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Shallow, Thick Coal Seam Development

- **Shallow coal seam development from 28.7 m down hole**
- **Cumulative coal seam thicknesses up to 132 m downhole.**
- **Extended drilling programme nearing completion**

Drilling Update

Drilling on the Nuurst Coal Project is nearing completion. With four rigs completing the remaining holes, the drilling programme has now drilled in excess of 4000 m of diamond drilling within the 2011 Targeted Resource Area.

Recent logging of the southernmost drilling, which is 200 m inside the licence boundary, has highlighted the shallow depth of the coal seam development in this area:

Hole No.	From	To	Sequence thickness (down hole)	Cumulative Coal Seam Thickness (down hole)
NDH 14	62.3 m	240.1 m	177.8 m	132.0 m
NDH 16	28.7 m	185.2 m	156.5 m	130.4 m
NDH 21	44.1 m	141.2 m	97.1 m	86.1 m

It is anticipated that the coal seam development extends to the southernmost boundary of the licence, becoming shallower. The following cross section highlights the shallow nature of the coal seam development.

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.

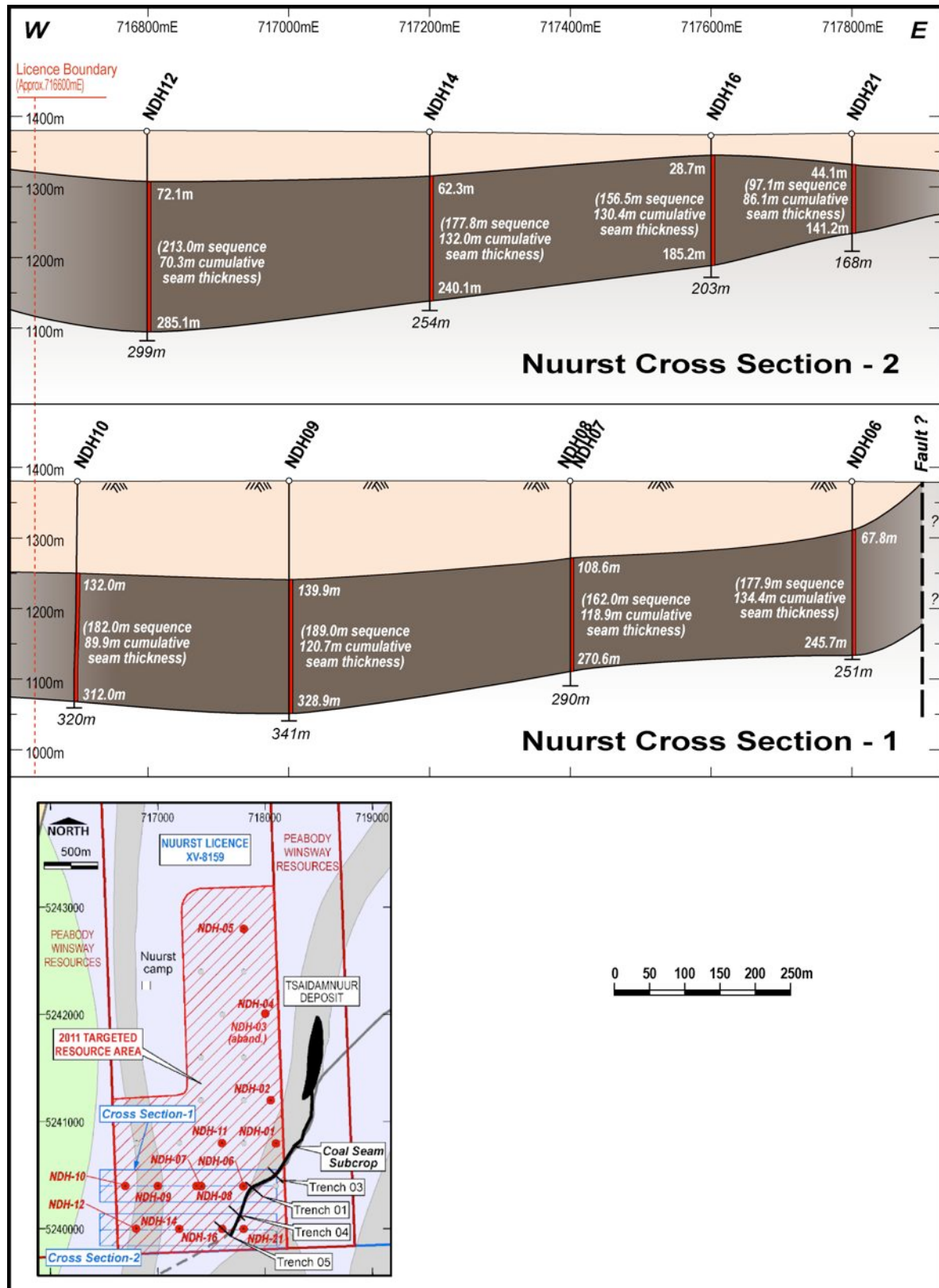


Figure 1: Cross section showing coal seam development, through the Targeted Resource Area.

