GODDEN MACKAY

BAY 1 NORTH

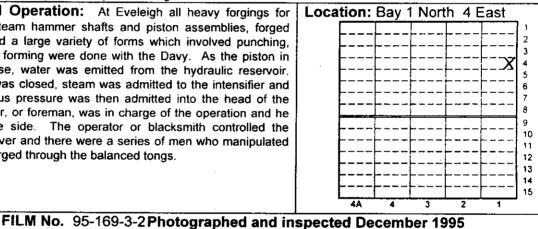
Item Name: Davy		Item No. 1	
Name Plate: P.T.	PH-815-EVE S/O-		
DAV	Y BROS	S LTD SHEFFIELD 1920	
Associated Items:	;		
Individual			
Assemblage	$\mathbf{\Sigma}$	Davy Press 1-24, 207	
Collection		Character 4 4 00 00 04 00 04 77 400 404	
System	◩	Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191	
Operational Groups			

Description: The Davy Press is a massive cast iron and steel structure about 4 metres long, 2.5 metres wide and standing in excess of 6 metres tall. It consists of a base which is mounted below floor level, a massive cast iron crown and a crosshead. The crown holds the lift or return valve and the hydraulic valves and gland for the main shaft. The crosshead is allowed to slide on four massive shafts and it is direct coupled to the main piston and to the main upper die. The lower die is mounted on the framework of the bottom platform.

History: Until the advent of hydraulic presses much forging was done with steam hammers which applied sudden loads to the metal blank. Hydraulic presses, powered from accumulators which provided an artificial head, gave steady, controlled pressure. Steam hydraulic presses, introduced this century were able to supply far greater force than the regular hydraulic powered presses. Steam hydraulic presses were of the Haniel Lueg and Davy Bros Patent. Both were fitted with steam intensifiers which allowed the magnification of the final press. The steam intensifier of the Davy Patent stood alone as a separate item and the high pressure fluid was supplied through piping. Steam hydraulic presses were supplied in capacities of 100-1500 tonnes, with 1500 tonnes being regarded suitable for very heavy engineering work. The 1500 Davy Press at Eveleigh was installed in 1926 and remained in its present location ever since. No major modifications have taken place except to the original boilers.

Function and Operation: At Eveleigh all heavy forgings for bogey frames, steam hammer shafts and piston assemblies, forged crane wheels and a large variety of forms which involved punching, pressing and die forming were done with the Davy. As the piston in the intensifier rose, water was emitted from the hydraulic reservoir. This inlet valve was closed, steam was admitted to the intensifier and water at enormous pressure was then admitted into the head of the press. The forger, or foreman, was in charge of the operation and he directed from the side. The operator or blacksmith controlled the valves and the lever and there were a series of men who manipulated the billet being forged through the balanced tongs.

Photo:



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Item Na	we. Dar	N Press				<u> </u>	Itom No. 4
itelli Ital							Item No. 1
Condition	n: In g	eneral, the	item ap	pears to be in	operable	condition providing	power sources are
connecte	ed and t	he item is	cleaned,	serviced and	d tested.	The external surfa	ce of the item has
patches	of super	ticial rust a	nd bare i	metal. Howev	er, the cor	dition of the power	source is unknown
and the	power so	ource nas p	robably b	een disconne	cted.		
Significa	ance Ma	trix			State His	torical Themes:	
	Historical	Aesthetic	Social	Technology/		-	
				Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	×	. 🔀		×	Themes	☐ 13 Transport	
Repres-						15 Utilities	
entative	逐	X	×	E		16 Industry	
			_			18 Technology	
						20 Government A	Administration
						•	omotive Workshops
_			•	•			part of the hydraulic
		-	,	•		•	on construction and
	_	_					cation potential for ion on the nature of
-	-			ts a high degr			ion on the nature or
							preserved as part of preserved by being
							tenance schedules
given be				according to t	no impioni	ornanon and man	10.100 001.000100
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Policy Ir	nnlemer	station: Th	ne machi	ne je to be etri	pped all c	ylinders cleaned an	d dried all
						s are to be dried ar	
						rsant, dried and tre	
						e to be disconnect	
						t. All operating sur	
						with an appropriate	sealant such as
Shell EN	SIS fluid	or a polyci	ystalline	wax. Consen	/e in situ.		
			٠				
Mainten	ance Sc	hedule: In	spect all	external surfa	ces for rus	t every 12 months	Where necessary,
							surfaces should be
inspected	d for rus	t. Any rus	t or oxid				oeing removed and
coated w	ith an in	hibitor and	sealant.				
						•	
Interpret	tation:	 , <u></u>					
•	-						•
						•	
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Item Name: Davy Steam Intensifier item No. 2 Name Plate: No. 815 N.S.W.G.R. DAVY BROS LTD. SHEFFIELD 1919. Associated Items: Individual \square Assemblage Davy Press 1-24, 207 Collection Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191 System \square Operational Groups

Description: The Davy Steam Intensifier is the power pack for the operation of the Press. It is basically a cast iron and steel cylinder which stands about 3 metres high and is mounted on a concrete plinth which is 400mm high and square with 1.5 mm sides. The upper portion of the cylinder is covered in lagging with a sheet metal cover.

History: The steam intensifier was mounted in this position in 1926 when the Davy Press was installed in Bay 1 North. It has remained in this position in basically unmodified form.

Function and Operation: The intensifier supplies high pressure fluid to the Davy Press. Steam is admitted to the crown and through a series of valves and rams the steam pressure is intensified in the hydraulic fluid. The hydraulic fluid is then allowed into the ram of the Davy Press via the main valve which is controlled through a lever by the operator or blacksmith.

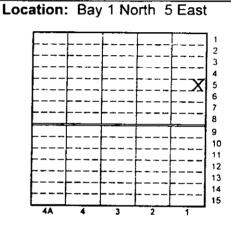
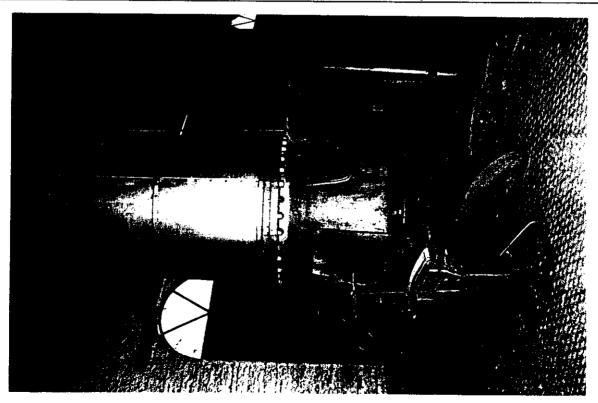


Photo: FILM No. 95-169-3-3 Photographed and inspected December 1995



Idom Al-		0/				CONCENTATION	1990	
item Na	ime: Dav	y Steam I	ntensifier				Item No. 2	
In gener the item rust and	Condition: In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal. However, the condition of the power source is unknown and the power source has probably been disconnected.							
Signific	ance Ma	trix			State His	storical Themes:		
	Historical	Aesthetic	Social	Technology/ Research Potential	Category		Industrial Relic	
Rare	×	×	×	X	Themes	☐ 13 Transport		
Repres-						☐ 15 Utilities		
entative	×	×		<u> </u>		16 Industry		
						☐ 18 Technology☐ 20 Government Admir	-1-4	
C4-4	-4 -40:	ınificance			,,,	20 Government Admil	nistration	
operatio large, ra enginee understa	n for ove are, indu ring appl anding of	r 60 years strial piec ication. early engii	 The ite e exhibit The item neering p 	em is an integ ing massive has researd	gral part or cast-iron ch and ed e item will	Vorkshops being assoce for the hydraulic system. construction and which ducation potential for yield information on the integrity.	The item is a had general developing an	
Conser	vation Po	licy:				<u></u>		
and stea	ım systen	n to which	it belongs	s. The item is	to be pres	ved as part of the Dav served by being cleane schedules given below	d, serviced and	
Policy II	mplemen	tation:	<u>, , , , , , , , , , , , , , , , , , , </u>					
The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All pipes should be disconnected and, where possible, uncoupled at flanged joints. Internal surfaces should be treated with a dispersant, dried and treated with an appropriate inhibitor and, where possible, sealed. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.								
Mainten	ance Sch	redule		,			· ·	
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.								
Interpre	tation:							
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EVELEIGH LOCC	MOTIVE WORKSH	OPS MACHINER	Y CONSERVATION	1996
Item Name: The	Davy Hydraulic Reser	voir		Item No. 3
Name Plate: N/A				<u> </u>
Associated Items	3:			
Individual				
Assemblage	Davy Press	1-24, 207		
Collection				
System	☑ Steam 1-4, 3	28, 29, 31, 32, 54, 5	57, 188-191	
Operational Group	os 🗆			
Description: The	Reservoir is basically	/ a boiler or air rece	eiver shell which is of rive	ted construction
in three sections.	It stands on four feet	which have been r	riveted to the boiler shell.	The Reservo
contains the hydra	aulic fluid which is sup	plied to the Press	system. The cylinder of	the Reservoir
about 1 metre in o	diameter and stands	about 4 metres hig	h. It is mounted on four	r large concret
lugs.				
	· · · · · · · · · · · · · · · · · · ·			
			avy Press in 1926. It has	remained in
this location as tar	as is known with no n	najor modifications	for that period.	
F	Yes and the like	i- December	Ta4: Day 4 Nambh	4 ===
Function and C	-	draulic Reservoir	Location: Bay 1 North	4 Easi
- •	draulic fluid which may			2
•	operations. Fluid is			3 4
operator or blacks	s of a control valve	controlled by the		5
operator or blacks	iiiui.			6 7
			<u> </u>	5
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			<u> </u>	11
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Photo: FILI	M No. 95-169-3-4	Photographed	and inspected Decemb	per 1995
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GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

