CFA ARCHAEOLOGY LTD

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Stirling Reinforcement Pipeline, Cowie, Stirlingshire

Archaeological Works

Report No. 1547

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1. INTRODUCTION

1.1 General

- 1.1.1 This report presents the results of an archaeological watching brief, monitored topsoil strip and subsequent mitigation measures undertaken by CFA Archaeology Ltd (CFA) between August and September 2008 during topsoil stripping operations for a gas pipeline near Cowie, Stirlingshire (NS 8321 9080 to NS 8524 8750) (Fig. 1A and Fig. 1B). The work was commissioned by Land and Marine Project Engineering Ltd.
- 1.1.2 A Written Scheme of Investigation (WSI) for the watching brief was produced by CFA on behalf of Land and Marine. The WSI was based upon information supplied by RSK Environment Ltd (RSK), and was produced following consultation with the Stirling Council Archaeologist. RSK were acting as archaeological consultants for Scotland Gas Networks Ltd.

1.2 Background

- 1.2.1 A gas pipeline is being installed to the east of the village of Cowie running from close to the farm of Newmills (NS 8321 9080) to the farm of Whitehill (NS 8524 8750) (Fig. 1A and Fig. 1B). The topsoil stripping operations were subject to an archaeological condition requiring a combination of watching briefs and monitored topsoil stripping.
- 1.2.2 A desk-based assessment and field reconnaissance survey (RSK 2008) for the pipeline was carried out by RSK Environment Ltd in January and February 2008 on behalf of Scotland Gas Networks Ltd. Numbers in the following text prefixed with RSK refer to sites identified in the desk-based assessment.
- 1.2.3 The desk-based assessment carried out by RSK identified three significant areas of archaeological potential. These consisted of two post-medieval farmsteads (Wester Moss farm buildings and Scotston farm building) (RSK Site 22 and RSK Site 25) that are depicted on the 1st Edition Ordnance Survey map (1865) (Fig.10), and an area of ground between Hilton Cottage and Westerton, which was considered to have moderate potential for the recovery of Neolithic or Bronze Age remains. These three areas were subject to monitored topsoil stripping.
- 1.2.4 The pipeline ran for a distance of 4.5km across areas of improved rolling farmland and had a working width of 20m.
- 1.2.5 During the course of the watching brief/monitored topsoil strip, nine sites (Site 1 Site 9) of archaeological potential were identified and subject to a further programme of archaeological excavation. An addendum to the WSI was produced and approved by the Stirling Council Archaeologist.
- 1.2.6 No previous invasive archaeological fieldwork is known to have taken place within the development area prior to this programme of archaeological works.

1.3 Objectives

- 1.3.1 The aims of the initial programme of archaeological works were:
 - To determine the location, character, extent and quality of any features or objects of archaeological importance that may survive within the working width of the pipeline, and which may be damaged or destroyed by this development.
 - To determine if there were any surviving remains associated with Wester Moss farm building (RSK Site 22), Scotston farm building (RSK Site 25), and an area of moderate archaeological potential between Hilton Cottage and Westerton.
- 1.3.2 Following the watching brief and monitored topsoil strip, the aims of the programme of archaeological works were to conduct mitigation excavations on the features identified.

2. WORKING METHODS

- 2.1 CFA Archaeology Ltd follows the Institute of Field Archaeologists' Code of Conduct, Standards and Guidance for Archaeological Watching Briefs.
- 2.2 The removal of soil deposits was carried out using 360° excavators equipped with smooth-bladed ditching buckets under constant archaeological supervision. All further works required to fulfil the terms of the brief were carried out by hand.
- 2.3 All excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, by photography and by completing standard CFA record forms.

3. ARCHAEOLOGICAL RESULTS

3.1 General

- 3.1.1 The area monitored was 4.5km in length and had a working width of 20m.
- 3.1.2 There was a significant variation in subsoil types along the length of the pipeline, with the southern end predominantly consisting of sandy clay, the section opposite Cowiehall Quarry consisting of sand and the area to the north of Cowie consisting of heavy wet clay. Field drains were present throughout the length of the pipeline, being particularly prevalent in the wetter ground towards the northern end.

3.1.3 Numbers in bold and parentheses refer to contexts, a list of which is contained in Appendix 1.

3.2 Monitored Topsoil Stripping

- 3.2.1 Monitored topsoil stripping was carried out at the sites of Westermoss farm buildings (RSK Site 22) (Fig. 1A), Scotston farm buildings (RSK Site 25) (Fig. 1B) and in the area between Hilton Cottage and Westerton (Fig. 1A).
- 3.2.2 A number of drainage features believed to be associated with Westermoss farm buildings (RSK Site 22) were identified. This site was renumbered as Site 4. No remains of Scotston farm buildings (RSK Site 25) were identified and no features were identified within the area between Hilton Cottage and Westerton.

3.3 Watching Brief

3.3.1 Eight sites (Sites 1 – 3 and 5 – 9) (Fig. 1A and Fig. 1B) were identified during the watching brief. These consisted of two parallel ditches (Site 1), three curving ditches (Site 2), a curvilinear ditched feature (Site 3), three parallel ditch features (Site 5), a small isolated pit (Site 6), a dark spread containing shattered limestone (Site 7), four small pit/posthole features (Site 8) and four irregular pits (Site 9). Details of the features identified during the monitored topsoil stripping and watching brief are contained in the following section.

3.4 Archaeological Sites

Site 1

3.4.1 Site 1 consisted of two north/south aligned parallel ditches (**092** and **097**) extending across the full working width. Ditch **092** measured c.1.7m in width by 0.44m in depth and contained a ceramic field drain of probable 19th century date. Ditch **098** measured c.2.5m in width by c.0.2m in depth and had sloping sides and a flat base. The purpose of this feature is less clear cut, but the presence of 19th century pottery suggests that it probably relates to 19th century agricultural improvement.

