

### AIR PHOTOGRAPHIC ASSESSMENT LAND AT COATES ROAD EASTREA CAMBRIDGESHIRE

Work Undertaken For The Robert Doughty Consultancy and Rose Homes (EA) Ltd

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ARCHAEOLOGICAL PROJECT SERVICES





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#### 1. SUMMARY

This aerial photographic assessment examined a radius of 500m around a proposed residential development site at Coates Road, Eastrea, Cambridgeshire in order to identify and accurately map archaeological and natural features.

The site is well served with low-level oblique coverage (although largely focused on the Scheduled site just to the north) allowing a good selection of photographs from which to plot features.

Cropmarks are very evident on the photographs within the site boundary and immediate environs. However, most of the visible cropmarks are an expression of underlying geological variation and few archaeological features can be confidently identified within the site. A number of straight and narrow marks suggest elements of a rectilinear field system, including a possible double-ditched trackway. Two large ring-ditches are evident to the north and to the south with a smaller to the east. Other features to the north have been previously identified as possible sunken-featured buildings. To the west the line of the Fen Causeway can be seen crossing the low-lying ground between Whittlesey and Eastrea.

#### 2. INTRODUCTION

Archaeological Project Services was commissioned by The Robert Doughty Consultancy, on behalf of Rose Homes (EA) Ltd, to undertake aerial photographic assessment of the area of a proposed residential development at Coates Road, Eastrea, Cambridgeshire. The assessment examined a radius of 500m around the site in order to identify and accurately map archaeological and natural features.

#### 2.1 Topography and Geology

Eastrea lies 10km east of Peterborough in the Fenland district of Cambridgeshire. The proposed development area lies on the eastern edge of the village comprising a block of land of c. 7500m<sup>2</sup> on the south side of Coates Road, centred on TL 2969 9725 (Fig. 1).

The site lies at c. 5m O.D. on the island of gravel south of the River Nene that gives the village its name; 'east' in relation to the larger island of Whittlesey to the west

# 2.2 Mapping features from aerial photography

Aerial photography can identify archaeological features in cultivated land through two principal mechanisms which offer different responses at different times of the year (Palmer and Cox 1993).

Cereal crops are particularly responsive to variations in moisture levels due to underlying archaeological features and these can show as colour differences in the ripening crop. The best response tends to be in the early summer months of June and July. In good conditions linear ditched features and even individual pits can be clearly visible, but responses can be influenced by a number of factors. The absence of cropmarks does not necessarily indicate an absence of archaeological features.

Archaeological features can also sometimes be distinguished as differences in soil colour in winter months in ploughed fields or when crop cover is low. This is also the best time of year to pick out features surviving as earthworks. especially in uncultivated land, with the low angle of the sun showing up subtle height differences which would not be visible at other times of year.

The most informative photographs tend to those resulting from specialist be reconnaissance undertaken when conditions for cropmark formation are at their best. Photographs are generally taken with a hand-held camera and the resulting 'oblique' views can offer great detail of significant sites. However, coverage is inevitably biased towards the more obvious or readily understandable sites. As long as sufficient control information is included within the view these can generally be very accurately mapped.

Systematic vertical photography has been undertaken by a variety of bodies, including the RAF and Ordnance Survey. These are taken with a fixed camera in a series of overlapping views. The whole of England has been covered from 1946 onwards. Generally a series of photographs of different dates will be available for a study area. However, these may not have been taken at optimum times of the year for distinguishing archaeological features and are often relatively small scale leading to difficulties in interpretation and accurate mapping.

#### 3. METHODS

#### 3.1 Cover search

Searches for aerial photographic coverage were obtained from the Cambridge University Collection of Air Photographs (CUCAP) and the National Monuments Record (NMR). Nine oblique and six vertical photographs were identified in the CUCAP collection. NMR coversearch returned more records: thirty obliques and one hundred and four vertical images from twenty-one sorties. Appendix 1 provides a full listing; the most informative photographs are listed below.

