

DRILLING RECORD

REF 13062

AREA: <i>COAL RESOURCES INVESTIGATION</i>		CO-ORDINATES: E. 589Kyd 0072 Ft	N. 870Kyd 0696 Ft	HOLE No.
LOCATION: <i>FINGAL</i>		ON LINE:	BEARING:	AT CH:
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST:
DATES (a) DRILLED: <i>22-10-64</i> (b) WATER TABLE: <i>19-3-65</i>		SURFACE	COLLAR	WATER TABLE
METHOD: DIAMETER:		2126		FILE No.
SITE REMARKS:		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION
		VERT. HOR. INC.		
				SHEET 5 OF 9 SHEETS

35 100

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
0-0										Stone, weathered to clay & small fragments in some patches.
40 5'										
4 10'										409'8" - 415'
4 15'										Fine even-grained light grey mudstone.
4 20'										415' - 426' Medium to coarse grained feldspathic sandstone with thin coal seams and lenses up to 1/8"
4 25'										
4 30'										426' - 492' Rock weathered, Mudstone & feld. sandstone fragments in clay.
4 35'										492' - 458'8" Feldspathic sandstone & some siltstone with coal seams & lenses up to 3/8". The thicker seams (7/8") are mostly more than 3' apart, whereas the thin seams are often very close (spacing to 1/16") Banded sandstone
4 40'										458'8" - 460'8" Very fine brownish-grey mudstone which grades into the coal.
4 45'										460'6" - 468'2" Block homogeneous coal seam of fairly low quality.
4 50'										467' - 467'8" Coal is broken and there are thin clay beds up to 1/4"
4 55'										468'2" - 479'6". Alternating beds of carbonaceous sediments & non-carbonaceous mudstone & sandstones. The coal beds become less carbonaceous downwards.
4 60'										
4 65'										
4 70'										
4 75'										
4 80'										
4 85'										
4 90'										
4 95'										
5 00'										

See detail sheet 1

BROKEN

BROKEN

BROKEN

BROKEN

Black

Black

Brown

Clay

Grey

DRILLING RECORD

AREA: <i>COAL RESOURCES INVESTIGATION</i>		CO-ORDINATES: E: <i>589K₁d 0012ff</i> N: <i>870K₁d 0696ff</i>	HOLE No.
LOCATION: <i>FINBAL</i>		ON LINE: BEARING: AT CH.	G1
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN: BEARING: DIST:	FILE No.
DATES (a) DRILLED: <i>22-10-64</i> (b) WATER TABLE: <i>19-3-65</i>		SURFACE COLLAR WATER TABLE	SHEET 6 OF 9 SHEETS
METHOD: DIAMETER:		2126	
SITE REMARKS:		HOLE DRILLED ANGLE FROM HORIZONTAL DIRECTION	
		VERT./HOR./INC.	

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
0 0'										
50 5'										
510'					<i>BROKEN</i>					<i>509'-526'14"</i> <i>Massive feldspathic sandstone with thinly bedded, closely spaced black carbonaceous layers.</i> <i>Jointing sub-vertical. Coal lenses up to 1/8" at 526'.</i>
516'										
520'										
528'					<i>BROKEN</i>					<i>526'2" - 529'9" Alternating fine grained grey mudstone & coal. Coal becomes more vitreous & broken towards 529'.</i> <i>Green clay, 529'9" - 535'3"</i>
530'										
535'										<i>535'3" - 541' Severely broken vitreous coal grading into carbonaceous mudstone at 541'.</i>
540'										
545'										<i>541' - 547' Mudstone with thin clay beds brecciated & decomposed to clay & rock fragments in patches.</i>
550'										<i>547' - 558'7" Fine grained light grey cross-bedded mudstone.</i>
555'										
560'										<i>558'7" - 611'3" Medium grained massive feldspathic sandstone. Coaly lenses and seams up to 1/4" are common from 577' - 580'.</i>
565'										
570'										
575'					<i>BROKEN</i>					
580'										
585'										
590'										
595'										<i>Clay pellet conglomerate bands</i>
600'										

