

**UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION**

NTL No. 2005-G10

Issue Date: June 24, 2005
Effective Date: July 1, 2005
Expiration Date: until superseded

**NOTICE TO LESSEES AND OPERATORS OF FEDERAL OIL AND GAS LEASES
AND PIPELINE RIGHT-OF-WAY HOLDERS
ON THE OUTER CONTINENTAL SHELF, GULF OF MEXICO OCS REGION**

**Revisions to the List of OCS Lease Blocks
Requiring Archaeological Resource Surveys and Reports**

Authority

This Notice to Lessees and Operators and Pipeline Right-of-way Holders (NTL) is issued pursuant to 30 CFR 250.103.

The Minerals Management Service (MMS) regulations at [30 CFR 250.194, 250.203\(b\)\(15\), 250.203\(o\), 250.204\(b\)\(8\)\(v\)\(A\), 250.204\(s\), and 250.1007\(a\)\(5\)](#) require Outer Continental Shelf (OCS) lessees and operators and pipeline right-of-way holders to conduct surveys within areas of high archaeological potential and to submit the results to MMS. This NTL constitutes the written notice referenced in these regulations.

Recently issued NTL No. 2005-G07 provides specific guidance on how to conduct archaeological resources surveys and prepare archaeological reports, and gave preliminary notice that deepwater OCS blocks on the approach to the Mississippi River are added to the list of OCS blocks requiring archaeological resource surveys and reports.

Purpose

This NTL does not rescind NTL 2005-G07, but conveys additions to the list of OCS blocks that require archaeological resource surveys and reports for submittal to the MMS, and the required survey line-spacing for each block.

The full list of OCS blocks requiring archaeological resource surveys and reports, including the blocks identified in this NTL and other previously identified blocks, is published on the MMS web site at:

<http://www.gomr.mms.gov/homepg/regulate/envIRON/archaeological/surveyblocks.pdf>.

Background

The National Historic Preservation Act of 1966 (NHPA), as amended, and other applicable laws and regulations require MMS to be responsible for ensuring that archaeological resources on the OCS are not damaged or destroyed by oil, gas, and sulphur operations. Archaeological resources are any material remains of human life or activities that are at least 50 years of age and that are of archaeological interest (see definition at [30 CFR 250.105](#)).

A recent MMS study found that there are more than 2,100 historic shipwrecks in the Federal part of the Gulf of Mexico. Among the areas with a high concentration of reported shipwrecks is the approach to the Port of New Orleans, Louisiana. As a result of industry-related activity, primarily pipeline surveys, 12 historic wrecks have been located within the deepwater approaches to the Mississippi River, including the Mississippi Canyon, Viosca Knoll, Ewing Bank, and Green Canyon areas. The discovery of these historic wrecks confirms that these areas have a high probability for occurrence of historic shipwrecks.

Revisions to the List of Archaeological High Probability Lease Blocks

Attachment 1 presents the OCS blocks now added to the list of blocks currently requiring an archaeological survey and report. Blocks comprising this list occur in the deepwater approaches to the Mississippi River in parts of the Viosca Knoll (VK) and Ewing Bank (EB) areas; all of the Mississippi Canyon (MC) area; and the northeast corner of the Green Canyon (GC) area [all lease blocks within the rectangle formed by the corners of GC Blocks 18, 414, 437, and 41.]

No Waiver of High-resolution Sidescan Sonar Survey Requirement

As stated in NTL No. 2005-G07 (Archaeological Resource Reports section, paragraph E), MMS **will not approve** requests to use 3-D seismic data as a substitute for high-resolution sidescan sonar data in these areas. For EP's and DOCD's in deepwater lease blocks, Autonomous Underwater Vehicle (AUV) or Remote Operated Vehicle (ROV) surveys may be appropriate. Contact the MMS Social Sciences Unit (see contacts below) if you wish to discuss other survey options.

Paperwork Reduction Act of 1995 Statement

This NTL provides clarification, description, and interpretation of requirements contained in 30 CFR 250, subparts A and J. The Office of Management and Budget (OMB) has approved the information collection requirements in these regulations under OMB Control Numbers 1010-0114 for subpart A and 1010-0050 for subpart J. This NTL does not impose additional information collection requirements subject to the Paperwork Reduction Act of 1995.

Contacts

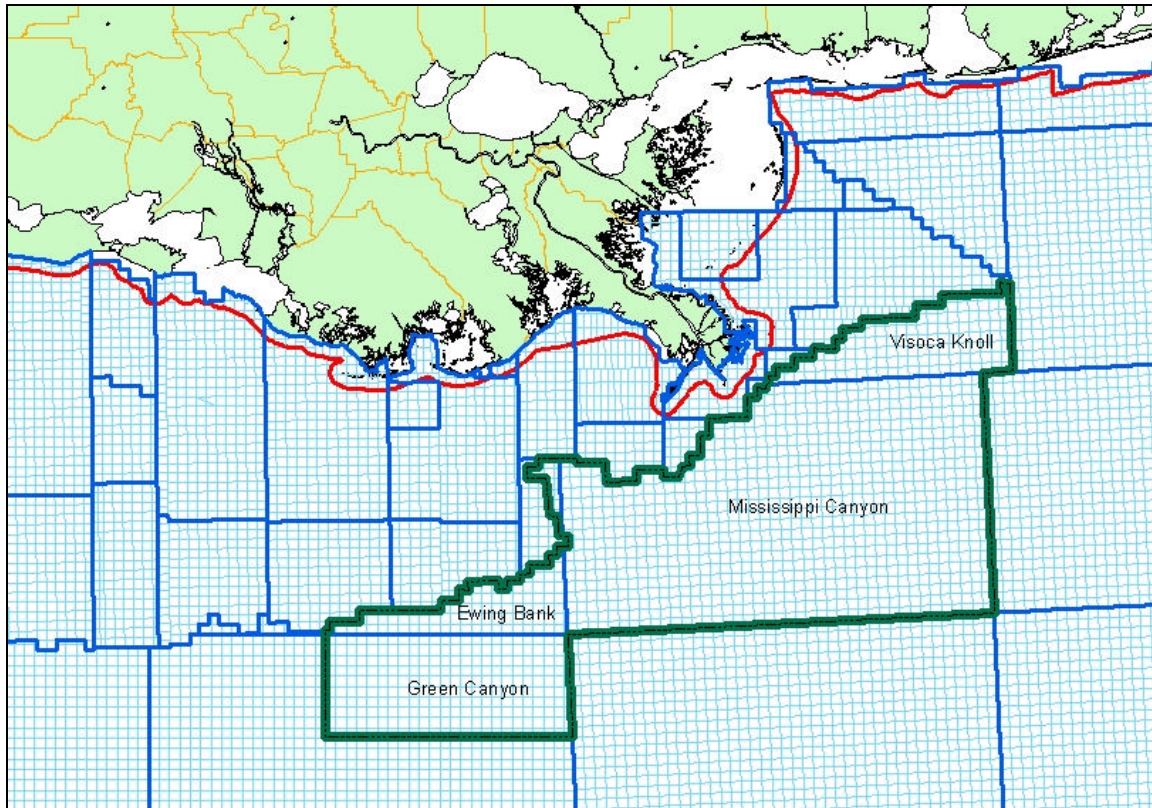
If you have any questions on archaeological resource surveys or reports, contact the individuals designated in the table below:

Regarding...	Contact...	At...	Or at...
Archaeological resource reports in EP's and DOCD's	Mr. Nick Wetzel	(504) 736-2419	Nick.Wetzel@boemre.gov
Archaeological resource reports in pipeline applications	Mr. Alex Alvarado	(504) 736-2547	Alex.Alvarado@boemre.gov
Conducting archaeological resource surveys or preparing archaeological resource reports	Dr. Jack Irion, Mr. David Ball, or Dr. Chris Horrell	(504) 736-1742 (504) 736-2859 (504) 736-2796	Jack.Irion@boemre.gov David.Ball@boemre.gov Christopher.Horrell@boemre.gov

[original signed]
Chris C. Oynes
Regional Director

Attachments

Attachment 1. Figure and List of Deepwater Blocks Now Requiring Archaeological Resource Survey and Report.



	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
EW0393	Ewing Bank	50	EW0788	Ewing Bank	300
EW0437	Ewing Bank	50	EW0789	Ewing Bank	300
EW0481	Ewing Bank	50	EW0790	Ewing Bank	300
EW0526	Ewing Bank	50	EW0791	Ewing Bank	300
EW0658	Ewing Bank	50	EW0824	Ewing Bank	50
EW0701	Ewing Bank	50	EW0825	Ewing Bank	50
EW0702	Ewing Bank	300	EW0826	Ewing Bank	50
EW0743	Ewing Bank	50	EW0827	Ewing Bank	300
EW0744	Ewing Bank	50	EW0828	Ewing Bank	50
EW0745	Ewing Bank	300	EW0829	Ewing Bank	300
EW0746	Ewing Bank	300	EW0830	Ewing Bank	300
EW0781	Ewing Bank	50	EW0831	Ewing Bank	300
EW0782	Ewing Bank	50	EW0832	Ewing Bank	300
EW0783	Ewing Bank	50	EW0833	Ewing Bank	300
EW0784	Ewing Bank	50	EW0834	Ewing Bank	300
EW0785	Ewing Bank	50	EW0835	Ewing Bank	300
EW0786	Ewing Bank	50	EW0867	Ewing Bank	50
EW0787	Ewing Bank	300	EW0868	Ewing Bank	50