GODDEN MACKAY PTY LTD, 78 GEORGE ST, REDFERN NSW 2016 PH: (02) 319 4811

EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION

1996

Item Na	me: Dav	y Hydrauli	c Reservo	oir			Item No. 3	
Condition	on:	_					<u>'</u>	
	In general, the item appears to be in operable condition providing power sources are connected and							
the item	is cleane	d, service	d and test	ed. The exte	rnal surfac	e of the item has patch	es of superficial	
rust and	bare met	al. Howe	ver, the co	ondition of the	power so	urce is unknown and th	ne power source	
has prob	ably beer	n disconne	ected.		•			
, –	ance Mat				State His	storical Themes:		
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item ☐	Industrial Relic	
Rare	X	X	E	X	Themes	☐ 13 Transport		
Penso						☐ 15 Utilities		
Repres- entative	Œ	×		×		16 Industry		
į · · · ·			u	E		18 Technology	·	
		+				20 Government Admi	nistration	
Stateme	nt of Sig	nificance						
operation large, ra engineer understa work pra	n for over are, industing applitending of continuous of co	r 60 years strial piec ication. early engir he item ex	 The ite e exhibiti The item neering pr 	em is an integ ing massive has researd	gral part or cast-iron ch and ed e item will	Vorkshops being assort the hydraulic system. construction and which ducation potential for yield information on the integrity.	The item is a ch had general developing an	
Conserv	ation Po	licy:						
and stea	m system	to which	it belongs	. The item is	to be pres	rved as part of the Day served by being cleane e schedules given below	d, serviced and	
Policy In	nplemen	tation:						
The machine is to be stripped, all cylinders cleaned and dried, all bearings and glands repacked, all internal bare metal surfaces are to be dried and greased to prevent rust. All pipes should be disconnected and, where possible, uncoupled at flanged joints. Internal surfaces should be treated with a dispersant, dried and treated with a rust inhibitor and, where possible, sealed. All pipes are to be disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected. All operating surfaces exhibiting a normally bright finish should be suitably polished and coated with an appropriate sealant such as Shell ENSIS fluid or a polycrystalline wax. Conserve in situ.								
Maintena	ance Sch	edule				-		
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section. Every 5 years internal surfaces should be inspected for rust. Any rust or oxidation product must be treated suitably by being removed and coated with an inhibitor and sealant.								
Interpret	ation:			W				
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Item Name: Add	Item No. 4		
Name Plate: N/	Ā		
Associated Item	ns:		
Individual			
Assemblage	Ø	Davy Press 1-24, 207	
Collection			
System	$\mathbf{\nabla}$	Steam 1-4, 28, 29, 31, 32, 54, 57, 188-191	
Operational Groups			

Description: The Additional Volume Steam Reservoirs are two horizontally mounted, centrally joined, cylindrical steam receivers mounted on a C Section and universal section steel frame. The frame itself is supported on a concrete platform. Steam is admitted to the north side of the lower reservoir and passes out through the north side of the upper reservoir. Both cylinders are lagged and covered with a badly deteriorated sheet metal sheathing. A pressure gauge is mounted adjacent to the bottom reservoir.

History: When the Davy Press was introduced in 1926 two small dedicated furnace/boilers were mounted in holes knocked in the east wall of the workshops. The furnace boilers were fired from an elevated firing floor with coal. Heat passed through the furnace heating steel billets then through the boiler to provide steam for the Davy Press system. Smoke exhausted through two short steel stacks. Each furnace/boiler was fired on alternate days. Heating a cold billet of steel took a full day. When the billet was removed the brick furnace lining was also removed and had to be rebuilt to take the next billet. When these furnace/boilers were subsequently removed, the steam reservoirs were introduced in the opening in row 10 and the number 1 boiler in the south annexe of Bay 2 was dedicated to the Davy Press.

Function and Operation: The steam reservoirs supply additional volume of steam at the pressure of about 120psi the steam being admitted to the steam intensifier of the Davy Press by the operation of the main valve.

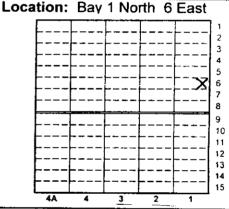
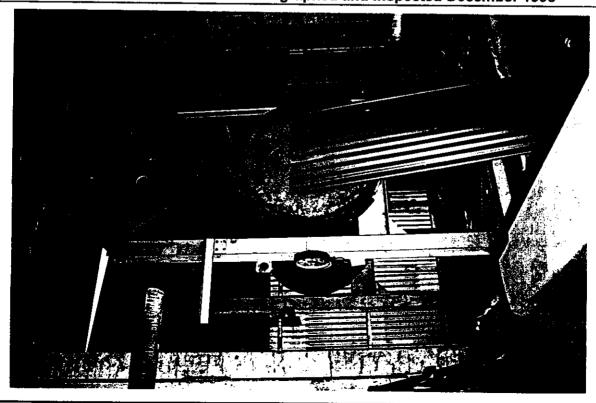


Photo: FILM No. 95-169-3-5 Photographed and inspected December 1995



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EVELEIGH LOCOM	OTI	VE WORKSHOPS MACHINERY CONSERVATION	1996
Item Name: Balance	ed Bi	llet Holders for Davy Press	Item No. 5 a-p
Name Plate: N/A			
Associated Items:			
Individual			
Assemblage	团	Davy Press 1-24, 207	
Collection		, , , , , , , , , , , , , , , , , , , ,	
System			
Operational Groups	ū		
5a Billet Holder - circular of 5b Billet Holder - circular of 5c Billet Holder - circular of 5d-5i Billet Holder - clamp 5j Special tool - spade end 5k,l Special tool - twin flat 5m Special tool - twin tyne 5n Special tool - wedge sp 5p Holder	end, send, send, send, send, send, send, send with plate, and forked and sended.	eep. hallow. hre. four holes. adjustable.	
History: It is believed	that n	nost of the holders were introduced when the Davy Press was installed	ed. Some of them
were possibly made in res	ponse	to later requirements.	
grasped by the end of the the use of pins and wedge the centre of gravity of t	holde es. T he sh	The billets to be worked were r. The holder was securely clamped by the special crane hook was attached to aft and up to five men were used to under the action of the Davy Press	5-6 East

Photo: FILM No. 95-169-3-6 Photographed and inspected December 1995



1996

Item Na	me: Bal	anced Bille	t Holders	s for Davy Pre	SS		Item No. 5a-p
Conditi	on: The	items exhil	oit slight	to moderate ru	ust in all su	ırfaces.	
Signific	ance Ma	trix	· · · · · · · · · · · · · · · · · · ·		State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research	Category	☐ Moveable Item	☐ Industrial Relic
Rare				Potential	Themes	☐ 13 Transport	
Banna						☐ 15 Utilities	
Repres- entative	×			re-		16 Industry	
entauve				Œ		18 Technology	
						20 Government	Administration
operating	y wo <u>r</u> ksh	ops. The it	em will y	rield information	on the n	ature of past work	
the Davy	assemb	olicy: The lage, collec	item is taken in the state of t	to retained in alanced holde	its present rs and hyd	t location and be p Iraulic system to wh	reserved as part of nich it belongs.
The iten	n is to	be preser	ved by	being cleane	d service	d and maintained	according to the
impleme	ntation a	nd mainten	ance sch	nedules given	below.		a doctring to the
Policy In	nplemen	tation:					
rust is to	be remo	ved or trea	ted. All	ied and degre external surfa stalline wax.	ased using ces are to	g appropriate meth be treated with an	ods. All superficial appropriate sealant
		eposition in		•			
Mainten	ance Scl	nedule		1			
			for rust	everv 12 moni	hs Wher	e necessary coat :	as recommended in
the imple	mentatio	n section.		5 toly 12 mon		o noocodary, code i	
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Interpret	ation:			 .			
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1996

