

WellCAP Cross-reference Tool*
WIRELINE OPERATIONS
WCT-2WLF-X – FUNDAMENTAL LEVEL

WELLCAP WCT-2WLF FUNDAMENTAL LEVEL		REFERENCE TO APPLICATION MATERIALS (Note Where Each Topic Can Be Found)			
WELLCAP OUTLINE NO.	TRAINING TOPIC	MANUAL (Cite Chapter and Page No.)	LECTURE (Note Day/Time of Course Outline)	SIMULATION (Identify Exercise)	OTHER RESOURCE (Identify Video, CBT Program, Handout, Etc.)
I.	REASONS FOR WELL SERVICING OPERATIONS				
A.	Definitions of well servicing operations				
B.	Definitions of well servicing unit types				
C.	Reasons for well servicing operations which may include wireline				
II.	DEFINITIONS AND CALCULATIONS				
A.	Pressure fundamentals				
B.	Live wells and kicking wells				
C.	Force				
III.	KICK FUNDAMENTALS				
A.	Definition of a kick				
B.	Causes of kicks				
C.	Kick detection				
D.	Importance of responding to kick indicators in a timely manner				

* To further facilitate cross-referencing, the proposed document may include a margin or parenthetical reference to the appropriate WellCAP outline number.

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IV.	GAS CHARACTERISTICS AND BEHAVIOR				
A.	Pressure, volume, relationship (Boyle's Law)				
B.	Gas expansion and migration relationships				
V.	FLUIDS				
A.	Characteristics				
B.	Fluid types				
VI	SURFACE EQUIPMENT				
A.	Types of wireline				
B.	Components of wireline units				
C.	Production (Christmas or Xmas) tree				
D.	General rig and coiled tubing and snubbing units blowout preventer equipment				
E.	Auxiliary well control equipment				
F.	Wireline BOP/valve and pressure control equipment				
G.	Lubricator, stripper, stuffing box assemblies				
H.	Gas detection and handling systems				
I.	Safety systems & Emergency Shutdown Devices (ESDs)				

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VII.	SUBSURFACE EQUIPMENT				
A.	Workstring & production tubing, drillstring components				
B.	Completion equipment				
VIII.	PROCEDURES				
A.	Pre-recorded well information				
B.	Rigging up & deployment into well				
C.	Running, shifting & pulling tools				
D.	Shut-in				
E.	Verification of shut-in				
F.	Well monitoring during shut-in				
G.	Tripping				
H.	Stripping operations				
I.	Shearing wireline				
J.	Fishing wireline				
K.	Well control drills				
IX.	COMPLICATIONS AND SOLUTIONS				
A.	Trapped pressure				
B.	Pressure on casing				
C.	Lost circulation				
D.	Underground flow				
E.	Collapsed tubing				

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F.	Junk in hole				
G.	Hole in tubing				
H.	Stuck tool string				
I.	Fishing under pressure				
J.	Hole angle				
X.	ORGANIZING OPERATIONS				
A.	Personnel assignments				
B.	Pre-recorded informations				
C.	Plan responses to anticipated well control scenarios				
D.	Communications responsibilities				
XI.	TESTING				
A.	Testing pressure control equipment				
B.	Installation of rings, flanges and connections				
C.	Pressure & function tests				
XII.	GOVERNMENT, INDUSTRY & COMPANY RULES, ORDERS & POLICIES				
A.	Incorporate by reference				
XII.	SPECIAL SITUATIONS (OPTIONAL)				
A.	H2S considerations				

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A.	Subsea considerations				
B.	Coiled tubing operations				
C.	Drilling operations				
D.	Snubbing and HWO operations				
E.	Small tubing unit				
F.	Drilling operations				
G.	Workover operations				
H.	When pump unit is utilized: Techniques for controlling and/or killing a producing well				
I.	When pump unit is utilized: No returns pumping technique (e.g., bullheading)				