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
EW0869	Ewing Bank	300	EW0956	Ewing Bank	300
EW0870	Ewing Bank	300	EW0957	Ewing Bank	300
EW0871	Ewing Bank	300	EW0958	Ewing Bank	300
EW0872	Ewing Bank	300	EW0959	Ewing Bank	300
EW0873	Ewing Bank	300	EW0960	Ewing Bank	300
EW0874	Ewing Bank	300	EW0961	Ewing Bank	300
EW0875	Ewing Bank	300	EW0962	Ewing Bank	300
EW0876	Ewing Bank	300	EW0963	Ewing Bank	300
EW0877	Ewing Bank	300	EW0964	Ewing Bank	300
EW0878	Ewing Bank	300	EW0965	Ewing Bank	300
EW0879	Ewing Bank	300	EW0966	Ewing Bank	300
EW0903	Ewing Bank	50	EW0967	Ewing Bank	300
EW0904	Ewing Bank	50	EW0988	Ewing Bank	50
EW0905	Ewing Bank	50	EW0989	Ewing Bank	50
EW0906	Ewing Bank	50	EW0990	Ewing Bank	300
EW0907	Ewing Bank	50	EW0991	Ewing Bank	300
EW0908	Ewing Bank	50	EW0992	Ewing Bank	300
EW0909	Ewing Bank	50	EW0993	Ewing Bank	300
EW0910	Ewing Bank	50	EW0994	Ewing Bank	300
EW0911	Ewing Bank	300	EW0995	Ewing Bank	300
EW0912	Ewing Bank	300	EW0996	Ewing Bank	300
EW0913	Ewing Bank	300	EW0997	Ewing Bank	300
EW0914	Ewing Bank	300	EW0998	Ewing Bank	300
EW0915	Ewing Bank	300	EW0999	Ewing Bank	300
EW0916	Ewing Bank	300	EW1000	Ewing Bank	300
EW0917	Ewing Bank	300	EW1001	Ewing Bank	300
EW0918	Ewing Bank	300	EW1002	Ewing Bank	300
EW0919	Ewing Bank	300	EW1003	Ewing Bank	300
EW0920	Ewing Bank	300	EW1004	Ewing Bank	300
EW0921	Ewing Bank	300	EW1005	Ewing Bank	300
EW0922	Ewing Bank	300	EW1006	Ewing Bank	300
EW0923	Ewing Bank	300	EW1007	Ewing Bank	300
EW0944	Ewing Bank	50	EW1008	Ewing Bank	300
EW0945	Ewing Bank	50	EW1009	Ewing Bank	300
EW0946	Ewing Bank	50	EW1010	Ewing Bank	300
EW0947	Ewing Bank	300	EW1011	Ewing Bank	300
EW0948	Ewing Bank	300	GC0018	Green Canyon	300
EW0949	Ewing Bank	300	GC0019	Green Canyon	300
EW0950	Ewing Bank	300	GC0020	Green Canyon	300
EW0951	Ewing Bank	300	GC0021	Green Canyon	300
EW0952	Ewing Bank	300	GC0022	Green Canyon	300
EW0953	Ewing Bank	300	GC0023	Green Canyon	300
EW0954	Ewing Bank	300	GC0024	Green Canyon	300
EW0955	Ewing Bank	300	GC0025	Green Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
GC0026	Green Canyon	300	GC0110	Green Canyon	300
GC0027	Green Canyon	300	GC0111	Green Canyon	300
GC0028	Green Canyon	300	GC0112	Green Canyon	300
GC0029	Green Canyon	300	GC0113	Green Canyon	300
GC0030	Green Canyon	300	GC0114	Green Canyon	300
GC0031	Green Canyon	300	GC0115	Green Canyon	300
GC0032	Green Canyon	300	GC0117	Green Canyon	300
GC0033	Green Canyon	300	GC0118	Green Canyon	300
GC0034	Green Canyon	300	GC0119	Green Canyon	300
GC0035	Green Canyon	300	GC0120	Green Canyon	300
GC0036	Green Canyon	300	GC0121	Green Canyon	300
GC0037	Green Canyon	300	GC0122	Green Canyon	300
GC0038	Green Canyon	300	GC0123	Green Canyon	300
GC0039	Green Canyon	300	GC0124	Green Canyon	300
GC0040	Green Canyon	300	GC0125	Green Canyon	300
GC0041	Green Canyon	300	GC0126	Green Canyon	300
GC0062	Green Canyon	300	GC0127	Green Canyon	300
GC0063	Green Canyon	300	GC0128	Green Canyon	300
GC0064	Green Canyon	300	GC0129	Green Canyon	300
GC0065	Green Canyon	300	GC0150	Green Canyon	300
GC0066	Green Canyon	300	GC0151	Green Canyon	300
GC0067	Green Canyon	300	GC0152	Green Canyon	300
GC0068	Green Canyon	300	GC0153	Green Canyon	300
GC0069	Green Canyon	300	GC0154	Green Canyon	300
GC0070	Green Canyon	300	GC0155	Green Canyon	300
GC0071	Green Canyon	300	GC0156	Green Canyon	300
GC0072	Green Canyon	300	GC0157	Green Canyon	300
GC0073	Green Canyon	300	GC0158	Green Canyon	300
GC0074	Green Canyon	300	GC0159	Green Canyon	300
GC0075	Green Canyon	300	GC0160	Green Canyon	300
GC0076	Green Canyon	300	GC0161	Green Canyon	300
GC0077	Green Canyon	300	GC0162	Green Canyon	300
GC0078	Green Canyon	300	GC0163	Green Canyon	300
GC0079	Green Canyon	300	GC0164	Green Canyon	300
GC0080	Green Canyon	300	GC0165	Green Canyon	300
GC0081	Green Canyon	300	GC0166	Green Canyon	300
GC0082	Green Canyon	300	GC0167	Green Canyon	300
GC0083	Green Canyon	300	GC0168	Green Canyon	300
GC0084	Green Canyon	300	GC0169	Green Canyon	300
GC0085	Green Canyon	300	GC0170	Green Canyon	300
GC0106	Green Canyon	300	GC0171	Green Canyon	300
GC0107	Green Canyon	300	GC0172	Green Canyon	300
GC0108	Green Canyon	300	GC0173	Green Canyon	300
GC0109	Green Canyon	300	GC0194	Green Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
GC0195	Green Canyon	300	GC0260	Green Canyon	300
GC0196	Green Canyon	300	GC0261	Green Canyon	300
GC0197	Green Canyon	300	GC0282	Green Canyon	300
GC0198	Green Canyon	300	GC0283	Green Canyon	300
GC0199	Green Canyon	300	GC0284	Green Canyon	300
GC0200	Green Canyon	300	GC0285	Green Canyon	300
GC0201	Green Canyon	300	GC0286	Green Canyon	300
GC0202	Green Canyon	300	GC0287	Green Canyon	300
GC0203	Green Canyon	300	GC0288	Green Canyon	300
GC0204	Green Canyon	300	GC0289	Green Canyon	300
GC0205	Green Canyon	300	GC0290	Green Canyon	300
GC0206	Green Canyon	300	GC0291	Green Canyon	300
GC0207	Green Canyon	300	GC0292	Green Canyon	300
GC0208	Green Canyon	300	GC0293	Green Canyon	300
GC0209	Green Canyon	300	GC0294	Green Canyon	300
GC0210	Green Canyon	300	GC0295	Green Canyon	300
GC0211	Green Canyon	300	GC0296	Green Canyon	300
GC0212	Green Canyon	300	GC0297	Green Canyon	300
GC0213	Green Canyon	300	GC0298	Green Canyon	300
GC0214	Green Canyon	300	GC0299	Green Canyon	300
GC0215	Green Canyon	300	GC0300	Green Canyon	300
GC0216	Green Canyon	300	GC0301	Green Canyon	300
GC0217	Green Canyon	300	GC0302	Green Canyon	300
GC0238	Green Canyon	300	GC0303	Green Canyon	300
GC0239	Green Canyon	300	GC0304	Green Canyon	300
GC0240	Green Canyon	300	GC0305	Green Canyon	300
GC0241	Green Canyon	300	GC0326	Green Canyon	300
GC0242	Green Canyon	300	GC0327	Green Canyon	300
GC0243	Green Canyon	300	GC0328	Green Canyon	300
GC0244	Green Canyon	300	GC0329	Green Canyon	300
GC0246	Green Canyon	300	GC0330	Green Canyon	300