Site 2

3.4.2 Site 2 (Fig. 2) consisted of three curving ditches (**068**, **070** and **072**). Ditches **068** and **072** extended across the full working width, but the southwestern end of ditch **070** converged with ditch **068** and a terminus was identified close to the north-eastern edge of the working width. The largest of the ditches (**068**) measured c.0.8m in width by 0.5m in depth. It had a V-shaped profile and contained a ceramic field drain. Ditches **070** and **072** were considerably shallower, measuring c.0.76m in width by 0.12m in depth and 1.1m in width by 0.1m in depth respectively. Ditch **070** appears to have been a tributary, exiting into ditch **068**. All three ditches contained 19th century pottery, suggesting that they relate to 19th century agricultural improvement.

3.4.3 Site 3 (Fig. 3) consisted of a ditch (**056**) that extended in a south-westerly direction from the north-eastern edge of the working width before curving round towards the east where it ended at a shallow and poorly defined terminus. Five sections (**058**, **060**, **062**, **064** and **066**) excavated across the ditch showed that it measured 0.9m – 1.1m in width by 0.08m – 0.15m in depth. The ditch had sloping sides, with the slope on the outside of the curve generally being considerably steeper than the slope on the inside of the curve. Nineteenth century pottery present within the fill (**057**) of the ditch suggests that it relates to 19th century agricultural improvement.

Site 4

3.4.4 Site 4 (Fig. 4) consisted of a series of twelve linear drainage features (003, 005, 007, 009, 011, 013, 015, 017, 019, 021, 023 and 052) that terminated towards the centre of the working width. The majority of the ditches had a rounded profile, with the largest measuring c.1.7m in width by c.0.5m in depth. A surface of flat laid bricks (002) measuring 0.4m by 0.6m had been inserted into the north-eastern end of the cut for ditch 009. The bricks (002) were frogged and were stamped 'Milton of Carluke'. Nineteenth century pottery was present within all the ditches. The location of these features corresponds with the approximate location of a farmstead annotated 'Westermoss' (RSK Site 22), which is depicted on the 1865 1st Edition Ordnance Survey map (Fig. 10). NGRs obtained for the features identified placed them immediately to the south of any structures depicted on the Ordnance Survey map, suggesting that they are likely to be associated drainage ditches.

Site 5

3.4.5 Site 5 (Fig. 5) consisted of three parallel SW/NE aligned ditch features (**099**, **101** and **104**) that extended across the full working width. The largest of the ditches (**104**) measured 1.5m in width by 1m in depth and had almost vertical sides and a flat base. This feature is depicted on the 1865 Ordnance Survey 1st Edition map and was probably a field boundary (Fig. 10). Ditches **099** and **101** measured 0.7m in width by 0.08m in depth and 0.9m in width by 0.2m in depth respectively. They both contained fragments of 19th century field drain.

Site 6

3.4.6 Site 6 (Fig. 6) consisted of a single circular pit (118). The pit measured 0.6m in diameter by 0.16m deep and had sloping sides and a rounded base. The primary fill (119) of the pit consisted of mid brown clay rich sand and the upper fill (120) consisted of dark brown sandy silt. There was no dating evidence recovered from the pit, but a soil sample was recovered for analysis.

3.4.7 Site 7 (Fig. 7) consisted of a spread (117) of dark silt containing shattered limestone and charcoal that sat within a shallow cut (116) with a depth of c.0.15m. The spread, which was situated next to a small watercourse, measured c.3m north to south, but the east to west dimension was not established because it continued beyond the eastern extent of the working width. The appearance of the limestone suggests that it may have been fire cracked. There was no dating evidence recovered, but the presence of fire cracked stone close to a watercourse might suggest that it was the remains of a burnt mound of prehistoric date. A soil sample was retained for analysis.

Site 8

- 3.4.8 Site 8 (Fig. 8) consisted of a group of four pit features (107, 109, 111 and 113), which had been cut into a gentle north facing slope. There was no dating material recovered from any of the pits, but soil samples were retained for analysis. All the pits were 100% excavated. Details of the individual pits are given below.
 - Pit 107 was circular in plan, measuring 0.38m in diameter by 0.18m deep. It had sloping sides and an irregular base and contained a single fill (108) consisting of dark brown sandy silt.
 - Pit 109 was roughly circular in plan, measuring 0.6m in diameter by 0.06m deep. It had sloping sides and a flat base and contained a single fill (110) consisting of dark brown sandy silt.
 - Pit 111 was oval in plan, measuring 0.8m north to south by 0.5m east to west and had a depth of 0.08m. It had sloping sides and a flat base and contained a single fill (112) consisting of dark brown sandy silt mixed with pink clay.
 - Pit 113 was roughly circular in plan, measuring 0.34m in diameter by 0.06m deep. It had sloping sides and a sloping base and contained two fills. The lower fill (114) consisted of fine grey sand and the upper fill (115) consisted of a circle of dark brown sandy silt measuring 0.14m in diameter by 0.04m deep.

Site 9

- 3.4.9 Site 9 (Fig. 9) consisted of a group of four pit features (121, 124, 127 and 129). There was no dating material recovered from any of the pits, but soil samples were retained for analysis. Details of the individual pits are given below.
 - Pit **121** was roughly circular in plan measuring 0.9m in diameter by 0.24m in depth. It had sloping sides and a rounded base and contained two fills. The

- lower fill (122) consisted of grey sandy silt and the upper fill (123) consisted of black clay-rich silt with stone inclusions.
- Pit **124** was roughly circular in plan measuring c.1m in diameter by 0.24m in depth. It had sloping sides and a rounded base and contained two fills. The lower fill (**125**) consisted of grey sandy silt and the upper fill (**126**) consisted of black clay-rich silt.
- Pit 127 was oval in plan, measuring 1.8m north-west to south-east by 1m north-east to south-west. It had irregular sloping sides and an irregular base and contained a single fill (128). The fill consisted of black clay-rich silt.
- Pit 129 was oval in plan, measuring 2.25m north-west to south-east by 1.4m north-east to south-west. It had sloping sides and a flat base and contained two fills. The lower fill (131) consisted of grey sandy silt and the upper fill (130) consisted of black clay-rich silt.