Oblique coverage is good, with photographs ranging in date from 1972 to

2008, although most are targeted on the Scheduled site just to the north (CB109). Vertical coverage is more systematic, as would be expected, but less detailed. No additional detail was visible within the site and given the number of good oblique photographs available all plotting has been undertaken from this coverage.

#### 3.2 Interpretation and mapping

Photographs were examined by eye and under slight magnification where appropriate. Digital scans and laser copies of the most informative photographs were obtained and selected photographs rectified against 1:1250 base-mapping using Air Photo 3.37. Rectified images were imported into DesignCad and features plotted onto the map base using standard conventions.

The following photographs form the basis of the interpretative plot with detail checked against other photographs where necessary:

BKY006 BNI071 TL2997/1 TL2997/2 TL2997/15 TL2997/20

#### 4. RESULTS

The results are shown on Figure 2. Drawing conventions are as follows:

Green Archaeological feature Yellow Natural feature Black dashed Field boundary

#### 4.1 Natural features

Aerial photography shows extensive patterning due to periglacial ice-cracks in the gravels. These are generally wider and

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more diffuse than archaeological features, but their form varies from quite sinuous to polygonal and relatively straight leading to difficulties in the interpretation of the straighter and narrower marks. These are more widespread than the potential archaeological features but have only been mapped in detail where they interpretation of the archaeological cropmarks.

#### 4.2 Archaeological features

Within the boundaries of the proposed development site a number of straight and narrow marks suggest elements of a rectilinear field system, including a possible double-ditched trackway. This field system perhaps extends to the south and east, however it might be noted that the alignment is somewhat oblique to the presumed line of the Fen Causeway here (perhaps underneath the extant Coates Road which is distinctly raised).

Two possible ring-ditches are also plotted just to the south and east of the development area. The former is 23m across, the latter just 8.3m in diameter. North of the site, and of Coates Road, a further ring ditch, some 35m in diameter, is also evident. A series of sub-rectangular marks here have previously interpreted as possible Saxon sunkenbuildings (and this Scheduled as a result). These are generally 2m-3m across and 3m-4m in length showing as quite sharply rectangular in photographs (e.g. TL2997/1). However, looking at the wider landscape these are difficult to distinguish from other isolated 'dark blobs'; some further ground evidence might assist (cf Hall 1987, 59 and Plate XIII).

#### 5. CONCLUSIONS

Air photographic assessment has identified elements of a possible rectilinear field system and trackway within the development site. These lie within a wider landscape containing features of possible prehistoric, Roman and Saxon date. There is no direct indication that features of other date would extend into the site. However, extensive patterning due to geological effects makes interpretation difficult and could obscure other features.

#### 6. ACKNOWLEDGEMENTS

Archaeological Project Services wish to acknowledge the assistance of staff at CUCAP and the NMR who were helpful in arranging visits and providing searches and copies of photographs. The project was coordinated by Gary Taylor; the report was edited by Gary Taylor and Tom Lane.

#### 7. BIBLIOGRAPHY

Hall, D. 1987 The Fenland Project, Number 2: Cambridgeshire Survey, Peterborough to March, EAA 35, Cambridge

Palmer, R. and Cox, C. 1993 *Uses of aerial photography in archaeological evaluations*. IFA technical paper **12**.