GC0247	Green Canyon	300	GC0331	Green Canyon	300
GC0248	Green Canyon	300	GC0332	Green Canyon	300
GC0249	Green Canyon	300	GC0333	Green Canyon	300
GC0250	Green Canyon	300	GC0334	Green Canyon	300
GC0251	Green Canyon	300	GC0335	Green Canyon	300
GC0252	Green Canyon	300	GC0336	Green Canyon	300
GC0253	Green Canyon	300	GC0337	Green Canyon	300
GC0254	Green Canyon	300	GC0338	Green Canyon	300
GC0255	Green Canyon	300	GC0339	Green Canyon	300
GC0256	Green Canyon	300	GC0340	Green Canyon	300
GC0257	Green Canyon	300	GC0341	Green Canyon	300
GC0258	Green Canyon	300	GC0342	Green Canyon	300
GC0259	Green Canyon	300	GC0343	Green Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
GC0344	Green Canyon	300	GC0428	Green Canyon	300
GC0345	Green Canyon	300	GC0429	Green Canyon	300
GC0346	Green Canyon	300	GC0430	Green Canyon	300
GC0347	Green Canyon	300	GC0431	Green Canyon	300
GC0348	Green Canyon	300	GC0432	Green Canyon	300
GC0349	Green Canyon	300	GC0433	Green Canyon	300
GC0370	Green Canyon	300	GC0434	Green Canyon	300
GC0371	Green Canyon	300	GC0435	Green Canyon	300
GC0372	Green Canyon	300	GC0436	Green Canyon	300
GC0373	Green Canyon	300	GC0437	Green Canyon	300
GC0374	Green Canyon	300	MC0020	Mississippi Canyon	50
GC0375	Green Canyon	300	MC0021	Mississippi Canyon	50
GC0376	Green Canyon	300	MC0022	Mississippi Canyon	300
GC0377	Green Canyon	300	MC0023	Mississippi Canyon	300
GC0378	Green Canyon	300	MC0024	Mississippi Canyon	300
GC0379	Green Canyon	300	MC0025	Mississippi Canyon	300
GC0380	Green Canyon	300	MC0026	Mississippi Canyon	300
GC0381	Green Canyon	300	MC0027	Mississippi Canyon	300
GC0382	Green Canyon	300	MC0028	Mississippi Canyon	300
GC0383	Green Canyon	300	MC0029	Mississippi Canyon	300
GC0384	Green Canyon	300	MC0030	Mississippi Canyon	300
GC0385	Green Canyon	300	MC0031	Mississippi Canyon	300
GC0386	Green Canyon	300	MC0032	Mississippi Canyon	300
GC0387	Green Canyon	300	MC0033	Mississippi Canyon	300
GC0388	Green Canyon	300	MC0034	Mississippi Canyon	300
GC0389	Green Canyon	300	MC0035	Mississippi Canyon	300
GC0390	Green Canyon	300	MC0036	Mississippi Canyon	300
GC0391	Green Canyon	300	MC0037	Mississippi Canyon	300
GC0392	Green Canyon	300	MC0038	Mississippi Canyon	300
GC0393	Green Canyon	300	MC0039	Mississippi Canyon	300
GC0414	Green Canyon	300	MC0040	Mississippi Canyon	300
GC0415	Green Canyon	300	MC0041	Mississippi Canyon	300
GC0416	Green Canyon	300	MC0064	Mississippi Canyon	300
GC0417	Green Canyon	300	MC0065	Mississippi Canyon	300
GC0418	Green Canyon	300	MC0066	Mississippi Canyon	300
GC0419	Green Canyon	300	MC0067	Mississippi Canyon	300
GC0420	Green Canyon	300	MC0068	Mississippi Canyon	300
GC0421	Green Canyon	300	MC0069	Mississippi Canyon	300
GC0422	Green Canyon	300	MC0070	Mississippi Canyon	300
GC0423	Green Canyon	300	MC0071	Mississippi Canyon	300
GC0424	Green Canyon	300	MC0072	Mississippi Canyon	300
GC0425	Green Canyon	300	MC0073	Mississippi Canyon	300
GC0426	Green Canyon	300	MC0075	Mississippi Canyon	300
GC0427	Green Canyon	300	MC0076	Mississippi Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0077	Mississippi Canyon	300	MC0157	Mississippi Canyon	300
MC0078	Mississippi Canyon	300	MC0158	Mississippi Canyon	300
MC0079	Mississippi Canyon	300	MC0159	Mississippi Canyon	300
MC0080	Mississippi Canyon	300	MC0160	Mississippi Canyon	300
MC0081	Mississippi Canyon	300	MC0161	Mississippi Canyon	300
MC0082	Mississippi Canyon	300	MC0162	Mississippi Canyon	300
MC0083	Mississippi Canyon	300	MC0163	Mississippi Canyon	300
MC0084	Mississippi Canyon	300	MC0164	Mississippi Canyon	300
MC0085	Mississippi Canyon	300	MC0165	Mississippi Canyon	300
MC0103	Mississippi Canyon	50	MC0166	Mississippi Canyon	300
MC0104	Mississippi Canyon	50	MC0167	Mississippi Canyon	300
MC0107	Mississippi Canyon	300	MC0168	Mississippi Canyon	300
MC0108	Mississippi Canyon	300	MC0169	Mississippi Canyon	300
MC0109	Mississippi Canyon	300	MC0170	Mississippi Canyon	300
MC0110	Mississippi Canyon	300	MC0171	Mississippi Canyon	300
MC0111	Mississippi Canyon	300	MC0172	Mississippi Canyon	300
MC0112	Mississippi Canyon	300	MC0173	Mississippi Canyon	300
MC0113	Mississippi Canyon	300	MC0190	Mississippi Canyon	50
MC0114	Mississippi Canyon	300	MC0191	Mississippi Canyon	50
MC0115	Mississippi Canyon	300	MC0192	Mississippi Canyon	300
MC0116	Mississippi Canyon	300	MC0193	Mississippi Canyon	300
MC0117	Mississippi Canyon	300	MC0194	Mississippi Canyon	300
MC0118	Mississippi Canyon	300	MC0196	Mississippi Canyon	300
MC0119	Mississippi Canyon	300	MC0197	Mississippi Canyon	300
MC0120	Mississippi Canyon	300	MC0198	Mississippi Canyon	300
MC0121	Mississippi Canyon	300	MC0199	Mississippi Canyon	300
MC0122	Mississippi Canyon	300	MC0200	Mississippi Canyon	300
MC0123	Mississippi Canyon	300	MC0201	Mississippi Canyon	300
MC0124	Mississippi Canyon	300	MC0202	Mississippi Canyon	300
MC0125	Mississippi Canyon	300	MC0203	Mississippi Canyon	300
MC0126	Mississippi Canyon	300	MC0204	Mississippi Canyon	300
MC0127	Mississippi Canyon	300	MC0205	Mississippi Canyon	300
MC0128	Mississippi Canyon	300	MC0207	Mississippi Canyon	300
MC0129	Mississippi Canyon	300	MC0208	Mississippi Canyon	300
MC0147	Mississippi Canyon	50	MC0209	Mississippi Canyon	300
MC0148	Mississippi Canyon	300	MC0210	Mississippi Canyon	300
MC0149	Mississippi Canyon	300	MC0211	Mississippi Canyon	300
MC0150	Mississippi Canyon	300	MC0212	Mississippi Canyon	300
MC0151	Mississippi Canyon	300	MC0213	Mississippi Canyon	300
MC0152	Mississippi Canyon	300	MC0214	Mississippi Canyon	300
MC0153	Mississippi Canyon	300	MC0215	Mississippi Canyon	300
MC0154	Mississippi Canyon	300	MC0216	Mississippi Canyon	300
MC0155	Mississippi Canyon	300	MC0217	Mississippi Canyon	300
MC0156	Mississippi Canyon	300	MC0234	Mississippi Canyon	50