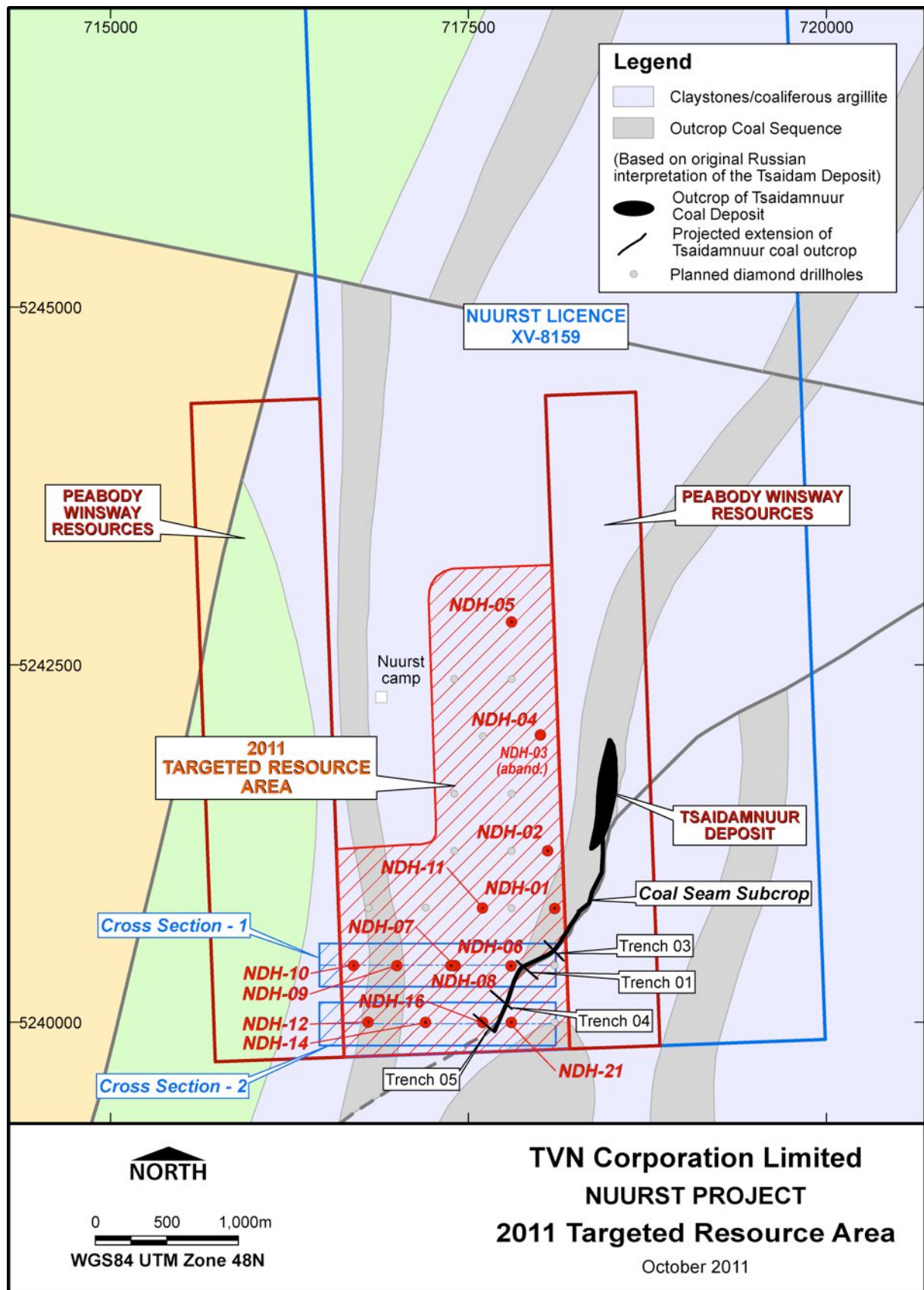
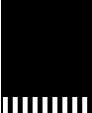


Figure 2: Recent Drilling Activity and Coal Seam Subcrop.

