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	Waukivory 14					
Project AGL Organization Site Hole Type Open hole				Northing Grid Accuracy	402906.1 6452384.08 GDA-94 Australian Height Datum	Collar 99.7 Total Depth 1015 Inclination 0 Azimuth 0
Commenced 21/10/12 Completed 25/10/12				Drilling Company Drill Rig Type	ENS	
Plug Depth 0 Logging Company Logged By Encoded By Core Type Drill Bit Type					Cased Depth 0 Casing Type Size of Casing 0 Fluid Standing Water Level 0 ole Logging Company Lease PEL 2	Lower 0
	amma Log aliper Log	☐ Neutron Log ☐ Sonic Log	Density Log Photographed	Bed Resolution Le	og Self Potential Log	Resistivity Log Dip Log Geotechnical Log
From	То					
14	17	SANDSTONE, fine grain	ined, light grey, micace	eous occasional silty; fre	esh, moderately strong, CRA	
17	20				us stringers of coal; intermixed naceous fragments, CRA	d with COAL 20%, dark grey black, interbanded
20	23	SANDSTONE, fine grai	ned, grey, lithic mode	rately sorted; fresh, stro	ng, CRA	
23	26	SANDSTONE 90%, fine	e-medium grained, gre	ey, occasional silty occa	sional muddy; intermixed with	STONY COAL 10%, black; fresh, strong, CRA
26	32	SANDSTONE, fine-med	dium grained, grey, lith	nic minor coaly high sph	ericity, well-rounded; fresh, st	rong, CRA
32	35	SILTSTONE, grey, mine	or sandy high spherici	ty, well-rounded; fresh,	strong, CRA	
35	38	SANDSTONE, fine-med	dium grained, grey, mi	nor silty minor muddy; f	resh, strong, CRA	
38	44	SANDSTONE, fine-med	dium grained, grey, ab	undant silty high spheri	city, well-rounded lithic; fresh,	strong, CRA
44	47	SANDSTONE 60%, fine	e grained, grey, lithic; i	intermixed with SILTST	ONE 40%, grey, high spherici	ty, well-rounded; fresh, strong, CRA
47	50	SANDSTONE, very fine	e grained, grey dark gr	ey, lithic lithic-quartz; fr	esh, moderately strong, CRA	
50	53	SANDSTONE, very fine	e grained, grey dark gr	ey, coaly high sphericity	, well-rounded minor silty; fre	sh, moderately strong, CRA
53	56	SILTSTONE, grev: fres	h. moderately strong.	CRA		

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From	То	Description
56	59	SANDSTONE, fine grained, grey, coaly high sphericity, well-rounded minor silty; fresh, moderately strong, CRA
59	62	SILTSTONE, grey, minor sandy high sphericity, well-rounded; fresh, moderately strong, CRA
62	65	SANDSTONE 65%, fine-medium grained, grey, lithic; intermixed with SILTSTONE 35%, grey, high sphericity, well-rounded; fresh, moderately strong, CRA
65	68	SILTSTONE 55%, grey, high sphericity, well-rounded; intermixed with SANDSTONE 45%, fine grained, grey, lithic; fresh, moderately strong, CRA
68	71	SANDSTONE, fine grained, grey, lithic minor silty high sphericity, well-rounded; fresh, moderately strong, CRA
71	74	TUFF 60%, cream, coaly high sphericity, well-rounded; intermixed with SANDSTONE 40%, fine grained, grey, coaly high sphericity, well-rounded; fresh, weak, CRA
74	77	SANDSTONE 90%, fine grained, grey, abundant tuffaceous; with STONY COAL 10%, black, dull, tends to stony; fresh, moderately strong, CRA
77	86	SANDSTONE, fine grained, grey, minor carbonaceous minor silty; fresh, moderately strong, CRA
86	89	SILTSTONE 50%, grey, high sphericity, well-rounded; intermixed with SANDSTONE 50%, fine grained, grey, lithic; fresh, moderately strong, CRA
89	92	SILTSTONE 60%, dark grey, abundant coaly high sphericity, well-rounded; intermixed with SANDSTONE 40%, fine grained, grey, abundant coaly high sphericity, well-rounded; fresh, moderately strong, CRA
92	95	SANDSTONE, fine-medium grained, grey, minor coaly high sphericity, well-rounded lithic; fresh, moderately strong, CRA
95	99	SANDSTONE 90%, fine-medium grained, grey, lithic minor silty high sphericity, well-rounded; intermixed with STONY COAL 10%, black, dull, tends to stony; fresh, moderately strong, CRA
99	107	SANDSTONE, fine-medium grained, grey, minor coaly minor silty; fresh, moderately strong, CRA
107	110	SANDSTONE, fine grained, grey, minor coaly; fresh, moderately strong, CRA
110	113	SANDSTONE 80%, fine grained, grey; intermixed with STONY COAL 20%, black; fresh, moderately strong, CRA
113	116	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
116	119	SANDSTONE 70%, fine grained, grey, lithic; intermixed with STONY COAL 30%, brownish black, dull, tends to stony; fresh, moderately strong, CRA
119	122	SANDSTONE 50%, fine grained, grey, lithic; intermixed with SILTSTONE 30%, DH, sandy in part; with STONY COAL 20%, black, dull, tends to stony stony throughout; fresh, moderately strong, CRA
122	124.57	SANDSTONE, fine grained, grey, minor coaly lithic; fresh, moderately strong, CRA
124.57	124.71	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
124.71	125.71	SANDSTONE, fine-medium grained, grey, minor coaly lithic; fresh, moderately strong, CRA
125.71	125.92	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
125.92	128.8	SANDSTONE, fine-medium grained, grey, minor coaly lithic; fresh, moderately strong, CRA
128.8	128.93	COAL UNDIFF., black, dull, tends to stony stony; fresh, moderately strong, CRA
128.93	129.46	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
129.46	129.61	COAL UNDIFF., black, dull, tends to stony; fresh, moderately strong, CRA
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From	То	Description
129.61	129.81	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
129.81	129.86	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
129.86	130.26	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
130.26	130.37	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
130.37	133	SILTSTONE, grey, sandy in part; fresh, moderately strong, CRA
133	136.01	SANDSTONE, fine grained, grey, lithic minor silty high sphericity, well-rounded; fresh, moderately strong, CRA
136.01	136.08	COAL UNDIFF., black; fresh, weak, CRA
136.08	139	SANDSTONE 80%, fine grained, grey, lithic minor silty; with COAL UNDIFF. 20%, black, dull, tends to stony; fresh, moderately strong, CRA
139	142.89	SANDSTONE, fine grained, grey, lithic minor coaly high sphericity, well-rounded; fresh, moderately strong, CRA
142.89	143.48	COAL, dull, tends to stony; fresh, weak, CRA
143.48	144.18	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
144.18	144.8	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
144.8	148	SANDSTONE 90%, fine grained, grey, lithic; with COAL 10%, black; fresh, moderately strong, CRA
148	151	SANDSTONE, fine grained, grey, lithic minor coaly; fresh, moderately strong, CRA
151	155.81	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
155.81	155.93	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
155.93	158.83	SANDSTONE 65%, fine grained, grey, lithic minor coaly high sphericity, well-rounded; with SILTSTONE 35%, grey, minor coaly high sphericity, well-rounded; fresh, moderately strong, CRA
158.83	158.91	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
158.91	160	SANDSTONE 65%, fine grained, grey, lithic minor coaly high sphericity, well-rounded; with SILTSTONE 35%, grey, minor coaly high sphericity, well-rounded; fresh, moderately strong, CRA
160	163	SANDSTONE, fine grained, grey, lithic lithic-quartz; fresh, moderately strong, CRA
163	164.6	SANDSTONE 70%, fine-medium grained, grey, lithic coaly high sphericity, well-rounded; with SILTSTONE 30%, grey, coaly high sphericity, well-rounded; fresh, moderately strong, CRA
164.6	164.69	COAL UNDIFF., black; fresh, moderately strong, CRA
164.69	169	SANDSTONE, fine-medium grained, grey, lithic lithic-quartz; fresh, moderately strong, CRA
169	172	SANDSTONE, fine grained, grey, lithic rare coaly; fresh, moderately strong, CRA
172	180.03	TUFF, light grey, high sphericity, well-rounded rare coaly; fresh, strong, CRA
180.03	180.33	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
180.33	180.83	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA

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From	То	Description
180.83	181.39	COAL, black, dull, minor bright bands(>1%) occasional; fresh, weak, CRA
181.39	184	SANDSTONE 80%, fine grained, grey, lithic; with COAL UNDIFF. 20%, black; fresh, moderately strong, CRA
184	187.19	SANDSTONE, fine grained, grey, lithic minor coaly; fresh, moderately strong, CRA
187.19	187.37	COAL UNDIFF., black; fresh, weak, CRA
187.37	187.56	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
187.56	187.71	COAL UNDIFF., black; fresh, weak, CRA
187.71	187.9	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
187.9	188.12	COAL UNDIFF., black; fresh, weak, CRA
188.12	195.4	SANDSTONE 90%, fine grained, grey, lithic; with COAL 10%, black; fresh, moderately strong, CRA
195.4	195.52	COAL UNDIFF., black; fresh, weak, CRA
195.52	196.77	SANDSTONE, fine grained, grey, lithic rare coaly; fresh, moderately strong, CRA
196.77	197.3	COAL, black, dull, minor bright bands(>1%) occasional; fresh, weak, CRA
197.3	198.68	SANDSTONE, grey; fresh, moderately strong, CRA
198.68	198.93	COAL UNDIFF., black; fresh, weak, CRA
198.93	202.5	SANDSTONE, fine grained, grey; fresh, moderately strong, CRA
202.5	202.8	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
202.8	208	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
208	210.99	SANDSTONE 80%, fine grained, grey, lithic; with SILTSTONE 20%, grey; fresh, moderately strong, CRA
210.99	211.32	COAL UNDIFF., black; fresh, weak, CRA
211.32	215.95	SANDSTONE, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh, moderately strong, CRA
215.95	216.13	COAL UNDIFF., black; fresh, weak, CRA
216.13	218.37	SILTSTONE 60%, grey, coaly high sphericity, well-rounded; with SANDSTONE 40%, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh, moderately strong, CRA
218.37	218.49	COAL UNDIFF., black; fresh, weak, CRA
218.49	220	SILTSTONE 60%, grey, coaly high sphericity, well-rounded; with SANDSTONE 40%, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh, moderately strong, CRA
220	223	SANDSTONE 95%, fine grained, grey, lithic silty in part; with COAL 5%, black; fresh, moderately strong, CRA
223	226	SANDSTONE 65%, fine grained, grey, lithic coaly high sphericity, well-rounded; with SILTSTONE 35%, grey, coaly high sphericity, well-rounded; fresh, moderately strong, CRA
226	232	SANDSTONE, fine grained, grey, lithic minor silty high sphericity, well-rounded; fresh, moderately strong, CRA

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From	То	Description
232	238	SANDSTONE 70%, fine-medium grained, grey, lithic lithic-quartz rare coaly; with SILTSTONE 30%, grey; fresh, moderately strong, CRA
238	241	SANDSTONE, fine-medium grained, grey, silty in part; fresh, moderately strong, CRA
241	244	SANDSTONE 90%, fine grained, grey, lithic; with COAL 10%, black; fresh, moderately strong, CRA
244	256.76	SANDSTONE, fine-medium grained, grey, lithic minor silty high sphericity, well-rounded; fresh, moderately strong, CRA
256.76	257.04	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
257.04	265	SANDSTONE 65%, fine grained, grey, lithic coaly high sphericity, well-rounded; with SILTSTONE 35%, grey, coaly high sphericity, well-rounded; fresh, moderately strong, CRA
265	267.64	SILTSTONE, grey, abundant sandy high sphericity, well-rounded; fresh, moderately strong, CRA
267.64	267.85	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
267.85	268.01	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
268.01	268.26	COAL UNDIFF., black; fresh, weak, CRA
268.26	268.58	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
268.58	268.91	COAL UNDIFF., black; fresh, weak, CRA
268.91	269.1	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
269.1	269.17	COAL UNDIFF., black; fresh, weak, CRA
269.17	269.37	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
269.37	269.45	COAL UNDIFF., black; fresh, weak, CRA
269.45	269.99	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
269.99	270.26	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
270.26	279.51	SANDSTONE 70%, light grey, moderately sorted quartz-lithic; intermixed with SILTSTONE 30%, grey brown, occasional coal,banded rare stringers of coal; fresh, strong, CRA
279.51	279.61	COAL UNDIFF., black; fresh, weak, CRA
279.61	281.5	SANDSTONE 70%, light grey, moderately sorted quartz-lithic; intermixed with SILTSTONE 30%, grey brown, occasional coal, banded rare stringers of coal; fresh, strong, CRA
281.5	281.65	COAL UNDIFF., black; fresh, weak, CRA
281.65	282.48	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
282.48	282.78	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
282.78	286.99	SANDSTONE 70%, light grey, moderately sorted quartz-lithic; intermixed with SILTSTONE 30%, grey brown, occasional coal, banded rare stringers of coal; fresh, strong, CRA
286.99	287.13	COAL UNDIFF., black; fresh, weak, CRA

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From	То	Description
287.13	287.59	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
287.59	287.78	COAL UNDIFF., black; fresh, weak, CRA
287.78	292.41	SANDSTONE 90%, fine grained, light grey, moderately sorted lithic SV; intermixed with SILTSTONE 10%, dark grey, sandy rare coal, banded; fresh, strong, CRA
292.41	292.5	COAL UNDIFF., black; fresh, weak, CRA
292.5	298	SANDSTONE 80%, fine grained, grey, moderately sorted lithic occasional coal,banded; intermixed with SILTSTONE 20%, dark grey brown, coal,banded low sphericity, very angular; fresh, strong, CRA
298	301	SANDSTONE 90%, fine grained, grey, moderately to well sorted lithic coal, banded; intermixed with SILTSTONE 10%, dark grey brown, abundant coal, banded; fresh, strong, CRA
301	305.61	SANDSTONE, fine grained, light grey grey, moderately sorted rare coal, banded tuffaceous; fresh, strong, CRA
305.61	306.07	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
306.07	306.27	SANDSTONE, grey; fresh, moderately strong, CRA
306.27	306.38	COAL UNDIFF., black; fresh, weak, CRA
306.38	307.97	SANDSTONE 90%, fine grained, grey, moderately sorted rare coal, banded; intermixed with TUFF 10%, cream, silty; fresh, moderately strong, CRA
307.97	308.12	COAL UNDIFF., black; fresh, weak, CRA
308.12	310	SANDSTONE 90%, fine grained, dark grey, moderately sorted coal, banded rare micaceous; intermixed with COAL 10%, dark grey black, abundant coal, banded silty; fresh, moderately strong, CRA
310	316	SANDSTONE, fine grained, dark grey, coal, banded rare tuffaceous silty; fresh, moderately strong, carbonaceous fragments, CRA
316	319	SANDSTONE 80%, fine grained, grey, possibly tuffaceous moderately sorted; intermixed with SILTSTONE 20%, dark grey, occasional coal,banded; fresh, moderately strong, CRA
319	321.76	SANDSTONE, fine grained, dark grey, rare silty occasional coal, banded; fresh, strong, carbonaceous fragments, CRA
321.76	322.13	COAL UNDIFF., black, dull, minor bright bands(>1%); fresh, weak, CRA
322.13	322.8	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
322.8	323.11	COAL UNDIFF., black; fresh, weak, CRA
323.11	324.39	SANDSTONE 70%, fine grained, dark grey, abundant coal, banded; intermixed with COAL 30%, dark grey black, occasional coal, banded stringers of coal; fresh, strong, CRA
324.39	324.59	COAL UNDIFF., black; fresh, weak, CRA
324.59	324.71	SANDSTONE, fine grained, grey; fresh, moderately strong, CRA
324.71	325.55	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
325.55	325.84	SANDSTONE, grey; fresh, moderately strong, CRA
325.84	326.06	COAL UNDIFF., black; fresh, weak, CRA

