irregular. Black colored, duil and bright coal bed. Slack to grey colored and scandonaceous mudstone. Lower contact is limingular. Black colored, duil and bright coal bed. Slack to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored, duil coal bed. Lower contact is largel and land bright coal beds. Thick >5cm. Black colored, duil coal bed. Lower contact is largel and land bright coal beds. Thick >5cm. Black colored duil and bright coal bed with thin coals yeal, chick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is 130° to core axis. Black colored duil and bright coal with thin coals yeal, chick >1cm. Lower contact is broken. Grey colored actronaceous mudstone. Lower contact is irregular Black colored duil and bright coal bed with thin coals yeal, chick >1cm. Lower contact is br	114.23 114.85 126.05 126.68 130.04 134.20 134.20 135.67 135.57 140.45 142.65 142.65 148.31 149.76 148.32 149.76 148.33 149.76 149.76 151.27 149.76 151.27 151.39 152.08 152.28	114.85 126.05 126.68 130.04 134.20 134.41 135.07 135.02 137.16 138.21 140.15 140.45 142.50 146.20 148.30 149.27 149.97 151.67 151.67 151.67 151.47 151.89 152.08 152.28 152.38 152.66 154.24 155.30	0.63 4.16 1.26 1.24 1.94
	C C SHC C C SHC C C C SHC C C C SHC C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored, duil and bright coal bed with coaly shale layer At134.76-134.88m. Core and lower contacts are broken. Black to grey colored coaly shale Black and brown colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black olored shaly coal. Black olored duil coal bed. Lower contact is lawer contact is irregular. Black colored duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is lawer contact irregular. Black colored, duil coal bed. Lower contact is lawer. Black colored, duil and bright coal bed. Slack to grey colored and stripht coal bed. Slack to grey colored and stripht coal bed. Slack to grey colored sandy carbonaceous mudstone. Lower contact is lawer. Black colored, duil and bright coal bed. Slack to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored, duil coal bed. Lower contact is lawer. Black colored, duil coal bed. Lower contact is lawer. Slack to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored duil and bright coal bed. Slack to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored duil and bright coal bed. Slack to grey colored interbedded coaly shale and coal beds. Tho Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular. Black colored duil and br	114.23 114.85 126.05 126.68 130.04 134.20 134.31 135.67 137.16 140.15 140.15 140.15 142.65 142.65 148.53 149.27 149.76 151.27 151.89 152.08 152.28 152.28 153.28 153.28 153.38 153.65	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.15 140.25 140.25 140.20 142.65 148.20 148.30 149.27 151.47 151.89 152.08 152.28 152.28 152.28 152.28 152.65 155.00 158.82	0.63 4.16 1.26 1.24 1.94
	C C SHC C C SHC C C C SHC C C C SHC C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 122.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown colored dull coal bed. Light grey colored sandy shale lower contact is 20° to core axis, irregular. Black brown colored coaly shale. Lower contact is 20° to core axis, irregular. Black to grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black to prev colored coaly shale. Lower contact is 10° to core axis. Black to grey colored shaly coal. Core loss 0.50m Black thrown colored coal bed. Evaluation of the shaly coal. Grey to dark grey colored shaly coal. Core loss 0.50m Black to core coal bed. Grey to dark grey colored shaly coal. Grey to dark grey colored sandy carbonaceous mudstone. Lower contact is irregular. Black colored, dull and bright coal bed. Lower contact is irregular. Black to colored dull and bright coal bed. Black to colored dull and bright coal bed. Black to colored dull and bright coal bed. Black to grey colored sandy carbonaceous mudstone. Lower contact irregular. Black colored, dull and bright coal bed. Black colored, dull coal bed. Lower contact is plana, 5° to core axis. Grey colored and coorder directhodded coaly shale and coal beds. Coal beds thick >5cm. Black to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is 10° to core axis. Grey colored anonaceous mudstone. Lower contact is irregular. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is 10° to core axis. Grey colored anonaceous mudstone. Lower contact is irregular. Black to grey colored interbedded coaly shale and coal beds. Coal beds thick >1cm. Lower contact is 20° t	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 142.5 142.5 142.5 142.5 142.5 143.20 146.52 148.20 148.20 148.20 148.20 149.27 151.47 151.47 151.47 151.27 151.49 152.08 152.28 152.28 152.28 152.28 152.28 153.20 153.38 153.20 153.38 153	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.45 142.50 146.20 148.20 148.23 149.27 149.76 151.27 151.47 151.89 152.08 152.28 152.28 152.28 152.28 152.28 152.28 153.28 154.24 155.50 158.82	0.63 4.16 1.26 1.24 1.94
	C C CSH C C C MS C C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 122.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown colored sandy carbonaceous mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black brown colored coaly shale. Lower contact is 20° to core axis, irregular. Black to grey colored coaly shale. Lower contact is 10° to core axis, irregular. Black in thrown colored coal shale. Black and brown colored coal shale. Black and brown colored coal shale. Black and brown colored coal bed. Black colored shale shale coal. Grey to dark grey colored are bed with thin black shaly coal layers. Lower contact is irregular. Black colored shaly coal. Grey to dark grey colored arebonaceous mudstone. Lower contact is irregular. Black to colored, dull and bright coal bed. Black to colored dull and bright coal bed. Black to colored dull and bright coal bed. Black colored dull and bright coal bed. Lower contact is planar, 5° to core axis. Grey colored anonaceous mudstone. Lower contact is 30° to core axis. Grey colored anonaceous mudstone. Lower contact is irregular. Black colored dull and bright coal with thin coaly shale, thick >1 cm. Lower contact is 50° to core axis. Blac	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 142.5 142.5 142.5 142.5 142.5 143.3 149.27 149.76 150.64 151.47 151.47 151.47 151.47 151.47 151.47 151.47 151.47 151.47 151.47 151.89 152.00 152.28 152.28 152.28 153.38 153.20 153.38 153.36 163.37 163.37 164.50 163.37 164.50 163.37 164.50 165.38 165.	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 146.20 148.20 148.23 149.27 149.76 151.87 151.89 152.08 152.28 152.06 158.82 163.56 158.82 163.56 163.87	0.63 4.16 1.26 1.24 1.94
	C C CSH C C C MMS C C C MMS C C C C MMS C C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 122.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black to prev colored coaly shale lower contact is 20° to core axis, irregular. Black to prev colored coaly shale. Black and brown colored coal bed. Evaluation of the shale coal bed. Black and brown colored coal bed. Black to prev colored shale coal bed. Evaluation of the shale coal bed. Black and brown colored dull coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored, shale coal. Grey to dark grey colored arbonaceous mudstone. Lower contact is irregular. Black colored, dull and bright coal bed. Black colored coal shale coal. Grey colored sandy carbonaceous mudstone. Lower contact iirregular. Black colored, dull and bright coal bed. Black to grey colored sandy carbonaceous mudstone. Lower contact iirregular. Black colored, dull and bright coal bed. Black colored, dull and bright coal bed. Black to grey colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored, dull coal bed. Lower contact is plana, 5° to core axis. Grey colored, colored interbedded coaly shale and coal beds. Coal beds thick >5cm. Black colored dull and bright coal with thin coaly shale, thick >1cm. Lower contact is 10° to core axis. Grey colored arbonaceous mudstone. Lower contact is irregular. Black colored dull and bright coal bed with thin coaly shale, thick >1cm. Lower contact is 10° to core axis. Grey colored arbonaceous mudstone. Lower contact is irregular. Black to grey colored, dull and bright coal bed with thin coaly shal	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.15 140.25 142.5 142.65 146.52 148.53 149.27 149.76 150.64 151.27 151.47 151.89 152.08 152.28 152.38 152.38 152.65 158.82 153.38 154.24 155.00 158.82 153.38 154.24 155.00	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 146.20 148.20 148.23 149.27 149.76 151.89 152.08 152.28 152.08 152.28 152.08 158.82 163.56 168.84 170.10	0.63 4.16 1.26 1.24 1.94
	C C SHC C C C SHC MS C C C C MS C C C C C C C C C C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 122.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone with black shaly coal At129.10-129.40m black brown colored dull coal bed. Light grey colored sandy carbonaceous mudstone layers. Dark grey colored coaly shale. Lower contact is 20° to core axis, irregular. Black to prey colored coaly shale. Lower contact is 20° to core axis, irregular. Black to prev colored coaly shale. Black and brown colored coal bed. Evaluation of the shale colored coal bed. Black and brown colored coal bed. Evaluation of the shale colored coal bed. Black and brown colored coal bed. Evaluation of the shale colored coal bed. Black colored shale colored coal bed. Black colored shale colored shale colored coal bed. Evaluation of the shale colored coal bed. Black colored shale and coal beds. Coal beds thick >5cm. Black colored dull coal bed. Lower contact is plana, 5° to core axis. Grey colored sandy carbonaceous mudstone with black colored dull and bright coal beds. Thick >5cm. Black colored dull and bright coal with thin coaly shale and coal beds. Coal beds thick >5cm. Black colored dull and bright coal with thin coaly shale and coal beds. Coal beds thick >5cm. Grey colored anonaceous mudstone. Lower contact is irregular. Black to grey colored interbedded coaly shale and coal beds. Coal beds thick >1cm. Lower contact is 10° to core axis. Grey colored colored dull and bright coal bed with thin coaly sh	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.15 140.25 142.5 142.65 146.20 148.33 149.27 149.76 150.64 151.47 151.89 152.08 152.28 152.38 152.28 153.86 153.87 155.00 158.82 155.00 158.82 155.00 158.82 155.00 166.66 166.66	114.85 126.05 126.68 130.04 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.25 146.20 148.20 148.20 148.33 149.27 149.76 151.87 151.89 152.08 152.28 152.08 152.28 152.38 152.65 154.24 155.50 158.82 165.56 165.87 164.50 166.84 170.20 170.20 170.20 170.20 170.20	0.63 4.16 1.26 1.24 1.94 0.63