		PROJECT NAME	Nuurst		Collar location	
		LICENSE INFORMATION	XV-008159	EASTING	717200	
		DRILL HOLE NUMBER	NDH-14	NORTHING	5240000	
		DATE COLLARED	2011.10.08	GRID	UTM WGS-84	
		DATE COMPLETED	2011.10.15	ZONE	North 48	
		DESCRIPTION	From	To	Coal	
GRAPH	ROCK CODE	(Colour, Weathering, Rock Type, Grain size etc) Note: reference to the "core axis", refers to the <i>short core axis</i> . ie contacts are largely shallow dipping.	m	m	m	
	OSS-MG	0.00-28.00 m drilled RC. At 0.00-8.00 m brown colored, medium to very coarse grained, very poorly sorted sand with 0.5-2.0 cm thick, angular gravels. Gravels in total to 10-15%.	0.00	8.00		
	OSS-MG	Brown colored, medium to very coarse grained, very poorly sorted sand with reddish brown colored clay. Clay in total to 20-25%	8.00	10.00		
	CL	Brown colored sand, reddish brown clay bed with 0.5-2.5 cm thick, subangular gravels. Gravels in total to 20-25%	10.00	12.00		
	CL	Reddish brown colored clay bed with sand bed. Clay ~80% bed with 0.5-2.5 cm thick, subangular gravels. Gravels in total to 5-10%.	12.00	22.00		
	OSS-MG	medium to very coarse grained, very poorly sorted sand with 0.5-4.0 cm thick, subrounded gravels. Gravels to 15-20%.	22.00	29.00		
	NK	No core, core loss.	29.00	34.60		
	CONGL	Dark brown colored conglomerate bed. ~1.0 cm thick, rounded gravels. Gravels in total to 20-25%. Core is broken.	34.60	35.00		
	NK	No core, core loss.	35.00	35.20		
	CL	Yellow, yellowish brown colored clay bed. Lower contact is irregular.	35.20	35.95		
	MS	Yellowish brown to yellowish gray colored mud /mudstone/ bed.	35.95	36.83		
	MS	Gray colored mudstone bed. Lower contact is broken.	36.83	37.78		
	C	Black brown colored coal bed. Core is broken.	37.78	38.00		
	SHC	Black gray shaly coal bed. Lower contact is 5 degrees, undulose.	38.00	38.39		
	C	Black, black brown colored coal bed. Coal bed 5 degrees to core axis. Lower contact is 15 degrees, planar.	38.39	39.07		
	MS	Gray colored, interbedded carbonaceous mudstone, carbonaceous-sandy mudstone bed. Lower contact is 15 degrees, planar.	39.07	43.43		
	C	Black, black brown colored coal bed. Coal bed 5 degrees to core axis. Lower contact is ~15 degrees, planar.	43.43	43.72		
	MS	Gray, carbonaceous mudstone bed.	43.72	44.00		
	NK	No core, core loss.	44.00	46.00		
	MS	Gray colored, carbonaceous mudstone bed. Upper and lower contact broken.	46.00	47.00		
	CSH	Black interbedded coaly shale, carbonaceous mudstone and coal bed. Lower contact is 15 degrees, planar. At 47.78-47.85 m black brown, dull coal bed. At 48.12-48.14 m coal bed. At 49.67-49.90 m black, dull and bright coal bed, upper contact 45 degrees, irregular, contact 15 degrees.	47.00	50.00		
	MS	Gray colored, carbonaceous mudstone bed. Lower contact broken.	50.00	51.42		
	C	Black brown, dull and bright coal bed. Lower contact is 15 degrees, irregular.	51.42	51.64		
	MS	Gray colored carbonaceous mudstone bed with very rarely 1.0-6.0 cm thick coal bed. Lower contact broken. At 55.80-55.86 m coal bed, upper contact 5 degrees planar, lower contact broken. At 61.88-61.94 m coal bed, upper and lower contact broken.	51.64	62.00		
	CSH	Black gray colored, coaly shale bed. Lower contact is broken. 62.00-65.00 m core recovery 50%	62.00	62.30		
	C	Core recovery 46%, core loss 1.25 m. Black brown, dull and bright coal bed. Coal bed very fractured, filled fractures washed.	62.30	65.00	2.7	
	SH	Dark gray, black gray colored, interbedded carbonaceous shale, coaly shale bed. Lower contact is ~30 degrees to core axis, irregular.	65.00	66.76		
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 5-10 degrees mostly, rarely 15-20 degrees to core axis. Lower contact is 5 degrees, undulose.	66.76	68.07	1.31	
	MS	Dark gray, carbonaceous mudstone bed. Lower contact 5 degrees, undulose.	68.07	68.89		
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 5-10 degrees to core axis. Lower contact is 5 degrees, undulose.	68.89	69.17		
	SHC	Black gray shaly coal bed. Lower contact is 20 degrees, planar.	69.17	69.31		
	MS	Dark gray to gray, dark gray colored mudstone, carbonaceous mudstone bed. Top and bottom parts carbonaceous mudstone. Broken in some parts. Lower contact is broken.	69.31	73.88		