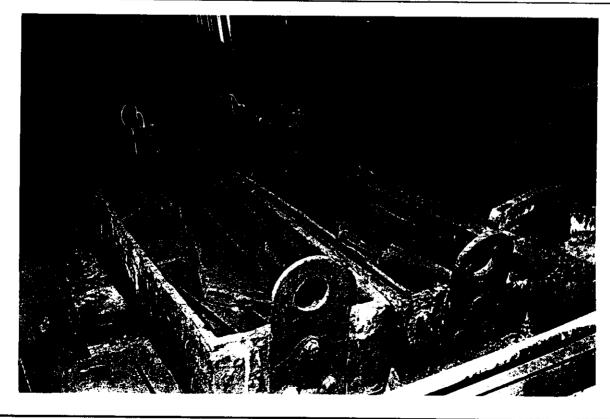
The state of the s	- OOHOEKVA HON	1990
Item Name: Davy Press Work in Progress		Item No. 6
Name Plate: N/A		
Associated Items: Individual Assemblage Davy Press 1-24, 207 Collection System Operational Groups Description: The work in progress is in three separate locat completely forged steam hammer shaft and pistons, three wheels which have had their centres punched out and forged History: The history of all of these items is unknown but it is	forged shafts and a nur roughly to shape.	mber of crane
last items which were forged on the Davy Press.	y accument that they work	o amongot mo
Function and Operation: N/A	Location: Bay 1 North 6	5 East 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 1
Photo: FILM No. 95-169-3-7 Photogra 1995	phed and inspected	December
		The state of the s
		A

Item Nar	ne: Dav	y Press Wo	ork in Pr	ogress			Item No. 6
Conditio	n: The	external su	rface o	f the item has	patches o	f superficial rust a	nd bare metal. The
item exhi	ibits heav	y rust in pl	aces.		p	· ouponiolai raot a	ina baro metal. Trie
Significa	ance Mat	rix	.		State His	storical Themes:	·
_	Historical	Aesthetic	Social	Technology/			.
				Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	X			· 🗷	Themes	13 Transport	
Repres-						15 Utilities	
entative				×	 	☐ 16 Industry ☐ 18 Technology	
						20 Government	Administration
Statome	nt of Sin	nificance:					
	_						
							associated with their
-		•			•	•	plage. The item has engineering practice.
		•		nature of past			ingineering practice.
	,				 -		
						The second control of	
Conserv	ation Po	licy:					
						d and maintaine	d according to the
impleme	ntation ar	nd mainten	ance sc	hedules given	below.		
Policy In	nnlemen	tation:				<u>, </u>	
· Cilcy iii	pioi.iioii	uion.					
							nods. All superficial
					ces are to	be treated with an	appropriate sealant
Such as	SHEII EING	olo liulu or	polycrys	stalline wax.			
Conserve	e. May re	eposition in	same b	ay.			
Maintena	anaa Sah	odulo					
Maintene	ance Scr	leaule					
			for rust	every 12 mon	ths. Where	e necessary, coat	as recommended in
the imple	mentatio	n section.				•	
Interpret	ation:						
						·	

1996

	iteel Spac	ers		Item No. 7
Name Plate:	N/A			
Associated It	ems:			
ndividual				
Assemblage		Davy Press 1-24, 207		
System				
Collection				
ne bottom anv	il to the de	prevented by manual means. This esired height. which are located in very heavy st		•
unction and	Operation other until	n: The spacers are placed one	Location: Bay 1 North	

Photo: FILM No. 95-169-3-8 Photographed and inspected December 1995



Item Na	me: Ste	el Spacers					Item No. 7a
		external s vy rust in p		f the item has	patches o	f superficial rust a	ind bare metal. Th
Significa	ance Ma	trix	<u> </u>		State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	X			· E	Themes	☐ 13 Transport ☐ 15 Utilities	
Repres- entative				Œ		☐ 16 Industry	
	_	_	_	_		☐ 18 Technology☐ 20 Government	Administration
Stateme	nt of Sig	nificance	:				
research	and ed	ucation po	tential fo		an unders	tanding of early e	olage. The item ha
Conserv	ration Po	olicy:					
				being cleane hedules given		d and maintained	d according to th
rust is to	nal surfa be remo	ces are to	ated. All	external surfa			hods. All superficia appropriate sealar
such as	Shell EN	SIS fluid o	r polycry:	stalline wax.			
Conserv	e in situ d	or close to	their orig	inal location.			
Mainten	ance Sc	hedule		****			10.5 1.5 11.1
		al surfaces on section.	s for rust	every 12 mon	ths. Wher	e necessary, coat	as recommended i
Interpre	tation:				· · · · · · · · · · · · · · · · · · ·		

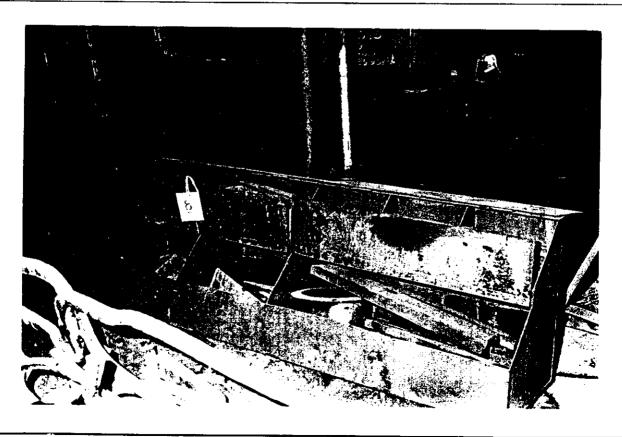
1996

Item Name: Metal C	Case of Shims for the Davy Press	Item No. 8
Name Plate: N/A		
Associated Items:		
Individual		
Assemblage	☑ Davy Press 1-24, 207	
Collection		
System		
Operational Groups	·	
	hims consist of sections of plate and sheet of different thick	
	he metal case. Each of the shims measures about 200-300) mm long by 100-
200mm wide.		
	ry of the shims is unknown but it is possible that these	Shims have been
associated with the D	Davy Since 1920.	
Function and Opera	ation: The shims are placed one on Location: Bay 1 No	rth 4 East
top of another, usi	ually in conjunction with the steel	1
	descent of the Press to be checked	2
	The shims are invariably arranged by	
the forger or his assis	stant.	6
		7

Photo:

FILM No. 95-169-3-9

Photographed and inspected December 1995



Item Nan	ne: Met	al Case of	Shims fo	or Davy Press			Item No. 8
		external su y rust in pl		f the item has	patches o	f superficial rust a	and bare metal. The
<u> </u>		•			Ta		
Significa I	Ince Mai	rix Aesthetic	Social	Technology/ Research	State His	storical Themes: Moveable Item	☐ Industrial Relic
Rare	x			Potential	Themes	☐ 13 Transport	
Repres-	_	_	_	_		15 Utilities	
entative				×		☐ 16 Industry ☐ 18 Technology	
						20 Government	Administration
Stateme	nt of Sig	nificance:			<u> </u>		
		•		or developing nature <u>o</u> f pas		•	engineering practice.
Conserv	ation Po	licy:					· · · · · · · · · · · · · · · · · · ·
		-	ved by	being cleane	ed, service	ed and maintaine	d according to the
implemer	ntation ai	nd mainten	ance sc	hedules given	below.		
Delies In					·····		
Policy In	npiemen	tation:					
rust is to	be remo	ved or trea	ted. All	•		•	hods. All superficial appropriate sealant
Conserve	e in situ c	or close to t	heir orig	inal location.			
Maintena	ance Scl	nedule		••			
•		al surfaces n section.	for rust	every 12 mon	iths. Wher	re necessary, coat	as recommended in
Interpret	ation:				· -		
-							

	9a - A Cra 9b - Hand	Item No. 9a, b	
Name Plate: N	I/A		
Associated Ite	ms:		
Individual			
Assemblage	✓	Davy Press 1-24, 207	
Collection			
System			
Operational Gro	oups 🔲		
		al holder for use within the crane.	

9b - Hand held tongs (10 items), furnace rake and hoe (5 items), assorted steel pieces.

History: The history of these pieces is unknown but it is believed that they have been associated with the operations of the Davy Press since 1926.

Function and Operation: The rings and hooks of the special holder were used to sling the tongs at the correct height to allow material of smaller size to be manipulated under the Davy Press. 9(b)-the hand-held tongs were used to hold the material being pressed. The furnace rakes and hoe were used to clear out millscale from the furnace after the heating of various items.