#### 8. ABBREVIATIONS

APS Archaeological Project Services

CUCAP Cambridge University Collection of Air Photographs

IFA Institute of Field Archaeologists

NMR National monuments Record

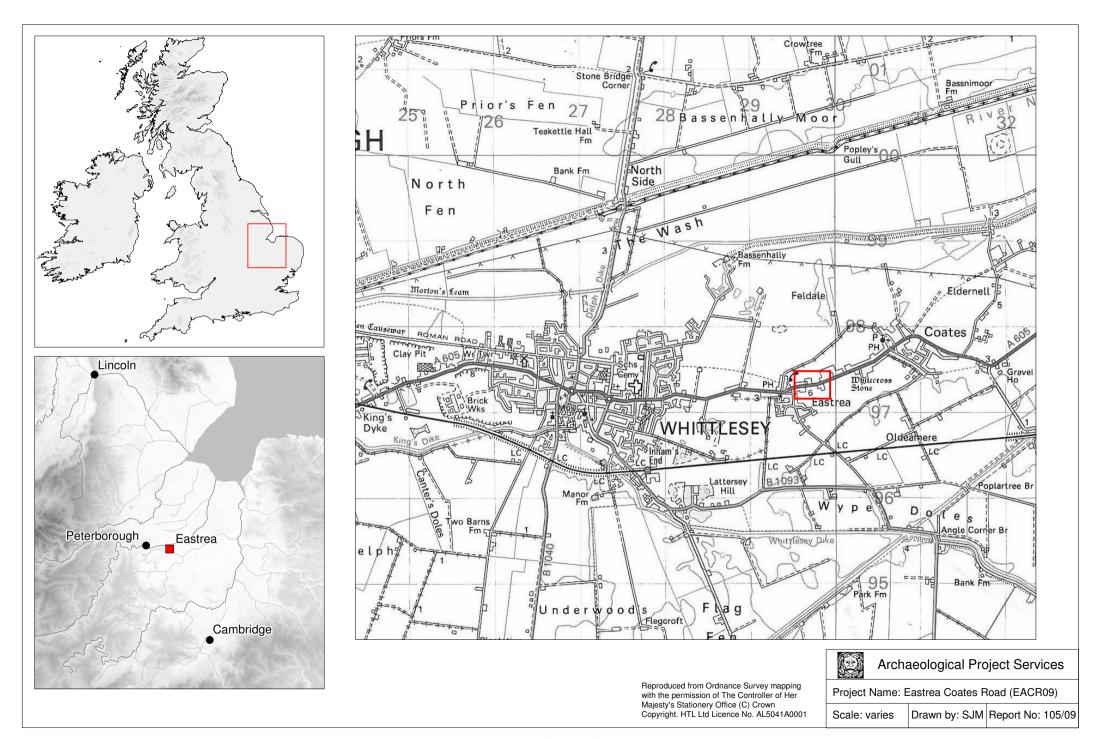


Figure 1 Site location map

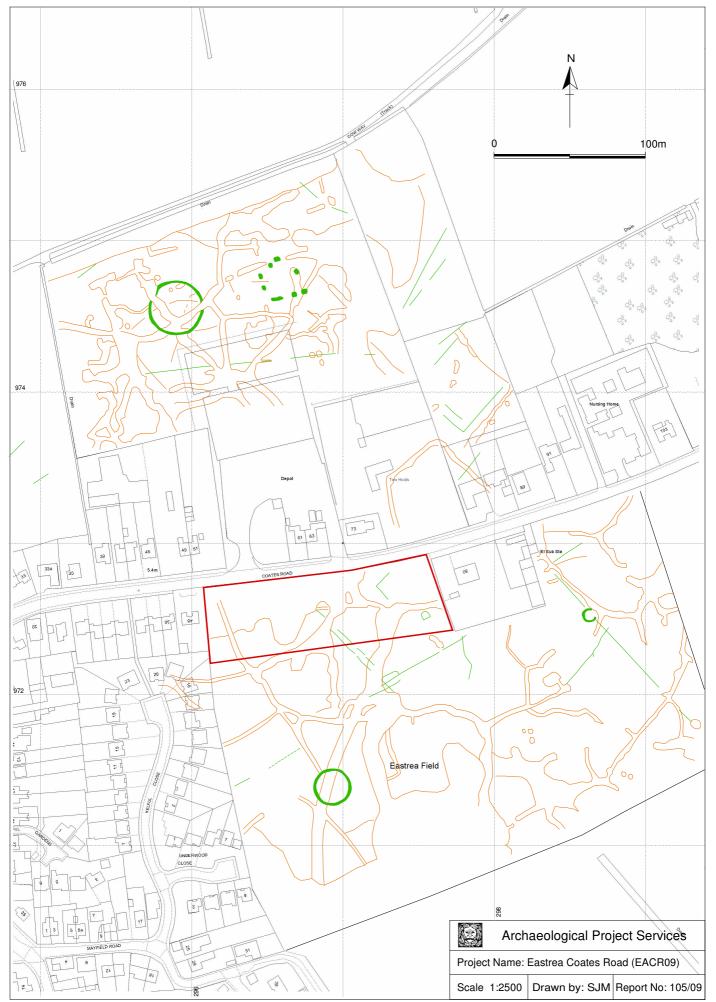


Figure 2 Plot of archaeolological (green) and natural (orange) features; site boundary in red



Plate 1 NMR photograph TL2997/20. 14 JUL 1994. Looking west along Coates Road; development site on the left opposite the depot.