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From	То	Description
326.06	326.36	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
326.36	326.53	COAL UNDIFF., black; fresh, weak, CRA
326.53	331	SANDSTONE 90%, fine grained, grey light grey, possibly tuffaceous moderately sorted; intermixed with COAL UNDIFF. 10%, dark grey black, coal,banded silty in part; fresh, moderately strong, CRA
331	334	SILTSTONE 60%, dark grey brown, abundant coal, banded rare coaly; intermixed with SANDSTONE 40%, fine grained, grey, lithic moderately sorted possibly tuffaceous; fresh, strong, carbonaceous fragments, CRA
334.35	334.65	COAL UNDIFF., black; fresh, weak, CRA
334.65	336.38	SANDSTONE 90%, fine grained, dark grey, S sandy lithic occasional micaceous; intermixed with COAL UNDIFF. 10%, dark grey black, mainly dull, frequent bright bands(>10%) coal,banded in part; fresh, strong, carbonaceous fragments, CRA
336.38	336.68	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
336.68	340	SANDSTONE 80%, fine grained, dark grey, lithic; with COAL UNDIFF. 20%, fine grained, black, dull, tends to stony; fresh, strong, CRA
340	346	SANDSTONE 90%, fine grained, dark grey, lithic micaceous; intermixed with COAL UNDIFF. 10%, black, mainly dull, frequent bright bands(>10%); fresh, strong, carbonaceous fragments, CRA
346	349	SANDSTONE 80%, fine grained, dark grey, lithic micaceous; intermixed with COAL UNDIFF. 20%, black, W dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
349	353.14	SANDSTONE 60%, fine grained, dark grey, S lithic micaceous tuffaceous in part; intermixed with COAL 40%, black, dull, minor bright bands(>1%); fresh, H, carbonaceous fragments, CRA
353.14	353.37	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
353.37	353.52	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
353.52	353.77	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
353.77	357.81	SANDSTONE, grey; fresh, moderately strong, CRA
357.81	358.09	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
358.09	361	SANDSTONE 80%, fine grained, dark grey, lithic; intermixed with COAL 20%, black, mainly dull, frequent bright bands(>10%); fresh, strong, CRA
361	364	SANDSTONE 90%, fine grained, light grey, lithic micaceous; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, strong, secondary calcite, CRA
364	367	SANDSTONE 90%, fine grained, light grey, lithic; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, secondary calcite, CRA
367	370	SANDSTONE, fine-medium grained, light grey, lithic coaly silty low sphericity, very angular; fresh, strong, secondary calcite, CRA
370	376	SANDSTONE 80%, fine-medium grained, light grey, lithic rare coal, banded; intermixed with SILTSTONE 20%, dark grey; fresh, strong, secondary calcite, CRA
376	379	SANDSTONE, fine-medium grained, light grey, lithic; fresh, strong, secondary calcite, CRA
379	382	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, very strong, secondary calcite, CRA

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From	То	Description
382	384.48	SANDSTONE 80%, fine-medium grained, light grey, lithic rare coal,banded; intermixed with SILTSTONE 20%, dark grey; fresh, very strong, secondary calcite, CRA
384.48	384.67	COAL UNDIFF., black; fresh, weak, CRA
384.67	384.77	SANDSTONE, grey; fresh, moderately strong, CRA
384.77	385.01	COAL UNDIFF., black; fresh, weak, CRA
385.01	385.25	SANDSTONE, light grey, lithic; fresh, moderately strong, CRA
385.25	385.53	COAL UNDIFF., black; fresh, weak, CRA
385.53	386.62	SANDSTONE 80%, fine-medium grained, light grey, lithic rare silty low sphericity, very angular; intermixed with COAL UNDIFF. 20%, black, dull, minor bright bands(>1%); fresh, very strong, CRA
386.62	388.18	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
388.18	392.52	SANDSTONE 80%, fine-medium grained, dark grey, lithic; with COAL UNDIFF. 20%, black, dull, minor bright bands(>1%); fresh, strong, CRA
392.52	392.81	COAL UNDIFF., black, dull, minor bright bands(>1%); fresh, weak, CRA
392.81	393.12	SANDSTONE, fine-medium grained, grey, lithic; fresh, moderately strong, CRA
393.12	393.82	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
393.82	397	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
397	400	SANDSTONE 90%, fine-medium grained, light grey, lithic rare silty low sphericity, very angular; intermixed with COAL 10%, black, dull(<1% bright); fresh, strong, carbonaceous fragments, secondary calcite, CRA
400	403	SANDSTONE 90%, fine-medium grained, light grey, lithic tuffaceous in part; intermixed with COAL 10%, black, dull(<1% bright); fresh, strong, CRA
403	409	SANDSTONE 60%, fine-medium grained, light grey, lithic occasional coal,banded; intermixed with SILTSTONE 40%, dark grey; fresh, strong, carbonaceous fragments, secondary calcite, CRA
409	412	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, dull(<1% bright); fresh, strong, carbonaceous wisps, CRA
412	415	SANDSTONE 60%, fine-medium grained, light grey, lithic rare coal, banded; intermixed with SILTSTONE 40%, dark grey; fresh, strong, carbonaceous wisps, secondary calcite, CRA
415	419.24	SANDSTONE 70%, fine-medium grained, dark grey, coal, banded dull(<1% bright) lithic; intermixed with SILTSTONE 30%, dark grey; fresh, strong, secondary calcite, CRA
419.24	420.26	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
420.26	420.45	SANDSTONE, light grey; fresh, moderately strong, CRA
420.45	420.75	COAL UNDIFF., black; fresh, weak, CRA
420.75	421.02	SILTSTONE 40%, dark grey; fresh, moderately strong, CRA
421.02	421.45	COAL UNDIFF., black, dull, minor bright bands(>1%); fresh, weak, CRA

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421.45	427.74	SANDSTONE 80%, fine-medium grained, light grey, lithic silty low sphericity, very angular throughout; intermixed with COAL 20%, black, dull(<1% bright) tuffaceous in part; fresh, strong, CRA
427.74	428.01	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
428.01	431.82	SANDSTONE 80%, fine-medium grained, light grey, lithic tuffaceous in part; intermixed with COAL 20%, black, dull(<1% bright); fresh, WM, CRA
431.82	431.86	COAL UNDIFF., black; fresh, CRA
431.86	433	SILTSTONE 90%, dark grey; with COAL 10%, black, minor high sphericity, well-rounded; fresh, moderately strong, CRA
433	439	SANDSTONE, fine-medium grained, grey, lithic silty coaly high sphericity, well-rounded; fresh, moderately strong, CRA
439	448	SANDSTONE, fine grained, grey, lithic lithic-quartz rare coaly; fresh, moderately strong, CRA
448	453.34	SANDSTONE, fine-medium grained, grey, lithic lithic-quartz coaly high sphericity, well-rounded; fresh, moderately strong, CRA
453.34	453.55	COAL UNDIFF., black; fresh, weak, CRA
453.55	453.9	SANDSTONE, fine-medium grained, grey, lithic; fresh, moderately strong, CRA
453.9	454.02	COAL UNDIFF., GBL; fresh, weak, CRA
454.02	454.35	SANDSTONE, fine-medium grained, grey, lithic; fresh, moderately strong, CRA
454.35	454.81	COAL UNDIFF., black; fresh, weak, CRA
454.81	456.26	SILTSTONE 90%, grey, sandy high sphericity, well-rounded throughout; with COAL 10%, black, high sphericity, well-rounded; fresh, moderately strong, CRA
456.26	456.9	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
456.9	457.03	SANDSTONE, grey; fresh, moderately strong, CRA
457.03	457.27	COAL UNDIFF., black; fresh, weak, CRA
457.27	458.93	SANDSTONE 55%, fine grained, grey, lithic coaly high sphericity, well-rounded throughout; with SILTSTONE 45%, grey, coaly high sphericity, well-rounded throughout; fresh, moderately strong, CRA
458.93	459.14	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
459.14	459.31	SANDSTONE, grey, lithic; fresh, moderately strong, CRA
459.31	459.76	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
459.76	463	CARBONACEOUS SILTSTONE, dark grey, sandy in part coaly in part; fresh, moderately strong, CRA
463	466	SANDSTONE, fine grained, grey, lithic minor silty minor coaly; fresh, moderately strong, CRA
466	473.88	SANDSTONE, fine-medium grained, grey, lithic coaly high sphericity, well-rounded; fresh, moderately strong, CRA
473.88	473.98	COAL UNDIFF., black; fresh, weak, CRA
473.98	474.2	SILTSTONE, dark grey; fresh, moderately strong, CRA
474.2	474.32	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA

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From	То	Description
474.32	474.6	SILTSTONE, dark grey; fresh, moderately strong, CRA
474.6	475.02	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
475.02	477.26	SILTSTONE 60%, dark grey, sandy throughout; intermixed with SANDSTONE 40%, fine-medium grained, grey, silty high sphericity, well-rounded throughout; fresh, moderately strong, CRA
477.26	477.92	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
477.92	478.17	SANDSTONE, dark grey; fresh, strong, CRA
478.17	478.31	COAL UNDIFF., black; fresh, weak, CRA
478.31	478.68	SANDSTONE, dark grey; fresh, strong, CRA
478.68	478.74	COAL UNDIFF., black; fresh, weak, CRA
478.74	479.17	SANDSTONE, light grey; fresh, moderately strong, CRA
479.17	479.23	COAL UNDIFF., black; fresh, weak, CRA
479.23	480.03	SILTSTONE 70%, dark grey, sandy throughout; with COAL 30%, black, sandy throughout; fresh, moderately strong, CRA
480.03	480.68	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
480.68	481.73	SILTSTONE 70%, dark grey, sandy throughout; with COAL 30%, black, sandy throughout; fresh, moderately strong, CRA
481.73	481.89	COAL UNDIFF., black; fresh, weak, CRA
481.89	489.11	SILTSTONE, dark grey, sandy; fresh, moderately strong, CRA
489.11	489.78	COAL, black, dull, minor bright bands(>1%) occasional; fresh, weak, CRA
489.78	490.15	SANDSTONE, dark grey; fresh, moderately strong, CRA
490.15	490.79	COAL, black, dull, minor bright bands(>1%) occasional; fresh, weak, CRA
490.79	491.34	CARBONACEOUS SILTSTONE 50%, black, silty high sphericity, well-rounded throughout; with SANDSTONE 50%, fine grained, grey, minor coaly lithic; fresh, moderately strong, CRA
491.34	491.47	COAL UNDIFF., black; fresh, weak, CRA
491.47	493.05	CARBONACEOUS SILTSTONE 60%, black, silty high sphericity, well-rounded throughout; with SANDSTONE 40%, fine grained, grey, minor coaly lithic; fresh, moderately strong, CRA
493.05	493.16	COAL UNDIFF., black; fresh, weak, CRA
493.16	496	CARBONACEOUS SILTSTONE 50%, black, silty high sphericity, well-rounded throughout; with SANDSTONE 50%, fine grained, grey, minor coaly lithic; fresh, moderately strong, CRA
496	499	SANDSTONE, fine grained, grey, coaly high sphericity, well-rounded silty high sphericity, well-rounded; fresh, moderately strong, CRA
499	505	SANDSTONE, fine grained, grey, lithic minor silty; fresh, moderately strong, CRA
505	508	SANDSTONE, fine grained, grey, lithic coaly high sphericity, well-rounded minor silty; fresh, moderately strong, CRA

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From	То	Description
508	523	SANDSTONE, fine grained, grey, lithic lithic-quartz silty in part; fresh, moderately strong, CRA
523	526	SANDSTONE, fine grained, grey, lithic minor silty minor coaly; fresh, moderately strong, CRA
526	531.85	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
531.85	532.12	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
532.12	532.36	SANDSTONE, fine grained, grey; fresh, moderately strong, CRA
532.36	533.42	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
533.42	533.53	SANDSTONE, fine grained, grey; fresh, moderately strong, CRA
533.53	534.13	COAL, black, dull, minor bright bands(>1%) in part; fresh, weak, CRA
534.13	535.1	SANDSTONE, fine grained, grey, lithic; fresh, moderately strong, CRA
535.1	535.7	COAL, black in part dull, minor bright bands(>1%); fresh, weak, CRA
535.7	536.42	SANDSTONE, fine grained, grey, lithic minor coaly coaly high sphericity, well-rounded; fresh, moderately strong, CRA
536.42	536.65	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
536.65	537.15	SANDSTONE 70%, fine grained, grey, lithic minor coaly coaly high sphericity, well-rounded; with COAL UNDIFF. 30%, black; fresh, moderately strong, CRA
537.15	537.44	COAL UNDIFF., black; fresh, weak, CRA
537.44	539.55	SANDSTONE 70%, fine grained, grey, lithic; with COAL UNDIFF. 30%, black; fresh, moderately strong, CRA
539.55	539.9	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
539.9	541.22	SANDSTONE 70%, fine grained, grey, lithic; with COAL 30%, black; fresh, moderately strong, CRA
541.22	542.04	COAL, black, occasional dull, minor bright bands(>1%); fresh, weak, CRA
542.04	544	SANDSTONE 70%, fine grained, grey, lithic minor coaly high sphericity, well-rounded; with SILTSTONE 30%, dark grey, sandy in part; fresh, moderately strong, CRA
544	547	SANDSTONE 70%, grey, lithic minor coaly laminations; with CARBONACEOUS SILTSTONE 30%, brownish black, sandy in part; fresh, moderately strong, CRA
547	550	SANDSTONE, fine grained, grey, lithic minor coaly high sphericity, well-rounded; fresh, moderately strong, CRA
550	557.7	SANDSTONE, fine grained, grey, rare coaly high sphericity, well-rounded minor silty; fresh, moderately strong, CRA
557.7	557.86	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
557.86	564.24	SANDSTONE, fine grained, grey, silty high sphericity, well-rounded coaly high sphericity, well-rounded; fresh, moderately strong, CRA
564.24	564.4	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
564.4	571	SANDSTONE, fine grained, grey, silty in part rare coaly; fresh, moderately strong, CRA
571	574	SANDSTONE, fine grained, light grey, occasional coal, banded; fresh, moderately strong, carbonaceous fragments, CRA