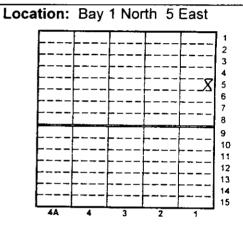


Photo: FILM No. 95-169-3-10 Photographed and inspected December 1995



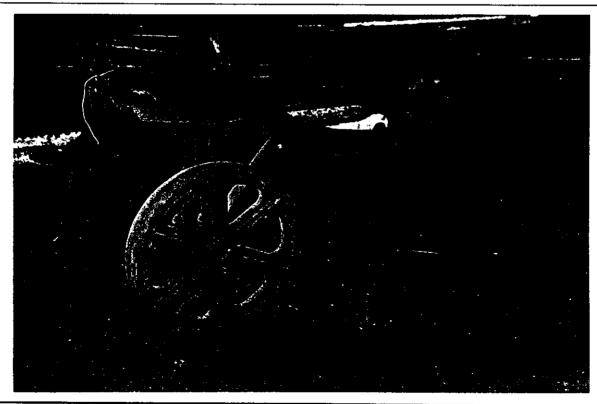
Married D. C. St. Lieuwick								
Item Na				pecial Holders		•	Item No.	9a,b
	95	Hand Hel	a longs,	Furnace Rake	Hoes etc.	•		
Canditi	m. The	ordomal a		F Alma 24 a.m. b				
item ovh	ibite bee	external s vy rust in p	unace of	the item has	patches o	f superficial rust and b	pare metal.	The
Reili CXI	iiDita fica	vy rust iii þ	naucs.					
Signific	ance Ma	triv			State His	storical Themes:		
o.g.,,,,o	Historical	Aesthetic	Social	Technology/	State IIIs	storical lifetiles.		
				Research	Category	☐ Moveable Item ☐	Industrial Re	elic
D	×			Potential	Themes	☐ 13 Transport		
Rare		u	L	Œ	illemes	15 Transport		
Repres-								
entative				×		16 Industry		
				_		☐ 18 Technology		
						20 Government Admi	inistration	
Stateme	nt of Sig	nificance	:			·		
The item	wae an	integral s	art of the	. Evoleich I o	nomotivo l	Vorkshops being asso	عنمام منط	4 h .a.i.a
						the Davy assemblage		
						tanding of early engin		
				nature of pas			eemig prac	Juce.
1110 11011	, will ylolo	· iiiioiiiiatic	,, o,, tile	nature or pas	work prac	Aloes.		
0		. 19						
Conserv	ration Po	olicy:						
The iter	n is to	be preser	ved by	being cleane	d, service	d and maintained ac	cording to	the
impleme	ntation a	nd mainter	nance scl	nedules given	below.		_	
Policy I	nplemen	tation:						
Poncy II	upiemen	itauon.						
All exter	nal surfa	ces are to	he clear	ned and deare	ased usin	g appropriate methods	All suner	ficial
						be treated with an app		
						table very low portal		
						ct with the ground. Con		
		inal locatio				J		
					<u> </u>	<u> </u>		
Mainten	ance Sc	hedule	r					
			_				,	
			for rust	every 12 mon	ths. Wher	e necessary, coat as re	ecommend	ed in
the imple	ementatio	on section.						
				•				
Interpre	tation							
urethie	wuUil.							,,,,

		1330
Item Name: Hand T	rolley for Hot Work	Item No. 10
Name Plate: N/A		
Associated Items:		
Individual		
Assemblage	☑ Davy Press 1-24, 207	
Collection		
System		
Operational Groups	•	
the Eveleigh Worksh mounted on two brac and for moving hot w	Omm in diameter are mounted. These six spoked flanged whoops. A small tray measuring about 500mm by 500mm of ckets along with a 3 metre long handle. The trolley was used ork around the floor of the workshop.	half inch plate is d for manipulating
History: The history	of the item is unknown although it may be as old as the Davy	Press.
moved close to the f the use of a balanc hand trolley. The tro the furnace and the	tion: The hand trolley was normally furnace and the material removed by ed tong or grab and placed on the olley could then be moved away from the hot piece could be gripped by a in an area where it was possible to older.	th 5 East

Photo:

FILM No. 95-169-3-11

Photographed and inspected December 1995



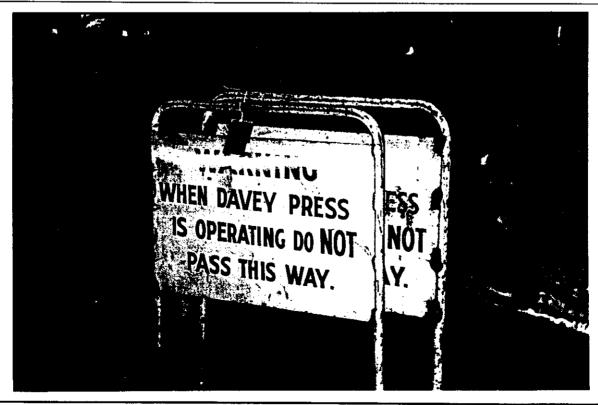
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1996

Item Na	me: Han	d Trolley fo	r Hot W	ork			Item No. 10
Conditio	n: The	external su	ırface of	the item has	patches o	f superficial rust a	nd bare metal. The
item exh	ibits heav	vy rust in pl	aces.				
Significa			0		State His	torical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	X			. 🗷	Themes	13 Transport	
Repres-						15 Utilities	
entative				×		☐ 16 Industry ☐ 18 Technology	
						20 Government	Administration
Stateme	nt of Sig	nificance:	<u></u>		<u>i</u>	1-	
operation research	n for ove and ed	r 20 years. ucation pot	The ite	em is an integ	ral part of an unders	the Davy assemb tanding of early e	associated with their lage. The item has ngineering practice.
	n is to	be presen		being cleane		d and maintained	d according to the
Policy In	nplemen	tation:					
rust is to	be remo	ved or trea	ted. All				nods. All superficial appropriate sealant
Conserve	e. May re	eposition in	same b	ay.			
Maintena	ance Sch	nedule					
	Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.						
Interpret	ation:	· · · · · · · · · · · · · · · · · · ·					
							ı

Item Name: Warning Signs for Davy Press	Item No. 11
Name Plate: N/A	
Associated Items: Individual Assemblage Collection System Operational Groups Description: The Davy Press Warning Signs simply in operating that other staff must not pass through this particle end of the press and the other was placed at the south end	cular area. One was placed at the north
History: The date of construction of these signs is not known long line of signs that were erected in various parts of the use.	
Function and Operation: Placed at the north and east end of the operating end of the Davy press to prevent accidents occurring when the press and ancillary items were operating.	Location: Bay 1 North 5 West

Photo: FILM No. 95-169-3-12 Photographed and inspected December 1995



item Nan	ne: Wa	rning Sign	for Davy	Press			Item No. 11
Conditio	n: The	external s	surface of	the item has	patches of	f superficial rust a	nd bare metal. The
		vy rust in i		tilo kom nao	patones o	r ouponnoidi ruot d	ind bare metal. The
Cinnifia		4			04-4-42		
Significa	lnce Ma Historical	TFIX Aesthetic	Social	Technology/	State His	torical Themes:	
				Research Potential	Category	☐ Moveable Item	Industrial Relic
Rare	×			· (E)	Themes	☐ 13 Transport	
_						☐ 15 Utilities	
Repres- entative		. 🗖		×		16 Industry	
entative	ب	•		€ 2		18 Technology	
						20 Government	Administration
Stateme	nt of Si	gnificance) :				
operation research	n₋for ove and ed	er 20 years	s. The ite	em is an integ	ıral part of an unders	the Davy assemb tanding of early e	associated with their plage. The item has engineering practice.
	n is to	be prese		being cleane hedules given		d and maintained	d according to the
Policy In	nplemei	ntation:					
rust is to such as	be remo	oved or tre NSIS fluid	ated. Ali or polyc	external surfa	ces are to	be treated with an	nods. All superficial appropriate sealant removed by gentle
Conserve	e. May r	eposition i	in same b	ay.			
		1					
Maintena	ance Sc	neaute					
Inspect a	ll extern	-		every 12 mon	ths. Where	e necessary, coat	as recommended in
Inspect a	ll extern	al surface		every 12 mon	ths. Where	e necessary, coat	as recommended in
Inspect a	II extern mentatio	al surface		every 12 mon	ths. Where	e necessary, coat	as recommended in
Inspect a the imple	II extern mentatio	al surface		every 12 mon	ths. Where	e necessary, coat	as recommended in
Inspect a the imple	II extern mentatio	al surface		every 12 mon	ths. Where	e necessary, coat	as recommended in
Inspect a the imple	II extern mentatio	al surface		every 12 mon	ths. Where	e necessary, coat	as recommended in

Item Name: Punches, Dies and Swage Blocks	Item No. 12
Name Plate: N/A	
Associated Items: Individual Assemblage Collection System Operational Groups	
Description: There is a number of Punches and dies which were used sectioned hot steel billets. The dies were placed on the anvil of the Davimmediately above and the Punch was then forced or pressed throug five Dies in this group and a series of four Punches. Some of the Punche metal billet while others were held in place with a pair of tongs. The this group of materials.	vy Press. The Punch placed the hot metal. There are named were simply rested on ere is also a set a swages in
History: The history of these items is unknown but it would appear considerable age and show extensive wear.	that many of them are of a
Function and Operation: Used for forming items on the Davy Press.	Bay 1 North 4 East 1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Photo: FILM No. 95-169-3-13 Photographed and inspec	

Item Nar	ne: Pun	ches and S	wage B	locks			Item No. 12
		external su y rust in pl		the item has	patches o	f superficial rust a	nd bare metal. The
CiIE					04 (18		- Marie - Mari
Significa	ance mai	IFIX Aesthetic	Social	Technology/ Research Potential	State His	torical Themes: Moveable Item	☐ Industrial Relic
Rare	X			·	Themes	☐ 13 Transport	
Repres-						☐ 15 Utilities ☐ 16 Industry	
entative				X		18 Technology	
						20 Government	Administration
Stateme	nt of Sig	nificance:			<u> </u>		
		•		nature of pas		•	ngineering practice.
Conserv	ation Po	licy:					
		•	_	being cleane nedules given		d and maintained	d according to the
Policy In	nplemen	tation:					
rust is to	be remo	ved or trea	ted. All	•			nods. All superficial appropriate sealant
Conserve	e. Repos	sition in san	ne bay o	lose to the ori	ginal location	on.	
Mainten	ance Sch	nedule				······································	
		al surfaces in section.	for rust	every 12 mon	ths. Where	e necessary, coat	as recommended in
Interpret	ation						<u> </u>
merprei	auvii.						