4. CONCLUSIONS

- 4.1 An archaeological watching brief and monitored topsoil strip carried out by CFA Archaeology Ltd during soil stripping for a gas pipeline identified nine sites (Site 1 Site 9). These sites were subject to a programme of archaeological excavation.
- 4.2 Site **1** Site **5** are situated within an area of heavy clay towards the northern end of the pipeline. All these features contained 19th century pottery and are considered to relate to 19th century agricultural improvements. Based on the narrow sample provided by this programme of works, this could imply that the area previously consisted of boggy moorland and was unsuitable for settlement prior to the extensive agricultural improvements carried out during the 19th century.
- 4.3 Site 7 consisted of a dark spread containing shattered limestone and charcoal, which was situated next to a small watercourse. This feature may have been a burnt mound of prehistoric date. Post excavation analysis is recommended on the soil sample recovered from this feature.
- 4.4 Site **8** and Site **9** all consisted of pit features. The gently sloping nature of the ground on which they were located together with the presence of a small watercourse nearby would potentially have made this an area suitable for prehistoric settlement. No dating evidence was recovered, but these sites are considered to have the potential to be prehistoric in date. Consequently, it is recommended that a programme of post-excavation analysis is carried out on the soil samples recovered.
- 4.5 A Costed Assessment for the recommended post-excavation analysis will be provided under separate cover.
- 4.6 The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and

- copies of reports will be lodged with the Stirlingshire Council Sites and Monuments Record.
- 4.7 A summary statement of the results of this watching brief will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 5).

5. REFERENCES

Ordnance Survey First Edition 6" map 1865, Stirlingshire Sheet XVIII, Scale 1:10,560

RSK Environment Ltd, Stirling Reinforcement Pipeline: Archaeological Desk-Based Assessment and Field Reconnaissance Survey

APPENDIX 1: Context Register

Context no.	Site	Description		
000	All	Natural		
001	All	Topsoil		
002	4	Brick drain		
003	4	Cut of ditch as viewed in plan		
004	4	Fill of ditch as viewed in plan		
005	4	Cut of ditch as viewed in plan		
006	4	Fill of ditch as viewed in plan		
007	4	Cut of Cut of ditch as viewed in plan		
008	4	Fill of ditch as viewed in plan		
009	4	Cut of ditch as viewed in plan		
010	4	Fill of ditch as viewed in plan		
011	4	Cut of ditch as viewed in plan		
012	4	Fill of ditch as viewed in plan		
013	4	Cut of ditch as viewed in plan		
014	4	Fill of ditch as viewed in plan		
015	4	Cut of ditch as viewed in plan		
016	4	Fill of ditch as viewed in plan		
017	4	Cut of ditch as viewed in plan		
018	4	Fill of ditch as viewed in plan		
019	4	Cut of ditch as viewed in plan		
020	4	Fill of ditch as viewed in plan		
021	4	Cut of ditch as viewed in plan		
022	4	Fill of ditch as viewed in plan		
023	4	Cut of ditch as viewed in plan		
024	4	Fill of ditch as viewed in plan		
025	4	Cut of section across ditch 003		
026	4	Fill of section 025		
027	4	Cut of section across ditch 005		
028	4	Fill of section 027		
029	4	Cut of section across ditch 007		
030	4	Lower fill of section 029		
031	4	Fill of section 029		
032	4	Fill of section 029		
033	4	Upper fill of section 029		
034	4	Cut of section across ditch 009		
035	4	Fill of section 034		
036	4	Cut of section across ditch 009		
037	4	Fill of section 036		
038	4	Cut of section across ditch 011		
039	4	Fill of section 038		
040	4	Cut of ditch cut by section 038		
041	4	Fill of ditch 040		
042	4	Cut of section across drain 017		
043	4	Fill of section 042		
044	4	Cut of section across ditch 019		
045	4	Fill of section 044		
046	4	Cut of section across ditch 021		
047	4	Fill of section 046		
048	4	Cut of section across ditch 023		
049	4	Fill of section 048		
050	4	Cut of section across ditch 052		
051	4	Fill of section 050		
052	4	Cut of ditch as viewed in plan		
053	4	Fill of ditch 052 as viewed in plan		
		•		

Context no.	Site	Description		
054	4	Cut of section across ditch 011		
055	4	Fill of section 054		
056	3	Cut of curvilinear feature as viewed in plan		
057	3	Fill of cut 056 as viewed in plan		
058	3	Cut of section across ditch 056		
059	3	Fill of section 058		
060	3	Cut of section across ditch 056		
061	3	Fill of section 060		
062	3	Cut of section across ditch 056		
063	3	Fill of section 062		
064	3	Cut of section across ditch 056		
065	3	Fill of section 064		
066	3	Cut of section across ditch 056		
067	3	Fill of section 066		
068	2	Cut of ditch as viewed in plan		
069	2	Fill of 069 as viewed in plan		
070	2	Cut of ditch as viewed in plan		
070	$\frac{1}{2}$	Fill of 071 as viewed in plan		
072	$\frac{2}{2}$	Cut of ditch as viewed in plan		
072	2	Fill of ditch 072 as viewed in plan		
073	2			
		Cut of section across ditch 068		
075	2	Primary fill of section 074		
076	2	Fill of section 074		
077	2	Upper fill of section 074		
078	2	Cut of section across ditch 068		
079	2	Primary fill of section 078		
080	2	Fill of section 078		
081	2	Upper fill of section 078		
082	2	Cut of section across ditch 070		
083	2	Fill of 082		
084	2	Cut of section across ditch 070		
085	2	Fill of 084		
086	2	Cut of section across ditch 070		
087	2	Fill of 086		
088	2	Cut of section across ditch 072		
089	2	Fill of 088		
090	2	Cut of section across ditch 072		
091	2	Fill of 090		
092	1	Cut of ditch containing field drain		
093	1	Primary fill of 092		
094	1	Material overlying pipe in cut 092		
095	1	Fill of 092		
096	1	Upper fill of 092		
097	1	Cut of shallow linear feature		
098	1	Fill of shallows linear feature 097		
099	5	Cut of ditch		
100	5	Fill of 099		
101	5	Cut of ditch		
102	5	Primary fill of 101		
103	5	Upper fill of 101		
104	5	Cut of deep ditch		
105	5	Primary fill of 104		
106	5	Upper fill of 104		
107	8	Cut of pit		
108	8	Fill of pit		
109	8	Cut of pit		
110	8	Fill of pit		
	•	•		