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From	То	Description
574	577	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, dull(<1% bright); fresh, strong, carbonaceous fragments, CRA
577	584.64	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with SILTSTONE 30%, dark grey, occasional coal,banded; fresh, strong, secondary calcite, CRA
584.64	584.75	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
584.75	588.82	SANDSTONE 60%, fine-medium grained, light grey, lithic carbonaceous in part; intermixed with SILTSTONE 40%, dark grey; fresh, strong, CRA
588.82	589.73	COAL, black in part dull, minor bright bands(>1%); fresh, weak, CRA
589.73	592	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with SILTSTONE 30%, dark grey, rare coal, banded; fresh, strong, CRA
592	595	SANDSTONE, fine grained, light grey, lithic occasional coal, banded silty; fresh, moderately strong, secondary calcite, CRA
595	598	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, moderately strong, carbonaceous fragments, CRA
598	601.14	SANDSTONE, fine-medium grained, light grey, lithic rare coal, banded silty; fresh, strong, carbonaceous wisps, CRA
601.14	601.26	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
601.26	601.93	SANDSTONE, fine-medium grained, grey, lithic; fresh, moderately strong, CRA
601.93	602.11	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
602.11	611.54	SANDSTONE 80%, fine-medium grained, light grey, lithic rare coal, banded; intermixed with SILTSTONE 20%, dark grey; fresh, strong, CRA
611.54	612.39	COAL, black, occasional; fresh, weak, CRA
612.39	612.92	SANDSTONE, fine-medium grained, grey, lithic; fresh, moderately strong, CRA
612.92	613.21	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
613.21	613.33	SANDSTONE, fine grained, light grey, lithic; fresh, moderately strong, CRA
613.33	617.84	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
617.84	617.95	SANDSTONE, fine grained, light grey, lithic; fresh, moderately strong, CRA
617.95	618.36	COAL, black, dull, minor bright bands(>1%); fresh, weak, CRA
618.36	618.49	SANDSTONE, light grey; fresh, moderately strong, CRA
618.49	618.74	COAL UNDIFF., black, dull, tends to stony; fresh, weak, CRA
618.74	618.76	CARBONACEOUS SILTSTONE, brown; fresh, CRA
618.76	620.49	COAL, black, occasional dull, minor bright bands(>1%); fresh, weak, CRA
620.49	620.99	SANDSTONE, fine grained, light grey, lithic; fresh, moderately strong, CRA
620.99	621.17	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
621.17	621.26	SANDSTONE, light grey; fresh, CRA

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From	То	Description
621.26	621.42	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
621.42	621.56	SANDSTONE, CRA
621.56	625.68	COAL, black, mainly dull, frequent bright bands(>10%); fresh, weak, CRA
625.68	628	SANDSTONE 80%, fine-medium grained, light grey; intermixed with COAL 20%, black, dull, minor bright bands(>1%); fresh, strong, CRA
628	631	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, CRA
631	634	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, strong, carbonaceous fragments, secondary calcite, CRA
634	640	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
640	643	SANDSTONE, fine-medium grained, light grey, lithic rare coal, banded; fresh, strong, carbonaceous fragments, secondary calcite, CRA
643	645.11	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous wisps, CRA
645.11	645.37	COAL UNDIFF., black, dull(<1% bright); fresh, weak, CRA
645.37	645.98	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, strong, carbonaceous wisps, CRA
645.98	652	COAL 90%, black, dull, minor bright bands(>1%); intermixed with SANDSTONE 10%, fine-medium grained, light grey; fresh, weak, CRA
652	655	COAL 70%, black, mainly dull, frequent bright bands(>10%); intermixed with SANDSTONE 30%, fine-medium grained, light grey; fresh, weak, CRA
655	658	COAL 60%, black, dull, minor bright bands(>1%); intermixed with SANDSTONE 40%, fine grained, light grey; fresh, weak, Secondary Pyrite, CRA
658	661	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh, strong, CRA
661	664	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
664	667	SANDSTONE, light grey, lithic micaceous; fresh, strong, carbonaceous fragments, CRA
667	670	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull(<1% bright); fresh, strong, CRA
670	673	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, strong, secondary calcite, CRA
673	676	COAL 60%, black, mainly dull, frequent bright bands(>10%); intermixed with SANDSTONE 40%, fine-medium grained, dark grey; fresh, weak, CRA
676	682	SANDSTONE, fine-medium grained, light grey, lithic A coal,banded; fresh, strong, CRA
682	685	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, mainly dull, frequent bright bands(>10%); fresh, strong, CRA
685	688	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
688	691	SANDSTONE, fine-medium grained, light grey, lithic rare coal, banded mainly dull, frequent bright bands(>10%); fresh, strong, Secondary Pyrite, CRA

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From	То	Description
691	694	SANDSTONE 80%, fine-medium grained, light grey, lithic; intermixed with COAL 20%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
694	700	SANDSTONE, fine-medium grained, light grey, rare coal, banded dull(<1% bright); fresh, strong, CRA
700	703	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
703	712	SANDSTONE 80%, fine-medium grained, light grey, lithic; intermixed with COAL 20%, black, mainly dull, frequent bright bands(>10%); fresh, strong, CRA
712	718	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, strong, carbonaceous fragments, CRA
718	721	SANDSTONE, fine-medium grained, light grey, lithic silty low sphericity, very angular in part; fresh, strong, carbonaceous fragments, CRA
721	727	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, strong, carbonaceous fragments, CRA
727	730	SANDSTONE 90%, fine-medium grained, dark grey, shaly in part; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, strong, AVO
730	736	SANDSTONE 70%, fine-medium grained, dark grey, shaly in part; intermixed with COAL 30%, black, mainly dull, frequent bright bands(>10%); fresh, strong, AVO
736	739	SANDSTONE, fine-medium grained, light grey, lithic coal,banded; fresh, strong, AVO
739	742	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, mainly dull, frequent bright bands(>10%); fresh, strong, AVO
742	745	SANDSTONE, fine-medium grained, light grey, lithic rare coal, banded; fresh, strong, carbonaceous fragments, AVO
745	748	SANDSTONE, fine grained, light grey, rare coal, banded; fresh, moderately strong, AVO
748	751	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh, moderately strong, AVO
751	757	SANDSTONE, fine-medium grained, light grey, occasional coal,banded; fresh, moderately strong, AVO
757	766	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh, moderately strong, AVO
766	769	SANDSTONE 60%, fine-medium grained, light grey; with COAL 40%, black; fresh, LI, AVO
769	772	SANDSTONE 80%, fine-medium grained, light grey, lithic; with COAL 20%, black, dull, minor bright bands(>1%); fresh, strong, AVO
772	775	SANDSTONE, fine-medium grained, light grey, lithic occasional coal, banded; fresh, moderately strong, AVO
775	778	SANDSTONE, fine grained, grey, lithic silty coaly high sphericity, well-rounded; fresh, moderately strong, AVO
778	781	SANDSTONE 75%, fine-medium grained, light grey, lithic lithic-quartz; with COAL 25%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
781	784	SANDSTONE 55%, fine-medium grained, grey, lithic lithic-quartz; with COAL 45%, black; fresh, moderately strong, AVO
784	787	COAL 55%, black; with SANDSTONE 45%, fine-medium grained, grey, lithic; fresh, weak, AVO
787	793	COALY SHALE 50%, black, shaly high sphericity, well-rounded; with SANDSTONE 50%, fine-medium grained, grey, lithic; fresh, weak, AVO

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From	То	Description
793	796	SANDSTONE, fine grained, grey, high sphericity, well-rounded silty high sphericity, well-rounded throughout; fresh, SH, AVO
796	799	SANDSTONE 75%, fine-medium grained, grey, lithic; with COALY SHALE 25%, black; fresh, moderately strong, AVO
799	811	COALY SHALE 60%, black; with SANDSTONE 40%, fine grained, grey, lithic; fresh, weak, AVO
811	814	SANDSTONE 75%, fine grained, grey, lithic; with COALY SHALE 25%, black; fresh, moderately strong, AVO
814	817	SANDSTONE 55%, fine grained, grey, lithic; with COALY SHALE 45%, black; fresh, moderately strong, AVO
817	820	COALY SHALE 55%, black, high sphericity, well-rounded; with SANDSTONE 45%, fine grained, grey, lithic; fresh, weak, AVO
820	823	SANDSTONE 70%, fine grained, grey, lithic; with COALY SHALE 30%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
823	826	SANDSTONE, fine grained, grey, lithic shaly high sphericity, well-rounded throughout; fresh, moderately strong, AVO
826	829	SANDSTONE 55%, fine grained, grey, lithic; with COALY SHALE 45%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
829	832	SANDSTONE, fine grained, grey, shaly high sphericity, well-rounded in part; fresh, moderately strong, AVO
832	838	SILTSTONE 60%, dark grey, sandy throughout; with COALY SHALE 40%, black, sandy throughout; fresh, AB, AVO
838	841	SANDSTONE 75%, fine-medium grained, light grey, lithic lithic-quartz; with COALY SHALE 25%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
841	844	SANDSTONE, very fine-fine grained, grey, lithic lithic-quartz shaly high sphericity, well-rounded; fresh, moderately strong, AVO
844	850	SANDSTONE 50%, fine grained, grey, lithic; with COALY SHALE 50%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
850	853	SANDSTONE 80%, fine-medium grained, grey, MS high sphericity, well-rounded lithic; with COALY SHALE 20%, black; fresh, moderately strong, AVO
853	856	SANDSTONE 85%, very fine-fine grained, grey, lithic lithic-quartz; with COALY SHALE 15%, black, minor high sphericity, well-rounded; fresh, moderately strong, AVO
856	862	SANDSTONE, very fine-fine grained, grey, lithic shaly high sphericity, well-rounded MS high sphericity, well-rounded; fresh, moderately strong, AVO
862	868	SANDSTONE, very fine-fine grained, light grey, lithic lithic-quartz shaly high sphericity, well-rounded; fresh, moderately strong, AVO
868	871	SANDSTONE 55%, fine grained, grey, silty in part; with COALY SHALE 45%, black; fresh, moderately strong, AVO
871	874	COALY SHALE 60%, black; with SANDSTONE 40%, fine grained, grey; fresh, MW, AVO
874	877	COALY SHALE 70%, black, high sphericity, well-rounded; with SANDSTONE 30%, fine grained, grey, lithic; fresh, MW, AVO
877	880	SANDSTONE 85%, fine grained, grey, lithic; with COALY SHALE 15%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
880	886	SANDSTONE 65%, fine grained, grey, lithic; with COALY SHALE 35%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
886	892	SANDSTONE 75%, fine grained, grey, lithic; with COALY SHALE 25%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
892	898	SANDSTONE, fine grained, grey, lithic shaly high sphericity, well-rounded muddy; fresh, moderately strong, AVO
898	904	SANDSTONE 85%, fine grained, grey, lithic MS high sphericity, well-rounded; with COALY SHALE 15%, black; fresh, moderately strong, AVO
904	910	SANDSTONE 80%, fine grained, grey, lithic; with COALY SHALE 20%, black, high sphericity, well-rounded; fresh, moderately strong, AVO

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From	То	Description
910	913	SANDSTONE 90%, fine grained, light grey, MS in part; intermixed with COALY SHALE 10%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
913	919	SANDSTONE 80%, fine grained, light grey, lithic MS in part; intermixed with COALY SHALE 20%, black, high sphericity, well-rounded; fresh, moderately strong, AVO
919	922	SANDSTONE 80%, fine grained, light grey, lithic occasional coal, banded; with COALY SHALE 20%, black; fresh, moderately strong, AVO
922	925	SANDSTONE 70%, fine grained, light grey, lithic coal, banded; with COALY SHALE 30%, dark grey, high sphericity, well-rounded; fresh, moderately strong, AVO
925	928	SANDSTONE 90%, fine grained, light grey, lithic; with COALY SHALE 10%, dark grey, high sphericity, well-rounded; fresh, moderately strong, AVO
928	931	SANDSTONE, fine grained, light grey, lithic rare shaly coal, banded; fresh, moderately strong, AVO
931	934	SANDSTONE 50%, fine grained, grey; intermixed with COALY SHALE 50%, dark grey; fresh, moderately strong, AVO
934	937	COAL 80%, black, mainly dull, frequent bright bands(>10%); intermixed with SANDSTONE 20%, fine grained, grey, shaly in part; fresh, weak, AVO
937	946	COALY SHALE 70%, dark grey, lithic; intermixed with SANDSTONE 30%, fine-medium grained, brownish grey, quartz veined in part lithic; fresh, WM, AVO
946	949	SANDSTONE, fine-medium grained, light grey, rare coal, banded lithic; fresh, strong, AVO
949	952	SANDSTONE, fine-medium grained, dark grey, lithic occasional coal, banded shaly; fresh, strong, AVO
952	958	SANDSTONE 60%, fine-medium grained, light grey; intermixed with CARBONACEOUS SILTSTONE 40%, dark grey; fresh, strong, AVO
958	961	CARBONACEOUS SILTSTONE 70%, dark grey, coal,banded dull, minor bright bands(>1%) throughout; intermixed with SANDSTONE 30%, fine-medium grained, light grey; fresh, M, AVO
961	964	CARBONACEOUS SILTSTONE 60%, dark grey, sandy throughout; intermixed with COAL 40%, black, mainly dull, frequent bright bands(>10%); fresh, moderately strong, AVO
964	967	CARBONACEOUS SILTSTONE 70%, dark grey, coal, banded mainly dull, frequent bright bands(>10%) throughout; intermixed with SANDSTONE 30%, fine-medium grained, light grey; fresh, M, AVO
967	970	SANDSTONE, fine grained, light grey, lithic occasional coal, banded mainly dull, frequent bright bands(>10%); fresh, moderately strong, AVO
970	973	SANDSTONE 90%, fine-medium grained, light grey, lithic; intermixed with COAL 10%, black, mainly dull, frequent bright bands(>10%); fresh, strong, AVO
973	976	SANDSTONE, fine grained, light grey; fresh, strong, AVO
976	979	SANDSTONE 90%, light grey, lithic; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh, strong, AVO
979	985	SANDSTONE, fine grained, light grey, rare coal, banded; fresh, moderately strong, AVO
985	988	SANDSTONE, fine grained, light grey; fresh, moderately strong, AVO
988	991	SANDSTONE, fine grained, light grey, occasional coal,banded; fresh, moderately strong, AVO
991	997	SANDSTONE 80%, fine grained, light grey; intermixed with COAL 20%, black, dull, minor bright bands(>1%); fresh, moderately strong, AVO
997	1003	SANDSTONE 70%, fine grained, light grey; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh, moderately strong, AVO

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From	То	Description	
1003	1009	SANDSTONE, fine grained, dark grey, carbonaceous in part occasional coal, banded; fresh, moderately strong, AVO	

SANDSTONE, fine grained, grey, shaly high sphericity, well-rounded throughout lithic; fresh, moderately strong, AVO