1996

Item Name: Lock	Item Name: Lock Pins and Wedges for Crane Tongs				
Name Plate:					
Associated Items	i :				
Individual					
Assemblage	abla	Davy Press 1-24, 207			
Collection					
System					
Operational Group	s 📮	·			
Description: The	e Lock	pins are slotted pins about 600mm long and about	it 30mm in diameter.		
There is a round	pin at	one end and the other end is slightly tapered. The	e slot is usually 100-		

150mm long and about 8mm wide. **History:** The history of the items is unknown but it would appear that they are possibly as old as 40 years.

Function and Operation: The Lock pins and wedges were used for holding the jaws of the various billet holders shut. The pin was placed through corresponding holes on each side of the jaw and it was tightened by the use of two wedges. The wedges bound the opposite side of the tongs in place and allowed the manipulation of the hot metal.

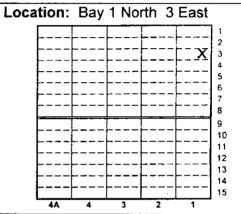


Photo: FILM No. 95-169-3-14 Photographed and inspected December 1995



item Nar	ne: Loc	k Pins, We	dges for	Crane Tongs	in Six Bucl	cets	Item No. 13
Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places.							
Significance Matrix State Historical Themes:							
Historical Aesthetic Social Technology/						☐ Industrial Relic	
Rare	X			Z	Themes	☐ 13 Transport☐ 15 Utilities	
Repres- entative			0	×		16 Industry 18 Technology	
Stateme	nt of Sid	gnificance				20 Government	Administration
				nature of pas			engineering practice.
Conserv		•		••			-
		•	•	being cleane hedules given		d and maintaine	d according to the
Policy In	plemer	ntation:					
rust is to	be remo	oved or trea	ated. All				hods. All superficial n appropriate sealant
Conserve	e. May r	eposition in	n same b	oay.			
Maintena	nce Sc	hedule					
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
Interpret	ation:	·	,				
							

Item Name: Stack of Assorted Metal Pieces	Item No. 14
Name Plate: N/A	
Associated Items: Individual Assemblage Davy Press 1-24, 207 Collection System Operational Groups Description: The metal pieces on this small rack, which could be the ground were used variously for holding sections of masspecific forging techniques. History: The history of these items is unknown.	onsists of two lengths of railway track or aterial and also as the block and die fo
Function and Operation: The hot metal was simply placed between the block and the die and pressed to shape. In some cases these blocks and dies were used only for finishing items that had been rough forged. Photo: FILM No. 95-169-3-15 Photographed	Location: Bay 1 North 4 East 1

1996

Item Na	ne: Ra	ck of Assor	ted Meta	l Pieces			Item No. 14	
Condition item exh	n: The	external s	urface o	f the item has	patches o	f superficial rust a	nd bare metal. The	
		, rao, p						
Significance Matrix State Historical Themes:								
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic	
Rare	×			. 🔀	Themes	13 Transport		
Repres-	_					☐ 15 Utilities☐ 16 Industry		
entative				×		☐ 18 Technology		
						20 Government	Administration	
Stateme	nt of Si	gnificance	•	- 1 - 1 - 1				
research	and ed	lucation po	tential fo	em is an integ or developing nature of past	an undersi	tanding of early e	lage. The item has ngineering practice.	
	n is to	be preser		being cleane hedules given		d and maintained	d according to the	
Policy In	nplemei	ntation:						
Policy Implementation: All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax.								
	_	eposition in	· Sallie D	ay.				
Maintena	ance Sc	nedule						
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.								
interpret	ation							
mei hiet	auvii.							

Item Name: Forged and Partially Machined Steam Rectangular Spare Parts Bin.	Hammer Shafts and	Item No.15a-c
Name Plate: N/A		
Associated Items:		
Individual D D D D D D D D D D D D D D D D D D		
Assemblage		•
Collection		
System Constitution Constitution		
Operational Groups	·	
Description: The two forged and partially machined stear		
the Davy Press area for further working. This work was r bin is made from half inch plate steel and is fitted with two h		ectangular parts
History: The history of the items is unknown.		
Function and Operation: N/A	Location: Bay 1 North	2 East
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Photo: FILM No. 95-169-3-16 Photographed	and inspected Decemb	per 1995
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Item Na Rectang	ame: F ular Part	orged and s Bin	d Partiall	y Machined S	Steam Ha	mmer Shafts. (2) + Item No.	15a-c
Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places.							
Signific	ance Ma	trix Aesthetic	Social	Technology/	State His	storical Themes:	•
				Research Potential	Category	☐ Moveable Item ☐ Industrial F	Relic
Rare	X			×	Themes	☐ 13 Transport☐ 15 Utilities	
Repres-			_	Fig.		16 Industry	
entative				×		18 Technology	
						20 Government Administration	
The item	was an		art of the			Vorkshops being associated with	
operation	n for ove	r 20 years	s. The ite	em is an integ	ral part of	the Davy assemblage. The iter	n has
The item	will yield	ication po I information	on on the	nature of past	an unders t work prac	tanding of early engineering pra	ictice.
	•				,		
Conserv	ation Do	liov:					
		•					
				being cleane nedules given		d and maintained according to	o the
,				ioddioo givoir	DOIOW.		
Policy In	nplemen	tation:					
All extern	nal surfac	ces are to	be clear	ed and degre	ased using	g appropriate methods. All supe	rficial
rust is to	be remo	ved or trea	ated. All			be treated with an appropriate se	
Conserve	e. May re	eposition in	n same b	ay.			
Mainten	ance Scl	nedule					-
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
	-						
Interpret	ation:						

1996

Item Name: Crane Slings	Item No. 16
Name Plate: N/A	
Associated Items: Individual Assemblage Davy Press 1-24, 207 Collection System Operational Groups Description: There are six crane slings and three wire ropulley block for crane tools. These items are located on a of the Bay 1 North. History: The history of the items is unknown, however, the second content of the second c	crane sling frame close to the east wall
appear to be about the same age as the Press.	
Function and Operation: The chains in the slings were used to hold and lift the balanced holders as they moved items around the Davy Press space. They were also used for slinging raw material from the trolleys which ran on the central road.	Location: Bay 1 North 5 West
Photo: FILM No. 95-169-3-17 Photographed	and inspected December 1995

1996

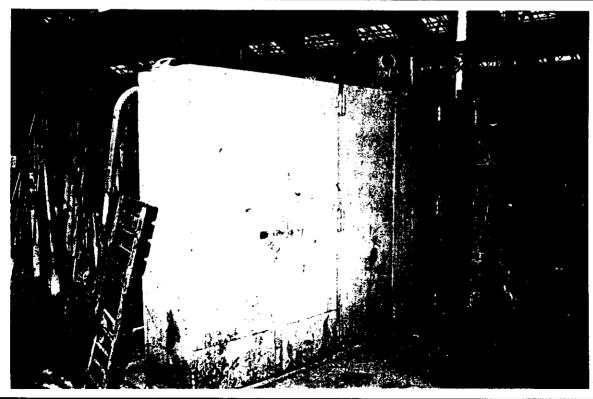
Item Na	ame: Cra	ne Slings					Item No. 16
Conditi item ex	ion: The hibits hea	external s vy rust in p	surface o places.	f the item has	patches o	of superficial rust a	nd bare metal. The
Signific	cance Ma	trix	··-		State His	storical Themes:	
	Historical	Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	Z			X	Themes	☐ 13 Transport ☐ 15 Utilities	
Repres- entative				×		☐ 16 Industry ☐ 18 Technology	
					,	20 Government A	Administration
researci	n and edu	ucation po	tential fo	r developing nature of past	an unders	tanding of early er	lage. The item has ngineering practice.
impleme	entation ar	nd mainten	ved by ance sch	being cleane nedules given l	a, service below.	d and maintained	according to the
All exter	nplement	es are to	be clean	ed and degre	ased using	appropriate metho	ods. All superficial
such as	Shell ENS	SIS fluid or	polycrys	external surrac talline wax.	es are to l	be treated with an a	appropriate sealant
Conserve	e. Reposi	ition in san	ne bay cl	ose to the orig	inal locatio	on.	
Mainten	ance Sch	edule					
Inspect a the imple	ll externa ementation	l surfaces section.	for rust e	every 12 mont	hs. Where	e necessary, coat a	s recommended in
Interpret	ation:						
							,
	•						

