



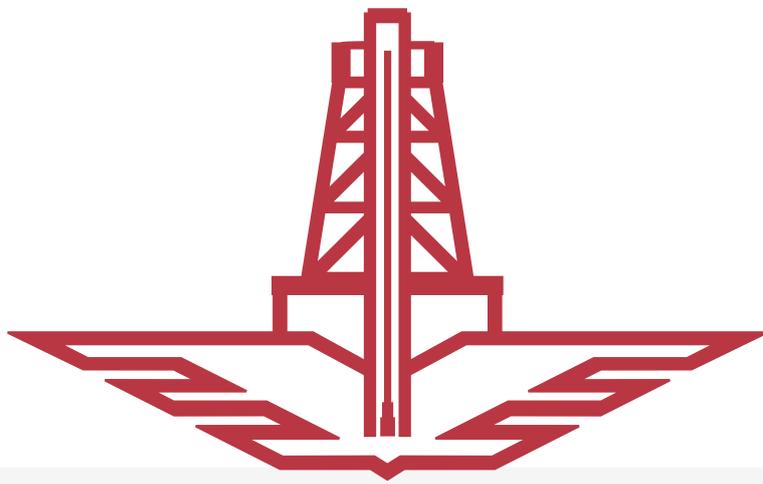
## **EXPLORATION**

### **- OIL & GAS**

AT DRILCORP WE HAVE BEEN OPERATING ON SHORE IN THE UK FOR OVER 20 YEARS, CARRYING OUT MANY PROJECTS AS 'OPERATOR' STATUS.

OUR EXPERIENCE IN THIS INDUSTRY HAS GIVEN US IN-DEPTH KNOWLEDGE OF THE REGULATORY REQUIREMENTS OF BOTH THE ENVIRONMENT AGENCY AND SEPA, WHICH ENABLES US TO SUCCESSFULLY NAVIGATE THIS EXACTING REGULATORY ENVIRONMENT ON YOUR BEHALF.

WHILST WORKING IN THIS INDUSTRY WE HAVE ACTED AS 'OPERATOR' UNDER THE BOREHOLE SITES AND OPERATIONS REGULATIONS 1995 ON MANY SITES INCLUDING TARGETED DRILLING OPERATIONS INTO ABANDONED MINE WORKINGS FOR GAS EXTRACTION. WHEN UNDERTAKING SUCH PROJECTS YOU CAN REST ASSURED THAT WE HAVE THE EQUIPMENT AND EXPERTISE TO DEAL WITH THE CONTROL OF EXPLOSIVE EMISSIONS.



# **DRILCORP**

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# EXPLORATION - OIL & GAS

WE ARE HIGHLY PROFICIENT IN THE SHALLOW TO MEDIUM DEPTH EXPLORATION SECTOR, WITH A RANGE OF DRILLING MACHINERY AND IN-HOLE EQUIPMENT, WHICH MEANS THAT WE WILL ALWAYS USE THE RIGHT MACHINE FOR YOUR PROJECT. AS OUR DAILY RIG RATE IS CONSIDERABLY LOWER THAN THE MAIN PRODUCTION RIG RATE YOU WILL NOT ONLY REDUCE COSTS BUT THAT DUE TO OUR UNDERSTANDING OF THE REGULATIONS YOU CAN BE SURE THAT YOUR SURFACE CASINGS AND AQUIFER PROTECTION REQUIREMENTS ARE MET.

WE ARE CONFIDENT THAT WE HAVE THE EQUIPMENT TO MEET YOUR REQUIREMENTS WITH A RANGE INCLUDING CONVENTIONAL CORE BARRELS AS WELL AS WIRELINE SYSTEMS, WITH A CAPABILITY OF CORING TO DEPTHS OF 1000M.

## DRILLING FOR COAL MINE METHANE EXTRACTION

OUR CLIENT, A LARGE ENERGY COMPANY, WAS UNDERTAKING A PROJECT TO EXTRACT COAL MINE METHANE FROM AN ABANDONED COAL MINE WITHIN THE 'SILKSTONE ROADWAY AND SUBSEQUENTLY PRODUCE ELECTRICITY FROM IT. THE COAL MINE WAS LOCATED APPROXIMATELY 268M VERTICALLY AND 25M HORIZONTALLY FROM THE WELLHEAD, WITH A TARGET ROADWAY OF AROUND 1.5M WIDE BY 3M DEEP. THIS MEANT THAT WE HAD TO USE OIL FIELD TECHNOLOGY WITH OUR DRILCORP CONRAD COMAX 800 DRILLING RIG TO GUIDE DOWN THE HOLE (DTH) MUD MOTOR TO THE TARGET LOCATION. TO FACILITATE THIS, WE INSTALLED APPROXIMATELY 40M OF 10" AND 240M OF 6" MILD STEEL CASING, WITH THE FINAL 50M DRILLED 'OPEN HOLE' USING CONVENTIONAL ROTARY DRILLING INTO THE MINE WORKINGS.

SEVERAL COAL MEASURES HAD TO BE PASSED THROUGH ON THE WAY TO THE TARGET ROADWAY, WHICH MEANT THAT THE MUD-FLUSH WAS OCCASIONALLY LOST. HOWEVER, PREVIOUS EXPERIENCE IN THIS FIELD MEANT THAT WE KNEW WE COULD USE LOST CIRCULATION MATERIALS AND GROUTING TO REMEDY THIS. AN ADDITIONAL COMPLICATION WAS THAT THE DRILLING PAD WAS SITED ADJACENT TO OVERHEAD POWER CABLES, WHICH NECESSITATED EXTENSIVE HEALTH AND SAFETY PLANNING PRIOR TO COMMENCEMENT AND CAREFUL CO-ORDINATION AND CONSULTATION THROUGHOUT THE PROJECT.

WE SUCCESSFULLY ENTERED THE TARGET COAL MINE ROADWAY USING THE PLANNED OPEN HOLE DRILLING, WHICH CAN BE SEEN ON THE SUBSEQUENT CCTV FOOTAGE OF THE MINE. THE PROJECT WAS DELIVERED ON TIME AND WITHIN BUDGET AND HAS LED TO FURTHER SIMILAR PROJECTS FOR THIS CLIENT.