End of Hole Waukivory 14

1015

1009

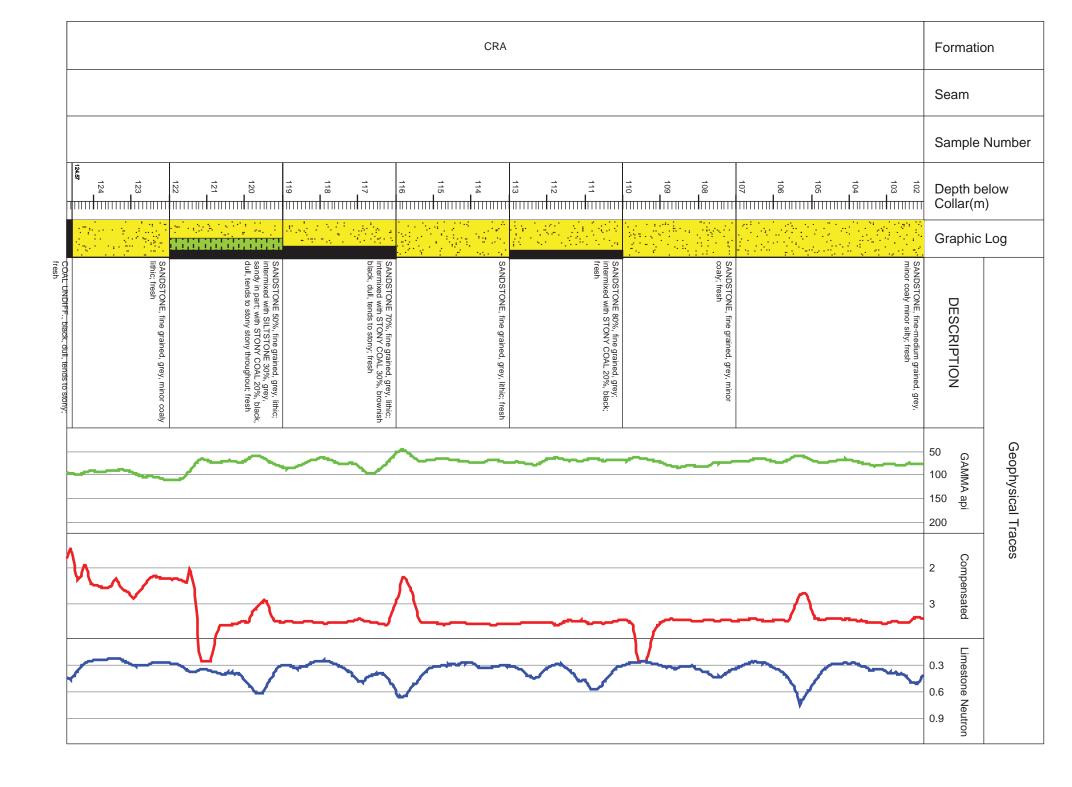
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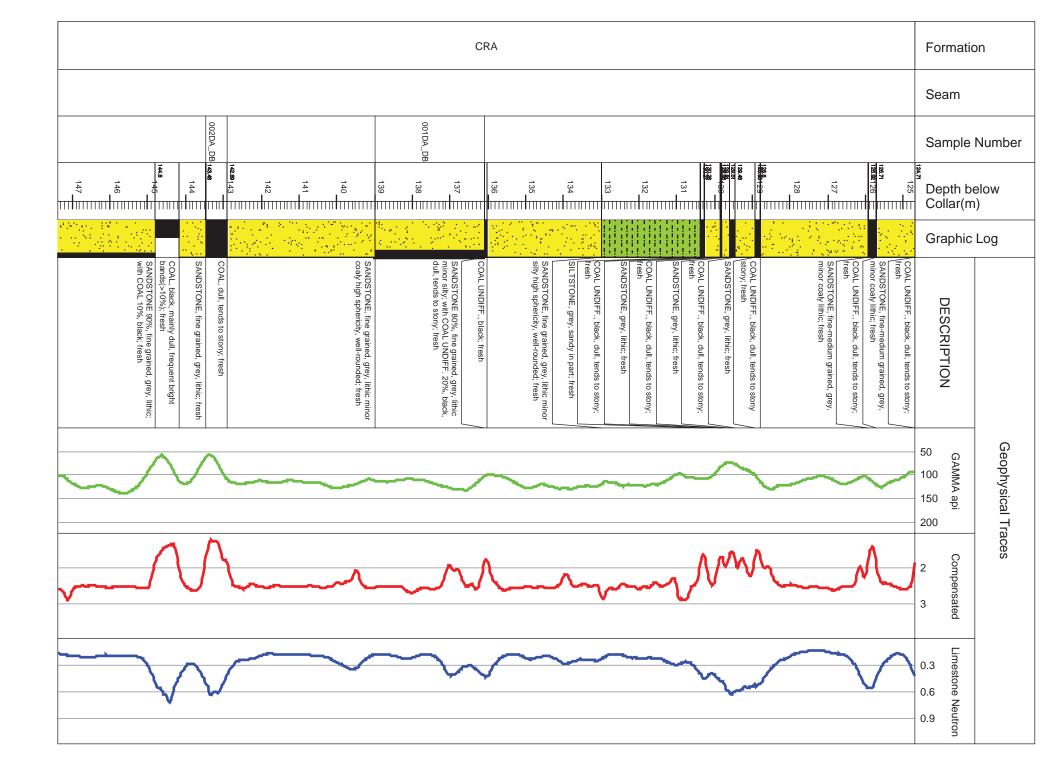
Borehole Number: Waukivory 14

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SANDSTONE, fine grained, grey, coaly high sphericity, well-rounded minor sity; fresh		SILTSTONE, grey; fresh			SANDSTONE, very fine grained, grey dark grey, coaly high sphericity, well-rounded minor silty; fresh			SANDSTONE, very fine grained, grey dark grey, lithic lithic-quartz; fresh			SANDSTONE 60%, fine grained, grey, lithic; intermixed with SILTSTONE 40%, grey, high sphericity, well-rounded; fresh						SANDSTONE, fine-medium grained, grey, abundant silty high sphericity, well-rounded lithic; fresh		minor silty minor muddy; fresh	SANDSTONE fine-medium grained grav	SILTSTONE, grey, minor sandy high	DESCRIPTION		
					<u> </u>												<u></u>	ئىر			1	60 GAMMA api 50 900		Geophysical Traces
																~~~					2	npens		ces
_/		-			\	_												~			o	Limestone Neutron		

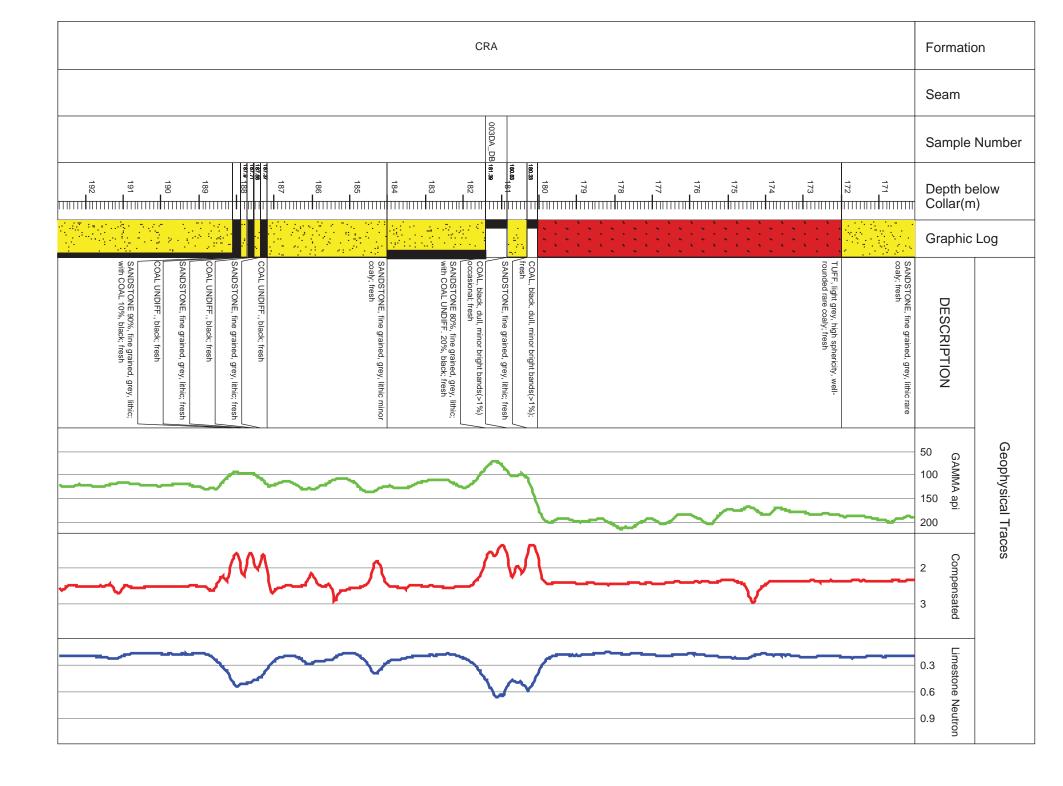
CRA									For	Formation					
													Sea	ım	
													Sar	nple N	lumber
79 18	 	7 8 3	75	74 73	72	2	 	8 67 68 	65 5	63 	8 2 8 	55 58 57	Dep Col	oth be lar(m)	low
			100 g 100 g 100 g		9 - Y									phic L	_og
	SANDSTONE, fine grained, grey, minor carbonaceous minor silty, fresh		SANDSTONE 90%, fine grained, grey, abundant tuffaceous; with STONY COAL 10%, black, dull, tends to stony; fresh	Tourises, iresti	TUFF 60%, cream, coaly high sphericity, well-rounded; intermixed with SANDSTONE 40%, fine grained, grey, coaly high sphericity, well-		SANDSTONE, fine grained, grey, lithic minor silty high sphericity, well-rounded; fresh	rounded; intermixed with SANDSTONE 45%, fine grained, grey, lithic; fresh	CII TOTONE 559, grov birb orboticity well.	SANDSTONE 65%, fine-medium grained, grey, lithic; intermixed with SILTSTONE 35%, grey, high sphericity, well-rounded; fresh	sphericity, well-rounded; fresh	SANDSTONE, fine grained, grey, coaly high sphericity, well-rounded minor sitty; fresh shericity, well-rounded minor sitty; fresh sphericity, well-rounded	UT WC KIT I ON		
			~										50 100 150 200 2	GAMMA api Compensated I	Geophysical Traces
					~~				-				0.3	Limestone Neutron	

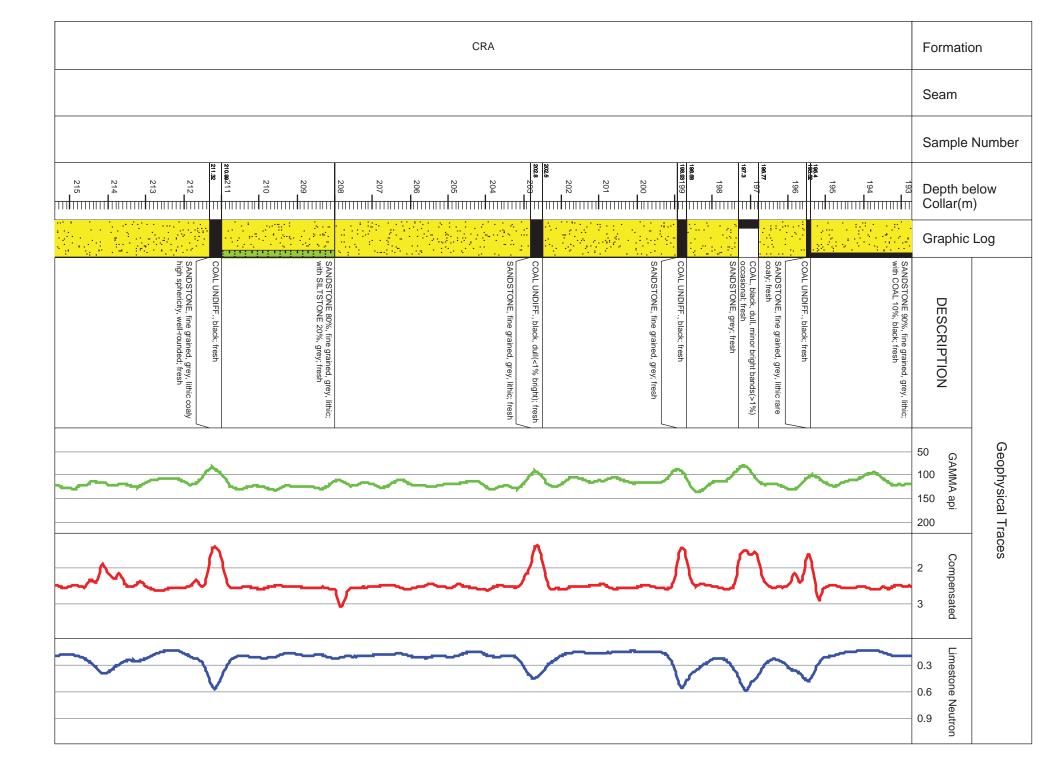
		CRA				Formatio	n
						Seam	
						Sample I	Number
102 101 99 98 97	8 8 2 3 2	2 8 g	88 87	8 8 4 8 8 		Depth be Collar(m)	elow)
						Graphic	Log
SANDSTONE, fine-medium grained, grey, minor coaly minor sity, fresh	SANDSTONE, fine-medium grained, grey, minor coaly high sphericity, well-rounded lithic; fresh SANDSTONE 90%, fine-medium grained, grey, lithic minor silty high sphericity, well-rounded; intermixed with STONY COAL 10%, black dull tends to stony fresh	SILTSTONE 60%, dark grey, abundant coally high sphericity, well-rounded; intermixed with SANDSTONE 40%, fine grained, grey, abundant coaly high sphericity, well-rounded; fresh	SILTSTONE 50%, grey, high sphericity, well-rounded; intermixed with SANDSTONE 50%, fine grained, grey, lithic; fresh		SANDSTONE, fine grained, grey, minor carbonaceous minor silty; fresh	DESCRIPTION	
						50 GAMMA api 150 200 Compensated Limestone Neutron 0.3 0.6 0.9 University of the compensated	Geophysical Traces



