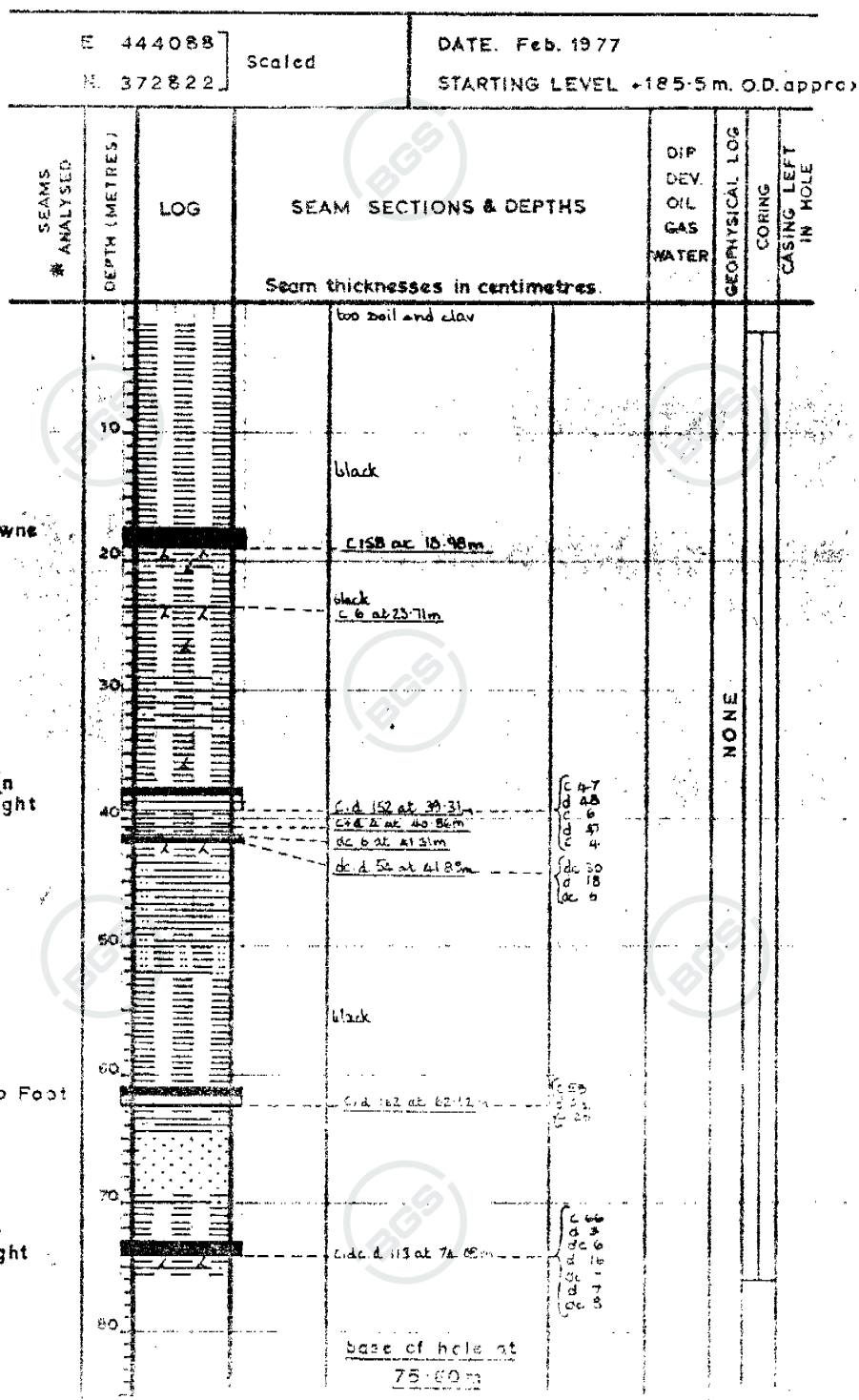




SK 47 SW. / 73 64 D

ERIN OPENCAST
Borehole No. 789





SK47SW 73 44088-72822

COMMERCIAL
IN CONFIDENCE

Section of: Erin Opencast, Borehole No.789

Purpose: Opencast coal exploration.

(Nat. Grid, Sheet & Qtr.) B/H REG. NO.

Exact Site: E 444088) scaled
N 372822)

SK47SW

64D

Level at which bore commenced relative to
O.D. + 185.5 m approx.

Date of Drilling: February 1977

Driller: Drillsure Limited
Core logged by M.Jones

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		m	cm	m	cm
Soil		0	30	0	00
Clay	brown	1	10	0	30
Mudstone	brown	3	60	1	40
Mudstone	grey	7	50	5	00
Mudstone	black	2	00	12	50
Mudstone	grey	1	60	14	50
Mudstone	dark	1	30	16	10
				17	40
<u>CLOWNE</u>	Coal		60		
	Core lost in coal		58		
	Coal, mainly bright		40		
		1	58		
			<u>158</u>	18	98
Seatearth:-					
Mudstone	grey; soft; RQD 0%	0	52	19	50
Mudstone	with silty laminations; soft; RQD 0%	0	40	19	90
Siltstone	and sandstone; cross-laminated; ironstone nodules; RQD 30%	0	74	20	64
Mudstone	grey; soft; roots; harder towards base; RQD 0%	0	36	21	00