Casing up to 3" mostly 1 1/2" 1 1/4"

See detail Sheet 2

DRILLING RECORD

Ref 13062

AREA: <i>COAL RESOURCES INVESTIGATION</i>		POSITION	CO-ORDINATES:	E 589 Kyd 0072 FT	N. 870 Kyd 0696 FT	HOLE No.	
LOCATION: <i>FINGAL</i>			ON LINE:	BEARING:	AT CH:		CI
GEOLOGICAL PLAN:		SURVEY PLAN:		AT STN:	BEARING:	DIST:	FILE No.
DATES (a) DRILLED: <i>22-10-64</i>		(b) WATER TABLE: <i>13-3-65</i>		SURFACE	COLLAR	WATER TABLE	SHEET 7 OF 9 SHEETS
METHOD:		DIAMETER:		2126			
SITE REMARKS:		INCL.	HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION		
			VERT. / HOR. / INC.				

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
600				2			Grey			
605										
610										
615							Grey Black			611'3" - 614'4" Grey mudstone.
620										614'4" - 619'9" Greenish-grey mudstone with alternating bands of black slightly carbonaceous mudstone. Average thickness of bands is 1/8"
625										618' - 616'8" Region of slickensided & sheared mudstone.
630							Grey			619'9" - 620'2" Brown slightly weathered mudstone.
635										620'2" - 624'3" Carbonaceous mudstone with slickensides at 622'
640										624'3" - 628'4" Coal with closely spaced vitreous layers up to 1/8" thick. 1" mudstone beds at 624'7" (weathered) and one at 625'1"
645										No vitreous layers below 627'8" and from here it grades into a carbonaceous mudstone at 628'6"
650										628'6" - 634'11" Grey mudstone with some slickensides.
655										634'11" - 709'8" Fine to coarse grained feldspathic sandstone with sets of thin coaly lenses at 646'6", 654', 662', 668', 678'6", 685'9", 706' & 709'. The sets are up to 1 ft. long and consist of thin (up to 1/8") coal lenses with an average spacing of 1/4"
660										
665										
670										
675										
680										
685										
690										
695										

DRILLING RECORD

AREA: <i>COAL RESOURCES INVESTIGATION</i>		CO-ORDINATES: E: 589Kyd 0072Ft	N: 870Kyd 0696 Ft	HOLE No.
LOCATION: <i>FINGAL</i>		ON LINE:	BEARING:	AT CH.
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST:
DATES (a) DRILLED: <i>22-10-64</i> <i>19-3-65</i> (b) WATER TABLE:		SURFACE	COLLAR	WATER TABLE
METHOD: DIAMETER:		2126		FILE No.
SITE REMARKS:		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION
		VERT./HOR./INC.		SHEET 8 OF 9 SHEETS

