



WESTERN SITE TECHNOLOGIES

CORPORATE PROFILE

THERE ARE TWO PHASES IN THE TREATMENT PROCESS:

MIX STABILIZE—IN THIS STAGE OF THE TREATMENT **MUD-loc** IS ADDED TO THE DRILLING WASTE (USUALLY AT THE SHALE SHAKER) TO STABILIZE AND DRY THE MATERIAL. THIS STEP PREVENTS THE MIXTURE FROM LEACHING CONTAMINANTS INTO THE ENVIRONMENT. FROM THIS STAGE THE MIXTURE CAN BE STORED SAFELY ON LOCATION PENDING FURTHER TREATMENT. THIS STABILIZED MIXTURE CAN THEN BE TREATED BY ENCAPSULATION OR SENT OFF SITE FOR OTHER TREATMENT LIKE BIODEGRADATION OR LAND FARMING

ENCAPSULATION—ONCE DRILLING OPERATIONS HAVE CEASED THE STABILIZED WASTE MIX IS FURTHER TREATED BY MIXING THE TREATED MATERIAL WITH NORMAL PORTLAND CEMENT . THIS TREATMENT WILL CHEMICALLY ALTER THE MIX AND RENDER THE WASTE COMPLETELY SAFE FOR REUSE AS A STRUCTURAL CEMENT IMPROVEMENT ON THE LOCATION OR AS AGGREGATE FOR USE ON THE LEASE OR ACCESS ROAD.

NOTE: BIODEGRADATION OR LAND FARMING RESULTS WILL OCCUR 50% FASTER WITH STABILIZED MATERIAL. ANOTHER ADVANTAGE TO STABILIZING FOR THIS TYPE OF TREATMENT IS SAFETY, AS THE STABILIZED MATERIAL WILL NOT CONTAMINATE THE BIO OR LAND FARM AREA.



- ESTABLISHED IN 1996 TO DEVELOP AND COMMERCIALIZE ENVIRONMENTAL TECHNOLOGY
- WSTI HAS SEVERAL PROPRIETARY TECHNOLOGIES INCLUDING :
 - MUD-loc** A TREATMENT FOR INVERT DRILLING WASTE
 - TOXIC-loc**—A TREATMENT FOR HAZARDOUS WASTE
 - AGRO-loc**—A DRY LAND SOIL TREATMENT WHICH ENHANCES HYDRATION FOR RECLAMATION PROJECTS
 - BIO-maze**—A FAST TRACK BIOTREATMENT FOR WASTE DAMAGED SOILS
 - THERM-tec**—A HIGH TEMPERATURE THERMAL TREATMENT FOR HYDRO-CARBON DAMAGED SOILS
- WSTI ASSOCIATES ARE TOP PROFESSIONALS IN THEIR RESPECTIVE FIELDS
- WSTI CAN PROVIDE CONSULTING SERVICES, PROJECT MANAGEMENT, OR COMPLETE TURN KEY PROCESSING. DEPENDING ON THE CLIENTS NEEDS
- CAPABLE OF PROVIDING UNIQUE RISK MANAGEMENT SERVICES INCLUDING "CUSTOM INSURANCE" AND PROJECT DESIGNED ENVIRONMENTAL BONDS.
- HAS PROVIDED SERVICES IN LIBYA, ABU DHABI, THE PEOPLES REPUBLIC OF CHINA, AND IN THE FORMER HONG KONG CROWN COLONY



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ON SITE TREATMENT OF INVERT DRILLING WASTE



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WHAT IS MUD-loc?

MUD-loc IS AN AMORPHOUS, DIATOMACEOUS, ALUMINO-SILICA. IT IS AN INERT, NATURALLY OCCURRING MINERAL.