Context no.	Site	Description	
111	8	Cut of pit	
112	8	Fill of pit	
113	8	Cut of pit	
114	8	Primary fill of pit	
115	8	Secondary fill of pit	
116	7	Cut of shallow pit	
117	7	Fill of shallow pit- black silt containing numerous pieces of angular	
		sandstone	
118	6	Cut of pit	
119	6	Primary fill of pit	
120	6	Upper fill of pit	
121	9	Cut of pit	
122	9	Primary fill of pit 121- grey sand	
123	9	Upper fill of pit 121- black silt	
124	9	Cut of pit	
125	9	Primary fill of pit 124	
126	9	Upper fill of pit 124	
127	9	Cut of pit	
128	9	Fill of pit 127- black silt	
129	9	Cut of pit	
130	9	Upper fill of 129	
131	9	Lower fill of 129	

APPENDIX 2: Photographic Register

Colour Slide: Film 1

Shot	Description	From	Conditions
1-2	Registration shot		
3-4	Brick built drain 002	Е	
5-6	Section 025 across ditch 003	Е	
7-8	Section 025 across ditch 003	S	
9-10	Section 027 across ditch 005	N	
11-12	Section 029 across ditch 007	N	
13-14	Section 034 across ditch 009	Е	
15-16	Section 036 across ditch 009	S	
17-18	Section 038 across ditch 011	N	
19-20	Section 044 across ditch 019	N	
21-22	Section 046 across ditch 021	N	
23-24	Section 048 across ditch 023	N	
25-26	Section 054 across ditch 011	N	
27-28	Bricks 002 and ditch 009	S	
29-30	Bricks 002 and ditch 009	Е	
31-36	Post-ex panorama of site	NE	

Colour Slide: Film 2

Shot	Description	From	Conditions
1-2	Registration shot		
3-4	Section 058 across ditch 056	S	Overcast
5-6	Section 060 across ditch 056	SE	Overcast
7-8	Section 062 across ditch 056	E	Sun
9-10	Section 064 across ditch 056	SW	Overcast
11-12	Section 066 across ditch 056	NE	Overcast

Colour Slide: Film 3

Shot	Description	From	Conditions
1-2	Section 074 across ditch 068	S	Overcast
3-4	Section 078 across ditch 068	NW	Overcast
5-6	Section 082 across ditch 070	NE	Overcast
7-8	Section 084 across ditch 070	NE	Overcast
9-10	Section 086 across ditch 070	NE	Overcast
11-12	Section 088 across ditch 072	NE	Overcast
13-14	Section 090 across ditch 072	NE	Overcast
15-16	Section 092	SSW	Sun
17-18	Section 097	N	Sun
19-20	Section 099	NE	Overcast
21-22	Section 101	SW	Overcast
23-24	Section 104	NE	Overcast
25-26	Pit 107	SE	Sun
27-28	Pit 109	NW	Sun
29-30	Pit 111	WNW	Sun
31	Waste		
32-33	Pit 113	Е	Sun
34-35	Shallow pit 116, north facing section	N	Sun
36-37	Shallow pit 116, west facing section	W	Sun

Colour Slide: Film 4

Shot	Description	From	Conditions
1-2	Pit 118 NE facing section	NE	Sun
3-4	Pit 127, NW facing section	NW	Overcast
5-6	Pit 127, NE facing section	NE	Overcast
7-8	Pit 127, SE facing section	Se	Overcast
9-10	Pit 127, SW facing section	SE	Overcast
11-12	Pit 124, N facing section	N	Overcast
13-14	Pit 121, E facing section	E	Overcast
15-16	Pit 129, SW facing section	SW	Overcast
17-18	Pit 129, NW facing section	NW	Overcast
19-20	Pit 129, NE facing section	NE	Overcast
21-22	Pit 129, SE facing section	SE	Overcast

Digital

Shot	Description	From	Conditions
1-2	Registration shot		
3-4	Brick built drain 002	E	
5-6	Section 025 across ditch 003	E	
7-8	Section 025 across ditch 003	S	
9-10	Section 027 across ditch 005	N	
11-12	Section 029 across ditch 007	N	
13-14	Section 034 across ditch 009	Е	
15-16	Section 036 across ditch 009	S	
17-18	Section 038 across ditch 011	N	
19-20	Section 044 across ditch 019	N	
21-22	Section 046 across ditch 021	N	
23-24	Section 048 across ditch 023	N	
25-26	Section 054 across ditch 011	N	
27-28	Bricks 002 and ditch 009	S	