Plate 2 NMR photograph TL2997/1. 20 JUL 1976. Looking north.

### Appendix Air-Photographic Coversearch

## Cambridge University Collection of Air Photographs

Oblique photographs

PHOTO_ID	PHOTO_SUBJ	VIEW_DIRN	PHOTO_DATE	PHOTO_TIME	NGRE	NGRN
BKY6	Cropmarks, Eastrea, 1.75 miles E of Whittlesey		Sat, 21 Oct 1972	a.m.	529700	297200
BKY7	Cropmarks, Eastrea, 1.75 miles E of Whittlesey		Sat, 21 Oct 1972	a.m.	529600	297400
BKY8	Cropmarks, Eastrea, 1.75 miles E of Whittlesey		Sat, 21 Oct 1972	a.m.	529600	297400
BLT71	Soil marks, 1.5 miles E of Whittlesey		Fri, 9 Feb 1973	a.m.	529200	297300
BLT72	Soil marks, 1.5 miles E of Whittlesey		Fri, 9 Feb 1973	a.m.	529200	297300
BNI70	Crop marks, 1.75 miles E of Whittlesey		Sat, 16 Jun 1973	a.m.	529600	297400
BNI71	Crop marks, 1.75 miles E of Whittlesey		Sat, 16 Jun 1973	a.m.	529600	297400
BNI72	Crop marks, 1.5 miles E of Whittlesey		Sat, 16 Jun 1973	a.m.	529200	297300
BNI73	Crop marks, 1.5 miles E of Whittlesey		Sat, 16 Jun 1973	a.m.	529200	297300

### Vertical photographs

PHOTO_ID	PHOTO_SUBJ	FILM TYPE	PHOTO DATE	PHOTO SCALE	CLOUD	NGRE	NGRN
RC8AT231	Soil survey area, Fenland	B&w	Sat, 17 May 1975	13650	none	529917	297081
RC8EE257	Fenland Survey	B&w	Wed, 24 Mar 1982	10000	none	529973	296851
RC8knBl096	Cambridgeshire	Col	Mon, 13 Jun 1988	10000	none	529328	297407
RC8MB113	Crop marks and crop patterns near Whittlesey	B&w	Wed, 25 Jul 1990	5000	none	529357	297102
RC8MB114	Crop marks and crop patterns near Whittlesey	B&w	Wed, 25 Jul 1990	5000	none	529690	297155
RC8MB115	Crop marks and crop patterns near Whittlesey	B&w	Wed, 25 Jul 1990	5000	none	530133	297257

#### National Monument Record

### Specialist collection

NGR Index No	Film and F	rame No	Date Flown	Film	6 Fig NGR	Note
TL 2997 / 1	NLA 9915	/ TL2997A	20 JUL 1976	Black& white	TL 296974	
TL 2997 / 2	NMR 963	/ 135-139	11 JUL 1976	Black& white	TL 298974	
TL 2997 / 3	NMR 1960	/ 072	03 JUL 1981	Black& white	TL 298973	
TL 2997 / 4	NMR 1960	/ 074	03 JUL 1981	Black& white	TL 297973	
TL 2997 / 5	CCC 5217	/ 527	1930s	Black& white	TL 298973	
TL 2997 / 6	NMR 4235	/ 01	09 SEP 1988	Black& white	TL 296974	
TL 2997 / 7	NMR 4235	/ 02	09 SEP 1988	Black& white	TL 296974	
TL 2997 / 8	NMR 4235	/ 03	09 SEP 1988	Black& white	TL 296974	
TL 2997 / 9	NMR 4235	/ 04	09 SEP 1988	Black& white	TL 296974	
TL 2997 / 10	NMR 4246	/ 02	09 SEP 1988	Colour slide	TL 296974	