Item Name: Collec	ction of Large Circular Dies, Swages, Punches and Spanners	Item No. 17
Name Plate:		
Associated Items:		
Individual		
Assemblage	☑ Davy Press 1-24, 207	
Collection		
System		
Operational Groups	_	
	se items are in a rough pile against the central columns. There a	aro o number
dies similar to the o	ones which have been mentioned as Item 12 and there are a se	t of Swages f
general forming we	ork and two exceptionally large forged spanners, the purpo	se of which
unknown.	and the energiality large length openinois, the purpo	SC OF WINCH
History: The histor	ry of the items is unknown.	
Function and Or	peration: The swages, dies and Location: Bay 1 North	3 West
punches were all i	used for forming metal on the Davy	1
Press.		2
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Photo: FILM	No. 95-169-3-18 Photographed and inspected Decemb	
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item Nar	ne: Col	lection of I	arge Cir	cular Dias Sw	agas and E	Punchas	Item No. 17
itom Han	Item Name: Collection of Large Circular Dies, Swages and Punches Item No. 17						
Conditio	n: The	external s	urface o	f the item has	patches o	f superficial rust a	nd bare metal. The
		vy rust in p				•	
Significa	nce Ma	trix			State His	storical Themes:	
_	Historical	Aesthetic	Social	Technology/			D.
				Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	×			×	Themes	☐ 13 Transport	
Repres-						15 Utilities	
entative				×		16 Industry	
	_	_	_	_		☐ 18 Technology ☐ 20 Government.	A
						20 Government	Administration
Stateme	nt of Sig	gnificance	:				
						• •	associated with their
							plage. The item has
		•		or developing anature of past		•	engineering practice.
THE REIT	vin your	a navialia,ii	zii Oii u le	Hature or pas	t HOIR PIAC		
Conserv	ation Po	olicy:				,	
The item	is to	be preser	ved by	being cleane	d, service	d and maintained	d according to the
				hedules given			
				-			
	,						
		···					
Policy In	nplemer	ntation:					
All extern	al surfa	ces are to	be clear	ned and degre	ased using	appropriate meth	nods. All superficial
rust is to	be remo	oved or trea	ated. All	external surfa	ces are to	be treated with an	appropriate sealant
such as S	Shell EN	SIS fluid or	polycry:	stalline wax.			•
Consense	in eitu /	nr close to	their oric	inal location.			
JULISCI VE	in Situ (JI GOSE 10	usen ong	mai iocation.			
Maintena	ince Sc	hedule					
Incode a	ll outces	രി സംഘ്ടേടം -	. f an	A 40	u 14=		
the imple	ıı externi mentatic	ai surraces on section.	FOF TUST	every 12 mon	ıns. Where	e necessary, coat	as recommended in
		Journal.					
Interpret	ation						
ret bien	auvii.						
							į
							•

Item Name: Maintenance Tool Cobinete for the Day D		1550
Item Name: Maintenance Tool Cabinets for the Davy P	ress	Item No. 18
Name Plate: N/A		
Associated Items:		
Individual		
Assemblage		
Collection		
System	•	
Operational Groups		
Description: The cabinet consists of five doors on a		
cabinet which was lockable and which held the tools		
associated items. The cabinet stands about 2 metres	s high and each of the five	e bays is about
700mm wide.		
History History of the item is unknown	 	
History: History of the item is unknown.		
Function and Operation: N/A	Location: Bay 1 North	4 West
	200410111 2017 1107111	777031
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Photo: FILM No. 95-169-3-19 Photograph	ed and inspected Decemb	er 1995
\$ 1. Company of the c	15/16	1
Section 1	THE REAL PROPERTY.	
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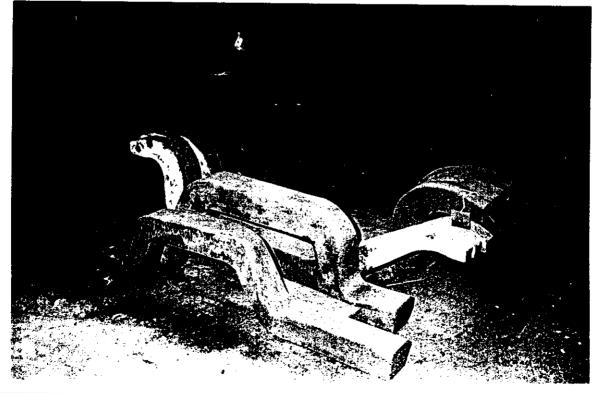
1996

Item N	ame: Ma	intenance	Tool Cab	inets for Davy	Press		Item No. 18
	·····			_			
Condit		e items ar	e in stru	cturally soun	d conditio	n with superficial	rust on the painted
surface).						•
Signific	cance Ma	trix			State His	storical Themes:	
_	Historical	Aesthetic	Social	Technology/	i	_	
				Research Potential	Category	☐ Moveable Item	Industrial Relic
Rare					Themes	☐ 13 Transport	
5				_		☐ 15 Utilities	
Repres-			_	_		16 Industry	
entative	X					☐ 18 Technology	
						20 Government	Administration
Statem	ent of Sir	nificance	<u> </u>			-	
			-£#: -	_			
nature o	ii is an in Maast wa	tegral part rk practice:	of the Da	avy Press ass	emblage.	The item will yiel	d information on the
mature (n pasi wo	rk practices	S.				
Conser	vation Po	licv:	·		 	·	
me iteli	i is to be i	preserved.					
Policy I	mplemen	tation					
· Olloy I	mbienien	tation,					
Rust pat	ches are	to be neut	ralised a	nd the surface	monitore	d for future rust	Selected areas may
be coate	ed with pol	ly crystallin	e wax.		····oimoic	a for fatale fast.	belected areas may
Conserv	e. May re	position in	same ba	ıy.			
Mainton	ance Sch	a dada			· .		
manite()	ance oth	icuu ie					
Inspect a	all externa	i surfaces	for nust e	very 12 month	ne Whar	nocessar see	as recommended in
the imple	ementatio	n section.		,	TTIICIC	onecessary, coat i	as recommended in
-		',					
							·
m.k.c	L			<u> </u>			
Interpre	tation:		•			· ··	
				•			

1996

14 11 15					TI CONSERVATION	1996
Item Name: Equ	alising [Beams for Die	sel Locomo	otives		Item No. 19
Name Plate: N/A						
Associated Items	s:	·				
Individual						
Assemblage	lacksquare	Davy Press	1-24, 207			
Collection						
System						
Operational Group	os 📮					
in the rough forge	d state.				ged and machined while s obvious that they ha	
Function and Ope	eration	: N/A		<u></u>	Location: Bay 1 Nort	h 4 West
					4A 4 3	1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15
Photo: EII I	M No.	05 160 2 20	Dhasa		 	

Photo: FILM No. 95-169-3-20 Photographed and inspected December 1995



1996

Item Na	ıme: Equ	alising Bea	ms for l	Diesel Locos			Item No. 19	
Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places.								
Signific	ance Ma	trix			State His	storical Themes:		
- · · · · · · · ·	Historical	Aesthetic	Socia!	Technology/ Research Potential	Category	Moveable Item	☐ Industrial Relic	
Rare	X			E	Themes	☐ 13 Transport ☐ 15 Utilities		
Repres- entative				×		☐ 16 Industry ☐ 18 Technology ☐ 20 Government	A dominio to Associate	
Casto		nificance:				20 Government	Administration	
research The iten	n and edu n will yield	ication pot	ential fo on on the	or developing e nature of pas	an unders	tanding of early e	plage. The item has engineering practice. indicate the type of	
Conser	vation Po	licy:		<u> </u>				
The iter impleme	m is to ∣ entation ar	be presen nd mainten	ved by ance sch	being cleane nedules given l	d, service below.	d and maintained	d according to the	
Policy I	nplemen	tation:			<u></u>			
rust is to	pe remov	ved or trea	ted. All	ned and degre external surfac stalline wax.	ased using ces are to	g appropriate meth be treated with an	nods. All superficial appropriate sealant	
		position in	same ba	ay.				
Mainten	ance Sch	edule						
Inspect a the imple	all externa ementation	l surfaces n section.	for rust (every 12 mont	hs. Where	e necessary, coat	as recommended in	
	·							
Interpre	tation:				. *			

Item Name: Rack o	Item Name: Rack of Swages and Fullers					
Name Plate: N/A						
Associated Items:						
Individual						
Assemblage	☑ Davy Press 1-24, 207					
Collection						
System						
Operational Groups	· ·					

Description: A large number of hand held swages and fullers which were used in conjunction with the Davy Press for forging a large variety of complex shapes. There are approximately 77 items on this rack, most of them have steel handles which are in excess of 2 metres long. This allowed the operator or the blacksmith to hold the item and stay well away from the very hot metal.