	C	Black brown, dull and bright coal seam. Coal seam with 2.0-11.0 cm thick shaly coal bed. Coal seam 5-15 degrees to core axis. Lower contact broken. Disseminated pyrite rarely. At 75.67-75.77 m black gray shaly coal bed, upper contact is 10 degrees, undulose, lower contact is 15 degrees, undulose. At 78.27-78.38 m black gray shaly coal bed, upper contact 0 degrees, planar, lower contact is 15 degrees.	73.88	81.00	7.12	
	SHC	Black gray shaly coal bed. Core is broken top parts. Lower contact is 5 degrees, planar.	81.00	81.27		
	C	Black brown, dull and bright coal bed with shaly coal bed. Bedding of the coal bed 10-15 degrees to core axis. Lower contact is broken.	81.27	84.77	3.5	
	CSH	Core is washed. Core loss 0.90 m. Black gray coaly shale bed. Lower contact is broken.	84.77	86.00		
	CSH	Black gray coaly shale bed with coal debris. Lower contact is broken. At 86.43-86.80 m fault zone, broken and coal breccia.	86.00	86.80		
	C	Black brown, dull and bright coal bed with 1.0-4.0 cm thick coaly shale bed. Bedding of the coal bed 0-10 degrees to core axis.	86.80	88.35	1.55	
	CSH	Dark gray, black gray colored, interbedded coaly shale. Lower contact is broken. At 88.74-88.80 m black brown coal bed.	88.35	89.00		
	C	Black brown, dull and bright coal bed with black gray shaly coal bed, lower contact is 20 degrees, undulose. Bedding of the coal bed 10-20 degrees to core axis. At 89.55-89.65 m black gray shaly coal bed, upper contact 10 degrees, lower contact 20 degrees, undulose.	89.00	89.95	0.95	
	CSH	Black gray coaly shale and shaly coal bed with coal debris. Lower contact is broken. At 90.37-90.47 m fault zone. At 90.47-90.61 m black brown dull and bright coal bed, upper and lower contact is broken.	89.95	90.80		
	C	Black brown colored dull and bright coal bed. Bedding of the coal bed 10-15 degrees to core axis. At 91.80-91.88 m black gray coaly shale bed, upper contact is 20 degrees, lower contact is 20 degrees, irregular.	90.80	92.00	1.2	
	MS	Dark gray, carbonaceous sandy mudstone bed. Lower contact 5 degrees, irregular.	92.00	92.91		
	CSH	Black brown, black gray, dark gray colored, interbedded coaly shale and coal bed. Lower contact is 5 degrees, irregular. At 92.91-93.30 m black brown, dull coal bed, lower contact is broken. At 93.58-93.69 m black brown dull coal bed, upper and lower contact are 20 degrees.	92.91	94.50		
	C	Black brown colored dull and bright coal bed. Bedding of the coal bed 10-15 degrees mostly, rarely 20 degrees to cre axis. Coal bed with black gray shaly coal bed. Lower contact is broken. Broken in some parts. At 95.55-95.62 m shaly coal bed, upper contact is 20 degrees, lower contact is 5 degrees to core axis, irregular. At 97.50-97.75 m fault gauge zone.	94.50	100.65	6.15	
	MS	Dark gray colored, carbonaceous mudstone bed. Lower contact is broken.	100.65	102.14		
	C	Black brown, dull coal bed with 1.0-3.0 cm thick coaly shale bed.	102.14	102.59		
	MS	Dark gray, carbonaceous mudstone bed. Lower contact 30 degrees, planar. Broken in some parts.	102.59	104.60		
	C	Black brown, dull coal bed with 1.0-4.0 cm thick shaly coal, coaly shale bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact 20 degrees to core axis, planar.	104.60	105.58	0.98	
	CSH	Black gray, dark gray colored coaly shale bed with 2.0-4.0 cm thick coal bed. Lower contact is broken.	105.58	107.58		
	C	Black brown, dull coal bed with 1.0-3.0 cm thick shaly coal bed. Bedding of the coal bed 5-15 degrees to core axis. Lower contact 20 degrees to core axis, planar.	107.58	110.00	2.42	
	SHC	Black gray shaly coal and coaly shale bed with 1.0-22.0 cm thick coal bed. At 110.00-112.05 m core loss 1.15 m. At 112.30-112.52 m black brown dull coal bed, upper contact broken, lower contact is 25 degrees, planar.	110.00	112.94		
	C	Black brown, dull coal bed. Coal bed 10-20 degrees to core axis/ lower contact is 20 degrees, planar. Coal bed with very rarely 1.0-4.0 cm thick shaly coal, coaly shale bed. At 115.46-115.50 m black gray, shaly coal bed, upper and lower contact is irregular. At 116.16-116.40 m core is broken, fault zone ??? At 116.00-119.00 m core loss 0.60 m, core recovery 80%.	112.94	117.31	4.37	
	MS	Gray to dark gray colored carbonaceous mudstone bed. Bottom parts coaly shale bed. Lower contact is 5 degrees to core axis, undulose.	117.31	118.69		
	C	Black brown, dull bright coal bed. Bedding 5-15 degrees, rarely 20 degrees to core axis. At 119.99-120.07 m dark gray coaly shale bed.	118.69	120.21	1.52	
	MS	Dark gray colored, carbonaceous mudstone bed. Lower contact is 30 degrees, planar.	120.21	122.92		