	C C SHC C C C SHC MS C C C C SHC MS C C C C SHC C C C C SHC C C C C C C C	Black to light grey colored sandy carbonaceous mudstone with coal and coaly shale layers. At118.60-118.70m, 119.20-119.42m, 119.47-119.52m coal beds, At121.30-121.50m, 123.05-123.25m coaly shale layers. Upper contact is 20°, lower contact is broken. black brown colored duil coal bed. Light grey colored coally darbonaceous mudstone with black shaly coal At129.10-129.40m black brown coal with shaly coal and mudstone layers. Dark grey colored coally shale. Lower contact is 20° to core axis, irregular. Black brown colored, duil and bright coal bed with coally shale layer At134.76-134.88m. Core and lower contacts are broken. Black a grey colored coally shale. Black and prown colored duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black only control duil coal bed with thin black shaly coal layers. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black to colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil coal bed. Lower contact is irregular. Black colored, duil and bright coal bed shale and coal beds. Coal beds thick Scm. Black colored, duil coal bed. Lower contact is planar, 5° to core axis. Grey colored carbonaceous mudstone. Lower contact is more contact is more contact is contact is colored, duil coal bed. Lower contact is planar, 5° to core axis. Grey colored carbonaceous mudstone with black colored duil and bright coal beds. Thick >5cm. Black colored, duil coal bed. Lower contact is planar, 5° to core axis. Grey colored carbonaceous mudstone. Lower contact is 130° to core axis. Grey colored carbonaceous mudstone. Lower contact is irregular. Black colored duil and bright coal with thin coal shale, thick >1cm. Lower contact is broken. Grey colored carbonaceous mudstone. Lower contact is irregular. Black colored duil and bright coal bed with thin coal beds. Thick >4cm. Lower contact is broken	114.23 114.85 126.05 126.68 130.04 134.20 134.41 135.67 137.16 138.21 140.15 140.52 142.65 142.65 146.52 148.53 149.27 149.76 151.27 151.89 152.08 152.28 152.28 153.28 153.28 155.00 158.82 163.87 164.50 168.84 170.10	114.85 126.05 126.68 126.68 134.20 134.20 134.41 135.67 135.92 137.16 138.21 140.15 140.45 142.55 144.20 144.20 148.20 148.30 148.31 149.27 149.76 150.64 151.27 151.47 151.89 152.08 152.28 152.28 152.28 152.28 153.38 153.38 153.38 154.44 155.60 158.82 166.36 166.06 166.06 166.06	0.63 4.16 1.26 1.24 1.94

C	Black colored, dull and bright coal bed with thin clay layers, >1cm.	175.14	177.50	2.36
MS SHC	Black to dark grey colored interbedded mudstone with thin coal bed >10cm, and coaly shale. Upper and lower contacts are 20° to core axis. Black to grey colored sandy carbonaceous mudstone with coal beds, >12cm. Lower contact is undulose. Black colored shaly coal. Lower contact is irregular.	177.50 179.48 182.54	179.48 182.54 183.30	
MS C	Grey colored sandy mudstone. Black colored, dull and bright coal bed with coaly shale. Thick 8cm. Lower contact is 30° to core axis.	183.30 183.58	183.58 185.22	1.64
MS	Dark grey to grey colored, sandy carbonaceous mudstone with thin coaly shale, >16cm. And coal beds, >10cm. Lower contact is irregular.	185.22	192.40	
C CSH	Black colored, bright coal bed. Lower contact is irregular. Black to dark grey colored coaly shale. Lower contact is undulose.	192.40 192.65	192.65 192.98	
C CSH	Black, brown colored, dull and bright coal. Lower contact is planar 15° to core axis. Black to dark grey colored coaly shale with thin coal beds, >10cm. Lower contact is 20° to core axis.	192.98 194.03	194.03 195.64	1.05
MS	Black colored, dull and bright coal bed. Lower contact is 15° to core axis. Dark grey to grey colored sandy carbonaceous mudstone with clays and thin coal bed. Coal bed is >2cm. Lower contact is irregular.	195.64 195.84	195.84 201.25	
C	Black and brown colored, dull and bright coal bed. Lower contact is irregular.	201.25	202.44	1.19
MS	Dark grey colored sandy carbonaceous mudstone with thin coal beds, >1cm, and coaly shale bed, 4cm. At 203.60-203.70m light brownish yellow colored, poorly sorted rounded gravel. Thick 1-2cm. Lower contact is planar 35° to core axis.	202.44	207.39	
C CSH	Dark grey colored thin coaly shale. Lower contact is 20° to core axis. Black colored, dull and bright coal bed. Lower contact is planar 20° to core axis.	207.39 207.44	207.44 207.54	
MS C	Dark grey colored carbonaceous mudstone. Black brown colored, dull and bright coal bed. Lower contact is planar 0° to core axis.	207.54 207.90	207.90 209.14	1.24
SHC C	Dark grey colored shaly coal. Lower contact is planar 20° to core axis. Black brown colored, dull and bright coal.	209.14 209.29 209.74	209.29 209.74 210.00	
C CSH	Dark, brown colored coaly shale. Black brown colored, dull and brightclean coal. Lower contact is 25° to core axis. Black, grey colored coaly shale. Lower contact is irregular.	210.00	221.65	11.65
C CSH	Black brown colored, dull and bright coal bed. Lower contact is irregular. Dark zere colored coaly shale.	222.05 224.00	224.00 224.17	1.95
C	Black to grey colored, dull and bright coal with coaly shale layers, thick >4cm. Lower contact is 30° to cor axis.	224.17	226.17	2
MS	Dark grey colored carbonaceous mudstone. Lower contact is 15° to core axis.	226.17	226.57	
0000000000 CSH	Black to grey colored, dull and bright coal bed. Lower contact is irregular. Dark grey colored coaly shale. Dark grey colored coaly shale. Dark grey colored coaly shale and bright coal bed with this peak, shall be greened about Lower contact in 10° to account.	226.57 227.00	227.00 227.26	1.35
MS C	Black brown colored, dull and bright coal bed with thin coaly shale layer and clay. Lower contact is 10° to core axis. dark grey colored, carbonaceous mudstone. Black brown colored, dull and bright coal	227.26 228.61 228.74	228.61 228.74 229.57	0.83
MS SHC	Black prown colored, duti and oright coai. Dark grey colored, carbonacous mudstone. Core is broken Dark grey, black colored shaly coal.	229.57 229.82	229.57 229.82 230.52	0.83
C MS	Black brown colored dull and bright coal bed. Black to dark grey colored, carbonaceous mudstone with >5cm shaly coal layer.	230.52 231.85	231.85 233.00	1.33
C	Black to grey colored, carbonaccos mactoric with 2-5cm stury country. Black to grey colored dull coal bed. Upper contact is 15° to core axis. Black to grey colored interbedded coal and coaly shale. Lower contact is 20° to core axis.	233.00 233.33	233.33 233.93	
C MS	Black brown colored, dull and bright coal with coally shale layer. Dark zero colored, sandy carbonaceous mudstone. Lower contact is irregular.	233.93 234.58	234.58 234.76	0.65
C MS	Black brown colored dull and bright coal bed. Lower contact is irregular.	234.76	236.30	1.54
C	Dark grey colored, sandy carbonaceous mudstone with coal bed and coaly shale layers. Coal thick >7cm. Lower contact is irregular. Black colored, dull and bright coal bed with thin shaly coal layer. Lower contact is irregular.	239.38	240.28	0.9
C	Black to grey colored interbedded coal and coaly shale layers. Lower contact is irregular. Black brown colored, dull and bright coal with coaly shale layer. Lower contact is irregular.	240.28 241.30	241.30 242.00	0.7
С	Grey to black colored, coally shale with thin coal beds >3cm. Black brown colored, dull and bright coal with thin shaly coal layers. Lower contact is 20° to core axis.	242.00 242.72	242.72 245.12	2.4
MS	Grey colored, carbonaceous mudstone with thin coaly shale layer.	245.12 246.56	246.56 247.53	0.97
MS	Black brown colored, dull and bright coal. Lower contact is irregular. Grey colored, carbonaceous mudstone with thin coal bed. > lcm. Lower contact is irregular. Black brown colored, dull and bright coal. Lower contact is irregular.	247.53 248.85	248.85 249.35	0.97
CSH SHC	Grey colored coal yshale. Black to grey colored interbedded shaly coal, coal and clays layers.	249.35 249.51	249.51 250.20	0.5
C 000000000000000000000000000000000000	Black brown colored, dull and bright coal bed with thin clay layer. Black to grey colored coally shale with mudstone layer. Lower contact is 10° to core axis.	250.20 250.70	250.70 251.73	0.5
MS CSH	Grey colored, sandy carbonaceous mudstone. Lower contact is planar 5° to core axis. Black, grey colored coaly shale. Lower contact is irregular.	251.73 252.21	252.21 253.18	
SHC CSH	Black colored, shaly coal layer. Black to grev colored coaly shale.	253.18 253.79	253.79 254.00	
C MS	black brown colored, dull and bright coal bed. Dark grey to to grey colored, sandy carbonaceous mudstone with coal >Icm, coaly shale layers.	254.00 254.34	254.34 261.20	
CSH MS	Blalck to dark grey colored, coaly shale layer. Grey colored. Sandy carbonaceous mudstone. Lower contact is planar, 5° to core axis.	261.20 261.55	261.55 263.03	
С	Black brown colored, dull and brihgt coal bed with clay layers. 2-10cm. Lower contact is broken. Black colored, interbedded carbonaceous mudstone and shaly coal. Core broken.	263.03 264.03	264.03 264.28	1
C MS	Black brown colored, dull and bright, clean coal bed. Lower contact is planar, 5° to core axis. Grey colored, carbonaceous mudstone. Core broken in part.	264.28 264.68	264.68 266.30	
SHC C	Black colored, strong shaly coal. Black brown, dull and bright coal bed with 1cm clay layers.	266.30 266.65	266.65 267.07	
MS C	Grey colored, carbonaceous mudstone. Core is broken. Black brown, dull and bright coal bed with clay layer.	267.07 267.43	267.43 267.90	
MS C	Black to grey colored, interhedded coal bed and carbonaceous mudstone. Core broken in part. Brown black colored, clean coal bed.	267.90 268.50	268.50 270.35	1.85
C CSH	Dark grey, black colored coaly shale. Lower contact is 30° to core axis. Black brown colored coal bed. Lower contact is irregular.	270.35 270.90	270.90 272.00	1.1
MS C	Grey colored carbonaceous mudstone. Black brown colored, dull and bright coal bed. In top and bottom coaly shale layers 3-4cm.	272.00 272.35	272.35 272.69	
MS C	Grey colored, carbonaceous mudstone. Black brown colored, dull and bright clean coal bed.	272.69 273.13	273.13 276.15	3.02
SHC C	Black to grey colored, interbedded coal and coaly shale layers. Black brown colored, dull and bright coal bed.	276.15 277.01	277.01 278.35	1.34
C CSH	Grey to black colored, coaly shale with thin coal beds >1cm. Lower contact is planar 5° to core axis. Black brown colored, dull and bright coal with 1-2cm shaly cole layers.	278.35 278.87	278.87 281.00	2.13
C CSH	Black to grey colored, coaly shale with thin coal beds, 1cm. Black brown colored, dull and bright coal bed.	281.00 282.20	282.20 283.10	0.9
MS C	Grey colored, carbonaceous mudstone. Lower contact is 5° to core axis, planar. Black brown colored, dull and bright coal bed. Lower contact is irregular.	283.10 283.56	283.56 284.99	1.43
C CSH	Dark grey to grey colored coaly shale layer. Brown-black colored, dull and bright coal with coaly shale and clay layers.	284.99 286.15	286.15 290.50	4.35
MS C	Black to grey colored, carbonaceous mudstone, and coaly shale layer. Black to grey colored, carbonaceous mudstone, and coaly shale layer. It does brown, dull and bright coal seam. Bedding of the coal seam 5-15° to core axis. Lower contact 10° undulose. At293.83-293.90m black grey to dark ergy colored coaly shale bed. Unper contact irregular Lower contact is 0-20° curviolanar.	290.50 291.03	291.03 294.45	3.42
CSH C	Black grey to dark grey colored coaly shale and mudstone bed. Top of parts coaly shale. Lower contact is 20° curvi planar. Black brown colored, dull and bright coal seam with 1.00-2.00 cm thick shaly coal bed. Bedding of the coal seam 20-25° to core axis.	294.45 294.70	294.70 295.71	1.01
c	Black grey shaly coal bed. Lower contact 25° to core axis. Curvi-planar. Black brown, dull and bright coal seam. 15-25° to core axis mostly, rarely 40-50° to core axis. Coal seam with very rarely 1-2cm thick shaly coal bed.	295.71	296.53 306.53	0.82
C	Black brown colored, dull and bright coal seam with 1.0-6.0 cm thick shaly coal bed. coal seam 15-20° to core axis.	306.53	308.72	2.19
CSH C	Black grey colored coaly shale bed. Lower contact is 20° planar. Black brown colored dull and bright coal seam. Bedding of the coal seam 15-25° to core axis mostly, rarely 5-10° to core axis.	308.72 308.95	308.95 312.02	3.07