29-30	Bricks 002 and ditch 009	Е	
31-36	Post-ex panorama of site	NE	
37-38	Section 058 across ditch 056	S	Overcast
39-40	Section 060 across ditch 056	SE	Overcast
41-42	Section 062 across ditch 056	Е	Sun
43-44	Section 064 across ditch 056	SW	Overcast
45-46	Section 066 across ditch 056	NE	Overcast
47-48	Section 074 across ditch 068	S	Overcast
49-50	Section 078 across ditch 068	NW	Overcast
51-52	Section 082 across ditch 070	NE	Overcast
53-54	Section 084 across ditch 070	NE	Overcast
55-56	Section 086 across ditch 070	NE	Overcast
57-58	Section 088 across ditch 072	NE	Overcast
59-60	Section 090 across ditch 072	NE	Overcast
61-62	Section 092	SSW	Sun
63-64	Section 097	N	Sun
65-66	Section 099	NE	Overcast
67-68	Section 101	SW	Overcast
69-70	Section 104	NE	Overcast
71-72	Pit 107	SE	Sun
73-74	Pit 109	NW	Sun
75-76	Pit 111	WNW	Sun
77-78	Pit 113	Е	Sun
79-80	Shallow pit 116, north facing section	N	Sun
81-82	Shallow pit 116, west facing section	W	Sun
83-84	Pit 118 NE facing section	NE	Sun
85-86	Pit 127, NW facing section	NW	Overcast
87-88	Pit 127, NE facing section	NE	Overcast
89-90	Pit 127, SE facing section	Se	Overcast
91-92	Pit 127, SW facing section	SE	Overcast
93-94	Pit 124, N facing section	N	Overcast
95-96	Pit 121, E facing section	Е	Overcast
97-98	Pit 129, SW facing section	SW	Overcast
99-100	Pit 129, NW facing section	NW	Overcast
101-102	Pit 129, NE facing section	NE	Overcast
103-104	Pit 129, SE facing section	SE	Overcast

APPENDIX 3: Drawings Register

Sheet No	Drawing No	Scale	Section/Plan	Contexts
1	1	1:20	Section	Site 2: Section 074 (SW facing) across ditch
				068
1	2	1:20	Section	Site 2: Section 078 (N facing) across ditch
				068
1	3	1:20	Section	Site 2: Section 082 (E facing) across ditch
				070
1	4	1:20	Section	Site 2: Section 084 (E facing) across ditch
				070
1	5	1:20	Section	Site 2: Section 086 (ESE facing) across ditch
				070
1	6	1:20	Section	Site 2: Section 088 (ENE facing) across
				ditch 072
1	7	1:20	Section	Site 2: Section 090 (E facing) across ditch
				072
1	8	1:20	Section	Site 1: Ditch 092 (SSW facing section)
1	9	1:20	Section	Site 1: Ditch 097 (N facing section)

Sheet No	Drawing No	Scale	Section/Plan	Contexts
1	10	1:20	Section	Site 5: Ditch 104 (SW facing section)
1	11	1:20	Section	Site 5: Ditch 099 (NE facing section)
1	12	1:20	Section	Site 5: Ditch 101 (SW facing section)
1	13	1:50	Plan	Site 5: Plan of ditches 099 , 101 and 104
2	14	1:50	Plan	Site 2: Plan of ditches 068 , 070 and 072
3	15	1:50	Plan	Site 3: Plan of ditch 056
4	16	1:10	Section	Site 3: Section 058 (S facing) across ditch
				056
4	17	1:10	Section	Site 3: Section 060 (SE facing) across ditch 056
4	18	1:10	Section	Site 3: Section 062 (E facing) across ditch 056
4	19	1:10	Section	Site 3: Section 064 (NE facing) across ditch 056
4	20	1:10	Section	Site 3: Section 066 (NE facing) across ditch 056
5A – 5C	21	1:50	Plan	Site 4: Plan of ditches 003, 005, 007, 009, 011, 013, 015, 017, 019, 021, 023 and 052
6	22	1:20	Section	Site 6, Pit 118, NE facing section
6	23	1:20	Plan	Site 6: Pit 118, plan
6	24	1:20	Section	Site 7: Spread 117, WNW facing half
				section
6	25	1:20	Section	Site 7: Spread 117, NNE facing half section
6	26	1:50	Plan	Site 7: Plan of spread 117
7	27	1:50	Plan	Site 8: Plan of pits 107 , 109 , 111 and 113
7	28	1:20	Section	Site 8: Pit 111, WNW facing section
7	29	1:20	Section	Site 8: Pit 109 , NW facing section
7	30	1:20	Section	Site 8: Pit 107 , SE facing section
7	31	1:20	Section	Site 8: Pit 113 , E facing section
8	32	1:50	Plan	Site 9: Plan of pits 121 , 124 , 127 and 129
8	33	1:20	Section	Site 9: Pit 124 , N facing section
8	34	1:20	Section	Site 9: Pit 121 , SSE facing section
8	35	1:20	Section	Site 9: Pit 127, W facing half section
8	36	1:20	Section	Site 9: Pit 127 , N facing half section
8	37	1:20	Section	Site 9: Pit 127 , E facing half section
8	38	1:20	Section	Site 9: Pit 127 , S facing half section
8	39	1:20	Section	Site 9: Pit 129 , W facing half section
8	40	1:20	Section	Site 9: Pit 129 , N facing half section
8	41	1:20	Section	Site 9: Pit 129 , E facing half section
8	42	1:20	Section	Site 9: Pit 129 , S facing half section
Day Book	43	1:20	Plan	Site 4: Brick surface 002
Day Book	44	1:10	Section	Site 4: Half section 025 (E facing) across ditch 003
Day Book	45	1:10	Section	Site 4: Half section 025 (S facing) across ditch 003
Day Book	46	1:10	Section	Site 4: Section 027 (N facing) across ditch 005
Day Book	47	1:10	Section	Site 4: Section 029 (N facing) across ditch 007
Day Book	48	1:10	Section	Site 4: Section 034 (E facing) across ditch 009
Day Book	49	1:10	Section	Site 4: Section 036 (S facing) across ditch 009
Day Book	50	1:10	Section	Site 4: Section 038 (N facing) across ditch 011
Day Book	51	1:10	Section	Site 4: Section 042 (E facing) across drain 017

