

GLOSSARY

2D	Seismic data collected in two-dimensional form, by utilizing a single sound source and one or more collection points; typically 2D is used to map geographical structures for initial analysis
3D	Seismic data collected in three-dimensional form, by utilizing two sound sources and two or more collection points; typically 3D is used to acquire refined seismic data and to raise the probability of successful exploration well drilling
Crude oil	Crude oil, including condensate and natural gas liquids
Day rate	Fixed daily fee charged with respect to the services provided by a drilling rig or offshore support vessel
Directional drilling	Intentional drilling of a well at a non-vertical or deviated angle, in order to improve reach or exposure to petroleum reservoirs; such drilling is especially common for offshore wells, given the multiple number of wells which may be drilled from a single production platform
Drilling fluids	Fluids, or drilling mud, circulated downwell during drilling to cool and lubricate the drill bit, remove well cuttings, maintain downwell pressures and preserve the integrity of the wellbore; drilling fluids can be water, oil, or gas-based, with various additives
E&P	Exploration and production
Field	A specified area within a block, which is designated under a PSC for development and production
HTHP	High-temperature and high-pressure downwell conditions, which typically includes temperatures greater than 200 degrees Celsius and 10,000psi; HTHP conditions make drilling more difficult
LWD	Logging-while-drilling; advanced logging tools which are attached near the drill bit string and measure the location of the drill bit and nature of adjacent geological structures, typically during the directional drilling process
MWD	Measuring-while-drilling; advanced tools which measure the pitch and orientation of the drill bit and other factors such as weight on the bit and rotary speed of the bit, typically during the directional drilling process
OPEC	Organization of the Petroleum Exporting Countries
PSC	A production sharing contract offshore China
PSC partners	Foreign parties to PSCs
Seismic data	Data recorded in either two-dimensional(2D)or three-dimensional(3D)form from sound wave reflections off of subsurface geology. This data is used to understand and map geological structures for exploratory purposes to predict the location of undiscovered reserves

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Streamers	Clear flexible tubing containing numerous hydrophones used for marine seismic surveys; streamers are towed behind seismic vessels at controlled shallow water depths to collect seismic data
Well completion	Services and installation of equipment that are necessary to prepare a well for production, including casing and well treatment, such as acidizing and fracturing
Well workover	Any work on a completed well designed to maintain, restore or improve production from a currently producing petroleum reservoir, this may include replacement of casing and well treatment, such as sand control, fracturing, acidizing
bbbl	A barrel, which is equivalent to approximately 158,988 liters or 0.134 tons of oil (at a API gravity of 33 degrees)
Kw	Kilowatts used to measure offshore supply vessel engine power capacity, which is equivalent to 1,36 horsepower