Attachment to WCR.
Appendix 4 of WCR.

Ingleby-1
W1038.

DEPT. NAT. RES & ENV
PE906632

PETROLEUM DIVISION
16 MAR 1993

APPENDIX-4

SAMPLE DESCRIPTION

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 23/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 1 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						
			GAS					FLUOR	
			TOTAL	C1	C2	C3	C4	NAT.	CUT
		SPUDDED @ 1630 HRS. ON							
		TUESDAY 23RD OCTOBER 1990							
		G.L. 114.0M ASL.							
		K.B. 117.3M ASL G.L. to K.B. 3.3M							
		18" Conductor was set @ 13.0m							
		All depths were measured from K.B.							
Surf-15	100	WEATHERED CLAYSTONE, lt yellowish brn, soft, disp, v. silty,							
		com v.f. sand grains, com med-c multi-col lithics,							
15-20	100	SANDSTONE, med brn gry to med brn green, loose, v. rarely							
		friable, v.f. to silt size, sa-sr, well sorted qtz with minor							
		multi-col lithics, com to abundant med gry disp arg mtx, v.							
		rare v. weak calc cmt, tr to occ com shell fragments, rare							
		forams, v. rare pyr. nodules and/or cmt, v. poor to nil vis Ø							
20-25	100	SANDSTONE as above with minor band of lateritised (?)							
		sandstone, yellow, med brn to dk brn, extremely hd, tr iron							
		oxide pellets, rare med grained iron-stained qtz, in part							
		limonitised and weathered							
25-30	100	SANDSTONE as per 15-20, v. poor-nil vis Ø							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 23/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 2 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						
			GAS					FLUOR	
			TOTAL	C1	C2	C3	C4	NAT.	CUT
30-35	100	SANDSTONE as per 15-20, dom med-dk green gry							
35-40	100	SANDSTONE " " " " " " " " rare calcite							
		band, lt brn-orange, hd, com pyr nodules, rare strong silica							
		& pyr. cmt							
40-45	70	SANDSTONE as above becoming extremely, clayed and in part							
		grading into							
	30	SANDY SILTY CLAYSTONE, med-dk green gry, med brn gry in part,							
		soft, disp, sticky in part, com forams and shell fragments,							
		tr pyr nodules, extremely silty with v.f. sand							
45-50	50	SANDSTONE generally as above, tr mod strong silica cmt, very							
		poor to nil vis Ø							
	50	CLAYSTONE as above							
50-55	50	SANDSTONE as above dom med green gry, tr glauc.							
	50	CLAYSTONE as above							
55-60	50	SANDSTONE as above							
	50	CLAYSTONE as above							
60-65	40	SANDSTONE as above							
	60	CLAYSTONE as above, tr f. carb det.							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 23/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 3 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
65-69.5	30	SANDSTONE as above							
	70	CLAYSTONE as above, tr f. carb det.							
		CASING POINT AT 69.49m was reached							
		@ 21.30 hrs on 23/10/1990							
		CASING SHOE 64.4m							
		Drilled out of casing shoe @ 22.30 hrs on 24/10/90							
69.5-75	40	SANDSTONE as above dom. firm grading into							
	60	SILTY CLAYSTONE as above							
75-80	30	SANDSTONE generally as above, dom med gry to med brn gry,	Tr	Tr					
		loose to firm, dom loose to friable, silt size to fine, dom							
		v.f, sa-sr fairly sorted qtz, com med gry arg mtx, tr							
		lithics, v. poort to nil vis Ø							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 24/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 4 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
		grading into;							
	30	SILTSTONE, med gry to med brn gry, loose to firm, disp in							
		part, com lithics,							
	40	CLAYSTONE, med gry to med brn gry, occ med green gry, soft,							
		disp in part, sticky in part, v. slightly calc, com forams							
		and shell frag. tr glauc, rare fine mica flecks							
80- 85	40	SANDSTONE as above	Tr	Tr					
	40	SILTSTONE as above							
	20	CLAYSTONE as above							
85- 90	40	SANDSTONE as above	Tr	Tr					
	40	SILTSTONE as above							
	20	CLAYSTONE as above							
90- 95	40	SANDSTONE as above	Tr	Tr					
	35	SILTSTONE as above							
	25	CLAYSTONE as above							
95-100	20	SANDSTONE as above	Tr	Tr					
	40	SILTSTONE as above							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 5 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						
			GAS					FLUOR	
			TOTAL	C1	C2	C3	C4	NAT.	CUT
	40	CLAYSTONE as above							
100-105	40	SANDSTONE as above	Tr	Tr					
	40	SILTSTONE as above							
	20	CLAYSTONE as above							
105-110	20	SANDSTONE as above	Tr	Tr					
	50	SILTSTONE as above							
	30	CLAYSTONE as above, occ med bluish gry in part							
110-115	30	SANDSTONE as above	Tr	Tr					
	60	SILTSTONE as above							
	10	CLAYSTONE as above							
115-120	30	SANDSTONE as above	Tr	Tr					
	60	SILTSTONE as above							
	10	CLAYSTONE as above							
120-125	20	SANDSTONE as above	Tr	Tr					
	60	SILTSTONE as above							
	20	CLAYSTONE as above							
125-130	20	SANDSTONE as above	Tr	Tr					
	60	SILTSTONE as above							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 6 **OF** 13