MS SS	Dark grey colored carbonaceous mudstone bed. Lower contact is irregular. Dark grey colored, fine grained, well sorted sandstone bed. Lower contact is irregular.	312.02 312.85	312.85 313.40	
MS SS	Dark grey, black grey colored, carbonaceous mudstone bed. Lower contact is "P Planar. Dark grey colored, carbonaceous, fine grained, well sorted sandstone bed. Broken in some parts. EOH.	313.40 314.00	314.00 320.00	
	party		,	

312.0

*		LICENSE INFORMATION	Nuurst XV-008159	EASTING	location 71760
100					
		DRILL HOLE NUMBER	NDH-11	NORTHING	52408
TARAS		DATE COLLARED	2011.09.24	GRID	UTM WO
MINEDAL	EVEL OF	NATION COMPANY DATE COMPLETED	2011.10.05	ZONE	North
WIINERAL	EXPLOR	DESCRIPTION	From	To	Coa
Ξ	× ∞				
GRAPH	ROCK	(Colour, Weathering, Rock Type, Grain size etc) Note: reference to the "core axis", refers to the short core axis. ie contacts are largely shallow dipping.	m	n m	m
	oss	Triconed HQ Bit. Dark brown, brown colored, very coarse to coarse grained, poorly sorted sand.	0.00	32.00	
	NK	No core, core loss.	32.00	32.90	
******	CL	Dark, greenish gray colored sandy clay bed. Lower contact is broken.	32.90	34.95	
	CONGL	Core is very washed. 35.00-37.00 m core loss 1.60 m. 37.00-41.00 m core loss 3.65 m. 1.0-6.0 cm diameter, subrounded pebbles /Conglomerate bed/.	34.95	41.00	
	MS	sandy mudstone. Core is washed. 41.00-44.00 m core loss 1.10 m, 44.00-47.00 m core loss 1.80 m. Lower contact is broken.	41.00	47.00	
	MS	Dark gray colored, sandy carbonaceous mudstone with rarely as far as 14.00 cm thick coal, shaly coal bed. Core is washed. At 48.37-48.51 m black brown dull coal bed, upper contact is 25 degrees, undulose, lower contact 15 degrees curvi-planar. At 50.57-50.80 m black brown, black gray, banded shaly coal and coal bed. core is broken.	47.00	56.72	
	CONGL	Core is washed. 56.00-58.00 m core loss 0.90 m. Greenish, dark brown colored conglomerate, with as far as 1.0 cm thick, rounded pebbles.	56.72	58.00	
	CONGL	Core loss 2.70 m. >1.0 cm thick, rounded pebbles. Core is washed. Cement sand material.	58.00	61.00	
	CONGL	Core loss 2.60 m. Bluish gray to greenish yellow, gray colored conglomerate. Rock fragments and sand material. Rock fragments 0.5-5.0 cm diameter, rounded, in total to 30-35%. Some parts oxidezed rock fragments.	61.00	65.00	
	MS	Dark gray colored mudstone bed with shaly coal, coal bed. At 72.29-72.51 m broken shaly coal bed. At 74.57-74.81 m banded shaly coal and coal bed, upper contact 0 degrees, lower contact is 5 degrees to core axis.	65.00	74.92	
	MS	Medium, dark gray, carbonaceous mudstone bed with rarely 1.0-5.0 cm thick coal bed and shale bed. Lower contact is 20 degrees, curvi-planar. At 74.80 77.00 m core loss 0.60 m. at 75.12-75.17 m black brown coal bed, upper and lower contact is broken.	74.92	81.50	
	C	Black brown, dull and bright coal bed with 1.0-3.0 cm thick shaly coal bed. Lower contact is 20 degrees to core axis, planar.	81.50	82.12	0.62
	MS	Dark gray, carbonaceous mudstone. Lower contact 20 degrees, planar.	82.12	86.22	
	SHC	Black gray shaly coal bed. Lower contact is 25 degrees, curvi-planar.	86.22	86.42	
	C MS	Black brown, dull coal bed with 1.0-4.0 cm thick shaly coal bed. Lower contact 15 degrees to core axis, planar. At 86.86-86.90 m shaly coal bed. Medium, dark gray, carbonaceous mudstone bed. Coaly shale at top 12.0 cm. Lower contact is 15 degrees to core axis, planar.	86.42 87.15	87.15 89.71	0.73
	C	Medium, dark gray, carbonaceous mudstone bed. Coaly shale at top 12.0 cm. Lower contact is 13 degrees to core axis, planar. Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 20 degrees to core axis, curvi-planar.	87.15 89.71	90.56	0.85
	MS	Black gray to medium gray colored, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone bed. Lower contact broken. At 92.60-92.82 m mudstone with, rounded gravels. Gravels in total to 5-10%. At 93.31-93.56 m sandy mudstone with 02-3.0 cm diameter, rounded gravels, in total to 10-15%, core is broken. at 94.95-95.06 m black gray coaly shale bed, upper contact 15 degrees, irregular, lower contact 5 degrees, irregular at 99.64-100.02 m core is rounded, broken, shear zone. At 100.90-101.00 m shaly coal bed.	90.56	101.32	
		Plack begun dull and bright and had Cara is broken foult gauge gang	101 22	101 (2	
	MS	Black brown, dull and bright coal bed. Core is broken, fault gauge zone. Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts.	101.32	101.62	
	MS MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45			
	MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower	101.62 118.20	118.20 137.41 138.05	0.64
	MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar.	101.62	118.20 137.41 138.05 139.40	0.64
	MS C SS-CG MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Control of the coal bed 10-15 degrees to core axis. Dark gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose.	101.62 118.20 137.41 138.05	118.20 137.41 138.05 139.40	0.64
	MS C SS-CG MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Dark gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. At 139 62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core	101.62 118.20 137.41 138.05	118.20 137.41 138.05 139.40	0.64
	MS C SS-CG MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core to the same of the coal bed 10-15 degrees to core axis. Dark gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick.	101.62 118.20 137.41 138.05 139.40 151.10	118.20 137.41 138.05 139.40 151.10 152.80	
	MS C SS-CG MS CSH MS C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Dark gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 25 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar.	118.20 118.20 137.41 138.05 139.40 151.10	118.20 137.41 138.05 139.40 151.10 152.80 162.86	0.64
	MS C SS-CG MS CSH	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 20 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Dark gray, gray colored, carbonaceous mudstone bed. Lower contact is 5 degrees, planar.	118.20 118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46	118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46 167.67	
*********	MS C SS-CG MS CSH MS C MS C MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 25 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, undulose.	118.20 118.20 137.41 138.05 139.40 151.10	118.20 137.41 138.05 139.40 151.10 152.80 162.86	
*********	MS C SS-CG MS CSH MS C MS C MS	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored, coaly shale bed. Lower contact is 5 degrees, undulose. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Dark gray, gray colored, carbonaceous mudstone bed. Lower contact is 5 degrees, planar. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis. Inwed contact is 50 degrees to core axis. Inwed contact is 50 d	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 163.46	118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46 167.67	
*********	MS CSH MS CCMSS-CG	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 25 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black gray colored, dull coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black prown colored, dull coal bed. Coal bed is 20-25 degrees to core axis.	118.20 118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46 167.67 168.07	137.41 138.05 139.40 151.10 162.86 167.67 168.07 169.16	0.6
*********	MS CSH MS CCMSS-CG	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored, coaly shale bed. Lower contact is 5 degrees, undulose. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Dark gray, gray colored, carbonaceous mudstone bed. Lower contact is 5 degrees, planar. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis. Inwed contact is 50 degrees to core axis. Inwed contact is 50 d	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07	137.41 138.05 139.40 151.10 162.86 167.67 168.07 169.16	0.6
	MS C SS-CG MS CSH MS C C MS C CCSH MS C C CCSH C C CCSH C C C C C C C C C C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis washed, broken in some parts. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black pray, black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black pray black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black pray black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 25 degrees to core axis, planar. Black brown colored, dull coal bed. Ecol bed bed 20-25 degrees to core axis. Lower contact is 25 degrees to core axis, planar.	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16	118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 176.00 177.25	0.6
•••••	MS C SS-CG MS CSH MS C C MS C CCSH MS C C CCSH C C CCSH C C C C C C C C C C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 5 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black gray, black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black pray to colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 50 degrees to core axis, undulose. Black brown colored, dull and bright coal bed is 20-25 degrees to core axis. Lower contact is 25 degrees to core axis, planar. Black brown colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, planar. Black pray to dark gray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 176.00 177.25	118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 176.00 177.25	0.6
•••••	MS C SS-CG MS CSH MS C CSH MS C CSH MS C C CSH C C C C C C C C C C C C C C C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 25 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Black gray colored doaly shale bed. Lower contact is 5 degrees, undulose. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black proven colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black proven colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black proven colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 25 degrees to core axis, undulose. Black proven colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 25 degrees to core axis, undulose. Black proven colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black proven colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 25 degrees to core axis, planar. Black proven colo	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 177.05 179.10	118.20 137.41 138.05 139.40 151.10 152.80 162.86 167.67 168.07 169.16 176.00 177.25 179.10	
•••••	MS C SS-CG MS CSH MS C CSH MS C CSH MS C C CSH C C C C C C C C C C C C C C C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 25 degrees to core axis, undulose. Dark gray colored, interbedded carbonaceous-sandy mudstone and 5.0-25.0 cm thick shale bed with rarely 1.0-21.0 cm thick coal bed. Lower contact is 5 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black gray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black gray colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black gray colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 25 degrees to core axis, planar. Black prown colored, dull and bright coal bed for the coal bed 20-25 degrees to core axis. Lower contact is 26 degrees to core axis, planar. Black prown colored, dull coal bed. Coal bed is 60-25 degrees to core a	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 177.00 177.25	118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46 167.67 168.07 169.16 177.25 179.10 186.65	0.6 1.25 7.55