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No. Per Foot	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
700'							Grey			
705'										
710'						BROKEN	Black Grey			<i>709'8" - 712'1" Black coal with vitreous layers up to 1/8". Broken from 710'6" to 711'8".</i>
715'							Grey			<i>712'1" - 713'5" Grey weathered mudstone consisting of rock fragments & clay. 713'5" - 719'10" Fairly uniform dark grey carbonaceous mudstone: Broken core due to fretting.</i>
720'										<i>719'10" - 724'10" Carbonaceous sandstone containing thin wavy lenses of carb. material up to 1/16", and some mud beds with gradational contacts.</i>
725'										<i>724'10" - 753'6" Massive feldspathic sandstone medium to coarse grained with coal lenses up to 1/8" at 735'10", 736'10", 738'1".</i>
730'										
735'										
740'										
745'										
750'										
755'						BROKEN	Black Grey			<i>753'6" - 754'7" Grey banded carbonaceous mudstone 754'7" - 755'9" Dull coal with vitreous bands up to 1/16". 755'9" - 756'7" Dark grey carbonaceous mudstone</i>
760'						BROKEN	Grey			<i>756'7" - 759'4" Grey weathered & decomposed carbonaceous mudstone with closely-spaced fissile partings.</i>
765'						BROKEN				<i>759'4" - 760'11" Carbonaceous mudstone. 760'11" - 761'4" Coal with vitreous layers up to 1/2". Vertical gypsum veins.</i>
770'						BROKEN				<i>761'4" - 782'1" Light grey slightly carbonaceous mudstone due to scattered vegetable matter; No coal lenses</i>
775'						BROKEN				
780'						BROKEN	Brown Grey			<i>1" clay 3" Coal 3" Weathered mudstone</i>
785'										<i>782'7" - 784'6" Dark grey carbonaceous mudstone</i>
790'						BROKEN				<i>784'6" - 786'4" Dull coal with irregular vitreous layers Vertical gypsum veins common. Carbonaceous mudstone. 786'4" - 788'4" 788'4" - 790'9" Coal with mudstone beds at 788'6" & 790'5".</i>
795'						BROKEN				<i>790'9" - 809'7" Grey mudstone which grades from carbonaceous to slightly carbonaceous at the base.</i>
800'						BROKEN				

See detail sheet 3

DRILLING RECORD

REF No 13062

AREA: COAL RESOURCES INVESTIGATION		CO-ORDINATES: E. 589440072 FT N. 870406926 FT		HOLE No. C1
LOCATION: FINGAL		ON LINE:	BEARING:	AT CH.
GEOLOGICAL PLAN: SURVEY PLAN:		AT STN:	BEARING:	DIST.
DATES (a) DRILLED: 12-10-64 (b) WATER TABLE: 12-3-65		SURFACE	COLLAR	WATER TABLE
METHOD: DIAMETER:		2126		FILE No.
SITE REMARKS:		HOLE DRILLED	ANGLE FROM HORIZONTAL	DIRECTION
		VERT. / HOR. / INCL.		
				SHEET 9 OF 9 SHEETS

DEPTH	CORE DRAWN	CORE LENGTH	CASING	RECOVERY	GRAPHIC LOG	JOINTS No Per Feet.	FLUID RETURN	GROUND WATER	WATER PRESSURE TESTS LEAKAGE	REMARKS
800'										
805'										2" Weathered to mudstone fragments in clay Pyritic.
810'										BROKEN
815'										809'7" - 850'0" Fine to medium grained feldspathic sandstone.
820'										820'9" - 1'8" coal lens
825'										
830'										
835'										834' - 835' group of very thin (1/16") carbonaceous lenses.
840'										BROKEN
845'										836'7" - 837'2" Coal lenses up to 1/4".
850'										850' - 853'3" Grey mudstone, only slightly carbonaceous.
855'										853'3" - 855'4" Muddy coal with very thin vitreous layers
860'										2" Mudstone
865'										BROKEN
870'										855'4" - 870'9" Fine to medium grained feldspathic sandstone.
875'										Weathered from 861'6" to 864'7"
880'										857'9" - 1" thick set of thin carb. layers.
885'										
890'										
895'										
900'										
905'										
910'										
915'										
920'										
925'										
930'										
935'										
940'										
945'										
950'										
955'										
960'										
965'										
970'										
975'										
980'										
985'										
990'										
995'										
1000'										

Hole stopped at 872'