	C	Black brown, dull coal bed. Lower contact is irregular.	122.92	123.43	0.51
	SHC	Black gray shaly coal bed. Lower contact is broken.	123.43	123.68	
	C	Black brown, dull coal bed with 1.0-2.0 cm thick coaly shale bed. Lower contact is broken.	123.68	124.23	0.55
	CSH	Dark gray coaly shale bed with 0.5-2.0 cm thick coal bed. Lower contact is 5 degrees, undulose.	124.23	128.75	
	MS	Dark gray, carbonaceous mudstone bed. At 129.85-130.05 m black brown, dull coal bed.	128.75	130.69	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 5-15 degrees to core axis. Lower contact is 20 degrees, undulose.	130.69	131.90	1.21
	SHC	Black gray shaly coal bed. Lower contact 0 degrees, undulose.	131.90	132.28	
	C	Black brown colored, dull and bright coal seam. Bedding of the coal seam 5-10 degrees mostly, rarely 15-20 degrees to core axis. Lower contact 5-10 degrees, irregular. Coal seam with 1.0-3.0 cm thick shaly coal bed.	132.28	143.60	11.32
	MS	Dark gray colored carbonaceous mudstone bed. Lower contact is broken.	143.60	143.92	
	C	Black brown colored, dull and bright coal seam. Bedding of the coal seam 5-10 degrees to core axis. Lower contact 10 degrees, undulose. At 144.13-144.23 m black gray colored, banded coaly shale bed, upper and lower contact are 20 degrees, curvi-planar.	143.92	146.19	2.27
	CSH	Black gray coaly shale bed. Lower contact is 5 degrees, irregular.	146.19	146.39	
	C	Black brown, dull and bright coal bed. Lower contact is 20 degrees, planar /sharp/.	146.39	146.92	0.53
	CSH	Black gray coaly shale, shaly coal bed. Top parts coaly shale, bottom parts shaly coal. Lower contact is 5 degrees, irregular. At 147.04-147.17 m black brown, dull coal bed, upper contact 20 degrees, planar, lower contact 20 degrees, undulose.	146.92	147.34	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 5-10 degrees, and 15 degrees to core axis. Lower contact 5 degrees, planar. At 148.90-148.95 m shaly coal bed. At 148.95-149.00 m shear zone, core is broken and rounded.	147.34	150.30	2.96
	CSH	Black gray and black brown, interbedded coaly shale, shaly coal and coal bed. Lower contact 0 degrees, undulose.	150.30	151.25	
	C	Black brown colored, dull and bright coal seam. Coal seam 10-20 degrees mostly, rarely 5 degrees to core axis. Lower contact is 5 degrees, curvi-planar. At 151.55-151.66 m black gray shaly coal bed, upper contact 30 degrees, planar, lower contact is 0 degrees to core axis.	151.25	153.07	1.82
	CSH	Black gray coaly shale bed. Lower contact is broken.	153.07	153.40	
	C	Black brown, dull and bright coal seam. Coal seam 10-20 degrees to core axis. Lower contact ~15 degrees, planar.	153.40	157.33	3.93
	CSH	Black gray coaly shale bed. Lower contact 5 degrees, planar.	157.33	157.58	
	C	Black brown, dull and bright coal seam. Coal seam 10-15 degrees to core axis. Lower contact 0 degrees, planar. Coal seam with very rarely 1.0 cm thick coaly shale bed.	157.58	162.96	5.38
	SH	Dark gray colored shale bed with tiny coal bed. Lower contact is 20 degrees to core axis, curvi-planar. At 163.04-163.12 m black brown, dull and bright coal bed, upper and lower contact are 5 degrees, planar. At 163.46-163.54 m black brown, dull coal bed.	162.96	163.58	
	C	Black brown, dull and bright coal bed. Coal seam 5-10 degrees to core axis. Lower contact is 5 degrees, irregular.	163.58	164.17	0.59
	SHC	Black gray, shaly coal bed. Lower contact 0 degrees, irregular.	164.17	164.41	
	C	Black brown, dull and bright coal bed with 6.0 cm thick coaly shale bed. Lower contact 5 degrees, planar. At 165.56-165.62 m coaly shale bed.	164.41	166.15	1.74
	CSH	Dark gray coaly shale bed. Lower contact is 0 degrees, undulose.	166.15	166.50	
	C	Black brown, dull and bright coal seam. bedding of the coal seam 5-10 degrees to core axis. Lower contact 5 degrees, irregular. At 168.89-168.95 m black gray coaly shale bed, upper contact irregular, lower contact is 20 degrees, curvi-planar. At 172.46-172.54 m black gray shaly coal bed, upper contact is 5 degrees, lower contact is 20 degrees, curvi-planar.	166.50	177.02	10.52
	CSH	Black gray, coaly shale bed. Lower contact is 30 degrees, undulose.	177.02	177.38	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 5-15 degrees mostly, rarely /top parts/ 45-50 degrees to core axis.	177.38	179.00	1.62
	CSH	Black gray coaly shale bed. Lower contact is irregular.	179.00	179.26	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 10-15 degrees mostly, rarely 20-25 degrees to core axis. Lower contact irregular. At 179.66-179.73 m black gray shaly coal bed, upper and lower contact irregular. At 185.27-185.37 m black gray coaly shale bed, upper contact 25 degrees, lower contact 5 degrees, curvi-planar.	179.26	185.72	6.46
	CSH	Black gray coaly shale and shaly coal bed. Core is very broken, fractured.	185.72	186.90	
	C	Black brown, dull and bright coal bed. Core is broken.	186.90	187.26	
	CSH	Black gray coaly shale and shaly coal bed. Lower contact 25 degrees, planar.	187.26	188.00	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 15-20 degrees to core axis. Lower contact 5 degrees, undulose. Coal seam with rarely 1.0-6.0 cm thick shale bed. At 131.69-131.75 m dark gray shale bed, upper and lower contact are 30-35 degrees to core axis, curvi-planar.	188.00	193.81	5.81
	CSH	Black gray coal shale bed. Lower contact 25 degrees, curvi-planar.	193.81	194.14	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 10-20 degrees mostly, rarely 0-5, 20-30 degrees to core axis. Coal seam with 2.0-8.0 cm thick coaly shale, shaly coal bed. Lower contact is broken. At 196.60-196.80 m coal bed with disseminated pyrite and carbonated. At 198.20-198.33 m shear zone, core is broken and rounded. At 198.50-198.58 m dark gray coaly shale bed, upper contact irregular, lower contact 30 degrees, undulose. At 199.80-199.92 m shear zone, core is broken, rounded. At 203.72-203.80 m shaly coal bed, upper contact 20 degrees, curvi-planar, lower contact broken. At 210.45-210.65 m shear zone.	194.14	212.15	18.01
	CSH	Black gray to dark gray colored coaly shale bed. Lower contact broken.	212.15	212.46	
	C	Black brown, dull and bright coal seam. Bedding of the coal seam 10-20 degrees to core axis. Lower contact is broken. At 217.03-217.10 m black gray shaly coal bed, upper contact is broken, lower contact 20 degrees, undulose. At 219.12-219.16 m black gray coaly shale bed. At 219.36-219.50 m shear zone, core is broken, rounded. At 220.88-220.94 m shear zone, broken and rounded. At 221.14-221.25 m shear zone.	212.46	222.51	10.05
	CSH	Dark gray to black gray colored coaly shale bed. Lower contact is 15 degrees to core axis, irregular.	222.51	223.85	
	C	Black brown, dull coal bed. Bedding of the coal bed 5-15 degrees to core axis. Lower contact is 20 degrees, undulose.	223.85	224.77	0.92
	MS	Dark gray carbonaceous mudstone bed. Lower contact is broken.	224.77	225.13	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 5-15 degrees to core axis. Lower contact is 30 degrees, planar.	225.13	226.56	1.43
	SH	Dark gray shale bed. Lower contact 20 degrees, curvi-planar.	226.56	226.79	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 10-20 degrees mostly, 0-5, 25-30 degrees to core axis. Lower contact broken.	226.79	235.16	8.37
	SH	Dark gray shale bed. Lower contact 5 degrees, irregular.	235.16	236.53	
	C	Black brown, dull and bright coal bed. Lower contact 20 degrees, planar.	236.53	238.30	1.77
	MS	Black gray to dark gray colored carbonaceous mudstone bed. At top 10 cm coaly shale bed. Lower contact 5 degrees, planar.	238.30	239.64	
	C	Black brown, dull and bright coal bed with 1.0-3.0 cm thick shaly coal, coaly shale bed. Lower contact 20 degrees, planar.	239.64	240.15	0.51
	SH	Dark gray colored, interbedded shale and carbonaceous mudstone bed. Lower contact 25 degrees, planar.	240.15	244.34	
	SS-FG	Gray colored, fine to coarse grained, well sorted sandstone bed. Lower contact is 15 degrees, planar.	244.34	245.15	
	MS	Black gray, carbonaceous mudstone and coaly shale bed with coal tiny bed. Lower contact is broken. At 247.88-248.00 m black brown, dull coal bed. At 248.18-248.37 m black brown, dull coal bed, upper contact 20 degrees, planar, lower contact 15 degrees, planar.	245.15	249.09	
	NK	No core, core loss.	249.09	250.49	
	MS	Gray colored carbonaceous-sandy mudstone. Lower contact is broken.	250.49	251.00	
	NK	No core, core loss.	251.00	252.40	
	SS-VCG	Gray colored, very coarse grained, well sorted sandstone bed with coal debris. Lower contact 10 degrees, irregular.	252.40	252.92	
	MS	Gray mudstone bed. End of hole.	252.92	254.00	