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0235	Mississippi Canyon	300	MC0289	Mississippi Canyon	300
MC0236	Mississippi Canyon	300	MC0290	Mississippi Canyon	300
MC0237	Mississippi Canyon	300	MC0291	Mississippi Canyon	300
MC0238	Mississippi Canyon	300	MC0292	Mississippi Canyon	300
MC0239	Mississippi Canyon	300	MC0293	Mississippi Canyon	300
MC0240	Mississippi Canyon	300	MC0295	Mississippi Canyon	300
MC0241	Mississippi Canyon	300	MC0296	Mississippi Canyon	300
MC0242	Mississippi Canyon	300	MC0297	Mississippi Canyon	300
MC0243	Mississippi Canyon	300	MC0298	Mississippi Canyon	300
MC0244	Mississippi Canyon	300	MC0299	Mississippi Canyon	300
MC0245	Mississippi Canyon	300	MC0300	Mississippi Canyon	300
MC0246	Mississippi Canyon	300	MC0301	Mississippi Canyon	300
MC0247	Mississippi Canyon	300	MC0302	Mississippi Canyon	300
MC0248	Mississippi Canyon	300	MC0304	Mississippi Canyon	300
MC0249	Mississippi Canyon	300	MC0305	Mississippi Canyon	300
MC0250	Mississippi Canyon	300	MC0309	Mississippi Canyon	300
MC0251	Mississippi Canyon	300	MC0310	Mississippi Canyon	300
MC0252	Mississippi Canyon	300	MC0311	Mississippi Canyon	300
MC0253	Mississippi Canyon	300	MC0312	Mississippi Canyon	300
MC0254	Mississippi Canyon	300	MC0313	Mississippi Canyon	50
MC0255	Mississippi Canyon	300	MC0316	Mississippi Canyon	50
MC0256	Mississippi Canyon	300	MC0317	Mississippi Canyon	50
MC0257	Mississippi Canyon	300	MC0318	Mississippi Canyon	50
MC0258	Mississippi Canyon	300	MC0319	Mississippi Canyon	50
MC0259	Mississippi Canyon	300	MC0320	Mississippi Canyon	50
MC0260	Mississippi Canyon	300	MC0321	Mississippi Canyon	50
MC0261	Mississippi Canyon	300	MC0322	Mississippi Canyon	300
MC0265	Mississippi Canyon	300	MC0323	Mississippi Canyon	300
MC0266	Mississippi Canyon	300	MC0324	Mississippi Canyon	300
MC0267	Mississippi Canyon	300	MC0325	Mississippi Canyon	300
MC0268	Mississippi Canyon	50	MC0326	Mississippi Canyon	300
MC0269	Mississippi Canyon	50	MC0327	Mississippi Canyon	300
MC0277	Mississippi Canyon	50	MC0328	Mississippi Canyon	300
MC0278	Mississippi Canyon	50	MC0329	Mississippi Canyon	300
MC0279	Mississippi Canyon	300	MC0330	Mississippi Canyon	300
MC0280	Mississippi Canyon	300	MC0331	Mississippi Canyon	300
MC0281	Mississippi Canyon	300	MC0332	Mississippi Canyon	300
MC0282	Mississippi Canyon	300	MC0333	Mississippi Canyon	300
MC0283	Mississippi Canyon	300	MC0334	Mississippi Canyon	300
MC0284	Mississippi Canyon	300	MC0335	Mississippi Canyon	300
MC0285	Mississippi Canyon	300	MC0336	Mississippi Canyon	300
MC0286	Mississippi Canyon	300	MC0337	Mississippi Canyon	300
MC0287	Mississippi Canyon	300	MC0339	Mississippi Canyon	300
MC0288	Mississippi Canyon	300	MC0340	Mississippi Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0341	Mississippi Canyon	300	MC0389	Mississippi Canyon	300
MC0342	Mississippi Canyon	300	MC0390	Mississippi Canyon	300
MC0343	Mississippi Canyon	300	MC0391	Mississippi Canyon	300
MC0344	Mississippi Canyon	300	MC0392	Mississippi Canyon	300
MC0345	Mississippi Canyon	300	MC0393	Mississippi Canyon	300
MC0346	Mississippi Canyon	300	MC0397	Mississippi Canyon	300
MC0347	Mississippi Canyon	300	MC0398	Mississippi Canyon	300
MC0348	Mississippi Canyon	300	MC0399	Mississippi Canyon	300
MC0349	Mississippi Canyon	300	MC0400	Mississippi Canyon	300
MC0353	Mississippi Canyon	300	MC0401	Mississippi Canyon	300
MC0354	Mississippi Canyon	300	MC0402	Mississippi Canyon	300
MC0355	Mississippi Canyon	300	MC0403	Mississippi Canyon	300
MC0356	Mississippi Canyon	300	MC0404	Mississippi Canyon	300
MC0357	Mississippi Canyon	300	MC0405	Mississippi Canyon	300
MC0358	Mississippi Canyon	300	MC0406	Mississippi Canyon	300
MC0359	Mississippi Canyon	300	MC0407	Mississippi Canyon	300
MC0360	Mississippi Canyon	300	MC0408	Mississippi Canyon	300
MC0361	Mississippi Canyon	300	MC0409	Mississippi Canyon	300
MC0362	Mississippi Canyon	300	MC0410	Mississippi Canyon	300
MC0363	Mississippi Canyon	300	MC0411	Mississippi Canyon	300
MC0363A	Mississippi Canyon	300	MC0412	Mississippi Canyon	300
MC0364	Mississippi Canyon	300	MC0413	Mississippi Canyon	300
MC0365	Mississippi Canyon	300	MC0414	Mississippi Canyon	300
MC0366	Mississippi Canyon	300	MC0415	Mississippi Canyon	300
MC0367	Mississippi Canyon	300	MC0416	Mississippi Canyon	300
MC0368	Mississippi Canyon	300	MC0417	Mississippi Canyon	300
MC0369	Mississippi Canyon	300	MC0418	Mississippi Canyon	300
MC0370	Mississippi Canyon	300	MC0419	Mississippi Canyon	300