•••••	MS C SS-CG MS CSH MS C CSH MS C CSH MS C CSH C SH C	Medium, dark gray carbonaceous-sandy mudstone bed. Broken, washed in some parts. At 108.45-108.61 m black brown, dull coal bed, upper contact 45 degrees, planar, lower contact 0 degrees, planar. Core is washed in some parts. Dark gray, carbonaceous mudstone bed with rarely 1.0-9.0 cm thick coaly shale and shaly coal bed. Core is washed, broken in some parts. Lower contact 5-10 degrees curvi-planar. Black brown colored, dull and bright coal bed. Lower contact is 15 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Core is washed, broken in some parts. Lower contact is 25 degrees to core axis, undulose. Bedding of the coal bed 10-15 degrees to core axis. Lower contact is 25 degrees to core axis, undulose. At 139.62-139.83 m black brown coal bed, upper contact is 25 degrees, planar, lower contact is 15 degrees to core axis, undulose. Black gray colored coaly shale bed. Lower contact is 5 degrees, undulose. Dark gray and black gray colored, interbedded carbonaceous-sandy mudstone, shale and coaly shale bed. Shale bed is as far as 17.0 cm thick. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull and bright coal bed. Bedding of the coal bed 10-20 degrees to core axis. Lower contact is 20 degrees to core axis, planar. Black brown colored, dull coal bed. Coal bed is 20-25 degrees to core axis. Lower contact is 20 degrees to core axis, undulose. Black pray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black pray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black pray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, undulose. Black pray colored, interbedded carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees to core axis, planar. Black prown	118.20 118.20 137.41 138.05 139.40 151.10 152.80 163.46 167.67 168.07 169.16 177.25 179.10 186.65 187.75	118.20 137.41 138.05 139.40 151.10 152.80 162.86 163.46 167.67 168.07 169.16 176.00 177.25 179.10 186.65 187.75	0.6 1.25 7.55

**		PROJECT NAME	Nuurst		location
**		LICENSE INFORMATION	XV-008159	EASTING	716800
		DRILL HOLE NUMBER DATE COLLARED	NDH-12	NORTHING	5240000
		DATE COLLARED	2011.10.01	GRID	UTM WGS-84
MINERALE	XPLOR	ATION COMPANY DATE COMPLETED	2011.10.08	ZONE	North 48
		DESCRIPTION	From	To	Coal
GRAPH	ROCK	(Colour, Weathering, Rock Type, Grain size etc) Note: reference to the "core axis", refers to the short core axis. ie contacts are largely shallow dipping.	m	m	m
	OSS-VCG	Drilled HQ-PCD bit. Light brown colored, very coarse grained, poorly sorted sand.	0.00	17.00	
	CL	Core loss 2.30 m. Reddish brown colored clay bed. Sand bed washed ???	17.00 20.00	20.00	
	NK.	Light brown, reddish brown sandy clay bed. No core, core loss.	23.00	25.00	
	CL	Reddish brown colored sandy clay bed.	25.00	26.00	
	OSS-VCG	Light brown colored, very coarse grained, very poorly sorted sand bed. Core is broken. Sand bed with 0.5-4.0 cm diameter, rounded gravels. Gravels in total to 15-15%.	26.00	26.82	
	CL	Reddish brown, light brown colored clay bed.	26.82	29.00	
	CONGL	Core loss 5.85 m. 2.0-4.0 cm diameter, rounded gravels.	29.00	35.00	
	MS	Black gray, black brown, dark gray colored, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone and coaly shale bed. Lower contact is 25 degrees to core axis, planar. At 35.62-36.03 m black brown coaly shale bed, upper contact 20 degrees, lower contact is 5 degrees to core axis, undulose.	35.00	40.32	
	SHC	Black brown, black gray colored shaly coal bed with banded 1.0-2.0 cm thick coal bed. Lower contact is broken.	40.32	40.78	
	MS	Black gray colored carbonaceous mudstone. Core is broken.	40.78	41.00	
	MS	Dark gray, black gray colored, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone and coaly shale bed. Lower contact is 5-10 degrees to core axis, undulose. At 42.76-43.13 m black brown, dull coal bed, upper contact 20 degrees, planar, lower contact is 25 degrees, undulose. At 51.18-51.40 m black brown, dull coal bed, upper contact is 15 degrees, lower contact broken.	41.00	58.03	
*********	CSH	Black gray coaly shale. Broken in some parts. Lower contact is broken.	58.03	58.48	
	MS		58.48	58.86	
	MS	Black gray carbonaceous mudstone. Lower contact irregular.	38.48	38.80	
	CSH	Black gray coaly shale, shaly coal bed with coal bed. Coal bed 3.0-8.0 cm thick, banded. Lower contact is broken. At 59.00-62.00 m core loss 1.90 m, at 62.00-63.90 m core loss 1.60 m.	58.86	63.90	
	C	Black brown, dull coal bed. Lower contact is 25 degrees, undulose.	63.90	64.22	
ШШШ	SHC	Black gray shaly coal bed. Lower contact 20 degrees, undulose.	64.22	64.36	
	C	Black brown colored, dull coal bed. Core is broken some parts. Lower contact is 20 degrees, curvi-planar.	64.36	65.00	0.64
	Č				0.04
	SHC NK	Black gray colored shaly coal bed. Lower contact is broken.	65.00 65.73	65.73 67.28	
	C	No core, core loss. Black brown coal bed. Core is broken.	67.28	67.40	
	MS	Dark gray, carbonaceous mudstone. Lower contact broken.	67.40	71.00	
***********	CSH	Black gray colored coaly shale bed. Lower contact is irregular.	71.00	72.07	
	С	Black brown, dull and bright coal seam with shaly coal bed. Shaly coal bed is 3.0-10.0 cm thick. Bedding of the coal seam 10-15 degrees mostly, rarely 20 degrees to core axis. Lower contact is broken. At 73.68-73.78 m shaly coal bed, upper and lower contact are irregular, at 76.54-76.64 m shaly coal bed, upper contact is 5 degrees, planar, lower contact 10 degrees, curvi-planar. At 77.80-77.84 m shaly coal bed. core is broken some parts. at 74.70-74.86 m fault gauge zone.	72.07	79.66	7.59
	SHC	Black gray shaly coal bed. Core is broken, that interval is fault gauge zone.???	79.66	79.93	
	SHC C	Black gray shaly coal bed. Core is broken, that interval is fault gauge zone.??? Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular.	79.66 79.93	79.93 83.00	3.07
		Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with			3.07
	C CSH	Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar.	79.93 83.00	83.00 83.97	3.07
	С	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular.	79.93	83.00	3.07
	C CSH	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core	79.93 83.00	83.00 83.97	3.07
	C CSH	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar.	79.93 83.00 83.97	83.00 83.97 84.33	3.07
	C CSH C CSH	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken.	79.93 83.00 83.97 84.33	83.90 83.97 84.33 84.55	3.07
	C CSH C CSH MS	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts.	79.93 83.00 83.97 84.33 84.55	83.90 83.97 84.33 84.55 85.27	3.07
	C CSH C CSH MS CSH	Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, lower contact is 30 degrees to core axis, lower contact are irregular. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black gray coaly shale bed. Broken in some parts, lower contact broken.	79.93 83.00 83.97 84.33 84.55	83.90 83.97 84.33 84.55 85.27 86.05	
	C CSH C CSH MS CSH C C	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black gray coaly shale bed. Coal bed 20-25 degrees to core axis, lower contact is broken. At 86.46-86.52 m black gray coaly shale bed. Upper and lower contact are 20 degrees, curvi-planar.	79.93 83.00 83.97 84.33 84.55 85.27	83.90 83.97 84.33 84.55 85.27 86.05	
	C CSH C CSH CSH CSH C CSH	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black brown, dull and bright coal bed. Coal bed 20-25 degrees to core axis, lower contact is broken. At 86.46-86.52 m black gray coaly shale bed. Upper and lower contact are 20 degrees, curvi-planar. Dark gray coaly shale bed. Lower contact 5 degrees, undulose.	79.93 83.00 83.97 84.33 84.55 85.27 86.05	83.00 83.97 84.33 84.55 85.27 86.05	1.25
	C CSH C CSH C CSH C C CSH C C CSH C C C C	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black brown, dull and bright coal bed. Coal bed 20-25 degrees to core axis, lower contact is broken. At 86.46-86.52 m black gray coaly shale bed. Upper and lower contact are 20 degrees, curvi-planar. Dark gray coaly shale bed. Lower contact 5 degrees, undulose. Black brown colored, dull coal bed. Core is broken some parts. Lower contact is broken.	79.93 83.00 83.97 84.33 84.55 85.27 86.05	83.90 83.97 84.33 84.55 85.27 86.05 87.30 87.33	1.25
	C CSH C C SHC C SHC	Black gray coaly shale bed. Lower contact is broken. Black gray coaly shale bed. Broken in some parts, lower contact is broken in some parts. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black brown, dull and bright coal bed. Coal bed 20-25 degrees to core axis, lower contact is broken. At 86.46-86.52 m black gray coaly shale bed. Upper and lower contact are 20 degrees, curvi-planar. Dark gray coaly shale bed. Lower contact 5 degrees, undulose. Black brown colored, dull coal bed. Core is broken some parts. Lower contact is broken. Black gray shaly coal bed. Lower contact is broken. At 88.83-88.90 m black brown coal bed. Black gray shaly coal bed. Lower contact is broken. At 88.83-88.90 m black brown coal bed.	79.93 83.00 83.97 84.33 84.55 85.27 86.05 87.30 87.73	83.00 83.97 84.33 84.55 85.27 86.05 87.30 87.73 88.61	1.25
	C CSH C CSH C CSH C CSH C C CSH C C CSH C C C SH C C C SH C C C SH C C C C	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis, lower contact is broken. Coal bed with rarely 1.0-6.0 cm thick shaly coal bed. At 82.78-82.84 m shaly coal bed, upper and lower contact are irregular. Black gray coaly shale bed. Lower contact is 20 degrees, curvi-planar. Black gray brown colored coal bed with banded 1.0-20 cm thick shaly coal. Lower contact is 30 degrees to core axis, planar. Black gray coaly shale bed. Lower contact is broken. Dark gray carbonaceous mudstone /siltstone/. Core is very hard /strong rock/, broken in some parts. Black gray coaly shale bed. Broken in some parts, lower contact broken. Black brown, dull and bright coal bed. Coal bed 20-25 degrees to core axis, lower contact is broken. At 86.46-86.52 m black gray coaly shale bed. Upper and lower contact are 20 degrees, curvi-planar. Dark gray coaly shale bed. Lower contact 5 degrees, undulose. Black brown colored, dull coal bed. Core is broken at 88.83-88.90 m black brown coal bed. Black gray shaly coal bed. Lower contact is broken. At 88.83-88.90 m black brown coal bed. Black brown colored, dull coal bed. Lower contact 30 degrees, undulose. At 89.33-89.37 m shaly coal bed, upper and lower ontact are irregular.	79.93 83.00 83.97 84.33 84.55 85.27 86.05 87.30 87.73	83.00 83.97 84.33 84.55 85.27 86.05 87.73 88.61 89.00	1.25

			,	1	
	С	Black brown colored, dull and bright coal bed. Bedding of coal bed 15-20 degrees to core axis. Coal bed with 2.0-10.0 cm thick shaly coal bed. At 95.10-95.19m shaly coal bed. Upper contact is 20 degrees, lower contact is 15 degrees, undulose. At 95.25-95.32 m shaly coal bed, upper contact is 20 degrees, lower contact broken. At 95.84-95.93 m shaly coal bed, upper contact of 5 degrees, undulose. At 97.05-97.15 m shaly coal bed, upper contact is 20 degrees, lower contact is 5 degrees, undulose.	92.95	97.90	4.95
	MS	Dark gray, carbonaceous mudstone. Lower contact broken.	97.90	98.80	
	SHC	Black gray shaly coal bed with dark gray, strong strenght mudstone bed. Core is broken in some parts.	98.80	100.40	
	C	Black brown, dull coal bed. Core is broken.	100.40	100.76	
ППППППППППППППППППППППППППППППППППППППП	SHC	Black gray, black colored shaly coal bed. Lower contact is 5 degrees, undulose.	100.76	101.82	
***********	Cen	Black brown, dull coal bed with 1.0-5.0 cm thick coaly shale bed. Lower contact is 5 degrees, undulose.	101.82	102.35	0.53