Cumulative coal seam thickness 132.05

		PROJECT NAME	Collar location		
		LICENSE INFORMATION	XV-008159	EASTING	717600
		DRILL HOLE NUMBER	NDH-16	NORTHING	5240000
		DATE COLLARED	2011.10.23	GRID	UTM WGS-84
		DATE COMPLETED	2011.10.28	ZONE	North 48
		DESCRIPTION	From	To	Coal
GRAPH	ROCK CODE	(Colour, Weathering, Rock Type, Grain size etc) Note: reference to the "core axis", refers to the <i>short core axis</i> . ie contacts are largely shallow dipping	m	m	m
	OSS-FG	Drilled PCD bit. Brown colored, fine to very coarse grained sand.	0.00	15.00	
	CL	Yellowish gray clay bed. Core is washed. Core recovery 65%. Bottom parts coaly shale. Lower contact is irregular.	15.00	16.54	
	MS	Grayish blue colored carbonaceous mudstone bed with coal debris. Lower contact is broken.	16.54	18.30	
	MS	Gray colored mudstone bed, very strong strength. Lower contact is broken.	18.30	20.00	
	MS	Carbonaceous mudstone and coaly shale bed with coal debris. Bottom parts washed, broken. At last 18 cm coal bed.	20.00	23.00	
	MS	Core loss-0.70 m. Dark gray, gray colored carbonaceous mudstone bed. Some parts very strong strength. Lower contact is 0 degrees.	23.00	26.00	
	MS	Black gray carbonaceous mudstone bed. 26.00-29.00 m core loss-0.50 m.	26.00	28.70	
	C	Black brown, dull and bright coal bed. Broken in some parts. Lower contact is ~20 degrees, planar. Bedding of the coal bed 20-25 degrees to core axis.	28.70	30.10	1.4
	SHC	Black gray shaly coal bed. Lower contact is 25 degrees to core axis, undulose.	30.10	30.30	
	C	Black brown, dull and bright coal bed. Lower contact is ~15 degrees, planar. Broken in some parts.	30.30	30.87	0.57
	SHC	Black gray shaly coal bed. Lower contact is 15 degrees to core axis, planar.	30.87	31.78	
	C	Black brown, dull and bright coal bed. Coal bed is not washed, shaly coal, coaly shale bed washed filling fractures. Bedding of the coal bed 10-15 degrees to core axis. Lower contact is broken. At 31.80-34.80 m core loss 0.50 m. At 33.80-33.90 m shaly coal bed, upper and lower contact is broken. At 35.05-35.90 m core is very broken, fault zone. At 35.78-35.90 m shaly coal bed. At 38.00-41.00 m core loss 1.60 m. At 38.00-38.12 m shaly coal bed, lower contact is broken. At 40.89-41.00 m shaly coal bed with coal debris, broken in core.	31.78	41.00	9.22
	MS	Gray mudstone bed, very strong strength. Lower contact is broken.	41.00	41.53	
	MS	Black gray colored carbonaceous mudstone bed. Lower contact is 25 degrees, irregular. 41.00-44.00 m core loss 0.70 m.	41.53	43.29	
	C	Black brown, dull and bright coal bed. Broken in some parts. Lower contact is ~20 degrees, undulose. At 43.56-43.82 m core is very broken, fault zone.	43.29	44.00	0.71
	SHC	Black gray shaly coal, coaly shale bed with 1.0-8.0 cm thick coal bed. Lower contact is 20 degrees, planar. At 44.00-47.00 m core loss 1.90 m.	44.00	47.99	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed ~20 degrees to core axis. Lower contact is broken.	47.99	48.65	0.66
	MS	Dark gray carbonaceous mudstone bed. Lower contact is 25 degrees, planar.	48.65	48.83	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed ~20-25 degrees to core axis. Lower contact is broken.	48.83	49.67	0.84
	SHC	Black gray shaly coal bed with coal debris. Core is very broken. Lower contact is ~20 degrees, planar.	49.67	50.13	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed ~20 degrees to core axis. Lower contact is broken. Coal bed with 1.0-2.0 cm thick shaly coal and coaly shale bed.	50.13	54.90	4.77
	MS	At 54.90-56.00 m core recovery 54%, core loss 0.50 m. Black gray carbonaceous mudstone bed. Lower contact is broken.	54.90	56.20	
	MS	Mudstone, dark greenish grey, massive	56.20	57.43	
	SHC	Shalley coal, brownish black, banded 23 degrees, pyritic, graded into coal	57.43	58.20	
	C	Coal, brownish black, dull, banded, 1-3 cm coaly shale and carbonaceous mudstone lamination, 18 degrees. Partings: 60.15-60.20 shalley coal; 61.16-61.20 shalley coal; 61.85-61.93 coaly shale-carbonaceous mudstone; 12 degrees bedding	58.20	69.60	11.4
	NK	Core loss	69.60	70.30	
	MS	Mudstone, dark grey, massive, carbonaceous and coal streaks in place	70.30	70.80	
	MS	Mudstone, greenish grey-greivish black, fine grained sandstone at 71.50-71.66	70.80	72.57	