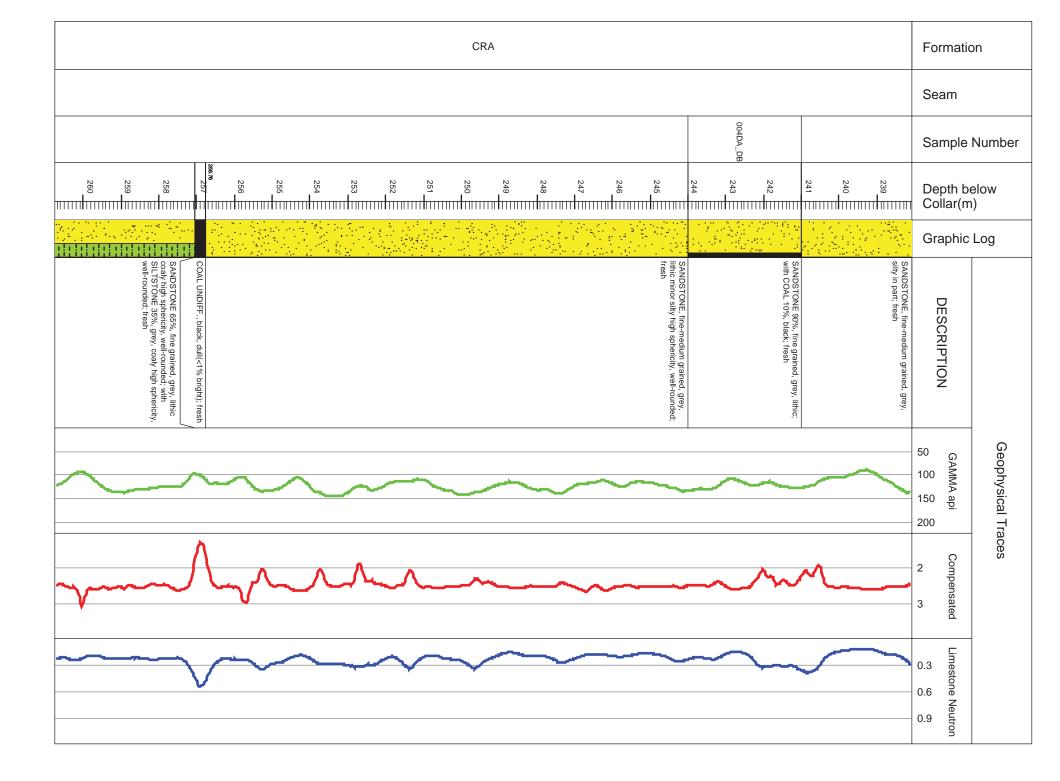


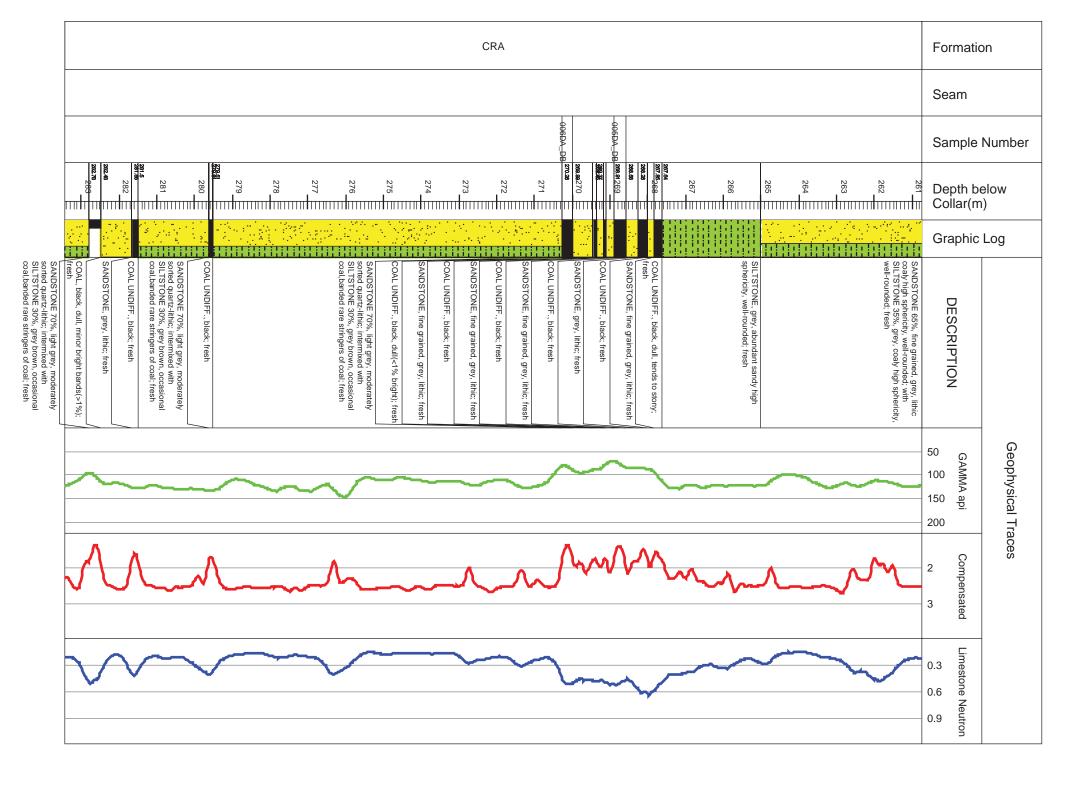
	CRA	Formation	l
		Seam	
		Sample N	umber
170	168 167 168 169	Depth belo	OW
	The Grant Court of the Court of	Graphic Lo	og
SANDSTONE, fine grained, grey, lithic rare coaly; fresh	SANDSTONE, fine grained, grey, lithic; with COAL 10%, black; fresh SANDSTONE, fine grained, grey, lithic minor coaly; fresh COAL UNDIFF., black, dull(<1% bright); fresh COAL UNDIFF., black, dull(<1% bright); fresh SANDSTONE 65%, fine grained, grey, lithic minor coaly high sphericity, well-rounded; with SILTSTONE 35%, grey, minor coaly high sphericity, well-rounded; well-rounded; fresh SANDSTONE, fine grained, grey, lithic lithic coaly high sphericity, well-rounded; well-rounded; fresh SANDSTONE, fine grained, grey, lithic lithic coaly high sphericity, well-rounded; fresh SANDSTONE, fine grained, grey, lithic lithic-quartz; fresh COAL UNDIFF., black; fresh COAL UNDIFF., black; fresh COAL UNDIFF., black; fresh COAL UNDIFF., black; fresh	DESCRIPTION	
		50 GAMMA 100 MMA 150 ap 200	Geophysical Traces
•		Compensated 3	SS
		0.3 Limestone Neutron 0.9	

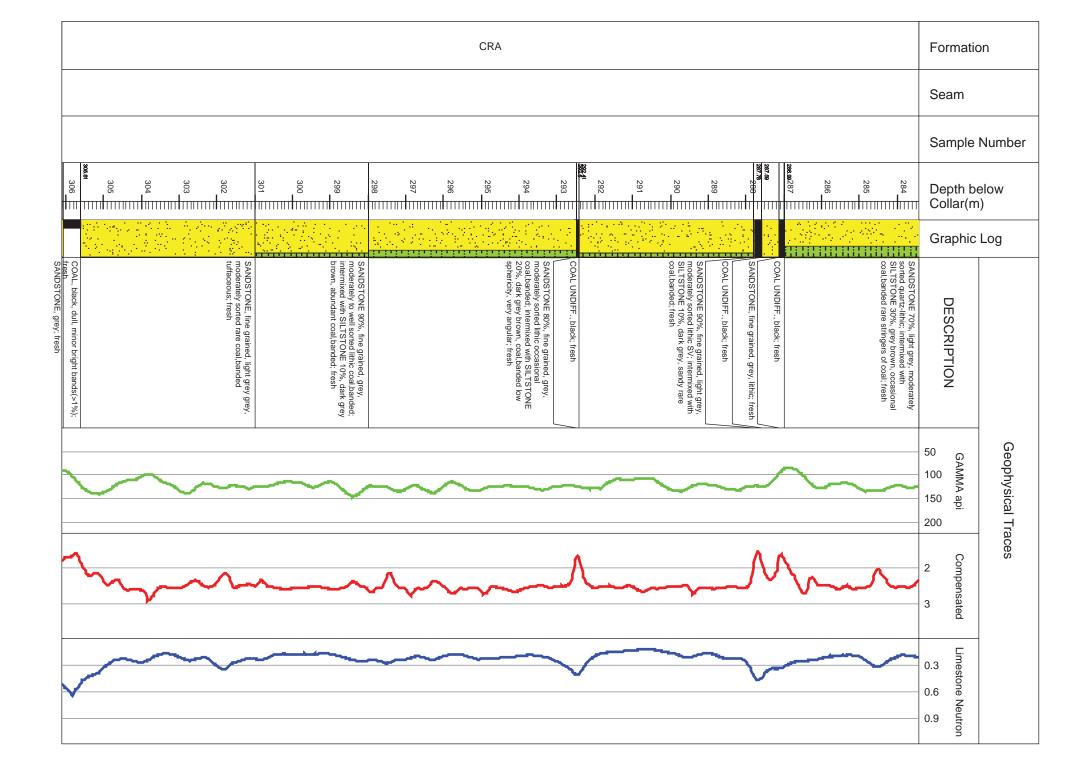


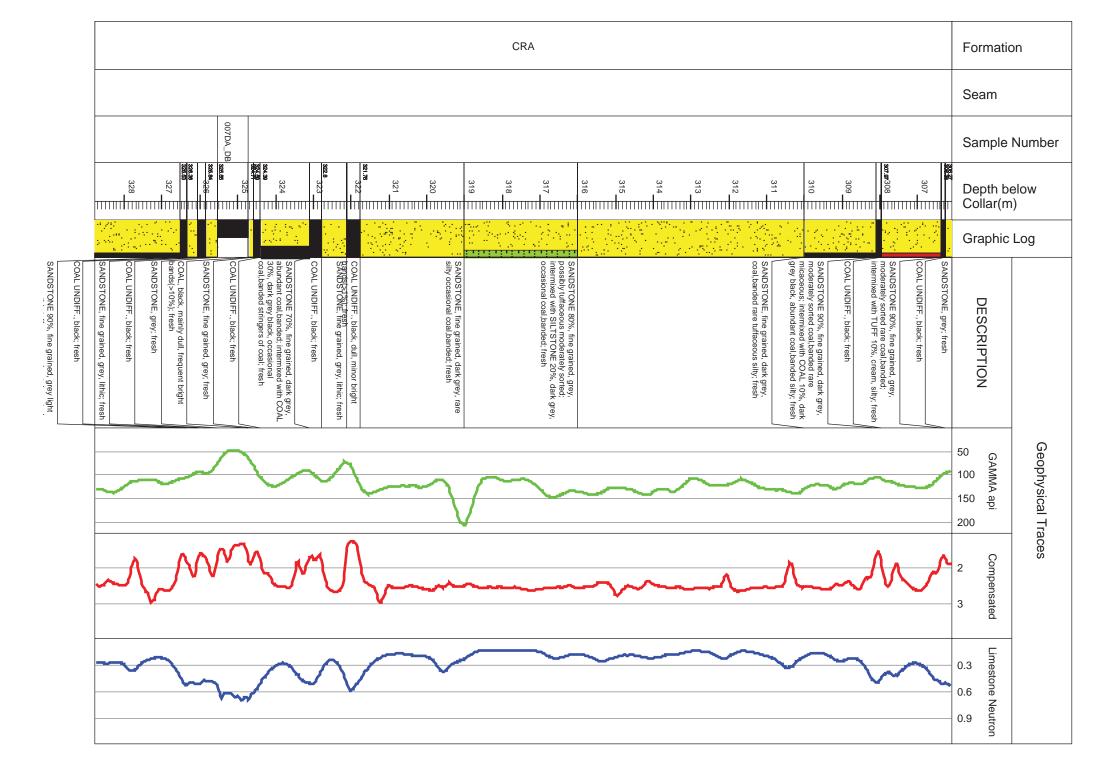


	CRA	Formation
		Seam
		Sample Number
_	216.600.216 217 218 218 219 220 220 220 221 223 233 233 233 233 233 233 233 233	Depth below Collar(m)
		Graphic Log
SANDSTONE, fine-medium grained, grey, silty in part; fresh	SANDSTONE, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh SILTSTONE 60%, grey, coaly high sphericity, well-rounded; with SANDSTONE 40%, fine grained, grey, lithic coaly high sphericity, well-rounded; with SANDSTONE 40%, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh SANDSTONE 55%, fine grained, grey, lithic silly in part; with COAL 5%, black; fresh SANDSTONE 65%, fine grained, grey, lithic coaly high sphericity, well-rounded; fresh SANDSTONE 65%, fine grained, grey, lithic soaly high sphericity, well-rounded; fresh SANDSTONE, fine grained, grey, lithic minor silly high sphericity, well-rounded; fresh SANDSTONE, fine grained, grey, lithic minor silly high sphericity, well-rounded; fresh	DESCRIPTION
-		Geophysical Traces GAMMA api 150 200 C
	1	Compensated
		0.3 Limestone Neutron 0.6 0.9