			SHOWS						
			GAS					FLUOR	
DEPTH (m)	**%**	**SAMPLE DESCRIPTION**	**TOTAL**	**C1**	**C2**	**C3**	**C4**	**NAT.**	**CUT**
	20	CLAYSTONE as above							
130-135	20	SANDSTONE as above	0.1	18					
	40	SILTSTONE as above							
	40	CLAYSTONE as above							
135-140	20	SANDSTONE as above, tr pyr nodules	0.13	26					
	50	SILTSTONE as above							
	30	CLAYSTONE as above, glauc becoming more common							
140-145	20	SANDSTONE as above	0.21	42					
	50	SILTSTONE as above							
	30	CLAYSTONE as above							
145-150	25	SANDSTONE as above	0.28	58					
	50	SILTSTONE as above							
	25	CLAYSTONE as above							
150-155	15	SANDSTONE as above	0.13	26					
	60	SILTSTONE as above							
	25	CLAYSTONE as above							
155-160	80	SILTSTONE, med-dk brn, soft, disp, commonly micaceous,	0.13	26					
		abundantly argillaceous, tr multi-col lithics, com glanc							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 7 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
		pellets, tr-com pyr nodules, tr shell frag (cavings ?), in							
		part grading into;							
	20	SANDSTONE, clear to frosty loose, f-vc, dom med-c, sa-sr, occ							
		rnd, dom sr, poorly sorted qtz, no apparant mtx (probably disp							
		& washed away), rare qtz overgrowth, tr pyr nodules, good vis Ø							
160-165	75	SILTSTONE as above	0.1	19					
	25	SANDSTONE as above							
165-170	70	SILTSTONE as above							
	30	SANDSTONE as above							
170-175	80	SILTSTONE as above, tr v.f. sand grains	0.07	13					
	20	SANDSTONE as above							
175-180	80	SILTSTONE as above, tr v.f. sand grains	0.88	16					
	20	SANDSTONE as above							
180-185	95	SILTSTONE as above	0.33	6					
	5	SANDSTONE as above							
185-190	50	SILTSTONE as above	0.1	19					
	50	SANDSTONE as above							
190-195	50	SILTSTONE as above, occ med green gry in part							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 8 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
	50	SANDSTONE as above							
195-200	40	SANDSTONE, clear to frosty, loose, med-vc, occ f, dom med-c	0.07	13					
		sr, occ sa, poor-fairly sorted qtz, no apparant mtx, tr glauc,							
		tr pyr nodules, good vis Ø, no shows, interbd/interlam with							
	30	SILTSTONE, med green gry, med gry, med brn, soft, occ firm,							
		disp in part, com argillaceous, tr multi-col lithics,							
	30	CLAYSTONE, med bluish gry, med gry, occ med brn gry, soft,							
		occ firm, disp in part, tr f lithics, slightly silty, tr							
		shell frag (cavings)							
200-205	70	SANDSTONE as above	0.13	26					
	20	SILTSTONE as above							
	10	CLAYSTONE as above							
205-210	30	SANDSTONE as above	0.13	26					
	20	SILTSTONE as above							
	50	CLAYSTONE as above, dom. med-dk brn							
210-215	20	SANDSTONE as above	0.04	9					
	30	SILTSTONE as above							
	50	CLAYSTONE as above							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 9 **OF** 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
215-220	10	SANDSTONE as above	0.06	13					
	20	SILTSTONE as above							
	70	CLAYSTONE as above							
220-225	Tr	SANDSTONE as above dom f	0.08	6					
	50	SILTSTONE as above							
	50	CLAYSTONE as above							
225-240	100	VOLCANICS (To be described)	.43	85					
240-241	100	SANDSTONE, clear, frosty, lt brn to med orange, loose, med-vc,	Tr	Tr					
		a-sr, poor-fairly sorted qtz, (some angular grains are							
		product of bit action?), com-abundant lt brn to orange disp							
		clay mtx, the majority of the grains have brn iron-staining,							
		fair vis Ø. The sample appears to be from an unconformity							
		surface (?)							
241-247	100	SANDSTONE, clear to frosty to lt gry, loose c-vc, angular,	Tr	Tr					
		occ sa, fairly to well sorted qtz (the angularity of the							
		grains appear to be the product of bit action), no apparant							
		mtx, v. good vis Ø, no shows							
247-250	80	CLAYSTONE, lt gry to lt brn gry, off white to beige in part,							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 10 OF 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						
			GAS					FLUOR	
			TOTAL	C1	C2	C3	C4	NAT.	CUT
		disp in part rarely blocky in part, rarely carbonaceous of							
		micaceous, slightly silty in part, grading into minor							
		siltstone in part, interlam with;							
	20	SANDSTONE lt gry to beige, friable, rarely firm in part,							
		vf-f, occ vf-med, sa-sr, fairly sorted qtz and multi-col							
		lithics, tr partially weathered feld, tr-occ com off white							
		to light gry arg mtx, rare dolomitic cmt, v. poor-no vis Ø							
250-255	85	CLAYSTONE as above	Tr	Tr					
	15	SANDSTONE as above							
255-260	90	CLAYSTONE as above with minor mod strong dolomite band	.08	16					
	10	SANDSTONE as above							
260-265	75	CLAYSTONE as above, v. occ med green gry, minor dol band,	.09	19					
		rare pyr nodules, becoming abundantly silty in part							
	25	SANDSTONE as above, occ firm to hd with tr calc cmt							
265-270	80	CLAYSTONE as above	.13	26					
	20	SANDSTONE as above, occ med green gry,							
	Tr	COAL, black, firm brittle, sub conc fracture, no fluor,							
		cut or crush cut							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 11 OF 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS						
			GAS					FLUOR	
			TOTAL	C1	C2	C3	C4	NAT.	CUT
270-275	85	CLAYSTONE as above	.23	46					
	15	SANDSTONE as above							
	Tr	COAL as above							
275-280	90	CLAYSTONE as above	.52	105					
	10	SANDSTONE as above							
	Tr	COAL as above							
280-285	50	CLAYSTONE as above	.49	98					
	50	SANDSTONE generally as above, dom off white-lt gry, friable,							
		vf-f, sa-sr, well sorted qtz & multi-col (volcanogenic ?)							
		lithics, abundant disp lt gry, off white to beige arg mtx,							
		tr partially altered feld, v. poor vis Ø no shows							
285-290	50	CLAYSTONE as above	1.2	243					
	50	SANDSTONE as above							
290-295	55	CLAYSTONE as above, tr dol band	.82	164					
	45	SANDSTONE as above							
295-300	60	CLAYSTONE as above	1.6	328					
	40	SANDSTONE as above							
	Tr	COAL as above							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 12 OF 13