MC0371	Mississippi Canyon	300	MC0420	Mississippi Canyon	300
MC0372	Mississippi Canyon	300	MC0421	Mississippi Canyon	300
MC0373	Mississippi Canyon	300	MC0422	Mississippi Canyon	300
MC0374	Mississippi Canyon	300	MC0423	Mississippi Canyon	300
MC0375	Mississippi Canyon	300	MC0424	Mississippi Canyon	300
MC0376	Mississippi Canyon	300	MC0425	Mississippi Canyon	300
MC0377	Mississippi Canyon	300	MC0426	Mississippi Canyon	300
MC0378	Mississippi Canyon	300	MC0427	Mississippi Canyon	300
MC0379	Mississippi Canyon	300	MC0428	Mississippi Canyon	300
MC0380	Mississippi Canyon	300	MC0429	Mississippi Canyon	300
MC0381	Mississippi Canyon	300	MC0430	Mississippi Canyon	300
MC0382	Mississippi Canyon	300	MC0431	Mississippi Canyon	300
MC0383	Mississippi Canyon	300	MC0432	Mississippi Canyon	300
MC0384	Mississippi Canyon	300	MC0433	Mississippi Canyon	300
MC0385	Mississippi Canyon	300	MC0434	Mississippi Canyon	300
MC0388	Mississippi Canyon	300	MC0435	Mississippi Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0436	Mississippi Canyon	300	MC0489	Mississippi Canyon	300
MC0437	Mississippi Canyon	300	MC0490	Mississippi Canyon	300
MC0441	Mississippi Canyon	300	MC0491	Mississippi Canyon	300
MC0442	Mississippi Canyon	300	MC0492	Mississippi Canyon	300
MC0443	Mississippi Canyon	300	MC0493	Mississippi Canyon	300
MC0444	Mississippi Canyon	300	MC0494	Mississippi Canyon	300
MC0445	Mississippi Canyon	300	MC0495	Mississippi Canyon	300
MC0446	Mississippi Canyon	300	MC0496	Mississippi Canyon	300
MC0447	Mississippi Canyon	300	MC0501	Mississippi Canyon	300
MC0448	Mississippi Canyon	300	MC0502	Mississippi Canyon	300
MC0449	Mississippi Canyon	300	MC0503	Mississippi Canyon	300
MC0450	Mississippi Canyon	300	MC0504	Mississippi Canyon	300
MC0451	Mississippi Canyon	300	MC0505	Mississippi Canyon	300
MC0452	Mississippi Canyon	300	MC0506	Mississippi Canyon	300
MC0453	Mississippi Canyon	300	MC0507	Mississippi Canyon	300
MC0457	Mississippi Canyon	300	MC0508	Mississippi Canyon	300
MC0458	Mississippi Canyon	300	MC0509	Mississippi Canyon	300
MC0459	Mississippi Canyon	300	MC0510	Mississippi Canyon	300
MC0460	Mississippi Canyon	300	MC0511	Mississippi Canyon	300
MC0461	Mississippi Canyon	300	MC0512	Mississippi Canyon	300
MC0462	Mississippi Canyon	300	MC0513	Mississippi Canyon	300
MC0463	Mississippi Canyon	300	MC0514	Mississippi Canyon	300
MC0464	Mississippi Canyon	300	MC0515	Mississippi Canyon	300
MC0465	Mississippi Canyon	300	MC0516	Mississippi Canyon	300
MC0466	Mississippi Canyon	300	MC0517	Mississippi Canyon	300
MC0467	Mississippi Canyon	300	MC0518	Mississippi Canyon	300
MC0468	Mississippi Canyon	300	MC0519	Mississippi Canyon	300
MC0469	Mississippi Canyon	300	MC0520	Mississippi Canyon	300
MC0470	Mississippi Canyon	300	MC0521	Mississippi Canyon	300
MC0471	Mississippi Canyon	300	MC0522	Mississippi Canyon	300
MC0472	Mississippi Canyon	300	MC0523	Mississippi Canyon	300
MC0473	Mississippi Canyon	300	MC0524	Mississippi Canyon	300
MC0474	Mississippi Canyon	300	MC0525	Mississippi Canyon	300
MC0475	Mississippi Canyon	300	MC0529	Mississippi Canyon	300
MC0476	Mississippi Canyon	300	MC0530	Mississippi Canyon	300
MC0477	Mississippi Canyon	300	MC0531	Mississippi Canyon	300
MC0478	Mississippi Canyon	300	MC0532	Mississippi Canyon	300
MC0479	Mississippi Canyon	300	MC0533	Mississippi Canyon	300
MC0480	Mississippi Canyon	300	MC0534	Mississippi Canyon	300
MC0481	Mississippi Canyon	300	MC0535	Mississippi Canyon	300
MC0485	Mississippi Canyon	300	MC0536	Mississippi Canyon	300
MC0486	Mississippi Canyon	300	MC0537	Mississippi Canyon	300
MC0487	Mississippi Canyon	300	MC0538	Mississippi Canyon	300
MC0488	Mississippi Canyon	300	MC0539	Mississippi Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0540	Mississippi Canyon	300	MC0590	Mississippi Canyon	300
MC0541	Mississippi Canyon	300	MC0591	Mississippi Canyon	300
MC0545	Mississippi Canyon	300	MC0592	Mississippi Canyon	300
MC0546	Mississippi Canyon	300	MC0593	Mississippi Canyon	300
MC0547	Mississippi Canyon	300	MC0594	Mississippi Canyon	300
MC0548	Mississippi Canyon	300	MC0595	Mississippi Canyon	300
MC0549	Mississippi Canyon	300	MC0596	Mississippi Canyon	300
MC0550	Mississippi Canyon	300	MC0597	Mississippi Canyon	300
MC0551	Mississippi Canyon	300	MC0598	Mississippi Canyon	300
MC0552	Mississippi Canyon	300	MC0599	Mississippi Canyon	300
MC0553	Mississippi Canyon	300	MC0600	Mississippi Canyon	300
MC0554	Mississippi Canyon	300	MC0601	Mississippi Canyon	300
MC0555	Mississippi Canyon	300	MC0602	Mississippi Canyon	300