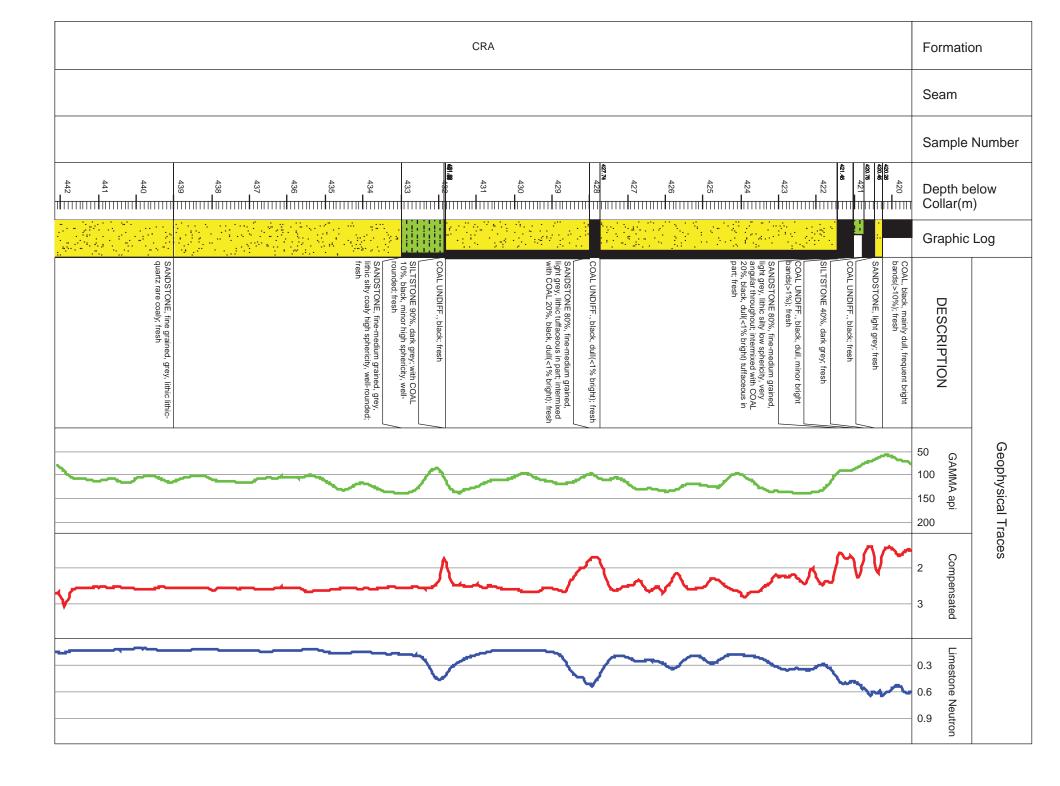


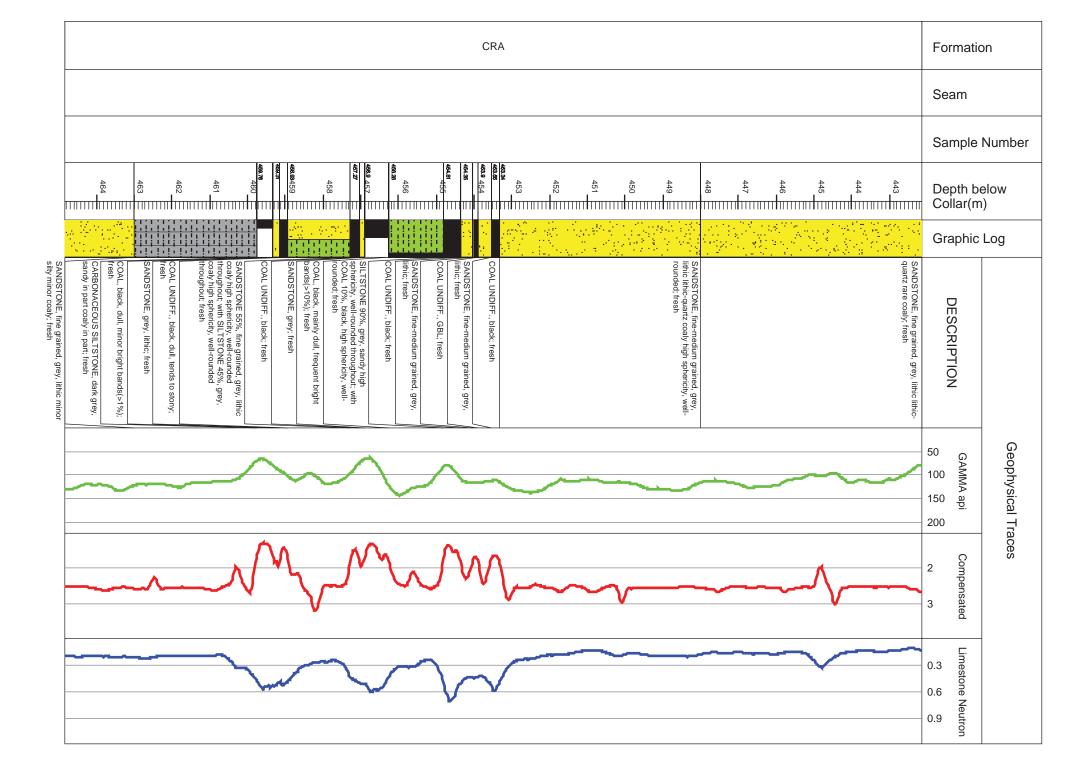
CRA								
	Seam							
	Sample Number							
351 360 345 345 345 345 345 345 345 345 345 345	Depth below Collar(m)							
	Graphic Log							
SANDSTONE 90%, fine grained, dark grey, ithic micaceous, intermixed with COAL UNDIFF. 10%, dark grey black, coal,banded silty in part; fresh grey black, coal,banded silty in part; fresh coal,banded rare coaly; intermixed with SANDSTONE 40%, fine grained, grey, ithic moderately sorted possibly tuffaceous; intermixed with COAL UNDIFF. 10%, dark grey black, with COAL UNDIFF. 10%, dark grey black, coal,banded in part; fresh coal,banded in part; fresh grained, dark grey, lithic micaceous; intermixed with COAL UNDIFF. 20%, fine grained, dark grey, lithic micaceous; intermixed with COAL UNDIFF. 10%, black, mainly dull, frequent bright bands(-10%); fresh shads(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL UNDIFF. 10%, black, mainly dull, frequent bright bands(-10%); fresh shads(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL UNDIFF. 10%, black, dull, minor bright bands(-10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiff. 10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiff. 10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiff. 10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiff. 10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiff. 10%); fresh bands(-10%); fresh grained, dark grey, lithic micaceous tuffaceous in part; intermixed with COAL undiffer.	DESCRIPTION							
	Geophysical Traces GAMMA api 150 200 C							
	Ces Compensated							
	Limestone Neutron							

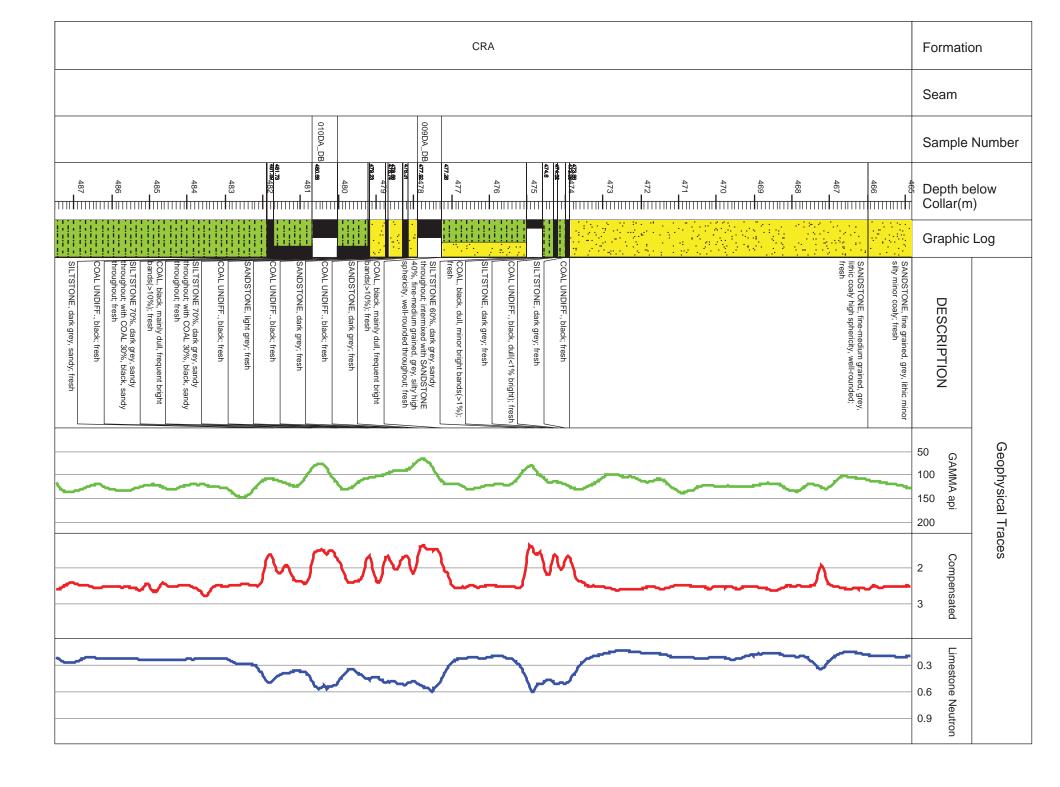
CRA					
		008DA_DB	S	Sample Number	
368 370 370 371 372 373 374 374 374 374 374 374 374 374 374	36 36 36 36	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mmmhmm C	Depth below Collar(m)	
				Graphic Log	
SANDSTONE, fine-medium grained, light grey, lithic coaly silty low sphencity, very angular; fresh SANDSTONE 80%, fine-medium grained, light grey, lithic rare coal, banded; intermixed with SILTSTONE 20%, dark grey; fresh	SANDSTONE 90%, fine grained, light grey, lithic micaceous; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh slack, dull, minor bright bands (>1%); fresh lithic; intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh	COAL UNDIFF., black, dull, tends to story; fresh SANDSTONE, fine grained, grey, lithic; fresh COAL UNDIFF., black, dull, tends to story; fresh SANDSTONE, grey; fresh COAL UNDIFF., black, dull(<1% bright); fresh SANDSTONE 80%, fine grained, dark grey, lithic; intermixed with COAL 20%, black, mainly dull, frequent bright bands(>10%); fresh fresh	SANDSTONE 60%, fine grained, dark grey, S lithic micaceous tuffaceous in part; intermixed with COAL 40%, black, dull, minor bright bands(>1%); fresh	DESCRIPTION	
			50 10 15 20 2 3 0.3 0.6 0.6	eophysical Traces BAMMA api Compensated Limestone Ne	

CRA				
	Sample Number	er		
375 376 377 377 377 377 377 377 377 377 377	Depth below Collar(m)			
	Graphic Log			
SANDSTONE 80%, fine-medium grained, light grey, lithic rare coal,banded; intermixed with SILTSTONE 20%, dark grey; fresh SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; intermixed with SILTSTONE 20%, dark grey; fresh SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; intermixed with SILTSTONE 20%, dark grey; fresh SANDSTONE, grey; fresh COAL UNDIFF., black; fresh SANDSTONE, light grey, lithic; fresh COAL, black, duli, minor bright bands(>1%); fresh COAL, black, duli, minor bright bands(>1%); fresh SANDSTONE, fine-medium grained, grey, lithic; with COAL UNDIFF. 20%, black, duli, minor bright bands(>1%); fresh COAL, black, duli, minor bright bands(>1%); fresh SANDSTONE, fine-medium grained, grey, lithic; fresh COAL, black, duli, minor bright bands(>1%); fresh SANDSTONE, fine-medium grained, grey, lithic; fresh COAL, black, duli, minor bright bands(>1%); fresh SANDSTONE, fine-medium grained, grey, lithic; fresh COAL, black, duli, minor bright bands(>1%); fresh SANDSTONE 70%; fine-medium grained, grey, lithic; fresh SANDSTONE 70%, fine-medium grained, grey, lithic; intermixed with COAL 30%, black, duli, minor bright bands(>1%); fresh SANDSTONE 70%; fine-medium grained, grey, lithic; intermixed with COAL 30%, black, duli, minor bright bands(>1%); fresh	DESCRIPTION			
	Geophysical Traces GAMMA api Compensated 2 3			
	Limestone Neutron			

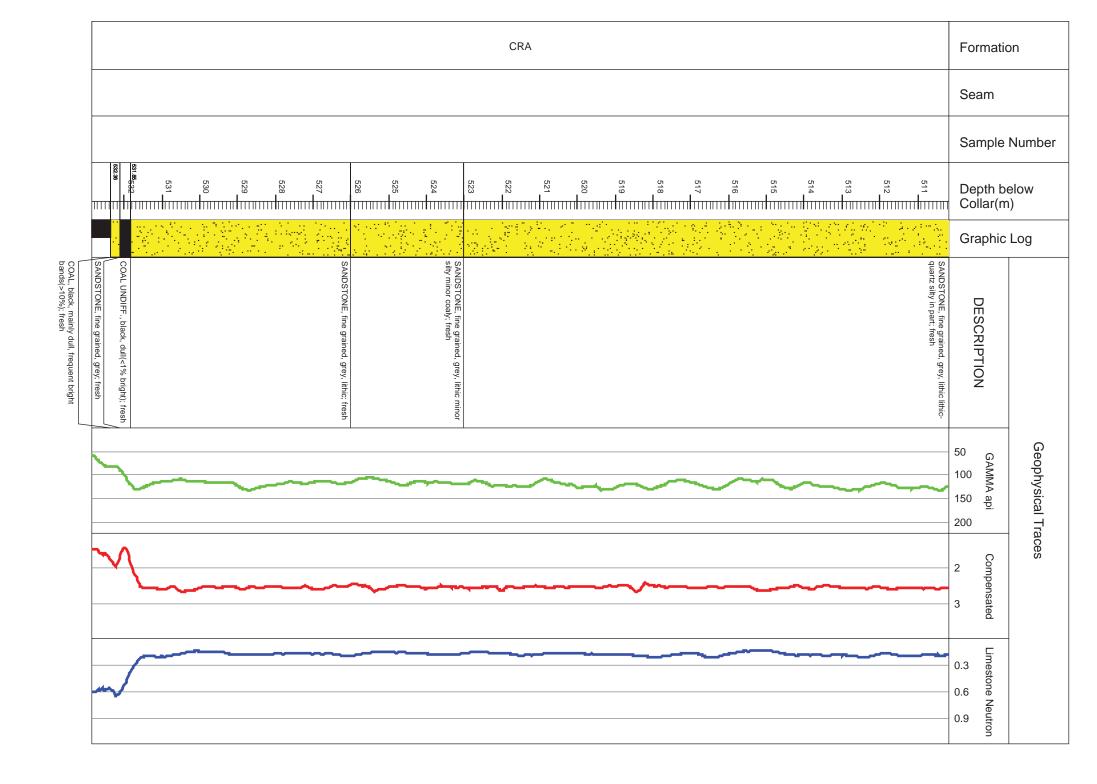
	CRA					
T		40 40 39 38	Depth b	elow		
			Graphic	Log		
bands(>10%); fresh	SANDSTONE 60%, fine-medium grained, light grey, lithic occasional coal banded; intermixed with SILTSTONE 40%, dark grey; fresh SANDSTONE 90%, fine-medium grained, light grey, lithic rare coal banded; intermixed with SILTSTONE 40%, dark grey; fresh SANDSTONE 60%, fine-medium grained, black, dult(<1% bright); fresh SANDSTONE 70%, fine-medium grained, dark grey, coal, banded dult(<1% bright) lithic; intermixed with SILTSTONE 30%, dark grey; fresh SANDSTONE 70%, fine-medium grained, dark grey, coal, banded dult(<1% bright) lithic; intermixed with SILTSTONE 30%, dark grey; fresh COAL_black, mainly dull, frequent bright bands(>10%); fresh	ISANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh SANDSTONE 90%, fine-medium grained, light grey, lithic rare silty low sphericity, very angular; intermixed with COAL 10%, black, dull(<1% bright); fresh SANDSTONE 90%, fine-medium grained, light grey, lithic tuffaceous in part; intermixed with COAL 10%, black, dull(<1% bright); fresh SANDSTONE 90%, fine-medium grained, light grey, lithic tuffaceous in part; intermixed with COAL 10%, black, dull(<1% bright); fresh	DESCRIPTION			
-			50 GAMMA api 150 api 200	Geophysical Traces		
-	M	~~~~	Compensated 2 3	S		
			Limestone Neutron 0. 0. 9 0. 0.			