			SHOWS						
			GAS					FLUOR	
DEPTH (m)	%	SAMPLE DESCRIPTION	TOTAL	C1	C2	C3	C4	NAT.	CUT
300-305	50	CLAYSTONE as above	.82	164					
	50	SANDSTONE as above							
	Tr	COAL as above							
305-310	50	CLAYSTONE as above	1.3	263					
	50	SANDSTONE as above							
310-315	45	CLAYSTONE as above	2.8	565					
	55	SANDSTONE as above							
315-320	70	CLAYSTONE as above	3.1	624					
	20	SANDSTONE as above							
	5	COAL as above no fluor, cut or crush cut							
320-325	80	CLAYSTONE as above, occ med-dk brn	0.65	130					
	20	SANDSTONE as above, dom f, v. rarely med,							
	Tr	COAL as above							
325-330	90	CLAYSTONE as above, occ v. carbonaceous grading into minor;	1.7	355					
	Tr	COAL as above, dom dull & argillaceous							
	10	SANDSTONE as above							
330-331.2	60	CLAYSTONE as above	.95	195					
T.D.	40	SANDSTONE as above, firm to hd in part, tr calc cmt in part							

GAS AND FUEL EXPLORATION N.L.

WELL: INGLEBY NO#1 **DATE:** 25/10/90 **GEOLOGIST:** A. TABASSI **PAGE:** 13 OF 13

DEPTH (m)	%	SAMPLE DESCRIPTION	SHOWS GAS TOTAL	C1	C2	C3	C4	FLUOR NAT.	CUT
		v. poor vis Ø							
	Tr	COAL as above							
		Total Depth of 331.2m was reached							
		@ 18.00 hrs on Thursday 25/10/1990							