Sheet No	Drawing No	Scale	Section/Plan	Contexts
Day Book	52	1:10	Section	Site 4: Section 044 (N facing) across ditch 019
Day Book	53	1:10	Section	Site 4: Section 046 (N facing) across ditch 021
Day Book	54	1:10	Section	Site 4: Section 048 (N facing) across ditch 005
Day Book	55	1:10	Section	Site 4: Section 050 (S facing) across ditch 052
Day Book	56	1:10	Section	Site 4: Section 054 (NE facing) across ditch 011

APPENDIX 4: Samples Register

Sample no.	Context	Site	Comment	Size
1	073	2	Grey brown clay rich silt	10L
2	057	3	Grey brown clay rich silt	10L
3	119/120	6	Mid brown clay rich sand	10L
4	117	7	Black silt containing shattered limestone	10L
5	108	8	Dark brown sandy silt	10L
6	110	8	Dark brown sandy silt	10L
7	112	8	Dark brown sandy silt mixed with pink clay	10L
8	114/115	8	Fine grey sand	10L
9	122/123	9	Black clay rich silt	10L
10	125/126	9	Grey sandy clay/black clay rich silt	10L
11	128	9	Black clay rich silt	10L
12	130	9	Black clay rich silt	10L

APPENDIX 5: Site Gazetteer

Site	NGR:	NGR:	Comment
Number	Easting	Northing	
1	283476	690569	Two parallel ditches, both of which are attributed to 19 th C.
			agricultural improvement
2	283534	690522	Three curving ditches, both attributed to 19 th C. agricultural
			improvement
3	283586	690476	A curvilinear ditch and terminus attributed to 19 th C.
			agricultural practice
4	283796	690437	Twelve linear drainage features, located south of
			'Westermoss' farmstead which is depicted on the Ordnance
			Survey 1865 1 st Ed
5	283651	690418	Three parallel ditches, two are drainage features. Ditch 104
			field boundary depicted on the Ordnance Survey 1865 1 st Ed.
6	285390	688491	A small circular isolated pit, purpose and date unknown
7	285387	688441	Spread of heat affected limestone fragments with charcoal
			intermixed. Located close to a watercourse and potentially a
			burnt mound of prehistoric origin
8	285366	688315	Cluster of four small pits or postholes, purpose unknown.
			However a broad date of prehistoric origin is suspected
9	285283	687728	Cluster of four irregular pits; purpose unknown. However a
			broad date of prehistoric origin is suspected

APPENDIX 6: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	Stirlingshire Council		
PROJECT TITLE/SITE NAME:	Stirling Reinforcement Pipeline, Cowie, Stirlingshire		
PROJECT CODE:	STPI		
PARISH:	St Ninians		
NAME OF CONTRIBUTOR:	Magnus Kirby		
NAME OF ORGANISATION:	CFA Archaeology Ltd		
TYPE(S) OF PROJECT:	Watching brief/Monitored Topsoil Stripping/Excavation		
NMRS NO(S):	N/A		
SITE/MONUMENT TYPE(S):	N/A		
SIGNIFICANT FINDS:	None		
NGR (2 letters, 6 figures)	NS 8321 9080 to NS 8524 8750		
START DATE (this season)	August 2008		
END DATE (this season)	September 2008		
PREVIOUS WORK (incl. DES ref.)	N/A		
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological watching brief and monitored topsoil strip carried out during groundworks for a gas pipeline identified nine archaeological sites, five of which are believed to relate to 19 th century agricultural improvements. The remaining sites consisted of two concentrations of four pits, an isolated pit and a spread of shattered limestone situated close to a small watercourse. The shattered limestone appeared to be fire-cracked and may be the remains of a burnt mound. The pits did not contain any datable material, but soil samples were retained for analysis.		
PROPOSED FUTURE WORK:	Post excavation analysis of soil samples		
CAPTION(S) FOR ILLUSTRS:	N/A		
SPONSOR OR FUNDING BODY:	Land and Marine Project Engineering Ltd		
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, East Lothian, EH21 7PQ		
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk		
ARCHIVE LOCATION (intended/deposited)	National Monuments Record for Scotland (NMRS) Stirlingshire Council Sites and Monuments Record (SMR)		









Key:

Site Location

Pipeline

CFA ARCHAEOLOGY The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ

Fig. No: 1B Revision:

t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uw: www.cfa-archaeology.co.

Location Map of Sites Southern End

Stirling Reinforcement Pipeline, Cowie

Scale:

1:10,000 @ A3

Land & Marine Project Engineering Ltd



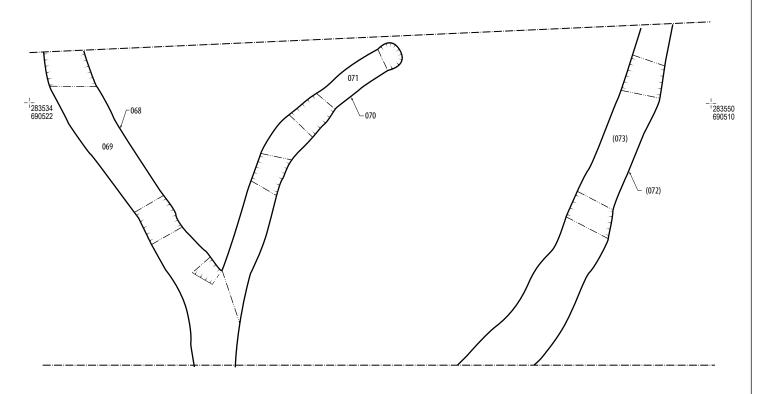


Fig 2 - Plan of Site 2

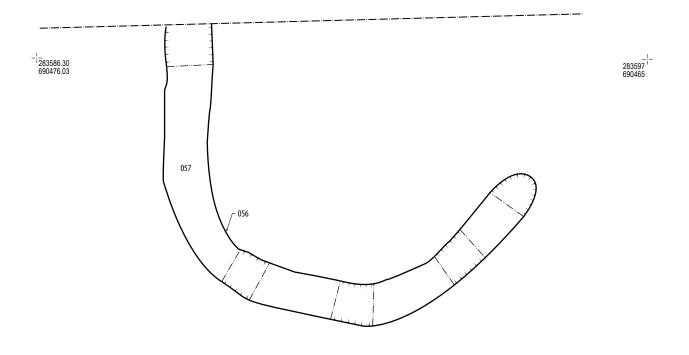
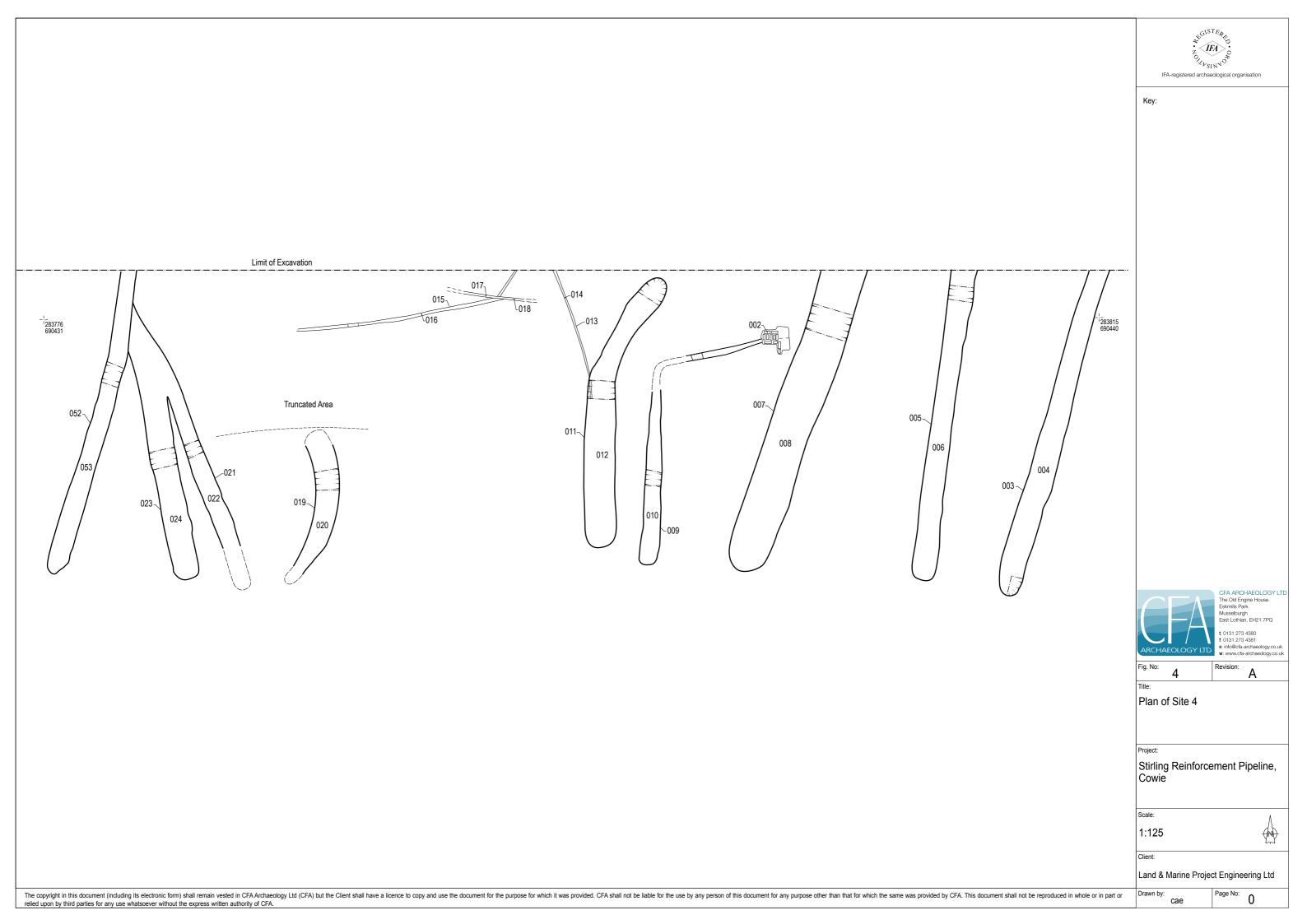
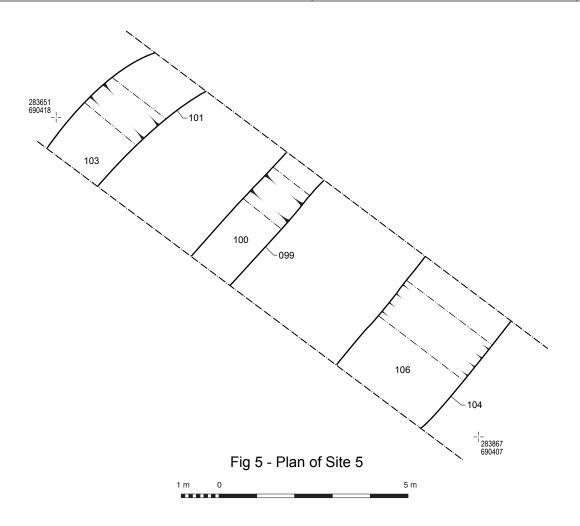