	CSH	Coaly shale-carbonaceous mudstone, greivish black, graded into coal	72.57	73.78	
	C	Coal, brownish black, dull	73.78	73.30	0.52
	MS	Mudstone, dark grey	73.30	73.48	
	CSH	Coaly shale, greivish black	73.48	73.58	
	C	Coal, brownish black, dull, woody structure, graded into coaly shale	73.58	74.10	0.52
	CSH	Coaly shale, medium dark grey, coal fragments and carbonaceous in place	74.10	74.40	
	MS	Carbonaceous mudstone, medium-dark grey, coal fragments, coaly shale in place	74.40	74.80	
	C	Coal, brownish black, dull, 13 degrees, woody structure	74.80	75.20	
	MS	Mudstone, dark greenish grey, sheared	75.20	75.50	
	NK	Core loss	75.50	77.00	
	MS	Intercalated mudstone-carbonaceous mudstone, medium light grey-dark grey, coaly shale in place	77.00	78.80	
	NK	Core loss	78.80	80.00	
	MS	Mudstone, medium dark grey, thin (<1cm) coaly shale lamination, 18 degrees	80.00	80.43	
	CSH	Coaly shale, greivish black	80.43	80.67	
	MS	Intercalated medium grey mudstone-greivish black coaly shale-thin brownish black coal. 12-32 degrees	80.67	81.54	
	C	Coal, brownish black, dull, banded, 17 degrees	81.54	82.10	0.56
	MS	Mudstone, light grey-medium light grey, carbonaceous and coal streaks in place	82.10	82.68	
	CSH	Coaly shale-shalley coal, brownish-greivish black, thin (2cm) coal lamination, core is washed	82.68	83.40	
	C	Coal, brownish black, dull, banded, 9-14 degrees, pyritic on cleats. Partings: 84.55-84.67 coaly shale; 89.10-89.20 coaly shale; 89.89-89.94 shalley coal; 90.56-90.68 fine grained sandstone; 96.39-96.49 shalley coal; 96.61-96.71 shalley coal; 97.86-97.92 shalley coal	83.40	99.15	15.75
	SHC	Core loss 0.30 m. Black gray shaly coal bed. Core is broken.	99.15	99.67	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed ~10-15 degrees to core axis. Lower contact is broken. At 99.92-100.00 m black gray shaly coal bed, upper contact is 10 degrees, lower contact is 15 degrees to core axis, planar.	99.67	100.35	0.68
	SHC	Black gray shaly coal bed with coal debris. Lower contact is 20 degrees, planar.	100.35	100.55	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 15-20 degrees to core axis. Lower contact is 15 degrees to core axis, planar.	100.55	102.71	2.16
	CSH	Black gray coaly shale bed. Lower contact is 15 degrees, undulose.	102.71	102.83	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 10-15 degrees to core axis.	102.83	103.44	0.61
	CSH	Black gray coaly shale bed. Lower contact is 20 degrees, undulose.	103.44	103.62	
	C	Black brown, dull and bright coal bed. Bedding of the coal bed 10-15 degrees to core axis. Lower contact is 15 degrees to core axis, planar.	103.62	104.69	1.07
	SHC	Black gray shaly coal bed. Bottom parts broken.	104.69	104.91	
	C	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, undulose. Broken in some parts. At 110.25-110.29 m black gray shaly coal bed, upper and lower contact is 20 degrees, planar.	104.91	110.45	5.54
	CSH	Black gray coaly shale bed. Lower contact is 10 degrees, planar.	110.45	110.76	
	C	Coal, brownish black, dull, banded 13-20 degrees, pyritic, woody structure in place, shalley coal parting at 113.11-113.17	110.76	117.26	6.5
	CSH	Coaly shale, greivish black	117.26	117.36	
	C	Coal, dark brown-brownish black, dull, banded 12-21 degrees, woody structure, pyritic in place. Partings: 117.91-117.95 shalley coal; 119.26-119.28 carbonaceous mudstone; 119.89-120.06 fractured coal, broken, filled with carbonaceous mudstone; 120.23-120.26 coaly shale; 120.80-120.85 carbonaceous mudstone; 122.08-122.11 shalley coal; 122.67-122.78 fractured coal filled with coaly shale; 125.25-125.34 shalley coal; 125.61-125.66 carbonaceous mudstone	117.36	128.70	11.34
	C	Broken and pulverized coal, carbonaceous mudstone fill	128.70	129.05	
	C	Coal, dark brown-brownish black, dull with minor bright, banded 20-35 degrees, woody structure. Partings: 129.85-129.95 carbonaceous mudstone; 131.84-131.88 carbonaceous mudstone-shalley coal; 137.14-137.24 carbonaceous mudstone-shalley coal; 138.18-138.20 claystone	129.05	143.05	14
	CSH	Coaly shale, greivish black, graded into coal	143.05	143.27	
	C	Coal, dark brown-brownish black, dull, woody structure, banded 23 degrees	143.27	152.62	9.35
	C	Stony coal, brownish black, hard, pyritic	152.62	152.92	

