@ Purpose of Pipeline:

To Transfer Fluid From A to B. -Production Pipelines: Transport hydro Carbon production Pluids from a subsea wells or subsea pravibilds to facility Such as a Platform, a subsca manifolder a floating Production, Storage and off Lording Vessels (FPSD) - Export Pipelines:transport Processed oil or gas between offshare
facilities or to an onshore terminal. - service lines :transport fluids to subsen facilities to assist Production this includes. - Fas lift - water injection - Chemical injection (x) Types of Pipeline · Single Pipe - wet ingulation, usulues down to ~ 2.5 w/m K - Collogion Coating - Conceret weight Gating - Direct electrical Heating. MCS - Recled or Barge Laid.

Date(1/10/202)	Su Mo Tu We Th Fr Sa
· Pipe-in-Pipe	
- one pipe inside another - one pipe inside another - Ory insulation in the annul - Corrossion Coating required & - Rededor Barge Laid. - Bundles	Providing a dry annulus.
- Dry insulation in the annul	lus achieving U- Vales as low or
- Corrosion Coating required	for the outer or Carrier Pipe
- Rededor Barge Laid.	
- Numbers of Pipplines, servi	ce lines, Cables.
- Con accommedate dry insul	ation and internal heating St.
- limited to avound 7.5 k	en lengths.
- Fabricated onshore and to	swed to the offshore Location
- Fabricated with towhear	15.
- Fabricated with townead - in Creased risk and diff	i Cut to repair.
Flexibles	1
- Concentric Layers of Plass	tic and 39 Itally wound
- steel libers, each Perform	in a dibberent tunction.
- layers Con be adjusted	to need the specific
field development requireme	nt.
- provide a high degree of	L bending Flexibility
- steel Fibers, each Perform Layers Cor be adjusted Field development requirement Provide a high degree of and dynamic behavioris. - Commonly used for flexible - Expensive	0
- Commonly used for Flexible	risers and tie-ins.
- Expensive	
CE'A ACC	

Date / /	Su Mo Tu We Th Fr Sa
oum bilicals	F. C. C.
- Not a Pipeline but note was	they of there are
a number of similarities in des	in stabilite routing
Contains electrical Power Co	bles and steel and for
a number of similarities in designations electrical fower a thermoplastic uses for chemi	cals and hydralic flind.
a Piggy hack OiDelines	
- small service pipelines may be	Diggshaded & to
The Kalger back of a larger	Pipeline usin Piggshot
Clamps and straps.	Wast to design
I small service pipelines may be The Kacgar back of a larger Clamps and straps. - installed together for a cist	effective solution.
Tribe it is the	1
Para Landa Carlo	
We want to	
- 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·
	Deeplech
man de Himm	Control of the Section
	CORTEZ
	SUBSEA

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