Fig 3 - Plan of Site 3

Key:	Fig. No: 2-3 Revision: A Client: Land & Marine Project Engineering Ltd Title: Plans of Sites 2 & 3		CEA	CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380		
Scale:	Project: Stirling Reinforcement Pipeline, Cowie			ARCHAEOLOGY LTD Drawn by:	f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk	
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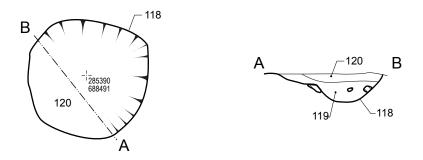


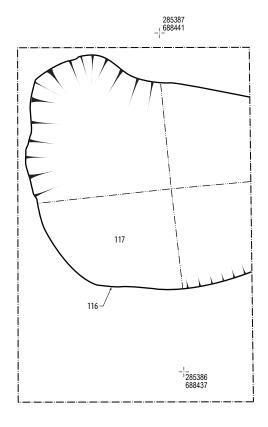
Fig 6 - Pit 118, plan and NE facing section

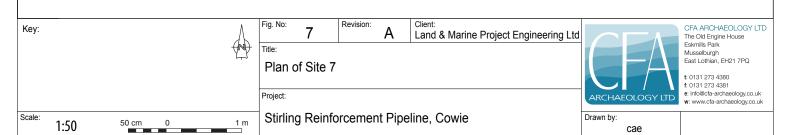


Key:	Fig. No: 5-6 Revision: A Client: Land & Marine Project Engineering Ltd Title: Plan of Site 5 and Pit 118		CFA	CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ t: 0131 273 4380 f: 0131 273 4381	
	Project:			ARCHAEOLOGY LTD	e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk
Scale: As Above	Stirling Reinfo	rcement Pipe	line, Cowie	Drawn by:	

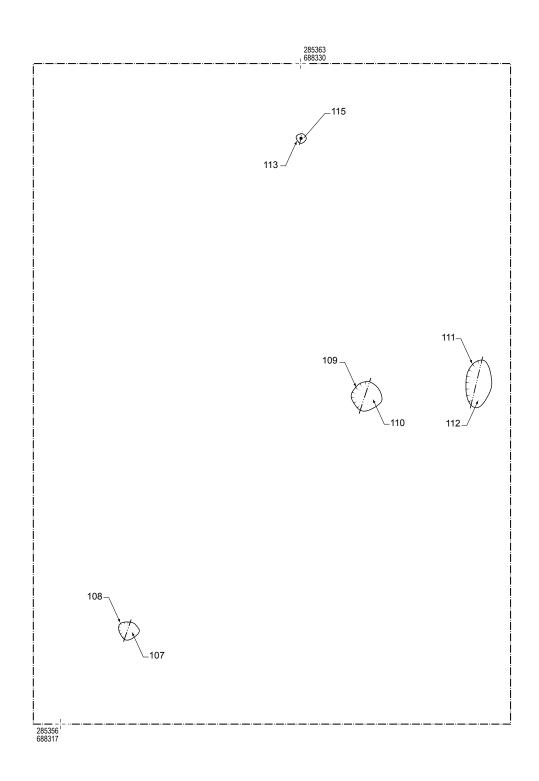
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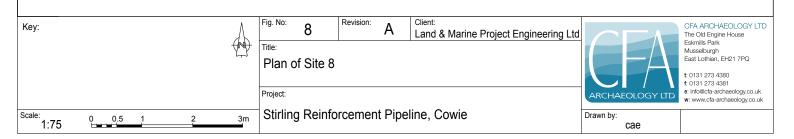






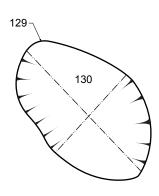


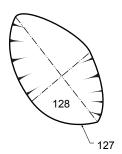


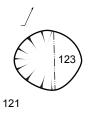


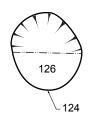


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Fig. No: Revision: Client: CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ Key: 9 Α Land & Marine Project Engineering Ltd Title: Plan of Site 9 t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk Stirling Reinforcement Pipeline, Cowie Drawn by: 50 cm 0 1:50 cae



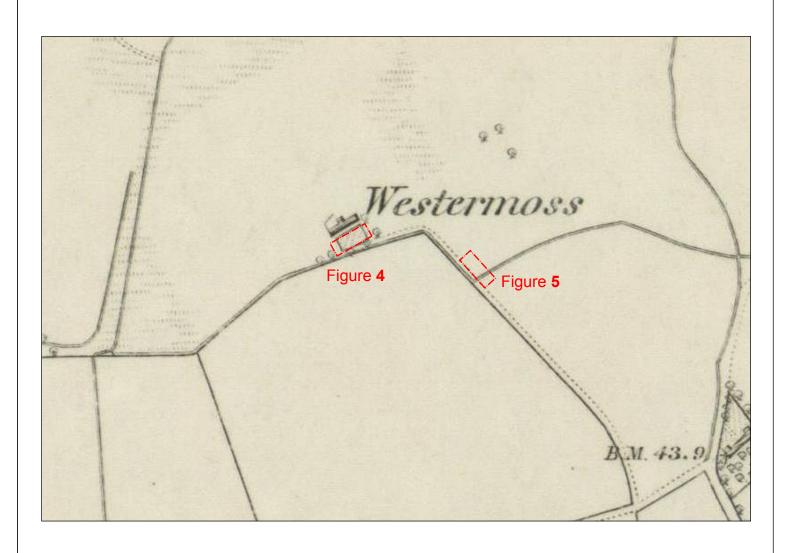


Fig. No: 10 Revision:

Client:

Land & Marine Project Engineering Ltd

First Edition Ordnance Survey map (1865) showing location of Wester Moss farm buildings

Stirling Reinforcement Pipeline, Cowie



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