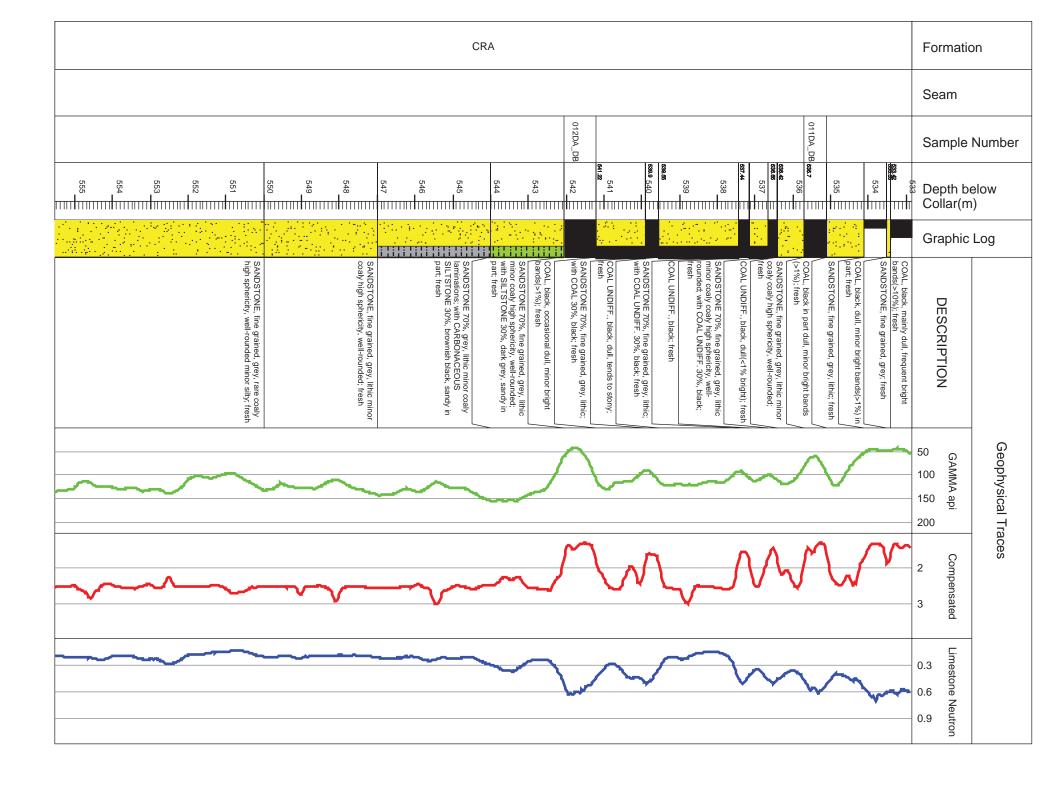


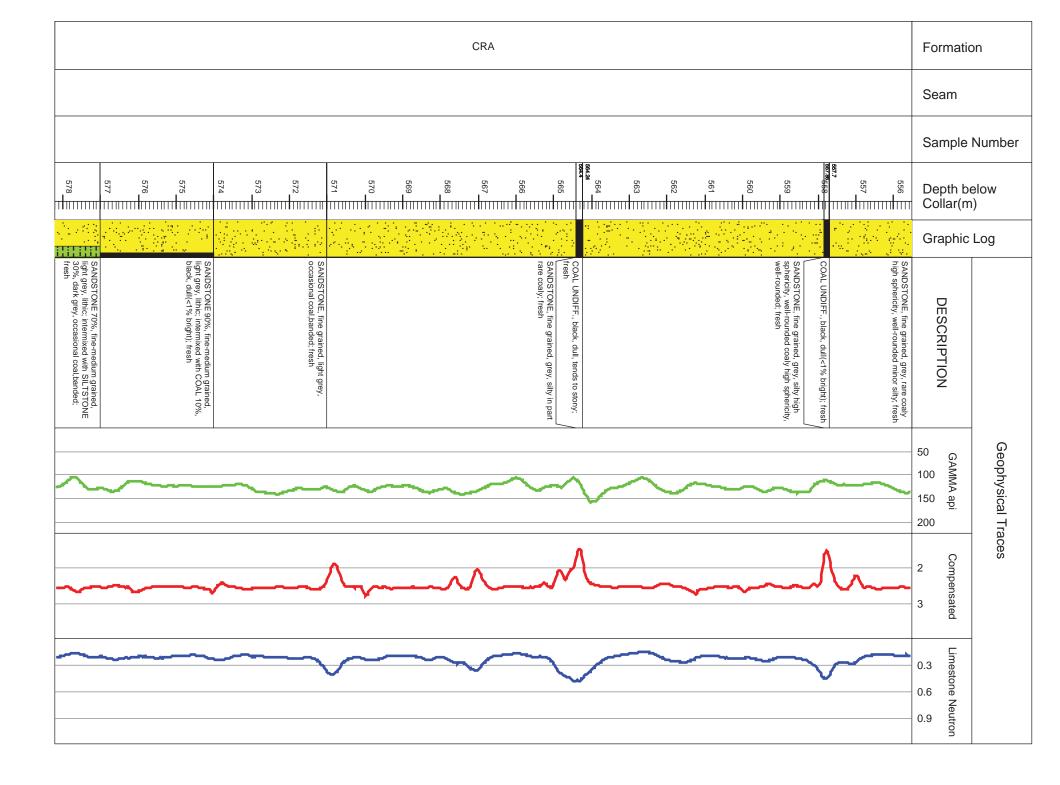


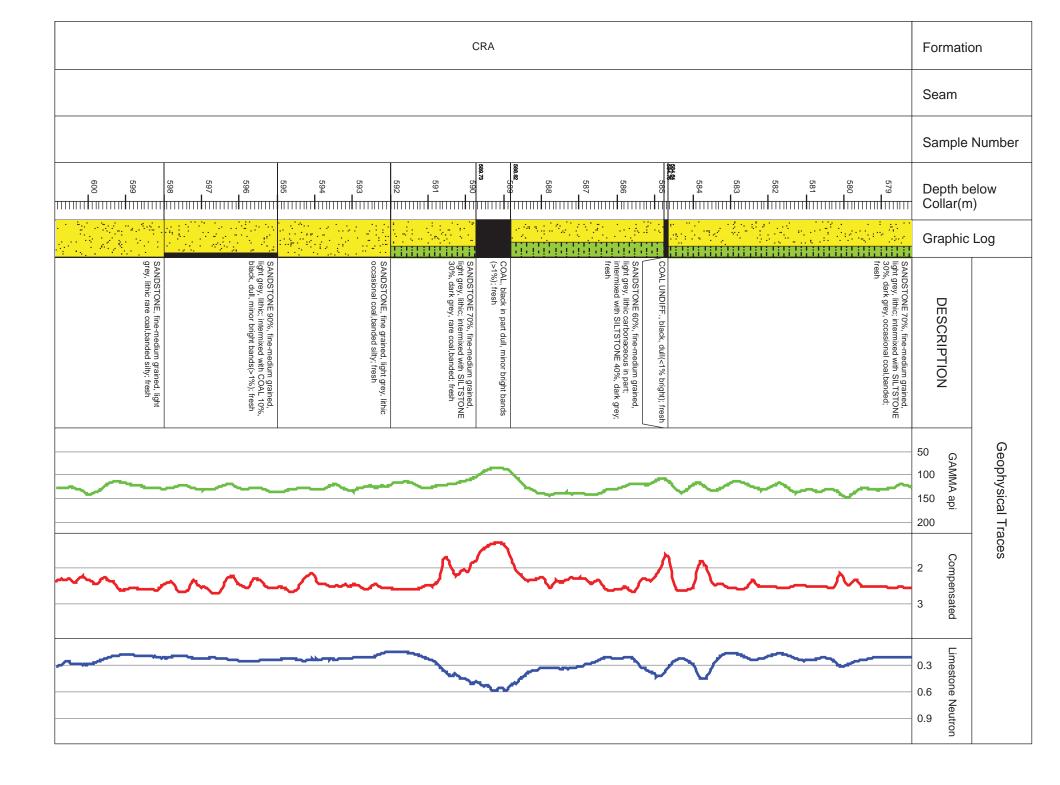


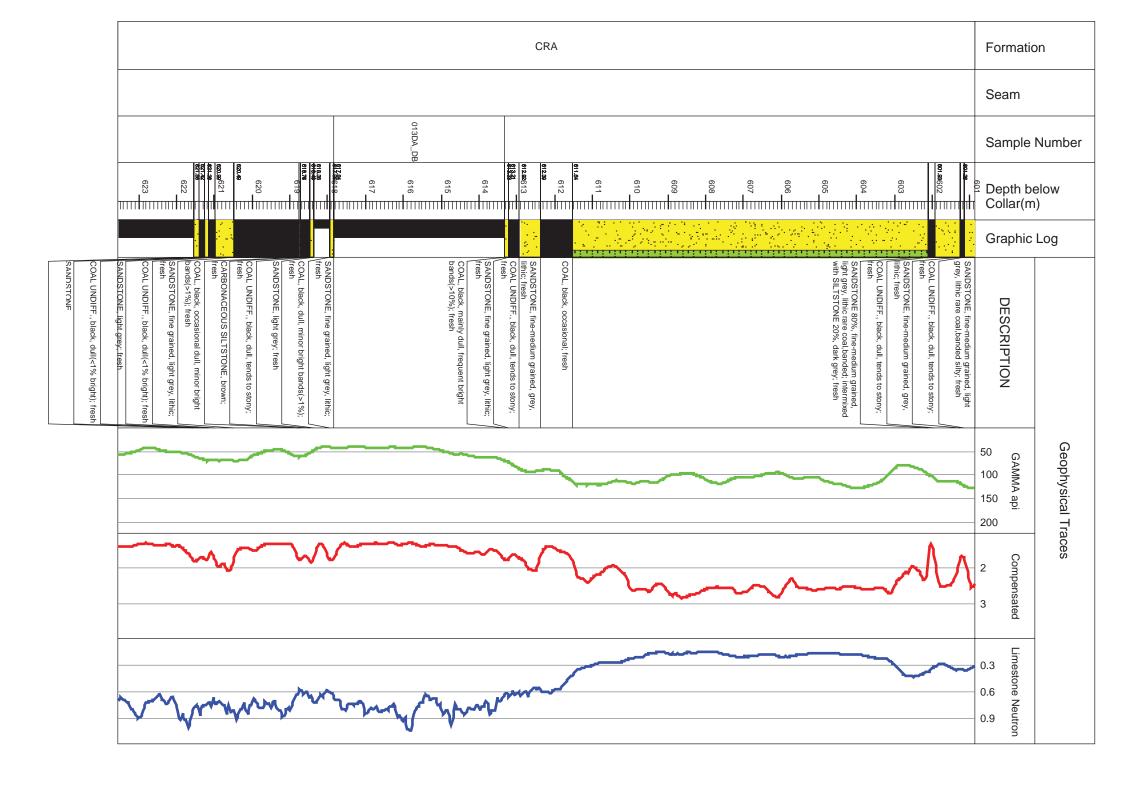
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											Seam		
												Sample	Number
510 509	508	55 54 53	50 51 TIII HIII HIII	50	498 497	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	494	493	491		489	Depth be Collar(m	elow ı)
								17.					Log
SANDSTONE, fine grained, grey, lithic lithic- quartz sity in part; fresh	SANDSTONE, fine grained, grey, lithic coaly high sphericity, well-rounded minor silty; fresh			SANDSTONE, fine grained, grey, lithic minor sity; fresh	SANDSTONE, fine grained, grey, coaly high sphericity, well-rounded silty high sphericity, well-rounded; fresh	CARBONACEOUS SILTSTONE 50%, black, slity high sphericity, well-rounded throughout; with SANDSTONE 50%, fine grained, grey, minor coaly lithic; fresh	suly nigh sphericity, well-rounded throughout; with SANDSTONE 40%, fine grained, grey, minor coaly lithic; fresh COAL UNDIFF., black; fresh	COAL UNDIFF., black; fresh CARBONACEOUS SILTSTONE 60%, black,	CARBONACEOUS SILTSTONE 50%, black, sily high sphericity, well-rounded throughout; with SANDSTONE 50%, fine grained, grey, minor coaly lithic; fresh	occasional; fresh SANDSTONE, dark grey; fresh COAL, black, dull, minor bright bands(>1%) occasional; fresh	SILTSTONE, dark grey, sandy, fresh COAL, black, dull, minor bright bands(>1%)	DESCRIPTION	
				~				\	~ 	~~		GAMMA api Compensated Limestone Neutron 0.3 0.6 0.9	Geophysical Traces

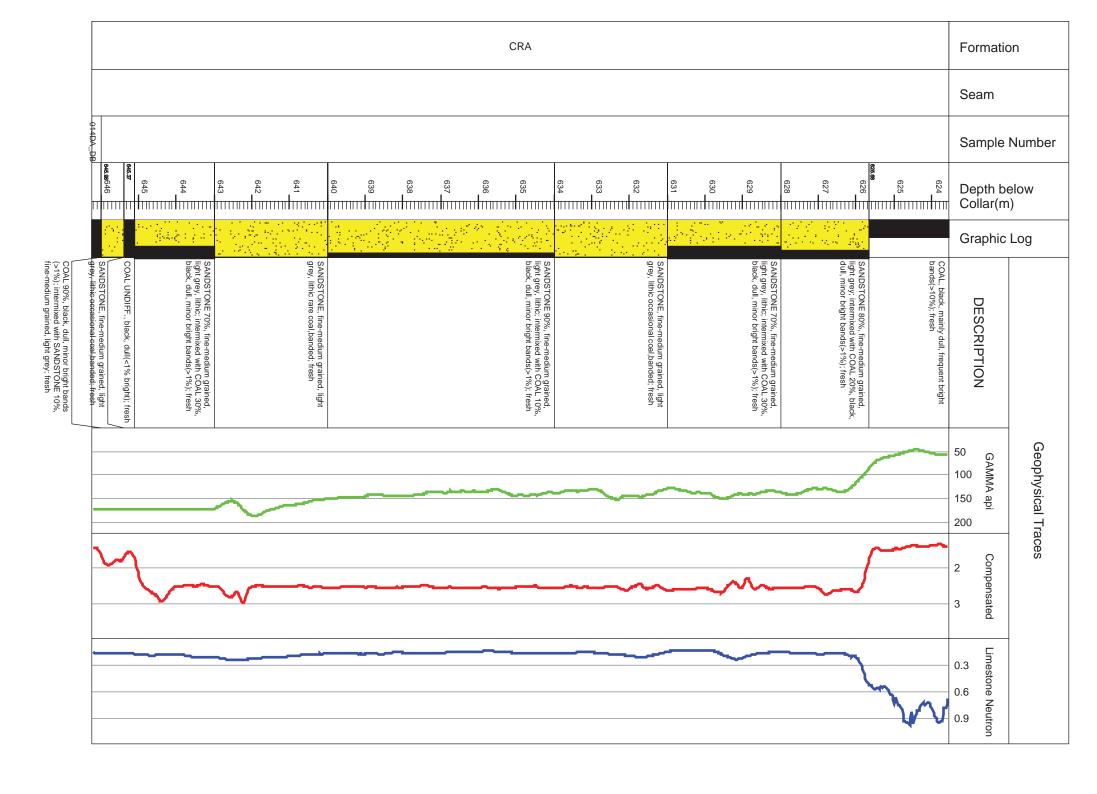












	CRA								
							Seam		
						014DA_DB	Samp	le Number	
	666 666 667		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	858 856 	85 85 85 	647	Depth	below (m)	
							Graph	nic Log	
SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull(<1% bright); fresh		SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh	COAL 60%, black, dull, minor bright bands (>1%); intermixed with SANDSTONE 40%, fine grained, light grey; fresh	COAL 70%, black, mainly dull, frequent bright bands(>10%); intermixed with SANDSTONE 30%, fine-medium grained, light grey; fresh	(>1%); intermised with SANDSTONE 10%, fine-medium grained, light grey; fresh	DESCRIPTION		
							50 GAMMA ap. 150 ap. 200	Geophysical Traces	
							Compensated 2 3	ıces	
							0.3 Limestone Neutron		