***************************************	CSH	Black gray coaly shale bed. Lower contact is 5 degrees, undulose.			
	CSH	Black brown, dull coal bed. Lower contact irregular. Black gray coaly shale bed. Lower contact is irregular.	102.69 103.12	103.12 103.36	
	C	Black brown, dull coal bed. Lower contact is 10 degrees to core axis, undulose.	103.36	103.84	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_				
>0000000000	CSH	Black gray, coaly shale bed. Lower contact 15 degrees, undulose. Black brown, dull and bright coal bed. Bedding of the coal bed 5-15 degrees to core axis. Lower contact is 5	103.84	104.72	
	С	degrees, curvi-planar.	104.72	105.51	0.79
	CSH	Black gray to dark gray colored coaly shale to carbonaceous mudstone bed. Lower contact is 20 degrees, undulose.	105.51	107.75	
	SHC	Black gray, black brown colored, interbedded shaly coal, coaly shale and coal bed. Lower contact is 10-15 degrees, undulose. Top 19.0 cm coal bed.	107.75	108.67	
	С	Black brown, dull and bright coal bed. Coal bed 10-20 degrees to core axis. Lower contact 15 degrees, undulose.	108.67	109.61	0.94
************	CSH	Black gray colored coaly shale bed. Lower contact is 15 degrees, curvi-planar.	109.61	110.68	
***************************************	CSII	Brack gray colored coary shale bed. Lower contact is 13 degrees, curvi-planar.	109.01	110.08	
	С	Black brown, dull and bright coal bed. Coal bed is 10-15 degrees to core axis. Coal bed with 5.0-10.0 cm thick coaly shale. Lower contact is 10 degrees, undulose. At 111.65-111.70 m dark gray coaly shale bed. At 111.80-111.90 m black gray coaly shale bed, upper and lower contact is 20 degrees, curvi-planar.	110.68	112.30	1.62
	MS	Dark, black gray colored, carbonaceous mudstone. Core is broken in some parts. Lower contact broken.	112.30	112.81	
	CSH	Black gray coaly shale bed. Top 5.0 cm coal bed. Lower conact is broken.	112.81	113.00	
	С	Black brown, dull and bright coal bed with coaly shale bed. Lower contact is 20 degrees, planar. At 113.42-113.51 m coaly shale bed, upper contact is broken, lower contact is 5 degrees, undulose.	113.00	113.77	0.77
	CSH	Black gray and black brown, interbedded coaly shale and banded shaly coal, coal bed. Coal bed 5.0-27.0 cm thick. At bottom 27.0 cm coal bed, upper contact 20 degrees, planar, lower contact is 0 degrees, irregular.	113.77	115.30	
	MS	Dark gray colored, carbonaceous mudstone bed. Lower contact is 20 degrees, undulose.	115.30	119.13	
		Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 0			
	С	degrees, irregular.	119.13	120.34	1.21
	MS	Dark gray, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone and shale bed. Lower contact is 20 degrees, planar. At 123.37-123.57 m black brown coal bed, upper contact 20, lower contact is 30 degrees to core axis, undulose.	120.34	124.41	
	С	Black brown, dull and bright coal bed with 1.0-5.0 cm thick coaly shale bed. Coal bed 15-20 degrees to core axis. Lower contact is broken.	124.41	125.73	1.32
	MS	Dark gray colored, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone bed and rarely medium grained, well sorted sandstone bed.	125.73	134.00	
	С	Black brown colored, dull and bright coal bed. Lower contact is 20 degrees, undulose	134.00	134.24	
	MS	Black gray, dark gray colored, carbonaceous mudstone bed with shale bed. Lower contact irregular,	134.24	137.00	
	С	Black brown colored, dull and bright coal seam. Coal seam 15-20 degrees to core axis. Coal seam with very rarely 1.0-2.0 cm thick coaly shale, shaly coal bed.	137.00	147.00	10
	С	Black brown, dull and bright coal seam. Coal seam 15-20 degrees to core axis. Lower contact is 20 degrees, curvi- planar.	147.00	150.55	3.55
	SH	Dark gray shale bed. Top 20.0 cm coaly shale bed. Lower contact is 20 degrees to core axis, curvi-planar.	150.55	151.58	_
	С	Black brown, dull and bright coal bed with coaly shale bed. Lower contact is 20 degrees, irregular. Coal bedding 15- 20 degrees to core axis. At 153.95-154.48 m coal and banded, 2.0-6.0 cm thick shaly coal, coaly shale bed.	151.58	154.95	3.37
	CSH	Black gray coaly shale bed. Lower contact is 10-15 degrees, undulose.	154.95	155.20	
	С	Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 20 degrees, undulose.	155.20	156.48	1.28
	SHC	Black gray shaly coal bed. Lower conact is irregular.	156.48	156.74	
	С	Black brown, dull and bright coal bed. Lower contact is 15 degrees, undulose.	156.74	157.61	0.87
	SHC	Black gray shaly coal bed. Lower contact is 15 degrees to core axis, irregular.	157.61	158.00	
	С	Black brown, dull and bright coal bed with rarely 1.0-2.0 cm thick shaly coal bed. Lower contact is 20 degrees, undulose.	158.00	160.35	2.35
	CSH	Black gray to dark gray colored coaly shale and carbonaceous mudstone bed. At top 37.0 cm coaly shale bed. Lower contact is irregular. At 161.53-161.76 m coaly shale bed, upper contact is 15 degrees, curvi-planar, lower contact is ~20 degrees, irregular.	160.35	162.01	

Compared to the content of the content of 150 degrees on content and the content of 150 degrees on content and the content of 150 degrees on content and the content of 150 degrees on content on the content on the content on the content of 150 degrees on content on the					
Col. Stack Book gray entered enterly which, sharpy semilar of enter content or the degrees conditions 164,10 164	С		162.01	163.75	1.74
25 - Statistics conversations. Citi Shad, party printed analysis desirable from contain a bridgenous tome anis, place Citi Shad, party printed analysis desirable from contain a bridgenous tome anis, place Citi Shad, strong, all man frequented better for contain a bridgenous place, and tome and the statistics of th	CSH	Black, black gray colored coaly shale, shaly coal bed. Lower contact is 0 degrees, undulose.	163.75	164.13	
The All States, and an adiagnic conduct Court for 15-20 Suppress to construct as 15-20 Suppress to court and primers and primers. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court content in 15 agrees, paper. State States, and an adiagnic conduct Court in 15 agrees, paper. State States, and an adiagnic conduct Court in 15 agrees, paper. State States, and an adiagnic conduct Court in 15 agrees, paper. State States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, paper. States States, and an adiagnic conduct Court in 15 agrees, patentine in 15 agrees, patentine in 15 agrees, patentine in 15 agrees, pate	 С		164.13	166.72	2.59
Sill Mark 2000 American device and Lower contact is 25 degrees, planer. At hottom 5 or monthy shale. 164.04 164.05 164.04	CSH	Dark gray to black gray colored coaly shale bed. Lower contact is 20 degrees to core axis, planar.	166.72	167.68	
C Place brown, dail and high coal bed. Lower content in 15 dayses, planes. 109-11 109-41 109	С		167.68	168.40	0.72
SIL Date gray colored enhousement while Lower content in imaginer 109.41 169.4	SH	Dark gray colored, carbonaceous shale bed. Lower contact is 20 degrees, planar. At bottom 5.0 cm coaly shale.	168.40	169.14	
This is brown, diff and bright coal bed. Call boat with sonely 2,0 8.0 cm disks sholy seed bod. At any 10.0 cm bounded, 177, 22, 27, 20 in shally one should, apper contents in 20 degrees, acroit plants. None contents in 20 degrees, strength. 10	С	Black brown, dull and bright coal bed. Lower contact is 15 degrees, planar.	169.14	169.41	
C is at an in to some that stangly could not An 177.26-17.34 in alway case though each surprise registrate. 177.26-77.27 in always with the country of the country of suggests recognized to contain the suggests registrate. 187. 177.27-17.39 in an always with the country of t	SH	Dark gray colored carbonaceous shale. Lower contact is irregular.	169.41	169.68	
Signature of the state from some field of depth of the state of the state from some field of depth of the state from some field of depth of the state of the stat	С	as far as 1.0 cm thick shaly coal bed. At 171.26-171.34 m shaly coal bed, upper and lower contact irregular. At	169.68	173.00	3.32
STI Dirk groy carbonaceous data and oosly shade bed. Blocker in some parts. At 175.86-175.14 in dusty coal bod, upper STI Black forware to besting the Stagener, correctionary coal coal stage and the Stageners of Stageners and Stageners. Stageners and Stageners and Stageners and Stageners. Stageners and Stage	SH		173.00	174.12	
STI Date pay colored, interbedded curbonaceous mudations, coaly shale bad I now contain in 10 degrees, integration. CIGNICAL Date gray colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm diameters, runneded, in total to 35-40%. Loner of 176, 16 CIGNICAL Date gray colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm diameters, runneded, in total to 35-40%. Loner outside 17-40 cm of complex pays colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm of complex pays colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm of complex pays colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm of complex pays postly sorted pays to the complex pays colored, interbedded curbonaceous mudations, coaly shale and congluences to 45 cm of complex pays postly sorted pays coaly shale bed with 1.9 20 cm coal bed, lower contains in 25-40%, contain and congluences to 45 cm of complex pays postly sorted pays coaly shale bed with 1.9 20 cm coal bed, lower contains in 25-40%, contain and congluences to 45 cm of complex pays coaly shale bed with 1.9 20 cm coal bed, lower contains in 25-40%, contain and 25-40%, contain and 25-40% pays coaly shale bed with 1.9 20 cm coal bed, lower contains in 25-40%, contains and 25-	С		174.12	174.51	