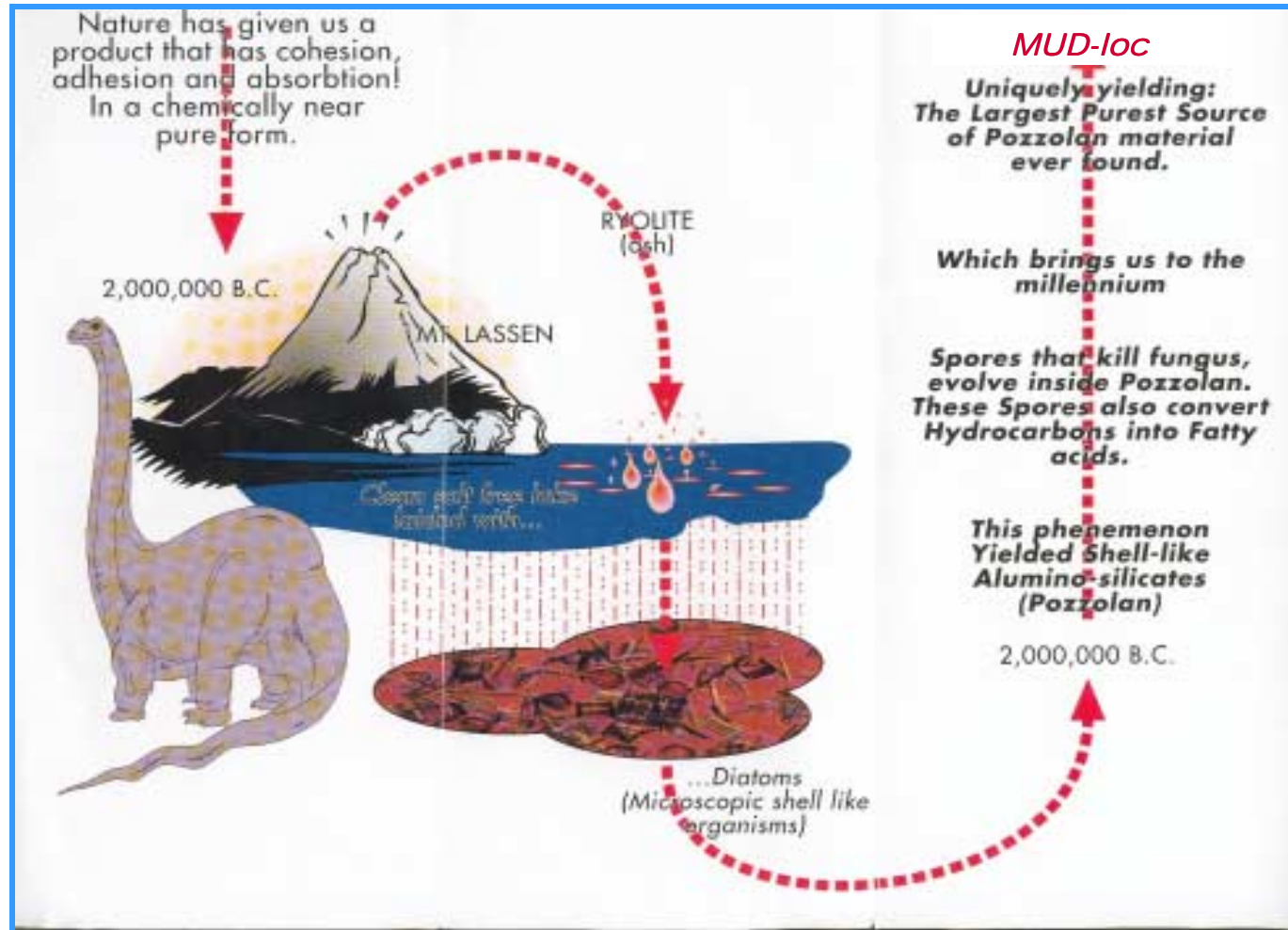
MUD-loc WAS FORMED MILLIONS OF YEARS AGO WHEN THE LASSEN VOLCANOES ERUPTED AND SENT SILICA ASH THOUSANDS OF FEET INTO THE ATMOSPHERE, THIS SILICA EXPANDED TO FORM AMORPHOUS SILICA MICRO CHAMBERS. THIS ASH FELL INTO A COLD DEEP LAKE AND AMALGAMATED WITH THE DIATOMS THAT LIVED THERE, THE PURE SILICA OF THE DIATOM'S SHELLS ADDED TO THE STRUCTURE OF THE MINERAL, GIVING IT UNIQUE PROPERTIES WHICH ARE NOT FOUND IN ANY OTHER MINERAL OF ITS TYPE WORLDWIDE.

PROPERTIES OF MUD-loc:

IT HAS AN ENORMOUS SURFACE AREA (IN FACT AN 8 OUNCE GLASS FULL OF THE PRODUCT HAS A SURFACE AREA OF 1 HECTARE!)

IT WILL ABSORB 95% OF ITS VOLUME

IT WILL REJECT WATER IN FAVOR OF HYDROCARBON



IT HAS AN IONIC AFFINITY FOR MOST OF THE HARMFUL HEAVY METALS

ONCE IT HAS ABSORBED HYDROCARBONS AND BOUND UP HEAVY METALS IT IS EXTREMELY RELUCTANT TO RELEASE EITHER.