MC0556	Mississippi Canyon	300	MC0603	Mississippi Canyon	300
MC0557	Mississippi Canyon	300	MC0604	Mississippi Canyon	300
MC0558	Mississippi Canyon	300	MC0605	Mississippi Canyon	300
MC0559	Mississippi Canyon	300	MC0606	Mississippi Canyon	300
MC0560	Mississippi Canyon	300	MC0607	Mississippi Canyon	300
MC0561	Mississippi Canyon	300	MC0608	Mississippi Canyon	300
MC0562	Mississippi Canyon	300	MC0609	Mississippi Canyon	300
MC0563	Mississippi Canyon	300	MC0610	Mississippi Canyon	300
MC0564	Mississippi Canyon	300	MC0611	Mississippi Canyon	300
MC0565	Mississippi Canyon	300	MC0612	Mississippi Canyon	300
MC0566	Mississippi Canyon	300	MC0613	Mississippi Canyon	300
MC0567	Mississippi Canyon	300	MC0617	Mississippi Canyon	300
MC0568	Mississippi Canyon	300	MC0618	Mississippi Canyon	300
MC0569	Mississippi Canyon	300	MC0619	Mississippi Canyon	300
MC0573	Mississippi Canyon	300	MC0620	Mississippi Canyon	300
MC0574	Mississippi Canyon	300	MC0621	Mississippi Canyon	300
MC0575	Mississippi Canyon	300	MC0622	Mississippi Canyon	300
MC0576	Mississippi Canyon	300	MC0623	Mississippi Canyon	300
MC0577	Mississippi Canyon	300	MC0624	Mississippi Canyon	300
MC0578	Mississippi Canyon	300	MC0625	Mississippi Canyon	300
MC0579	Mississippi Canyon	300	MC0626	Mississippi Canyon	300
MC0580	Mississippi Canyon	300	MC0627	Mississippi Canyon	300
MC0581	Mississippi Canyon	300	MC0628	Mississippi Canyon	300
MC0582	Mississippi Canyon	300	MC0629	Mississippi Canyon	300
MC0583	Mississippi Canyon	300	MC0630	Mississippi Canyon	300
MC0584	Mississippi Canyon	300	MC0631	Mississippi Canyon	300
MC0585	Mississippi Canyon	300	MC0632	Mississippi Canyon	300
MC0586	Mississippi Canyon	300	MC0633	Mississippi Canyon	300
MC0587	Mississippi Canyon	300	MC0634	Mississippi Canyon	300
MC0588	Mississippi Canyon	300	MC0635	Mississippi Canyon	300
MC0589	Mississippi Canyon	300	MC0636	Mississippi Canyon	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
MC0937	Mississippi Canyon	300	MC0987	Mississippi Canyon	300
MC0938	Mississippi Canyon	300	MC0988	Mississippi Canyon	300
MC0939	Mississippi Canyon	300	MC0989	Mississippi Canyon	300
MC0940	Mississippi Canyon	300	MC0990	Mississippi Canyon	300
MC0941	Mississippi Canyon	300	MC0991	Mississippi Canyon	300
MC0942	Mississippi Canyon	300	MC0992	Mississippi Canyon	300
MC0943	Mississippi Canyon	300	MC0993	Mississippi Canyon	300
MC0944	Mississippi Canyon	300	MC0994	Mississippi Canyon	300
MC0945	Mississippi Canyon	300	MC0995	Mississippi Canyon	300
MC0946	Mississippi Canyon	300	MC0996	Mississippi Canyon	300
MC0947	Mississippi Canyon	300	MC0997	Mississippi Canyon	300
MC0948	Mississippi Canyon	300	MC0998	Mississippi Canyon	300
MC0949	Mississippi Canyon	300	MC0999	Mississippi Canyon	300
MC0950	Mississippi Canyon	300	MC1000	Mississippi Canyon	300
MC0951	Mississippi Canyon	300	MC1001	Mississippi Canyon	300
MC0952	Mississippi Canyon	300	MC1002	Mississippi Canyon	300
MC0953	Mississippi Canyon	300	MC1003	Mississippi Canyon	300
MC0954	Mississippi Canyon	300	MC1004	Mississippi Canyon	300
MC0955	Mississippi Canyon	300	MC1005	Mississippi Canyon	300
MC0956	Mississippi Canyon	300	MC1006	Mississippi Canyon	300
MC0957	Mississippi Canyon	300	VK0654	Viosca Knoll	50
MC0958	Mississippi Canyon	300	VK0692	Viosca Knoll	50
MC0959	Mississippi Canyon	300	VK0693	Viosca Knoll	50
MC0960	Mississippi Canyon	300	VK0694	Viosca Knoll	50
MC0961	Mississippi Canyon	300	VK0695	Viosca Knoll	50
MC0962	Mississippi Canyon	300	VK0696	Viosca Knoll	50
MC0969	Mississippi Canyon	300	VK0697	Viosca Knoll	300
MC0970	Mississippi Canyon	300	VK0698	Viosca Knoll	300
MC0971	Mississippi Canyon	300	VK0734	Viosca Knoll	50
MC0972	Mississippi Canyon	300	VK0735	Viosca Knoll	50
MC0973	Mississippi Canyon	300	VK0736	Viosca Knoll	300
MC0974	Mississippi Canyon	300	VK0737	Viosca Knoll	300
MC0975	Mississippi Canyon	300	VK0738	Viosca Knoll	300
MC0976	Mississippi Canyon	300	VK0739	Viosca Knoll	300
MC0977	Mississippi Canyon	300	VK0740	Viosca Knoll	300
MC0978	Mississippi Canyon	300	VK0741	Viosca Knoll	300
MC0979	Mississippi Canyon	300	VK0742	Viosca Knoll	300
MC0980	Mississippi Canyon	300	VK0772	Viosca Knoll	50
MC0981	Mississippi Canyon	300	VK0773	Viosca Knoll	50
MC0982	Mississippi Canyon	300	VK0774	Viosca Knoll	50
MC0983	Mississippi Canyon	300	VK0775	Viosca Knoll	50
MC0984	Mississippi Canyon	300	VK0776	Viosca Knoll	300
MC0985	Mississippi Canyon	300	VK0777	Viosca Knoll	300
MC0986	Mississippi Canyon	300	VK0778	Viosca Knoll	300