CONGL. Outs gray, very poorly seried conglomerate. Rock fragments 1-0.5 cm diameter, rounded, in total to 33-40%, Lower contact is -0.4 degrees, regular. Breiden in some parts. 178, 18 Dark gray volved, inserbolded carbonizeous multimose, coally shale and conglomerate bed. Lower contact is because. At 173-86-179, 100 m. conglomerate bed. core in breiden. At 174-86-179, 100 m. conglomerate bed. core in breiden. Rock fragments in total in 35-40%, contact in some parts undy clay material. Upper and lower contact in regular. C Black hown, dail and bright coal bed. Lower contact is 200 degrees, undodose. CSIII Black gray coally shale bed with 10-2.0 cm coal bod, lower contact in regular. C Black hown, dail and bright coal bed. Lower contact is follows. SSI Outs gray colored carbonizeous multicoals bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Lower contact is broken. SSI Outs gray volveness multi-bed. Top 30 on miles you will broken in brottom parts. C SSI Outs gray volveness multi-bed. Top 30 on miles you will be bed in the state of the sta	SH	Dark gray carbonaceous shale and coaly shale bed. Broken in some parts. At 175.00-175.14 m shaly coal bed, upper			
CSH Disck gray colored, inserboilded carbonaceous mulatinese, coally shade and conglomerate bed. Lower contact is below. At 179:061-79. 10 in conglomerate bed. core in broken. At 1806-180-180 and ade gray, very poorly yoursel study, clay material. Upper and lower contact are irregular. C Disck gray colored, and probled carbonaceous mulationeses. Book disgresses in teach in 37-408, customs and part of the contact in 180-20 m contact in 180-20	CSH	Black brown to black gray, coal to coaly shale bed. Lower contact is 10 degrees, irregular.	175.96	176.16	
Section Act 1790-179 10 in complementar bod, core is broken. At 1800-51-190 39 m durk gays very poorly sorted consplications be with 30-55 andianate, rounded risk fragments. Rock fragments in total to 35-40%, centert and configurations. As a section of the sect	CONGL		176.16	178.18	
CSII Black gray coally shale bed with 1.0-2.0 cm coal bod, lower contact in regular. C Black brown, dull and bright coal bed. Lower contact is 5 degrees, unfulsose. S11 Dark gray conformaceous shale bed. Lower contact is broken. S12 Dark gray conformaceous made from the Lower contact is broken. S13 Dark gray conformaceous made from the Lower contact broken. S14 Dark gray conformaceous made from the Lower contact broken. S15 Dark gray conformaceous made from the Lower contact broken. S16 Dark gray conformaceous made from the Lower contact broken. S17 Dark gray conformaceous made from the Lower contact broken. S17 Dark gray conformaceous made from the Lower contact broken. S17 Dark gray conformaceous made from the Lower contact broken. S18 Dark gray conformaceous made from the Lower contact broken. S19 Dark gray conformaceous made from the Lower contact broken. S19 Dark gray conformaceous made from the Lower contact is the Conformaceous made from the Lower contact is the Conformaceous made from the Lower contact is the Conformaceous made from the Lower contact is broken. S19 Dark gray conford carbonaceous made from the Lower contact is broken. S10 Dark gray, outpred carbonaceous shale, carbonaceous made from the Royal S19 Dark gray control complomerate. Core is broken. At 199 15-1933 in dark gray only shale bed., upper contact is broken. S10 Dark gray, interbedded carbonaceous shale, carbonaceous made from the Royal Dark gray control Royal Dark gray the Royal Dark gray control complomerate. Core is broken in some parts. Sandy clay and rock fragments material Rock fragments material Rock fragments of the Royal Dark gray control Royal Dark gray control conformaceous shale bed. Lower contact is broken. S10 Dark gray, control gray poorly sorted conformaceous made from the Royal Dark gray to control gray material Rock fragments of 3-6 m dark fragments rock in some parts. Sandy clay and rock fragments material Rock fragments of 3-6 m dark fragments of 3-6 m dark gray to contact in 10 degrees. In gray a	MS	broken. At 179.00-179.10 m conglomerate bed, core is broken. At 180.05-180.49 m dark gray, very poorly sorted conglomerate bed with >0.5 cm diameter, rounded rock fragments. Rock fragments in total to 35-40%, cement	178.18	184.95	
C Illack brown, dail and bright coal bed. Lower contact is 5 degrees, undulose. SH Durk gray conformaceous shale bed. Lower contact is broken. MS Durk gray conformaceous mudstone bed. Lower contact is broken. MS Durk gray conformaceous mudstone bed. Lower contact broken. MS Durk gray conformaceous mudstone bed. Lower contact broken. MS Durk gray, conformaceous mudstone bed. Lower contact broken. 191.77 MS Durk gray, conformaceous mudstone bed. Lower contact broken. 192.45 SHC Illack brown, dail and bright coal bed. Lower contact is broken. C Black brown, dail and bright coal bed. Lower contact is broken. SHC Ullack brown, dail and bright coal bed. Lower contact is broken. C degrees, planar. Al 193.621-93.66 in dark gray shale bed, upper contact 5 degrees to core axis. Lower contact is 0 degrees, planar. Al 193.621-93.66 in dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5 degrees, planar. Al 193.621-93.66 in dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5 degrees, curvi-planar, lower contact is broken. MS Durk gray coptored curbonaceous mudstone bed. Lower contact is broken. SH Durk gray, very poorly seried conglomerate. Sandy clay and rock fragments material. Rock fragments is >0.65 cm diameter, contact dis broken. SH Durk gray, interbedded curbonaceous shale, curbonaceous mudstone bed. Lower contact is broken. SH Durk gray, interbedded curbonaceous shale, curbonaceous mudstone bed. Lower contact broken. 200.00 203.55 CONGL. Engineeris material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact is broken. MS Durk gray, curbonaceous mudstone bed with coal bed. Lower contact broken. Al 207.57-207.69 in black brown coal bed, upper and lower contact is 3 degrees, uniquidose. CONGL. Comments as and clay material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30%. Lower contact is 3 degrees, irregular. Conglomerate bed with marby 50-30.6 cm thick, rounded, in total to 25-30%. Low	С	Black brown, dull and bright coal bed. Lower contact is 20 degrees, undulose.	184.95	185.20	
SH Durk gray corbonaceous shale bed. Lower contact is broken. Share gray, colored carbonaceous mudstone bed. Lower contact is broken. Black krown, dull and bright coal bed. Lower contact broken. Share gray, combonaceous mudstone bed. Lower contact broken. Share gray, combonaceous mudstone bed. Lower contact is broken. Share gray, combonaceous mudstone bed. Lower contact is broken. Share gray, curbonaceous mudstone bed. Lower contact is broken. Share gray, curbonaceous mudstone bed. Lower contact is broken. Share gray, curbonaceous mudstone bed. Lower contact is of genes, curvi-planar, lover contact is 5 degrees, curvi-planar, lover contact is 5 degrees, curvi-planar, lover contact is 5 degrees, curvi-planar, lover contact is 6 degrees, lover contact in broken. Share part of the contact is 6 degrees, lover contact is broken. At 199 15-199 38 m durk gray coally shale bed. 197.70 200.00 201.55 Share part of lover contact is broken. Share part of lover contact is broken. At 199 15-199 38 m durk gray coally shale bed. 200.00 201.55 Share part of lover contact is broken. Share part of lover contact is broken. 200.00 201.55 201.40 202.55 201.41 208.00 202.14 208.00 202.14 208.00 202.14 208.00 202.14 208.00 202.14 208.00 202.12 202.10 202.10 202.10 202.10 202.10 202.10 202.10 202.10 202.10	CSH	Black gray coaly shale bed with 1.0-2.0 cm coal bed, lower contact irregular.	185.20	185.48	
MS Dark gray colored carbonaceous mudatone bed. Lower contact is broken. C Black hrown, dail and bright coal bed. Lower contact broken. Dark gray, carbonaceous mudatone. Lower contact broken. SHC Black hrown, dail and bright coal bed. Lower contact broken. SHC Black gray shaly coal and coally shale bed. Top 9.0 cm shaly coal. Broken in bottom parts. C Black hrown, dail and bright coal bed. Top 9.0 cm shaly coal. Broken in bottom parts. C Black hrown, dail and bright coal bed. Top 9.0 cm shaly coal. Broken in bottom parts. C Black hrown, dail and bright coal bed. Top 9.0 cm shaly coal. Broken in bottom parts. C Black hrown, dail and bright coal bed. Top 9.0 cm shaly coal. Broken in bottom parts. C Black hrown, dail and bright coal bed. Top 9.0 cm shaly coal. Broken in bottom parts. D and gray colored carbonaceous mudatone bed. Lower contact is degrees, curvi-planar, lower contact is 5 degrees, curvi-planar. MS Dark gray, very poorly sorted conglumerate. Sandy clay and rock fragments material. Rock fragments is >0.5 cm diameter, rounded, in total to 35-40%. Lower contact is broken. SH Dark gray, interbedded carbonaceous shale, curbonaceous mudatone bed. Lower contact broken. 200.00 203.55 Dark gray, gray colored very poorly sorted conglumerate. Core is broken in some parts. Sandy clay and rock fragments in sorted fragments material. Rock fragments is 200.00 203.55 Dark gray, curbonaceous mudatone bed with coal bed. Lower contact broken. At 207.57-207.89 m black brown coal bed. Juper and lower contact is 20 degrees, undulous. Dark gray curbonaceous mudatone bed with coal bed. Lower contact broken. At 207.57-207.89 m black brown coal bed. Lower contact is 20 degrees, undulous. Dark gray colored, very poorly sorted conglumerate bed. Core is broken in some parts and very strong in some parts. Coment sandy clay material. Rock fragments 95-60 cm diameter, rounded, in total to 25-30%. Lower contact is 10 degrees, tregular. Concernity and the concernity contact is 10 degrees, tregular. Concernity and cov	С	Black brown, dull and bright coal bed. Lower contact is 5 degrees, undulose.	185.48	185.75	
