



SITE INVESTIGATION

SAMPLING WITH THE GEOBOR S WIRELINE SYSTEM

WE ARE ONE OF THE UK'S LEADING DRILLING SPECIALISTS AND AS SUCH ARE ABLE TO OFFER A WIDE RANGE OF SAMPLING AND TESTING TECHNIQUES. DUE TO THE INCREASING DEMAND FOR UNDISTURBED CLASS 1 SAMPLING WE HAVE INVESTED HEAVILY IN GEOBOR S, WHICH IS A STATE OF THE ART CORE SAMPLING SYSTEM. GEOBOR S IS A TRIPLE TUBE WIRELINE CORING SYSTEM DESIGNED TO PRODUCE A SUPERIOR SAMPLING SOLUTION WHEN INVESTIGATING SOFT TO MEDIUM HARD FORMATIONS.

OUR RANGE OF CERTIFIED AND WELL MAINTAINED EQUIPMENT AND FULLY TRAINED CREWS CAN COVER MOST SITE INVESTIGATION REQUIREMENTS. WE HAVE A RANGE OF TRACK OR TRUCK MOUNTED DRILLING RIGS AND CORING EQUIPMENT TO MEET YOUR NEEDS. WE CAN ALSO SUPPLY ANCILLARY EQUIPMENT FOR ALL TERRAINS AND ENVIRONMENTS INCLUDING REMOTE CONTROL TRACK MOUNTED COMPRESSORS, TRIPLEX PUMPS AND COMPACT MUD TREATMENT SYSTEMS.

SEE OVERLEAF FOR EXAMPLES OF THE GEOBOR S IN ACTION.



GEOTECHNICAL EXPLORATION SERVICES

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THE GEOBOR S IN ACTION

PERFECT CORING REVEALS PREHISTORIC LANDFALL

WHEN THE BRITISH GEOLOGICAL SURVEY NEEDED 100% RECOVERY ON A PREHISTORIC SITE OF MAJOR IMPORTANCE WE KNEW **THE GEOBOR S** WAS THE CORRECT TOOL FOR THE JOB. THE DRILLING WAS AIMED AT INVESTIGATING THE PERIOD WHEN THE FIRST FAUNA, TETRAPODS (MEANING FOUR FEET), ARE BELIEVED TO HAVE LEFT THE EVAPORATING SEA TO SURVIVE ON LAND. THE BOREHOLE LOCATION WAS CHOSEN TO PENETRATE THE FULL SEQUENCE OF THE BAGALLAN FORMATION IN THE HOPE OF FINDING DELICATE FOSSIL EVIDENCE OF THE EVENT.

DUE TO OUR EXPERTISE IN EQUIPMENT SELECTION, WE WERE ABLE TO REALISE SOME COST SAVINGS FOR THE BGS. ALTHOUGH THE PROJECT REQUIRED EFFICIENT CORE DRILLING TO A DEPTH OF OVER 500M AND THE DESIGN OF THE BOREHOLE HAD ALLOWED FOR THE INSTALLATION OF A SECONDARY CASING TO PROTECT AGAINST SWELLING STRATA ENTRAPPING THE DRILL STRING, THE CHOICE OF HIGH QUALITY MUDS TO CONTROL SWELLING MEANT THAT ONLY THE TOP 11.5M HAD TO BE CASED. THIS REDUCED BOTH DRILLING TIME AND COSTS CONSIDERABLY.

SITE INVESTIGATION AT THE WYLFA NUCLEAR POWER STATION

DRILCORP WAS ASKED BY THE MAIN SITE INVESTIGATION CONTRACTOR TO ASSIST WITH THIS PROJECT WHEN THEY NEEDED HIGH QUALITY CORES WHILE MAINTAINING TRUE VERTICALITY ON A SERIES OF 70MTR BOREHOLES.

AS THE IDEAL RIG FOR THIS TYPE OF WORK, WE CHOSE OUR **BERETTA T57GEO** ROTARY TOP DRIVE TRACK MOUNTED DRILLING RIG WITH CLEAN WATER FLUSH TO TACKLE THE PROJECT. THE IN-HOLE CORING EQUIPMENT WAS THE STATE OF THE ART **GEOBOR S WIRELINE SYSTEM**, WHICH CONSISTENTLY PRODUCED CORES OF EXTREMELY GOOD QUALITY WITH VIRTUALLY 100% RECOVERY THROUGHOUT.

TO CONFIRM VERTICALITY WAS BEING MAINTAINED ON EACH BOREHOLE, TESTS WERE CARRIED OUT AT 20MTR INTERVALS WITH OUR OWN IN-HOUSE TOOL, THE **REFLEX MAXIBOR II OPTICAL BOREHOLE SURVEY SYSTEM**. THIS VERSATILE TOOL HAS AN OUTSIDE DIAMETER OF JUST 44MM AND CAN BE EITHER PUMPED INTO A BOREHOLE OR RUN IN BY WIRELINE. THE TOOL SHOWED THAT ALL BOREHOLES WERE WELL WITHIN THE REQUIRED VERTICALITY PARAMETERS.