Logged by T. Munro & D. Furber

COAL RESOURCES INVESTIGATION

FINGAL

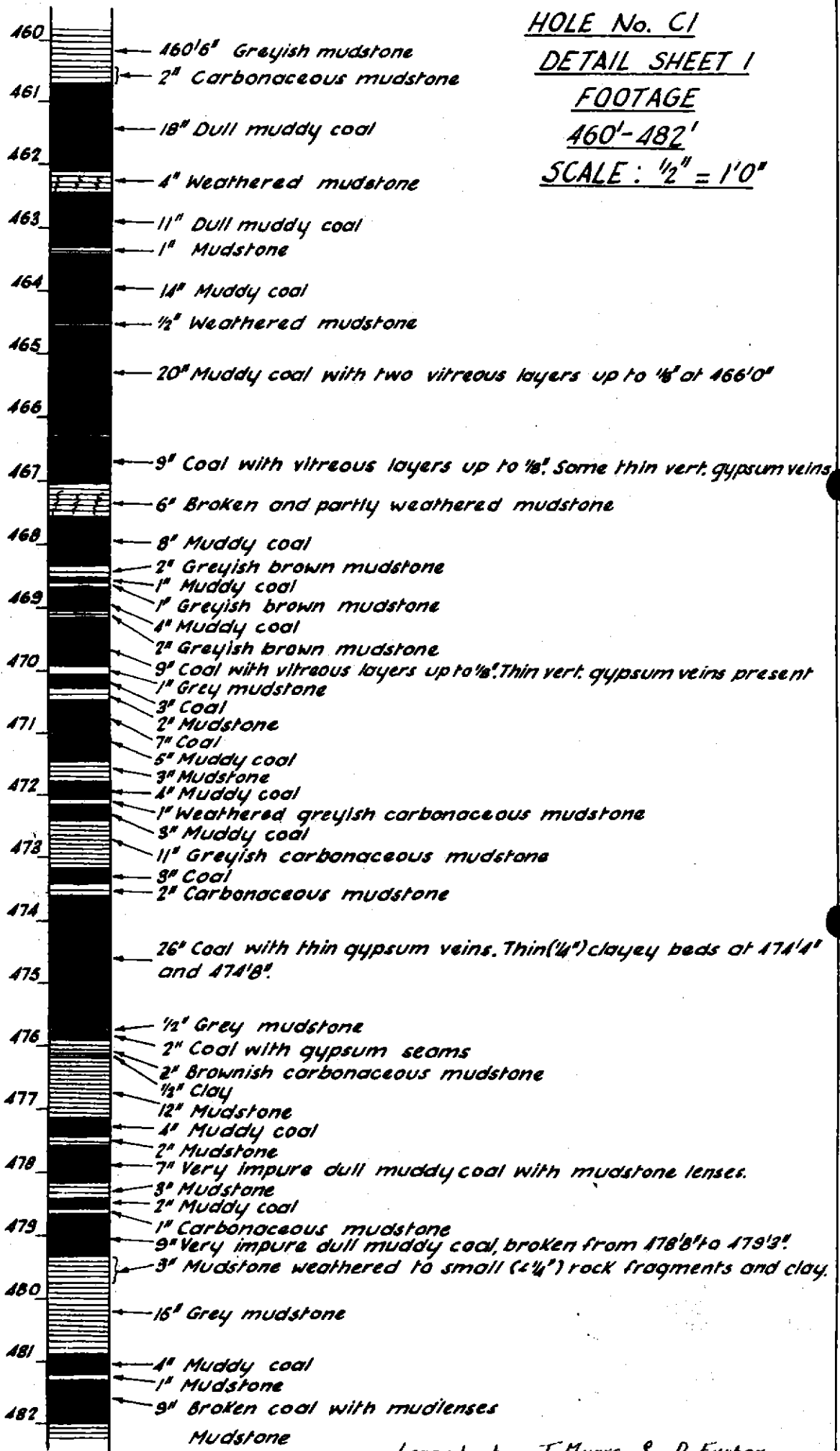
HOLE No. C1

DETAIL SHEET 1

FOOTAGE

460'-482'

SCALE: 1/2" = 1'0"



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COAL RESOURCES INVESTIGATION