C Black brown, dull and bright coal bed. Lower contact broken. 191.77 191.71 NS Durk gray, carbonaceous mudstone. Lower contact broken. 192.45 192.85 192.88 192.25 C Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 0 degrees, planar, At 193.62-193.66 m dark gray shale bed. Top 9.0 em shaly coal. Broken in bottom parts. 192.88 Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 0 degrees, planar, At 193.62-193.66 m dark gray shale bed, upper contact 5 degrees, curvi-planar. MS Dark gray colored curbonaceous mudstone bed. Lower contact is broken. 195.56 197.70 Dark gray, very poorly sorted complomerate. Sandy clay and rock fragments material. Rock fragments is >0.5 cm damed curve contact is broken. 197.70 200.00 S11 Dark gray, interbedded carbonaceous shale, carbonaceous mudstone bed. Lower contact broken. 200.00 203.55 CONGL Dark gray, pray colored very poorly sorted conglomerate. Core is broken in some parts. Sandy clay and rock fragments material Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact 10 degrees, irregular. 200.00 203.55 Dark gray, carbonaceous mudstone bed vith coal bed. Lower contact broken. At 207.57-207.69 m black brown coal bed, upper and lower contact 10 degrees, irregular. 208.00 207.14 208.00 208.00 209.00 2	SH	Dark gray carbonaceous shale bed. Lower contact is broken.	185.75	186.60	
MS Dark gray, earbonaceous mudatone. Lower contact is broken. C Black brown, dail and bright coal bed. Lower contact is broken. Black brown, dail and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 0 degrees, planar. At 193.62-193.66 m dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5 Black brown, dail and bright coal bed. Bedding of the coal bed 15-20 degrees curvi-planar, lower contact is 0 degrees, planar at 193.62-193.66 m dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5 Bark gray, very poorly sorted conglomente. Sandy clay and rock fragments material. Rock fragments is >0.5 cm dail puper and lower contact is broken. CONGL Burk gray, very poorly sorted conglomente. Sandy clay and rock fragments material. Rock fragments is >0.5 cm dail puper contact is broken. SH Dark gray, interbedded carbonaceous shale, carbonaceous mudstone bed. Lower contact broken. CONGL Dark gray, gray colored very poorly sorted conglomente. Core is broken in some parts. Sandy clay and rock fragments material. Rock fragments and to 25-30 degrees to core axis. Lower contact broken. CONGL Dark gray colored, very poorly sorted conglomerate. Core is broken in some parts. Sandy clay and rock poorly gray colored, very poorly sorted conglomente bed. Lower contact broken. At 207.57-207.69 m black brown coal bed. Upper and lower contact is 20 degrees, untilidos. Dark gray colored, very poorly sorted conglomente bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0-5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 5 degrees, irregular. CONGL Conditional bed with carely 5-30 degrees to core axis. L	MS				
Black gray shaly coal and coaly shale bed. Top 9.0 cm shaly coal. Broken in bottom parts. 192.88 193.22 Black brown, dull and bright coal bed. Redding of the coal bed 15-20 degrees to core axis. Lower contact is 0 degrees, planar. At 193.62-193.66 m dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 8 degrees, curvi-planar, lower contact is 20 degrees, curvi-planar, lower contact is 5 degrees, curvi-planar, lower contact is 20 degrees and lower contact is 20 degrees and lower contact is 20 degrees and lower contact is 20 degrees, lower contact in some parts. Sandy clay and rock fragments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact is 20 degrees, unduluse. CONGL Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 20 degrees, lower contact is 5 degrees, irregular. Condition of the process on core axis. Lower contact is 5 degrees. Irregular At 223.40-223.58 m shale bed, upper contact is broken. 122.12 degrees to core axis	MS	, ,			
C Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees, curvi-planar, knower contact is 0 degrees, curvi-planar. At 193-62-193-66 in dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5 degrees, curvi-planar. MS Dark gray colored carbonaceous mudstone bed. Lower contact is broken. 195.96 197.70 Dark gray, very poorly sorted conglomerate. Sandy clay and rock fragments material. Rock fragments is >0.5 cm diameter, rounded, in total to 35-40%. Lower contact is broken. At 199 15-199.38 in dark gray coally shale bed, upper and lower contact is broken. Sit Dark gray, interhedded carbonaceous shale, carbonaceous mudstone bed. Lower contact broken. 200.00 203.55 CONGI. Experiments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact 10 degrees, irregular. MS Dark gray, carbonaceous mudstone bed with coal bed. Lower contact broken. At 207.57-207.69 in black brown coal bed, upper and lower contact is 20 degrees, undulose. CONGI. Contact is and complementate bed. Core is broken in some parts and very strong in some parts. Contact is sandy clay material. Rock fragments >0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 20 degrees, undulose. CONGI. Contact is sandy clay material. Rock fragments >0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 20 degrees, undulose. SH Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cenent sandy clay material. Rock fragments is >0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 20 degrees, irregular. 202.12 212 212 212 212 212 212 212 212 212	 С				
Dark gray, very poorly sorted conglomerate. Sandy clay and rock fragments material. Rock fragments is >0.5 cm diameter, rounded, in total to 55-40%. Lower contact is broken. At 199.15-199.38 m dark gray coally shale bed, upper and lower contact is broken. SH Dark gray, interbedded carbonaceous shale, carbonaceous mudstone bed. Lower contact broken. 200.00 203.55 CONGL Dark gray, gray colored very poorly sorted conglomerate. Core is broken in some parts. Sandy clay and rock fragments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact 10 degrees, irregular. MS Dark gray, carbonaceous mudstone bed with coal bed. Lower contact broken. At 207.57-207.69 m black brown coal bed, upper and lower contact is 20 degrees, undulose. CONGL Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 208.00 212.12 Dark gray, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is andly clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 5 degrees. Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very stard some parts. Cement sandy clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 5 degrees, irregular. CONGL to contact is 7 footh and 223-32-226 on dark gray carbonaceous mudstone bed, upper and tower contact is 5 footh and gray carbonaceous mudstone bed, upper and tower contact is 5 footh of m dark gray carbonaceous mudstone bed, upper and tower contact is 5 footh of m dark gray carbonaceous mudstone bed, upper and tower contact is 5 footh of m dark gray carbonaceous mudstone bed, upper and tower contact is 5 footh of m dark gray carbonaceous mudstone bed, upper and tower contact is 5 degrees, irregular.		Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 0 degrees, planar. At 193.62-193.66 m dark gray shale bed, upper contact 5 degrees, curvi-planar, lower contact is 5			2.74
CONGL diameter, rounded, in total to 35-40%. Lower contact is broken. At 199.15-199.38 m dark gray coaly shale bed, upper and lower contact is broken. 197.70 200.00	MS	Dark gray colored carbonaceous mudstone bed. Lower contact is broken.	195.96	197.70	
CONGL Dark gray, gray colored very poorly sorted conglomerate. Core is broken in some parts. Sandy clay and rock fragments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower 203.55 207.14 MS Dark gray, carbonaceous mudstone bed with coal bed. Lower contact broken. At 207.57-207.69 m black brown coal bed, upper and lower contact is 20 degrees, undulose. CONGL Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is broken. SH Dark gray colored, carbonaceous shale bed. Lower contact is ~10 degrees, irregular. CONGL Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 5 degrees, irregular. CONGL CONGL Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. Conglomerate bed with rarely 5-0.40 cm thick shale, mudstone bed. At 216.44 of m mudstone bed, upper and lower contact is broken. At 222.33-222.69 m dark gray carbonaceous mudstone bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken.	CONGL	diameter, rounded, in total to 35-40%. Lower contact is broken. At 199.15-199.38 m dark gray coaly shale bed,	197.70	200.00	
CONGL fragments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower contact 10 degrees, irregular. MS Dark gray, carbonaceous mudstone bed with coal bed. Lower contact broken. At 207.57-207.69 m black brown coal bed, upper and lower contact is 20 degrees, undulose. ONGL Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is 208.00 212.12 SH Dark gray colored, carbonaceous shale bed. Lower contact is ~10 degrees, irregular. ODAR gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. CONGL Conglomerate bed with rarely 5.0-36.0 cm thick, rounded, in total to 25-30%. Lower contact is 20-30 degrees to core axis, curvi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is 20-30 degrees to core axis, curvi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular.	SH	Dark gray, interbedded carbonaceous shale, carbonaceous mudstone bed. Lower contact broken.	200.00	203.55	
bed, upper and lower contact is 20 degrees, undulose. CONGL Dark gray colored, very poorly sorted conglomerate bed. Core is broken in some parts and very strong in some parts. Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is broken. SH Dark gray colored, carbonaceous shale bed. Lower contact is ~10 degrees, irregular. 212.12 212.96 Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is ~0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. CONGL CONGL Conglomerate bed with rarely >0.30 cm thick shale, mudstone bed. At 216.44-216.6 m mudstone bed. upper and lower contact is broken. At 222.33-222.69 m dark gray carbonaceous mudstone bed, upper contact is 20-30 degrees to core axis, curi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. CSH Black gray, dark gray colored coaly shale bed. Lower contact is 20 degrees, irregular.	CONGL	fragments material. Rock fragments >0.5 cm diameter, rounded. In total to 25-30 degrees to core axis. Lower	203.55	207.14	