History: The history of the items is unknown but many appear to be of a considerable age.

Function and Operation: The swages and fullers were hand held and manipulated so that complex shapes could be forged with the Davy Press. Quite often two of the items would be used simultaneously to allow metals to be bent or shaped around dies.

Location: Bay 1 North 4 West

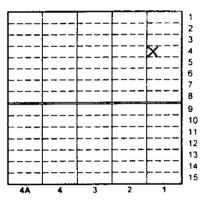
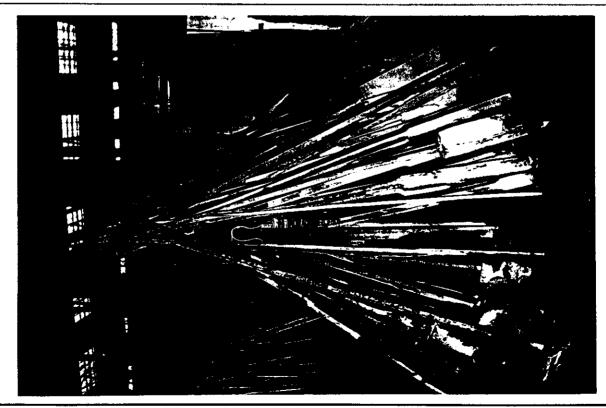


Photo:

FILM No. 95-169-3-21

Photographed and inspected December 1995



1996

Item Nan	ne: Ra	ck of Swage	s, Rods.	(Both sides	of rack).		Item No. 20	
Conditio	n: The	external su	ırface of	the item has	patches o	f superficial rust a	ınd bare metal. The	
item exhi	bits hea	vy rust in pl	aces.		•	•		
Significa	nce Ma listorical	I trix Aesthetic	Social	Technology/	State His	storical Themes:		
				Research Potential	Category	☐ Moveable Item	☐ Industrial Relic	
Rare	×			X	Themes	13 Transport		
Repres-						☐ 15 Utilities☐ 16 Industry		
entative				X	:	18 Technology		
						☐ 20 Government	Administration	
Statemer	nt of Sig	gnificance:		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
operation research	for ove and ed	er 20 years. ucation pote	The ite ential foi	m is an integ	ral part of an undersi	the Davy assemb tanding of early e	associated with their lage. The item has engineering practice.	
Conserva	tion Po	olicy:					·	
The item	is to	be preserv	ed by i	being cleane	d, service	d and maintained	d according to the	
implemen	tation a	nd maintena	ance sch	edules given l	below.		3 3	
				<u> </u>				
Policy Im	plemen	tation:						
rust is to be	All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. A suitable ground level platform is to be constructed form obviously new material to keep the items off the earth floor.							
Maintenar	ann Sak	and the			·			
Inspect all the implem	externa nentatio	al surfaces f n section.	or rust e	very 12 mont	hs. Where	necessary, coat a	as recommended in	
Interpreta	tion:							
			·					
							ļ	

1996

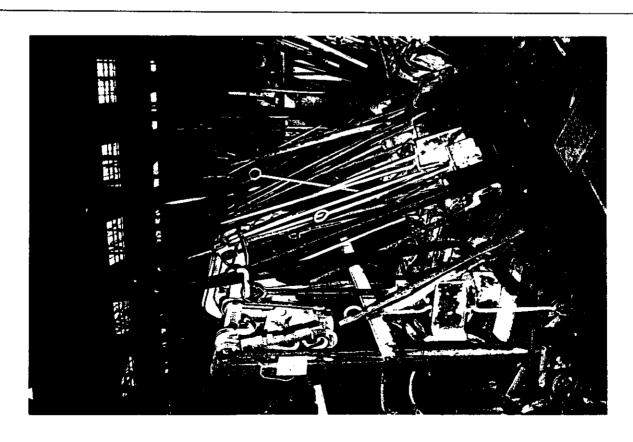
Item Name: A Rack of Tongs and Swages	Item No. 21
Name Plate: N/A	
Associated Items: Individual Assemblage Collection System Operational Groups Description: This rack contains some 36 sets of torwas being fastened onto the long balanced holders of the	r as it was being worked on the Press.
Function and Operation: These items were hand and were used for manipulating the hot metal prior during its being worked.	to or
Photo: FILM No. 95-169-3-22 Photogra	aphed and inspected December 1995

1996

Item Na	me: Rad	k of Tongs	s, Hand-I	neld Grips and	Swages		Item No. 21	
Conditi item ex	on: The	external s	urface o	f the item has	patches o	of superficial rust a	ind bare metal. The	
Cianifia	anaa Ma	4 - E			l 	****		
Signing	ance Ma	trix Aesthetic	Social	Technology/	State His	storical Themes:		
		Aesuleuc	Social	Research Potential	Category	☐ Moveable Item	☐ Industrial Relic	
Rare Repres-	E	<u> </u>		· E	Themes	☐ 13 Transport☐ 15 Utilities		
entative				×		☐ 16 Industry ☐ 18 Technology		
						20 Government	Administration	
Statem	ent of Sig	nificance					<u></u>	
operation research	n for ove	r 20 years ucation po	. The ito tential fo	em is an integ	ral part of an unders	the Davy assemb tanding of early e	essociated with their lage. The item has ngineering practice.	
			ance scr	nedules given l	below.			
All externance of the construction of the cons	Policy Implementation: All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. A suitable ground level platform is to be constructed form obviously new material to keep the items off the earth floor Conserve in situ							
Mainten	ance Sch	edule			-			
Inspect a the imple	ill externa mentation	l surfaces n section.	for rust e	every 12 mont	hs. Where	e necessary, coat a	s recommended in	
	٠							
nterpret	ation:	<u></u>		·				
,								

	OTTE WORKSHOPS MACHINERY CONSERVATION	199	96
Item Name: Rack o	f Mixed Swages, Fullers, Templates and Hotsets	Item No.	22
Name Plate: N/A			
Associated Items:			
Assemblage Collection	☑ Davy Press 1-24, 207		
System Operational Groups	<u> </u>		
Description: These items being forged or	e mixed items were all used, usually by being held by hand to n the Davy Press.	to cut and	form
History: The history	of the items is unknown but some of them appear to be quite o	ld.	-
and manipulated as	ation: These items were hand held the cross head of the Davy Press. I the swage fuller or hotset onto the	5 West 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	

Photo: FILM No. 95-169-3-23 Photographed and inspected December 1995



1996

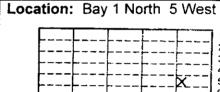
Item Nar	ne: Rac	k of Mixed	Swages	s, Moulds, Tem	nplates		Item No. 22		
Conditio	n: The	external s	urface o	f the item has	patches o	f superficial rust an	nd bare metal. The		
		vy rust in p			pa.o.100 0	. oapottiolai taot aii	ia baro motal. The		
Significance Matrix State Historical Themes:									
_	Historical	Aesthetic	Social	Technology/					
				Research Potential	Category	☐ Moveable Item	Industrial Relic		
Rare	×			×	Themes	☐ 13 Transport			
Repres-						☐ 15 Utilities			
entative			<u> </u>	×		16 Industry			
Cildato	_	_	_	<u></u>		18 Technology			
						20 Government A	dministration		
Stateme	nt of Sig	nificance	:						
The item	was an	integral p	art of the	e Eveleigh Lo	comotive V	Vorkshops being as	ssociated with their		
operation	for ove	r 20 years	. The it	em is an integ	ral part of	the Davy assembla	age. The item has		
research	and edu	ucation po	tential fo	or developing	an unders	tanding of early en	ngineering practice.		
The item	will yield	informatio	on on the	nature_of pas	t work prac	tices.	-		
0	-4' D-	E!							
Conserva		•							
						d and maintained	according to the		
implemer	ntation a	nd mainten	ance sc	hedules given	below.				
Policy Im	plemen	tation:			· · ·				
All extern	al curfa	see are to	he close	and and doors	sood wains		Au		
rust is to	be remo	ved or trea	be clear ted All	evternal surfa	easeu using	g appropriate metho he treated with an o	ods. All superficial appropriate sealant		
such as	Shell E	NSIS fluid	or poly	crvstalline wa	ocs are to x A suit	be treated with arra	platform is to be		
constructe	ed form	obviously r	new mate	erial to keep th	e items off	the earth floor.	plation is to be		
		-		•					
Conserve	in situ	•							
Maintena	nce Sch	edule	<u> </u>			·			
Inspect al	l externa	al surfaces	for rust	every 12 mont	ths. Where	e necessary, coat a	s recommended in		
the imple	mentatio	n section.							
Interpreta	ation:		·						
-									

Item Name: Collecti	Item Name: Collection of Swage Blocks and Dies for the Davy Press						
Name Plate:			<u>.</u>				
Associated Items:							
Individual							
Assemblage	abla	Davy Press 1-24, 207					
Collection							
System							
Operational Groups							
Description: All of t	he d	ie blocks and swages are fitted with a dove-tailed h	ead which allows the				

to be fitted snugly into the crosshead mounting on the Davy Press. Some of these items come in pairs as a die and an anvil whereas others come as a two-die set for hot forging. The items must be regarded as integral parts of the Davy Press.