CRA									Formation		n												
																					Seam		
																					Sample Numb		Number
ППП	691	% 		688	687	- 68 	685		682	 .	679	678	677	676	675	674	673	672	671	670	© De Co	oth be	elow)
: N	2			ļ			7-114: F-[11]-1													MAN INTERNATIONAL PROPERTY OF THE PROPERTY OF		aphic	Log
light grey, lithic; intermixed with COAL 20%, black, dull, minor bright bands(>1%); fresh	SANDSTONE 80% fine-medium grained		SANDSTONE, fine-medium grained, light grey, lithic rare coal, banded mainly dull, frequent bright bands(>10%); fresh			SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh		SANDS I CME 50%, internieuum grained, light grey, lithic; intermixed with COAL 10%, black, mainly dull, frequent bright bands (>10%); fresh	SANDSTONE 00% fits medium arrived				SANDSTONE, fine-medium grained, light grey, lithic A coal,banded; fresh			COAL 60%, black, mainly dull, frequent bright bands(>10%); intermixed with SANDSTONE 40%, fine-medium grained, dark grey; fresh			SANDSTONE, tine-medium grained, light grey, lithic occasional coal,banded; fresh	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull(<1% bright); fresh		DECORDEDION	
																					50 100 150 200	GAMMA api	Geophysical Traces
																					3	Compensated	ces
																					0.3	Limestone Neutron	

CRA								
	Seam							
	Sample Number							
692 693 701 702 703 703 704 705 706 707 708 709 709 709 709 711	Depth below Collar(m)							
	Graphic Log							
SANDSTONE, fine-medium grained, light grey, lithic; intermixed with COAL 20%, black, dull, minor bright bands(>1%); fresh SANDSTONE, fine-medium grained, light grey, rare coal, banded dull(<1% bright); fresh light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh black, mainly dull, frequent bright bands (>10%); fresh light grey, lithic occasional coal, banded; fresh grey, lithic occasional coal, banded; fresh	DESCRIPTION							
	Geophysical Traces GAMMA api 200 C							
	Compensated							
	0.3 Limestone Neutron							

AVO	CRA	Formation	
		Seam	
		Sample Number	r
730 731 731 731 731 731 731 731 731 731 731	715	Depth below Collar(m)	
	。 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Graphic Log	
SANDSTONE 90%, fine-medium grained, dark grey, shaly in part; intermixed with COAL 10%, black, dull, minor bright bands (>1%); fresh SANDSTONE 70%, fine-medium grained, dark grey, shaly in part; intermixed with COAL 30%, black, mainly dull, frequent bright bands(>10%); fresh SANDSTONE, fine-medium grained, light grey, lithic coal, banded; fresh	SANDSTONE, fine-medium grained, light grey, lithic occasional coal.banded; fresh SANDSTONE, fine-medium grained, light grey, lithic silly low sphericity, very angular in part; fresh SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, dull, minor bright bands(>1%); fresh	DESCRIPTION	
		Geophysical Traces GAMMA api 200 C	
		Ces Compensated	
		Limestone Neutron	

AVO								ation
758	752	749		743	741	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	≅ Depth Collar	below (m)
							Graph	ic Log
SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh	SANDSTONE, fine-medium grained, light grey, occasional coal,banded; fresh	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh	SANDSTONE, fine grained, light grey, rare coal, banded: fresh	SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh	SANDSTONE 70%, fine-medium grained, light grey, lithic; intermixed with COAL 30%, black, mainly dull, frequent bright bands (>10%); fresh	SANDSTONE, fine-medium grained, light grey, lithic coal,banded; fresh	DESCRIPTION	
							50 GAMMA api 150 api 200	Geophysical Traces
							Compensated 2 3	ces
							0.3 Limestone Neutron 0.6 0.9	

AVO								Formatio	n
								Seam	
016DA_DB					015DA_DB			Sample N	Number
782	779	776	774 773	77 77	767	761 762 763 764	760	Depth be Collar(m)	elow
No report								Graphic I	Log
SANDSTONE 55%, fine-medium grained, grey, lithic lithic-quartz; with COAL 45%, black; fresh	SANDSTONE 75%, fine-medium grained, Iight grey, lithic lithic-quartz; with COAL 25%, black, high sphericity, well-rounded; fresh	coaly high sphericity, well-rounded; fresh		SANDSTONE 80%, fine-medium grained, SANDSTONE 80%, fine-medium grained, Ilight grey, Ithic; with COAL 20%, black, dull, minor bright bands(>1%); fresh	SANDSTONE 60%, fine-medium grained, light grey; with COAL 40%, black; fresh		SANDSTONE, fine-medium grained, light grey, lithic rare coal,banded; fresh	DESCRIPTION	
								50 GAMMA 100 MA api 150 api	Geophysical Traces
								Compensated	ces
								Limestone Neutron	

AVO								
016DA_DB	Sample Nur	mber						
804 803 800 800 799 795 794 793 799 799 788 788 786 785 783 11111111111111111111111111111111111	Depth below Collar(m)	N						
<mark>tigas kanakan k Banakan kanakan kanaka</mark>	Graphic Log	g						
SANDSTONE 55%, fine-medium grained, grey, lithic lithic-quartz; with COAL 45%, black; fresh COAL 55%, black; with SANDSTONE 45%, fine-medium grained, grey, lithic; fresh COALY SHALE 50%, black, shaly high sphericity, well-rounded; with SANDSTONE 50%, fine-medium grained, grey, lithic; fresh SANDSTONE, fine grained, grey, high sphericity, well-rounded throughout; fresh SANDSTONE 75%, fine-medium grained, grey, lithic; fresh COALY SHALE 60%, fine grained, grey, lithic; fresh COALY SHALE 60%, fine grained, grey, lithic; fresh	DESCRIPTION							
	50 GAMMA 100 MMA 150 ap 200	Geophysical Traces						
	Compensated 2	ICes						
	0.3 Limestone Neutron 0.9							

AVO						
		Seam				
		Sample N	Number			
	805	^ಔ Depth be Collar(m)	low			
		Graphic L	_og			
SANDSTONE 75%, fine grained, grey, lithic; with COALY SHALE 55%, black; fresh COALY SHALE 55%, black, high sphericity, well-rounded; with SANDSTONE 45%, black, high sphericity, well-rounded; fresh SANDSTONE, fine grained, grey, lithic; high sphericity, well-rounded throughout; fresh SANDSTONE, fine grained, grey, lithic shaly high sphericity, well-rounded; fresh SANDSTONE 55%, fine grained, grey, lithic shaly high sphericity, well-rounded; fresh	COALY SHALE 60%, black; with SANDSTONE 40%, fine grained, grey, lithic;	DESCRIPTION				
		50 GAMMA 100 MMA 150 ap. 200	Geophysical Traces			
		Compensated 3	ces			
		0.3 mestone Neutron				

	AVO								
		Seam							
		Depth be Collar(m)	elow						
- 10		Graphic	Log						
grey, MS high sphericity, well-rounded lithic; with COALY SHALE 20%, black; fresh	SANDSTONE 55%, fine grained, grey, lithic: with COALY SHALE 45%, black, high sphericity, well-rounded; fresh SANDSTONE, fine grained, grey, shaly high sphericity, well-rounded in part; fresh SANDSTONE 60%, dark grey, sandy throughout; with COALY SHALE 40%, black, sandy throughout; fresh SANDSTONE, very fine-fine grained, grey, lithic lithic-quartz shaly high sphericity, well-rounded; fresh SANDSTONE, very fine-fine grained, grey, lithic; with COALY SHALE 25%, black, high sphericity, well-rounded; fresh SANDSTONE 50%, fine-grained, grey, lithic; with COALY SHALE 50%, black, high sphericity, well-rounded; fresh	DESCRIPTION							
-		50 GAMMA 100 MMA 150 ap 200	Geophysical Traces						
-		Compensated	6						
-		0.3 Limestone Neutron 0.9							

AVO							
872 871 870 886 886 887 886 883 883 883 885 885 885 885 885 885 885	Depth belo	DW .					
	Graphic Lo	og					
SANDSTONE 80%, fine-medium grained, grey, Mish high sphericity, well-rounded lithic; with COALY SHALE 20%, black; fresh SANDSTONE 85%, very fine-fine grained, grey, lithic lithic-quartz: with COALY SHALE 15%, black, minor high sphericity, well-rounded; fresh SANDSTONE, very fine-fine grained, grey, silty in part; with COALY SHALE 45%, black; fresh SANDSTONE 55%, fine grained, grey, silty in part; with COALY SHALE 45%, black; with SANDSTONE 40%, fine grained, grey; fresh COALY SHALE 60%, black; with SANDSTONE 40%, fine grained, grey; fresh	DESCRIPTION						
	50 GAMMA api 150 api	Geophysical Traces					
	Compensated	ıces					
	Limestone Neutron 0. 0. 0. 0.						

AVO								
018DA_DB	Sample Number							
	[∞] Depth below Collar(m)							
	Graphic Log							
COALY SHALE 60%, black, high sphericity, well-rounded; with SANDSTONE 30%, fine grained, grey, lithic; with COALY SHALE 75%, fine grained, grey, lithic; with COALY SHALE 15%, black, high sphericity, well-rounded; fresh SANDSTONE 65%, fine grained, grey, lithic; with COALY SHALE 25%, black, high sphericity, well-rounded; fresh SANDSTONE 175%, fine grained, grey, lithic shaly high sphericity, well-rounded; fresh SANDSTONE 175%, fine grained, grey, lithic shaly high sphericity, well-rounded; fresh	DESCRIPTION							
	Geophysical Traces							
	Ces Compensated							
	Limestone Neutron							

AVO								
	Sample Number							
918 917 918 918 918 918 918 918 918 918 918 918	Depth below Collar(m)							
	Graphic Log							
SANDSTONE 85%, fine grained, grey, lithic shaly high sphericity, well-rounded muddy; fresh shall shall shericity, well-rounded; with COALY SHALE 15%, black; high sphericity, well-rounded; fresh sphericity, well-rounded; fresh shack, high sphericity, well-rounded; fresh shack, high sphericity, well-rounded; fresh shack, high sphericity, well-rounded; fresh sphericity, well-rounded	DESCRIPTION							
	Geophysical Traces 50 GAMMA api 150 200 C							
	Compensated							
	Limestone Neutron							

AVO	Formation	
	Seam	
019DA_DB	Sample Nu	umber
940 939 938 937 939 939 939 939 939 939 939 939 939	Depth belo Collar(m))W
	Graphic Lo	og
SANDSTONE 80%, fine grained, light grey, lithic coal, banded; fresh SANDSTONE 80%, fine grained, light grey, lithic cocasional coal, banded; with COALY SHALE 20%, black; fresh SANDSTONE 70%; fine grained, light grey, lithic coal, banded; with COALY SHALE 30%, dark grey, high sphericity, well-rounded; fresh SANDSTONE 90%, fine grained, light grey, lithic rare shaly coal, banded; fresh grey, shaly in part; fresh COAL 80%, black, mainly dull, frequent bright bands(-10%); intermixed with SANDSTONE 20%, fine grained, grey, shaly in part; fresh grey, fresh grey, lithic; intermixed with SANDSTONE 30%, dark grey, lithic; intermixed with SANDSTONE 30%, fine grained, grey, quartz veined in part lithic; fresh grey, quartz veined in part lithic; fresh	DESCRIPTION	
	50 GAMMA 100 MMA 150 ap. 200	Geophysical Traces
	Compensated 3	ces
	0.3 mestone Neutron	

AVO						
		Seam				
020DA_DB		Sample	Number			
963 962	95 95 95 95 95 95 95 95	Depth be	elow)			
		Graphic	Log			
CARBUNACE OUS SIL IS IONE 60%, GAIK grey, sandy throughout; intermixed with COAL 40%, black, mainly dull, frequent bright bands(>10%); fresh	COALY SHALE 70%, dark grey, lithic: intermixed with SANDSTONE 30%, fine-medium grained, brownish grey, quartz velined in part lithic; fresh SANDSTONE, fine-medium grained, dark grey, lithic occasional coal, banded shaly; fresh SANDSTONE 60%, fine-medium grained, dark grey, coal, banded dull, minor bright bands (51%) throughout; intermixed with SANDSTONE 30%, fine-medium grained, light grey, fresh CARBONACEOUS SILTSTONE 70%, dark grey; fresh SANDSTONE 30%, fine-medium grained, light grey; fresh	DESCRIPTION				
		50 GAMMA api 150 api 200	Geophysical Traces			
		Compensated	ces			
		0.3 Limestone Neutron 0.9				

AVO										For	matic	n															
																									Sea	am	
																								020DA_DB	Sar	nple l	Number
986		984 					980 		977		ПППП		974		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ШППП	971			ПППП		966	965		Dep Col	oth be lar(m	elow)
				7.30 200			<u> </u>					. 1500 [850]						_	111 1 1 1 1	. W N				•	Gra	phic	Log
SANDSTONE, fine grained, light grey; fresh							SANDSTONE, fine grained, light grey, rare coal, banded; fresh		Intermixed with COAL 10%, black, dull, minor bright bands(>1%); fresh	SANDSTONE 90%, light grey, lithic:				SANDSTONE, fine grained, light grey; fresh			light grey, lithic, intermixed with COAL 10%, black, mainly dull, frequent bright bands (>10%); fresh	SANDSTONE 90%, fine-medium grained.	orgin barroot (* 1000), rroot	SANDSTONE, fine grained, light grey, lithic occasional coal,banded mainly dull, frequent bright hands (>10%): fresh	light grey; fresh	CARBONACEOUS SILTSTONE 70%, dark grey, coal,banded mainly dull, frequent bright bands(>10%) throughout, intermixed with SANDSTONE 30%, fine-medium grained	COAL 40%, black, mainly dull, frequent bright bands(>10%); fresh	CARBONACEOUS SILTSTONE 60%, dark grey, sandy throughout; intermixed with			
																									50 100 150 200	GAMMA api	Geophysical Traces
																									2	Compensated	ces
																									0.3 0.6 0.9	Limestone Neutron	

	AVO	F	ormatio	n
		5	Seam	
		5	Sample I	Number
			Depth be	elow)
		(Graphic	Log
SANDSTONE, fine grained, grey, shaly high sphericity, well-rounded throughout lithic; fresh		SANDSTONE, fine grained, light grey; fresh	DESCRIPTION	
		50 10 15 20	3AMMA api	Geophysical Traces
		3	ıpens	
		0.3	stone Ne	

AVO	Formation	on
	Seam	
	Sample	Number
1015	Depth b Collar(m	elow n)
	Graphic	Log
SANDSTONE, fine grained, grey, shaly high sphericity, well-rounded throughout lithic; fresh	DESCRIPTION	
	50 GAMMA api 150 200	Geophysical Traces
	Compensated	ices
	Limestone Neutron	