CONGL Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is broken. SH Dark gray colored, carbonaceous shale bed. Lower contact is ~10 degrees, irregular. Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is ~0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. CONGL Conglomerate bed with rarely 5.0-36.0 cm thick shale, mudstone bed. At 216.44-216.66 m mudstone bed, upper and lower contact is broken. At 222.33-222.69 m dark gray carbonaceous mudstone bed, upper contact is 20-30 degrees to core axis, curiy-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. CSH Black gray, dark gray colored coaly shale bed. Lower contact is 20 degrees, irregular.	MS		207.14	208.00	
Dark gray, very poorly sorted conglomerate bed. Core is broken some parts and very hard some parts. Cement sandy clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. CONGL CONGL CONGL Conglomerate bed with rarely 5.0-36.0 cm thick shale, mudstone bed. At 216.44-216.66 m mudstone bed, upper and lower contact is broken. At 223.33-322.69 m dark gray carbonacous mudstone bed, upper contact is 20-30 degrees to core axis, curvi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. CSH Black gray, dark gray colored coaly shale bed. Lower contact is 20 degrees, irregular. 224.00 224.54	CONGL	Cement is sandy clay material. Rock fragments 0.5-6.0 cm diameter, rounded, in total to 25-30%. Lower contact is	208.00	212.12	
clay material. Rock fragments is -0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. CONGL CONGL Conglomerate bed with rarely 5.0-36.0 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. Conglomerate bed with rarely 5.0-36.0 cm thick shale, mudstone bed. At 216.44-216.66 m mudstone bed. upper and lower contact is broken. At 222.33-222.69 m dark gray carbonaceous mudstone bed, upper contact is 20-30 degrees to core axis, curvi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken, lower contact is 5 degrees, irregular. CSH Black gray, dark gray colored coaly shale bed. Lower contact is 20 degrees, irregular. 224.00 224.54	SH	Dark gray colored, carbonaceous shale bed. Lower contact is ~10 degrees, irregular.	212.12	212.96	
000000000	CONGL	clay material. Rock fragments is >0.5 cm thick, rounded, in total to 25-30%. Lower contact is 15 degrees, irregular. Conglomerate bed with rarely 5.0-36.0 cm thick shale, mudstone bed. At 216.44-216.66 m mudstone bed, upper and lower contact is broken. At 222.33-222.69 m dark gray carbonaceous mudstone bed, upper contact is 20-30 degrees to core axis, curvi-planar, lower contact 5 degrees, irregular. At 223.40-223.58 m shale bed, upper contact is broken,	212.96	224.00	
CONGL Dark gray conglomerate bed. Lower contact is irregular. 224.54 225.64	CSH	Black gray, dark gray colored coaly shale bed. Lower contact is 20 degrees, irregular.	224.00	224.54	
	CONGL	Dark gray conglomerate bed. Lower contact is irregular.	224.54	225.64	

	MS	Dark gray, interbedded carbonaceous mudstone, shale bed. Lower contact is 20 degrees, undulose.	225.64	229.58	
	С	Black brown, dull and bright coal bed. Coal bed 15-20 degrees, rarely 25 degrees to core axis. Lower contact is 15-25 degrees, curvi-planar.	229.58	230.00	
	MS	Dark gray, carbonaceous mudstone bed. Lower contact is 10 degrees, undulose.	230.00	234.41	
	SH	Black gray, dark gray colored, interbedded shale, coaly shale and shaly coal bed. Lower contact is 20 degrees, curvi- planar. At 235.41-235.69 m black brown, dull and bright coal tiny bed, upper contact is 15 degrees, lower contact is 15 degrees, planar.	234.41	237.74	
	С	Black brown, dull and bright coal bed. Coal bed 15-20 degrees to core axis. Lower contact is 20 degrees, planar.	237.74	239.20	1.46
***************************************	CSH	Dark gray shale and coaly shale bed. Lower contact is 15 degrees, undulose.	239.20	241.17	
•••••	С	Black brown, dull and bright coal bed. Lower contact is 10 degrees curvi-planar.	241.17	241.55	
	SH	Dark gray to black gray shale and coaly shale bed. Top of parts shale. Lower contact is broken. At bottom 10.0 cm fault zone? Core is broken.	241.55	245.00	
	С	Black brown, dull and bright coal bed. Bedding of the coal bed 20-25 degrees, 30 degrees to core axis. Lower contact is broken.	245.00	245.55	0.55
*********	CSH	Black gray coaly shale. Lower contact is 20 degrees, irregular.	245.55	246.49	
	С	Black brown, dull and bright coal bed. Coal bed 5-15 degrees to core axis. Lower contact is 10 degrees, curvi-planar.	246.49	247.76	1.27
	SH	Dark gray colored, interbedded shale, coaly shale and carbonaceous mudstone bed. Lower contact is 0 degrees, undulose.	247.76	255.37	
	С	Black brown, dull and bright coal bed. Coal bed 0-10 degrees to core axis. Lower contact is 10-15 degrees, curviplanar.	255.37	255.90	0.53
	CSH	Black gray to dark gray colored coaly shale and carbonaceous mudstone with coal bed. Bottom of parts carbonaceous mudstone bed. At 257.67-257.88 m black brown, dull and bright coal bed, upper contact 0 degrees planar, lower contact is 10 degrees, planar. At 256.48-256.60 m black brown, dull and bright coal bed, upper contact 15 degrees planar, lower contact is 5 degrees, planar. At 259.54-259.68 m black brown, dull and bright coal bed, upper contact 25 degrees, undulose, lower contact is 10 degrees, undulose. At 259.91-260.00 m black brown, dull and bright coal bed, upper contact 20 degrees planar, lower contact is broken.	255.90	261.35	
	С	Black brown, dull and bright coal bed. Coal bedding 5-15 degrees to core axis. Lower contact is 25 degrees, planar.	261.35	262.64	1.29
	SH	Dark gray shale bed. Lower contact is broken.	262.64	262.88	
	С	Black brown, dull and bright coal bed. Coal bedding 5-15 degrees to core axis. Lower contact is 20 degrees, undulose.	262.88	263.52	0.64
	MS	Dark gray, interbedded carbonaceous mudstone and shale bed. Lower contact is 5 degrees, irregular. At 266.41-266.74 m black brown, dull and bright coal bed, upper contact is broken, lower contact is 15 degrees, undulose. At 268.60-268.85 m fault zone.	263.52	268.90	
	С	Black brown, dull and bright coal bed. Bedding of the coal bed 10-15 degrees to core axis. Lower contact is 0 degrees, irregular.	268.90	269.58	0.68
	MS	Dark gray carbonaceous mudstone. Lower contact is 35 degrees, undulose.	269.58	270.48	
	С	Black brown, dull and bright coal bed. Lower contact is 15 degrees, planar.	270.48	270.86	
	SH	Dark gray colored, interbedded shale and carbonaceous mudstone bed. Broken in some parts. Lower contact is 20 degrees, curvi-planar. At 274.60-274.65 m fault gauge zone. At 274.90-274.95 m fault zone?	270.86	276.99	
	SHC	Black gray, interbedded shaly coal, coaly shale and tiny coal bed. Lower contact is ~25 degrees, curvi-planar. At 277.80-278.00 m black brown, dull and bright coal bed, upper contact is 15 degrees, lower contact is 10 degrees, undulose.	276.99	278.12	
	С	Black brown, dull and bright coal bed. Broken in some parts. Lower contact is 15 degrees, irregular. At 278.12- 278.42 m fault zone?	278.12	278.52	
	C CSH		278.12 278.52	278.52 279.09	
**********	C CSH C	278.42 m fault zone?			4.51
********		278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal	278.52	279.09	4.51
	С	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed.	278.52 279.09	279.09 283.60	4.51
	C MS	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed. Dark gray mudstone bed. Lower contact 5 degrees to core axis, planar.	278.52 279.09 283.60	279.09 283.60 284.48	
	C MS C	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed. Dark gray mudstone bed. Lower contact 5 degrees to core axis, planar. Black brown, dull and bright coal bed. Coal bed 10-20 degrees to core axis. Lower contact 15 degrees, planar. Dark gray, carbonaceous-sandy mudstone bed with fine grained to medium grained, well sorted sandstone bed.	278.52 279.09 283.60 284.48	279.09 283.60 284.48 285.12	
	C MS C MS	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed. Dark gray mudstone bed. Lower contact 5 degrees to core axis, planar. Black brown, dull and bright coal bed. Coal bed 10-20 degrees to core axis. Lower contact 15 degrees, planar. Dark gray, carbonaceous-sandy mudstone bed with fine grained to medium grained, well sorted sandstone bed. Lower contact is broken. Core loss 1.50 m. core is washed and broken. Dark gray colored, medium grained, well sorted sandstone bed.	278.52 279.09 283.60 284.48 285.12	279.09 283.60 284.48 285.12 290.20	
	C MS C MS SS	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed. Dark gray mudstone bed. Lower contact 5 degrees to core axis, planar. Black brown, dull and bright coal bed. Coal bed 10-20 degrees to core axis. Lower contact 15 degrees, planar. Dark gray, carbonaceous-sandy mudstone bed with fine grained to medium grained, well sorted sandstone bed. Lower contact is broken. Core loss 1.50 m. core is washed and broken. Dark gray colored, medium grained, well sorted sandstone bed. Bottom 10.0 cm carbonaceous mudstone bed.	278.52 279.09 283.60 284.48 285.12	279.09 283.60 284.48 285.12 290.20	
	C MS C MS SS NK	278.42 m fault zone? Dark gray coaly shale bed. Lower contact 5 degrees, curvi-planar. Black brown, dull and bright coal bed. Coal bed is 0.5 degrees mostly, very rarely 10 degrees to core axis. Lower contact is 10 degrees, planar. Coal bed with rarely 2.0-5.0 cm thick shaly coal bed. At 280.41-280.46 m shaly coal bed. Dark gray mudstone bed. Lower contact 5 degrees to core axis, planar. Black brown, dull and bright coal bed. Coal bed 10-20 degrees to core axis. Lower contact 15 degrees, planar. Dark gray, carbonaceous-sandy mudstone bed with fine grained to medium grained, well sorted sandstone bed. Lower contact is broken. Core loss 1.50 m. core is washed and broken. Dark gray colored, medium grained, well sorted sandstone bed. Bottom 10.0 cm carbonaceous mudstone bed. No core, core loss. Dark gray colored sandy-carbonaceous mudstone bed. Lower contact is ~20 degrees, undulose. At 296.39-296.74 m	278.52 279.09 283.60 284.48 285.12 290.20	279.09 283.60 284.48 285.12 290.20 293.00 293.30	