History: It is believed that all of these items were supplied with the Davy Press although some of them have been cast at the workshops.

Function and Operation: The dies, die sets and swages are fitted into the dove-tailed slot in the Davy Press crosshead and base and wedged into place with steel wedges. The heated billets or material being formed is in place between the faces of the dies or anvils or swage blocks and formed when the pressure is applied to the crosshead.



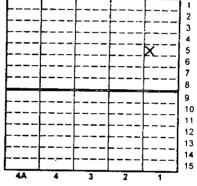
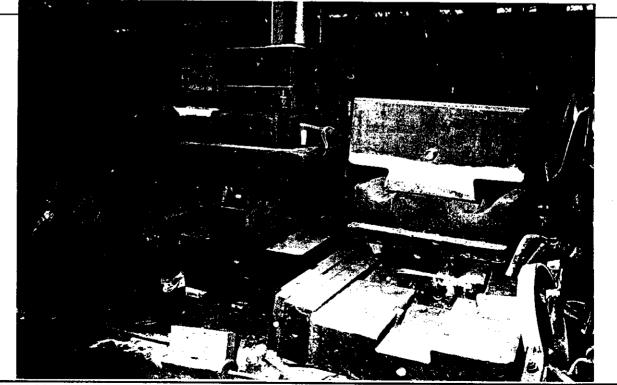


Photo: FILM No. 95-169-3-24 Photographed and inspected December 1995



EVELEIGH LOCOMOTIVE WORKSHOPS MACHINERY CONSERVATION 1996 Item Name: Collection of Large Swage Blocks for Davy Item No. 23 Condition: The external surface of the item has patches of superficial rust and bare metal. The item exhibits heavy rust in places. Significance Matrix State Historical Themes: Historical Aesthetic Social Technology/ Research ☐ Moveable Item Category ☐ Industrial Relic Potentia! Rare × ☐ 13 Transport \mathbf{x} Œ Themes ☐ 15 Utilities Repres-☐ 16 Industry entative X × ☐ 18 Technology ☐ 20 Government Administration Statement of Significance: The item was an integral part of the Eveleigh Locomotive Workshops being associated with their operation for over 20 years. The item is an integral part of the Davy assemblage. The item has research and education potential for developing an understanding of early engineering practice. The item will yield information on the nature of past work practices. **Conservation Policy:** The item is to be preserved by being cleaned, serviced and maintained according to the implementation and maintenance schedules given below. **Policy Implementation:** All external surfaces are to be cleaned and degreased using appropriate methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. A suitable ground level platform is to be constructed form obviously new material to keep the items off the earth floor. Conserve in situ or reposition close to original location in same bay. Maintenance Schedule

Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.

Interpretation:

Item Name: Metal Work Tables for Davy Press	Item No.24a-e
Name Plate: N/A	<u> </u>
Associated Items:	
Assemblage	
Collection	
System	
Description: These small metal tables consist of a plate of five/eighth inch milled	steel measuring
from 500-900mm wide and 900-1500mm long with legs in a Z-shape being bolt place.	ed or riveted in
History: The history of the items is unknown.	
Function and Operation: These items were light enough Location: Bay 1 North	3 East 4 West
to be moved manually around the workshops and could	1
be used to temporarily place hot metal on while the grips of the large holders were attached to them.	2 3
	4 5
 	6 7
	8 9
	10
	12
	14
4A 4 3 2	
Photo: FILM No. 95-169-3-25 Photographed and inspected December	per 1995
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1996

item Na	me: Me	al Work Ta	ables for	Davy (5)			Item No.24a-e
Condition item exh	on: The ibits hea	external s vy rust in p	urface o	f the item has	patches o	f superficial rust a	nd bare metal. The
	ance Ma Historical	trix Aesthetic	Social	Technology/	State His	torical Themes:	
			550.2.	Research Potential	Category	☐ Moveable Item	☐ Industrial Relic
Rare	X			. 🗷	Themes	13 Transport	
Repres-						☐ 15 Utilities☐ 16 Industry	
entative				×		18 Technology	
						20 Government	Administration
Stateme	nt of Sig	nificance	:				
operation research	n for ove and ed	er 20 years ucation po	. The ite	em is an integ	ral part of an unders	the Davy assemb landing of early e	associated with their lage. The item has engineering practice.
Conserv	ation Po	olicy:					
				being cleane hedules given		d and maintained	d according to the
rust is to	nal surfa be remo	ces are to	ated. All				nods. All superficial appropriate sealant
Conserve	e. May r	eposition in	n same b	pay.			
Mainten	ance Sc	hedule					······································
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.							
Interpret	tation:						
rei hi e	auvil.			•			

Item Name: The Fu	Item No. 25							
Name Plate: FR23								
Associated Items:								
Individual								
Assemblage		Davy Press 1-24, 207						
Collection								
System								
Operational Groups								

Description: This large furnace measures about 5 metres long, 4 metres wide and 2 metres high. It is fitted with two steel framed counter-balanced doors which are operated by chain driven pulleys. The furnace itself is steel-framed and lined with fire brick. There are two firing ports on each side. The furnace has been converted from gas to oil-fired and was used for heating billets for the Davy Press.

History: The history of the item is unknown but it is believed that this was installed around the time that the furnace/boilers were removed from their position immediately inside the east wall, adjacent to the Davy Press.

Function and Operation: The billets to be heated were placed inside using balanced tongs, the doors were fastened in place and the item heated, often overnight. Removing the billet was done with the tool 5N which was a wedge spade and it was operated in much the same was as a garden spade.

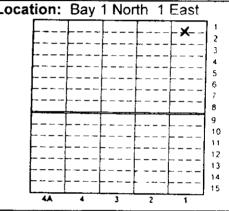
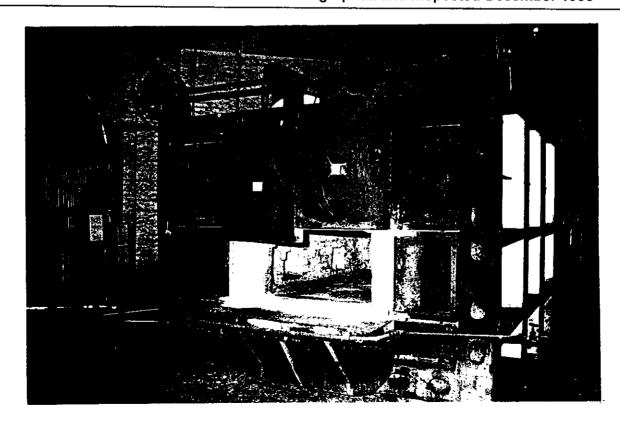


Photo: FILM No. 95-169-3-26

Photographed and inspected December 1995



Item Nar	Item No. 25									
Condition: In general, the item appears to be in operable condition providing power sources are connected and the item is cleaned, serviced and tested. The external surface of the item has patches of superficial rust and bare metal. The internal lining is in fair condition and almost complete.										
Significance Matrix State Historical Themes:										
		Aesthetic	Social	Technology/ Research Potential	Category	☐ Moveable Item ☐	Industrial Relic			
Rare					Themes	☐ 13 Transport☐ 15 Utilities				
Repres-	_					16 Industry				
entative		u	u	u		☐ 18 Technology				
						20 Government Admi				
Stateme	nt of Sign	ificance:	The iter	m was an inte	egral part (of the Eveleigh Locomo ne item is an integral p	otive Workshops			
				degree of st			part of the Davy			
			_	_						
Concor	ation Poli	iov: The	item is t	o retained in	ite presen	t location and be pres	erved as part of			
						ing cleaned, serviced				
						given below.				
Policy Implementation: All external surfaces are to be cleaned and degreased using appropriate										
methods. All superficial rust is to be removed or treated. All external surfaces are to be treated with an appropriate sealant such as Shell ENSIS fluid or polycrystalline wax. All pipes are to be										
disconnected, cleaned, dried and treated with rust inhibitor. They may then be reconnected.										
Conserve in situ										
Maintenance Schedule										
Inspect all external surfaces for rust every 12 months. Where necessary, coat as recommended in the implementation section.										
· ·										
Interpretation:										
			٠				1			
] :										