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<thead>
<tr>
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<th>PIPE LAY BARGE RECOVERY</th>
<th>REEL SHIP RECOVERY</th>
<th>WORK / CRANE BARGE CUTTING &amp; LIFT RECOVERY</th>
<th>PIPE TOWING ON / OFF BOTTOM</th>
<th>S - LIFT RECOVERY</th>
<th>J - LIFT RECOVERY</th>
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COMPARISON OF PIPELINE RECOVERY PROCEDURES
RECOVERY OF ABANDONED PIPELINE BY REVERSE LAY PROCESS
Figure 4.12

RECOVERY OF ABANDONED PIPELINE BY REVERSE REEL BARGE LAY PROCESS
Figure 4.13

CONVERTED RECOVERY VESSEL
PIPELINE LIFT DAVITS
PIPELINE LIFT DAVITS

CONVERTED RECOVERY VESSEL
TENSIONER
TENSIONER

PIPELINE LIFT DAVITS
HOLD BACK WINCH
HOLD BACK WINCH

FLOTATION BAGS
FLOTATION BAGS

SEA LEVEL
SEA LEVEL

ABANDONED PIPELINE
ABANDONED PIPELINE

SEA BED
SEA BED

B Buried Pipeline
B Buried Pipeline

Hinged Pipe Stingers (Fore and Aft)
Hinged Pipe Stingers (Fore and Aft)

Anchor Lines
Anchor Lines

Offshore Tug
Offshore Tug

Cut and Install End Cap
Cut and Install End Cap

Flotation Bags
Flotation Bags

Tow Head
Tow Head

LONG SECTION PIPELINE RECOVERY
LONG SECTION PIPELINE RECOVERY
Figure 4.14

SPECIAL CONVERSION VESSEL

POWER / CONTROL SUPPLY

SUB-SEA CONTROL RECOVERY VESSEL,
DEBURYING, CUTTING AND
INSTALLATION OF LIFTING ASSEMBLY

BURIED PIPELINE

SHORT SECTION RECOVERY BY SPECIALLY CONVERTED VESSEL
DEBURIAL BY LIFTING AND JETTING.
- DIVER ATTACHES LIFTING CABLES, INSTALLS CUTTING EXPLOSIVE BELTS AND RETURNS TO D.S.V.
- ALL LIFTING CABLES AND CONTROL WIRES ARE ATTACHED TO MARKER BUOYS AND RELEASED FROM D.S.V.
- CUTTING DEVICES ARE ACTIVATED.
- RECOVERY AND CRUSHING VESSEL READY FOR RETRIEVAL.
- PIPE SECTIONS RECOVERED, WEIGHT COATING REMOVED, PIPE MADE READY FOR TRANSPORTATION.
- CONCRETE WEIGHT COATING RECOVERED FOR STORAGE AND SUBSEQUENT DUMPING.

SHORT SECTION RECOVERY WITH DIVERS AND WORK / CRANE BARGE
Figure 4.16

CONVERTED VESSEL FOR PIPELINE RECOVERY AND CUTTING

PIPELINE LIFT DAVITS

CUT-PIPE TRANSFER CRANE

STORAGE AND TRANSPORTATION BARGE

ANCHOR LINES

CUTTING STATION

PIPELINE LIFTING CABLE

DEWATERED PIPELINE

SHORT SECTION (SINGLE/DOUBLE JOINT) PIPELINE RECOVERY