				21	00
Mudstone	grey, becoming darker towards the base; RQD 0%	0	15	21	15
Mudstone	black; coaly laminae towards the base; ironstone bands near the top and the base; RQD 32%	2	50	23	65
<u>COAL</u>	mainly bright	0	06	23	71
Seatearth: Mudstone	grey; dark and coaly near the top; soft; RQD 0%	0	29	24	00
Mudstone	silty; grey; iron-stained; RQD 0%	0	35	24	35
Mudstone	grey; few ironstone nodules; mainly soft; RQD 15%	2	65	27	00
Mudstone	grey, soft; <u>seatearth</u> bands; dark towards the base; ironstone nodules; RQD 0%	0	97	27	97
Mudstone	black; hard; RQD 0%	0	10	28	07
Mudstone	mid-dark grey; becoming lighter towards the base; soft, becoming harder towards the base; numerous small ironstone nodules; RQD 47%	1	93	30	00
Mudstone	with occasional siltstone passages; ironstone bands becoming common towards the base; RQD 13%	3	00	33	00
Mudstone	mainly soft; numerous thin ironstone bands near the top; RQD 16%	2	50	35	50
<u>Seatearth</u> Mudstone	grey; very soft; RQD 0%	0	23	35	73
Mudstone	mainly soft; grey; occasional ironstone bands; RQD 17%	1	97	37	70
Mudstone	dark; coaly laminae towards the base	0	09	37	79
<u>MAIN BRIGHT</u> <u>(part)</u>	coal, mainly bright (cylinder) 47 seatearth, mudstone 48 coal, mainly bright 6 seatearth, mudstone; coaly laminae 47 coal, bright 4 152	1	52	39	31
Seatearth: Mudstone	grey; soft; thin coal bands passage	0	48	39	79



SK47SW/73

Mudstone	grey; silty; RQD 30%	0	71	39	79
<u>Lost Core</u>		0	10	40	50
Mudstone	soft; RQD 0%	0	22	40	60
<u>COAL</u>	and dirt	0	04	40	82
Seatearth: Mudstone	grey; soft; thin <u>coal</u> bands	0	39	40	86
<u>COAL</u>	mainly bright with dirt partings	0	06	41	25
Seatearth: Mudstone	black; common <u>coaly</u> laminae	0	04	41	31
<u>MAIN BRIGHT</u> (part)	coal, mainly bright, dirt partings 30 seatearth, mudstone; coal bands 18 near base coal; dirt partings 6 54	0	54	41	89
Seatearth: Mudstone	dark; numerous thin <u>coal</u> bands	0	46	42	35
Mudstone	silty; ironstone nodules; hard RQD 100%	0	51	42	86
Mudstone	RQD 46%	0	54	43	40
Mudstone	silty with sandstone laminae; cross-laminated; ironstone nodules RQD 37%	2	30	45	70
Siltstone	fine with sandstone laminae; cross laminated; ironstone nodules and bands; RQD 73%	2	80	48	50
Mudstone	ironstone nodules and bands RQD 47%	0	57	49	07
Siltstone	with sandstone; cross-lamination; bands and lenses of mudstone; RQD 82%	0	55	49	62
Mudstone	dark grey; ironstone nodules	0	22	49	84
Sandstone	and siltstone; cross laminated; mudstone lenses; hard and very hard RQD 100%	1	66	51	50
Mudstone	with occasional sandy and silty bands; ironstone lenses; RQD 77%	0	77	52	27
Mudstone	dark; numerous ironstone bands up to 0.06; becoming darker towards the base; RQD 31%	1	73	54	00
<u>Core Lost</u>		0	10	54	10

				54	10
Mudstone	black; thin ironstone bands throughout; RQD 87%	2	90	57	00
Mudstone	black; numerous thin ironstone bands and nodules throughout; RQD 68%	2	50	59	50
Mudstone	grey becoming darker and harder towards the base; RQD 47%	0	53	60	03
Mudstone	black; RQD 100%	0	97	61	00
<u>TWO FOOT</u>					
	Coal, mainly bright		58		
	Seatearth, mudstone, pale		18		
	Seatearth, siltstone		54		
	Seatearth, mudstone		12		
	Coal, mainly bright		20		
			162	1	62
				62	62
Seatearth:					
Mudstone	grey; silty near top; mainly soft; RQD 20%	0	59	63	21
Siltstone	grey; RQD 100%	0	17	63	38
Siltstone	with sandstone layers; hard; RQD 90%	1	23	64	61
Sandstone	pale grey; cross-laminated; hard; RQD 100%	0	49	65	10
<u>Core Lost</u>					
				65	65
Sandstone	pale grey; hard; siltstone laminae; carbonaceous streaks; mudstone lenses; RQD 55%	1	45	67	10
Sandstone	pale grey; hard; carbonaceous and siltstone cross-laminations; RQD 97%	0	86	67	96
Siltstone	RQD 100%	0	14	68	10
Sandstone	pale grey; hard - very hard; finely cross laminated; siltstone layers and carbonaceous streaks; a few small mudstone lenses; RQD 73%	0	90	69	00
Mudstone	silty; becoming darker and less silty to the base; RQD 81%	1	20	70	20
Mudstone	very few ironstone nodules; becoming softer and fractured towards the base; RQD 32%	2	40	72	60
<u>Core Lost</u>					
		0	10	72	70
Mudstone	black; RQD 0%	0	25	72	95



<u>Low Bright</u>	Coal, mainly bright	66		72	95
	Seatearth, mudstone; coaly	3			
	Coal, mainly bright, dirty				
	near base, thin dirt at top	6			
	Seatearth, mudstone; coaly	16			
	Dirty coal, with dirt partings	7			
	Seatearth, mudstone, coaly	7			
	Dirty coal	8	1	13	
		<u>113</u>		<u>74</u>	<u>08</u>
Seatearth:					
Mudstone	grey; soft becoming harder towards the base; coaly laminae near the top; RQD 33%	0	48	74	56
Mudstone	grey; siltstone layers; ironstone nodules; RQD 73%	1	04+	75	60
	<u>Base of hole at 75.60m</u>				

JR/1172R/01/SW