185.17

C	Coal, dark brown-brownish black, dull with minor bright, woody structure, banded 12-26 degrees, pyritic in place. 167.17-17.42 broken and fractured coal with shalley coal fill; 169.00-169.10 stony coal, pyritic; 171.43-171.50 coaly shale; 172.47-172.54 broken coal filled with carbonaceous mudstone; 173.00-173.09 broken coal and shalley coal; 174.30-174.54 broken coal filled with carbonaceous mudstone; 182.30-182.32 claystone	152.92	185.17	32.25
CL	Claystone, medium dark grey, carbonaceous, sheared	185.17	185.57	
CSH	Coaly shale graded into coal, greyish-brownish black	185.57	185.94	
MS	Mudstone, light-dark grey, silty, carbonaceous in place	185.94	187.20	
NK	Core loss	187.20	188.40	
MS	Mudstone, medium grey, silty	188.40	189.06	
SS	Sandstone, light grey, fine grained, sharp-planar contact 20 degrees	189.06	189.14	
MS	Sandy mudstone, medium-medium dark grey, graded into fine grained sandstone	189.14	191.00	
SS	Sandstone, light grey, medium-coarse grained, moderately sorted, thin carbon layers on top	191.00	192.32	
NK	Core loss	192.32	193.82	
SS	Sandstone, light-medium light grey, coarse-very coarse grained, poorly sorted, carbon and coal fragments in place	193.82	194.87	
NK	Core loss	194.87	196.77	
SS	Sandstone, light-medium light grey, coarse-very coarse grained, poorly sorted, carbon and coal fragments in place	196.77	197.00	
NK	Core loss	197.00	198.45	
SS	Sandstone, light-medium light grey, coarse-very coarse grained, poorly sorted, carbon and coal fragments in place	198.45	200.00	
NK	Core loss	200.00	201.85	
SS	Sandstone, light-medium light grey, coarse-very coarse grained, poorly sorted, carbon and coal fragments in place	201.85	203.00	

Cumulative coal seam thickness 130.42

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44.10

141.20