FINGAL

HOLE No. C1

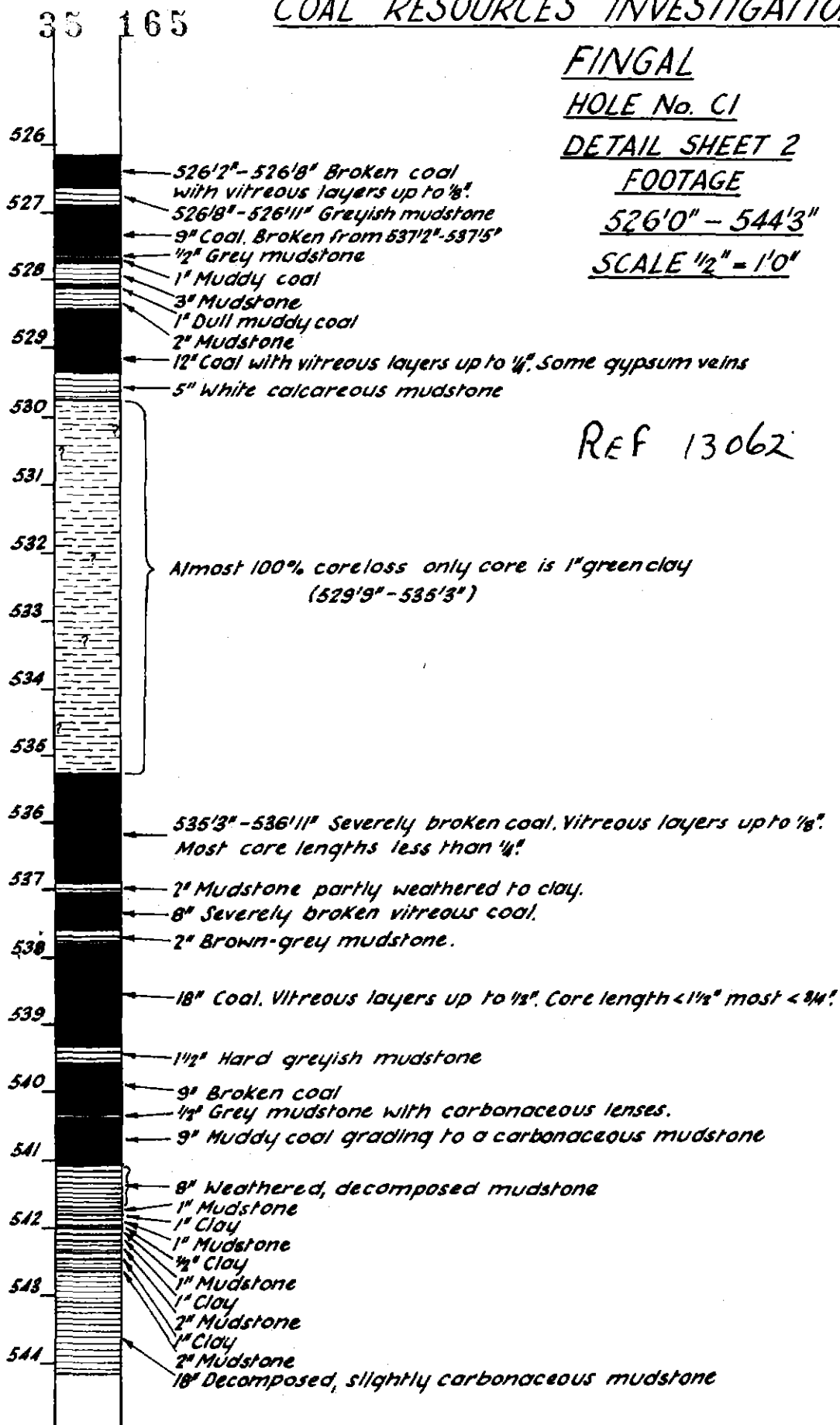
DETAIL SHEET 2

FOOTAGE

526'0" - 544'3"

SCALE 1/2" = 1'0"

REF 13062



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COAL RESOURCES INVESTIGATION