TL 2997 / 11	NMR 4246	/ 03	09 SEP 1988	Colour slide	TL 296974
TL 2997 / 12	NMR 4246	/ 04	09 SEP 1988	Colour slide	TL 296974
TL 2997 / 13	NMR 1960	/ 073	03 JUL 1981	Black& white	TL 298973
TL 2997 / 14	NMR 1960	/ 075	03 JUL 1981	Black& white	TL 297973
TL 2997 / 15	NMR 15117	/ 43	14 JUL 1994	Black& white	TL 297972
TL 2997 / 16	NMR 15117	/ 44	14 JUL 1994	Black& white	TL 297972
TL 2997 / 17	NMR 15117	/ 45	14 JUL 1994	Black& white	TL 296973
TL 2997 / 18	NMR 15117	/ 46	14 JUL 1994	Black& white	TL 296973
TL 2997 / 19	NMR 15117	/ 47	14 JUL 1994	Black& white	TL 297973
TL 2997 / 20	NMR 15127	/ 19	14 JUL 1994	Colour slide	TL 296973
TL 2997 / 21	NMR 26120	/ 38	09 OCT 2008	Digital colour	TL 296974
TL 2997 / 22	NMR 26120	/ 39	09 OCT 2008	Digital colour	TL 296974
TL 2997 / 23	NMR 26120	/ 40	09 OCT 2008	Digital colour	TL 296974
TL 2997 / 24	NMR 26052	/ 08	01 JUL 2008	Digital colour	TL 296974
TL 2997 / 25	NMR 26052	/ 09	01 JUL 2008	Digital colour	TL 295973
TL 2997 / 26	NMR 26052	/ 10	01 JUL 2008	Digital colour	TL 296974
TL 2997 / 27	NMR 26052	/ 11	01 JUL 2008	Digital colour	TL 296974
TL 2997 / 28	NMR 26052	/ 12	01 JUL 2008	Digital colour	TL 296974
TL 2997 / 29	NMR 26052	/ 13	01 JUL 2008	Digital colour	TL 296974
TL 2997 / 30	NMR 26052	/ 14	01 JUL 2008	Digital colour	TL 296974

Sortie number	Library number	Camera position	Frame number	Held	Centre point	Run	Date	Sortie quality	Scale 1:	Focal length (in inches)	Film details (in inches)	Film held by
RAF/106G/UK/928	118	RS	4060	P	TL 297 970	15	16 OCT 1945	Α	10200	20	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/928	118	RS	4061	Р	TL 290 970	15	16 OCT 1945	Α	10200	20	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/928	118	RS	4062	Р	TL 284 970	15	16 OCT 1945	Α	10200	20	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	FP	1266	Р	TL 288 968	6	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	FP	1267	Р	TL 294 970	6	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	FP	1268	Р	TL 301 972	6	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	FP	1269	Р	TL 307 974	6	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	RP	3258	Р	TL 302 979	19	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	RP	3259	Р	TL 296 979	19	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	RP	3260	Р	TL 290 978	19	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F21	153	Р	TL 294 964	4	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F21	154	Р	TL 301 964	4	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F21	155	Р	TL 308 963	4	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F22	170	N	TL 307 969	12	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F22	171	N	TL 301 969	12	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/865	1513	F22	172	N	TL 295 968	12	08 MAR 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR

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RAF/540/1312	1534	F21	36	Р	TL 302 969	2	26 MAY 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/1312	1534	F21	37	Р	TL 295 970	2	26 MAY 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/1312	1534	F21	38	Р	TL 287 971	2	26 MAY 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/1312	1534	F22	25	Р	TL 292 979	15	26 MAY 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/1312	1534	F22	26	Р	TL 300 979	15	26 MAY 1954	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/543/1107	2001	1F41	218	Р	TL 298 980	14	05 NOV 1960	Α	4000	20	Black and White 8.25 x 7.5	MOD
RAF/543/1107	2001	1F41	219	Р	TL 295 979	14	05 NOV 1960	Α	4000	20	Black and White 8.25 x 7.5	MOD
RAF/543/1107	2001	1F41	220	Р	TL 292 978	14	05 NOV 1960	Α	4000	20	Black and White 8.25 x 7.5	MOD
RAF/58/5164	2084	F22	105	Р	TL 287 985	22	05 JUN 1962	Α	10000	36	Black and White 8.25 x 7.5	NMR
RAF/58/5164	2084	F22	106	Р	TL 295 985	22	05 JUN 1962	Α	10000	36	Black and White 8.25 x 7.5	NMR
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RAF/58/493	3196	V	5020	Р	TL 288 982	2	07 JUN 1950	AB	10000	6	Black and White 9.0 x 9.0	NMR

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MAL/65092	4240	V	35	Р	TL 296 970	2	29 OCT 1965	Α	12000	6	Black and White 9.0 x 9.0	NMR
MAL/65092	4240	V	36	Р	TL 286 970	2	29 OCT 1965	Α	12000	6	Black and White 9.0 x 9.0	NMR
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RAF/CPE/UK/2045	4990	RP	3035	Р	TL 296 964	7	29 APR 1947	Α	9840	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/2045	4990	RP	3036	Р	TL 290 963	7	29 APR 1947	Α	9840	20	Black and White 8.25 x 7.5	NMR
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MAL/69058	5421	V	161	Р	TL 309 983	9	10 JUN 1969	Α	10500	6	Black and White 9.0 x 9.0	CAM
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MAL/69058	5421	V	205	Р	TL 292 965	10	10 JUN 1969	Α	10500	6	Black and White 9.0 x 9.0	CAM
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OS/64199	9243	V	123	Р	TL 297 972	9	13 SEP 1964	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/64199	9243	V	124	Р	TL 294 967	9	13 SEP 1964	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/67033	9245	V	156	Р	TL 289 980	2	16 APR 1967	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/67033	9245	V	157	Р	TL 290 968	3	16 APR 1967	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/68136	9250	V	824	Р	TL 302 975	7	01 JUN 1968	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/68136	9250	V	825	Р	TL 296 974	7	01 JUN 1968	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/68136	9250	V	826	Р	TL 289 974	7	01 JUN 1968	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/68136	9250	V	885	Р	TL 292 984	8	01 JUN 1968	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/68136	9250	V	886	Р	TL 299 984	8	01 JUN 1968	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75237	9785	V	244	Р	TL 301 968	1	11 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75237	9785	V	245	Р	TL 294 968	1	11 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75237	9785	V	246	Р	TL 287 969	1	11 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75194	9786	V	186	Р	TL 294 980	6	08 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75194	9786	V	187	Р	TL 299 981	6	08 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/75194	9786	V	188	Р	TL 305 981	6	08 JUN 1975	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/84194	12655	V	1	Р	TL 297 983	1	29 JUL 1984	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/84194	12655	V	2	Р	TL 290 983	1	29 JUL 1984	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/84194	12655	V	43	Р	TL 291 971	4	29 JUL 1984	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/84194	12655	V	44	Р	TL 298 971	4	29 JUL 1984	Α	7500	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	102	Р	TL 290 985	3	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	103	Р	TL 295 985	3	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	104	Р	TL 300 985	3	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	105	Р	TL 305 985	3	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	184	Р	TL 290 975	5	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	185	Р	TL 295 975	5	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	186	Р	TL 300 975	5	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96589	15174	V	187	N	TL 305 975	5	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96590	15175	V	60	Р	TL 290 965	2	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96590	15175	V	61	Р	TL 295 965	2	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/96590	15175	V	62	Р	TL 300 965	2	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR

OS/96590	15175	V	63	P	TL 305 965	2	04 JUN 1996	Α	7800	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	100	Р	TL 301 976	6	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	101	Р	TL 295 976	6	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	102	Р	TL 290 976	6	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	128	Р	TL 291 963	7	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	129	Р	TL 297 963	7	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR
OS/93381	15438	V	130	Р	TL 303 963	7	13 AUG 1993	Α	7700	12	Black and White 9.0 x 9.0	NMR