	Protraction Diagram	Line Spacing		Protraction Diagram	Line Spacing
VK0779	Viosca Knoll	300	VK0909	Viosca Knoll	300
VK0780	Viosca Knoll	300	VK0910	Viosca Knoll	300
VK0784	Viosca Knoll	300	VK0911	Viosca Knoll	300
VK0785	Viosca Knoll	300	VK0915	Viosca Knoll	300
VK0786	Viosca Knoll	300	VK0916	Viosca Knoll	300
VK0814	Viosca Knoll	50	VK0917	Viosca Knoll	300
VK0815	Viosca Knoll	50	VK0918	Viosca Knoll	300
VK0816	Viosca Knoll	300	VK0940	Viosca Knoll	50
VK0818	Viosca Knoll	300	VK0941	Viosca Knoll	50
VK0819	Viosca Knoll	300	VK0944	Viosca Knoll	300
VK0820	Viosca Knoll	300	VK0945	Viosca Knoll	300
VK0821	Viosca Knoll	300	VK0946	Viosca Knoll	300
VK0822	Viosca Knoll	300	VK0947	Viosca Knoll	300
VK0823	Viosca Knoll	300	VK0948	Viosca Knoll	300
VK0824	Viosca Knoll	300	VK0949	Viosca Knoll	300
VK0828	Viosca Knoll	300	VK0950	Viosca Knoll	300
VK0829	Viosca Knoll	300	VK0951	Viosca Knoll	300
VK0830	Viosca Knoll	300	VK0952	Viosca Knoll	300
VK0856	Viosca Knoll	50	VK0953	Viosca Knoll	300
VK0857	Viosca Knoll	50	VK0954	Viosca Knoll	300
VK0859	Viosca Knoll	300	VK0955	Viosca Knoll	300
VK0860	Viosca Knoll	300	VK0959	Viosca Knoll	300
VK0861	Viosca Knoll	300	VK0961	Viosca Knoll	300
VK0862	Viosca Knoll	300	VK0962	Viosca Knoll	300
VK0863	Viosca Knoll	300	VK0983	Viosca Knoll	50
VK0864	Viosca Knoll	300	VK0984	Viosca Knoll	300
VK0865	Viosca Knoll	300	VK0985	Viosca Knoll	300
VK0866	Viosca Knoll	300	VK0987	Viosca Knoll	300
VK0867	Viosca Knoll	300	VK0988	Viosca Knoll	300
VK0868	Viosca Knoll	300	VK0989	Viosca Knoll	300
VK0872	Viosca Knoll	300	VK0990	Viosca Knoll	300
VK0873	Viosca Knoll	300	VK0991	Viosca Knoll	300
VK0874	Viosca Knoll	300	VK0992	Viosca Knoll	300
VK0898	Viosca Knoll	50	VK0993	Viosca Knoll	300
VK0899	Viosca Knoll	50	VK0994	Viosca Knoll	300
VK0900	Viosca Knoll	300	VK0995	Viosca Knoll	300
VK0901	Viosca Knoll	300	VK0996	Viosca Knoll	300
VK0902	Viosca Knoll	300	VK0997	Viosca Knoll	300
VK0903	Viosca Knoll	300	VK0998	Viosca Knoll	300
VK0904	Viosca Knoll	300	VK0999	Viosca Knoll	300
VK0905	Viosca Knoll	300	VK1003	Viosca Knoll	300
VK0906	Viosca Knoll	300	VK1004	Viosca Knoll	300
VK0907	Viosca Knoll	300	VK1005	Viosca Knoll	300
VK0908	Viosca Knoll	300	VK1006	Viosca Knoll	300