FINGAL

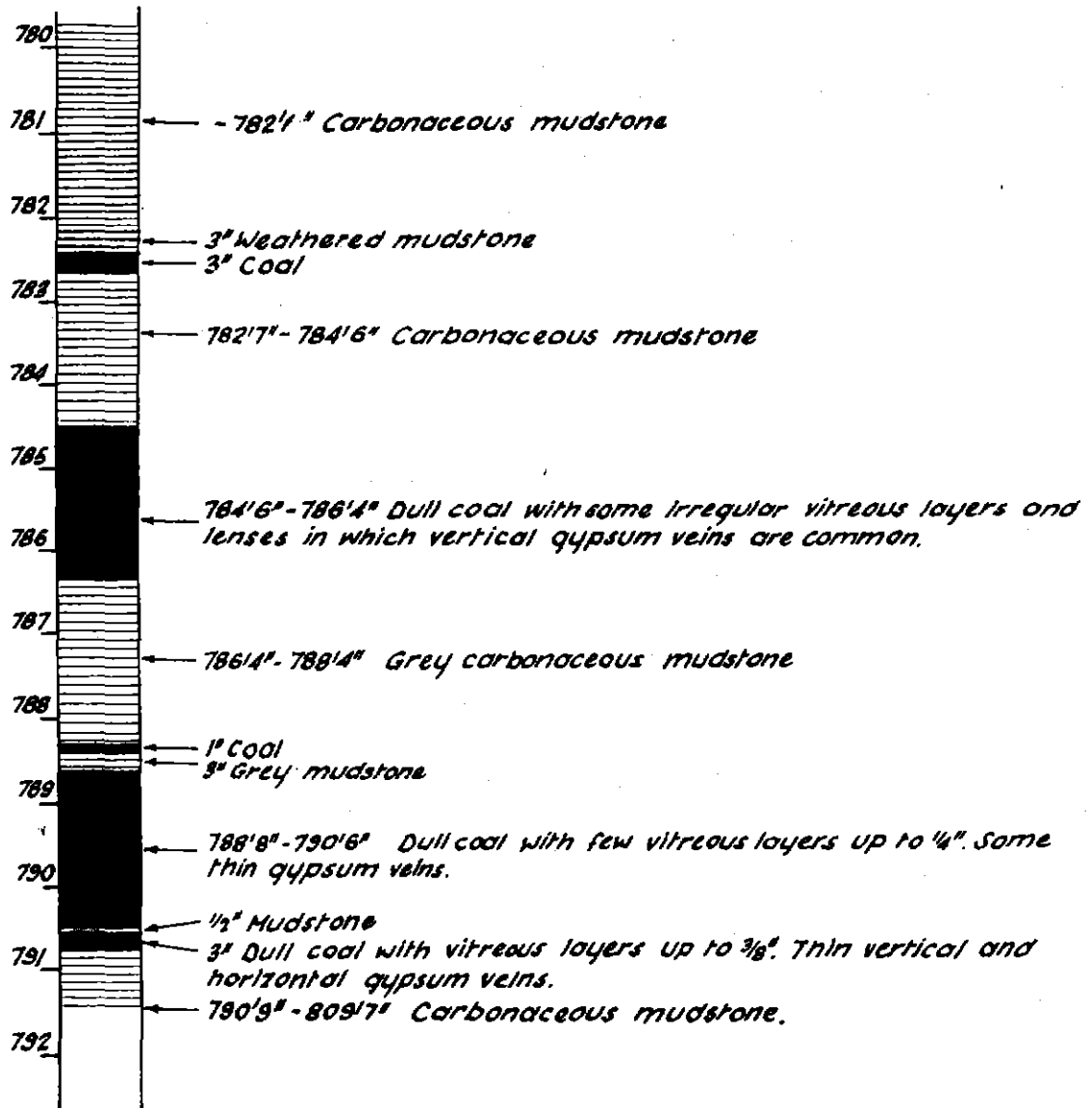
HOLE No. C1

DETAIL SHEET 3

FOOTAGE

780'0" - 791'0"

SCALE 1/2" = 1'0"



Logged by T. Munro & D. Furber.