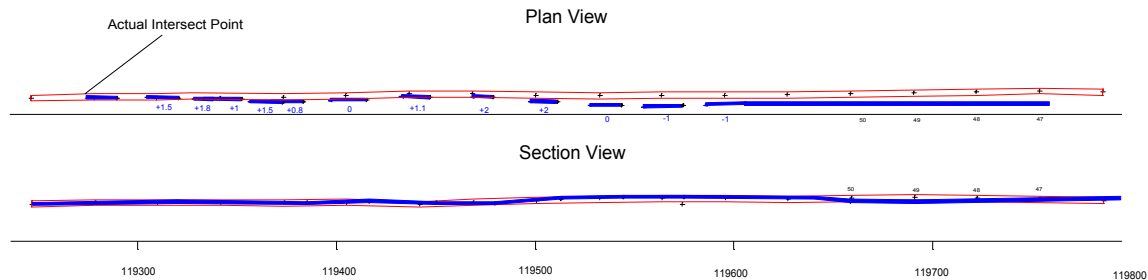




Prime Horizontal



Case History - Boston Intersect



Michels Directional Drilling of Brownsville, WI, was contracted by Duke Energy to install a product line across a long stretch of water requiring an offshore crossing where casing was needed on each side of the crossing. The bore was drilled using conventional guidance techniques to a point about 3800 feet from entry. Difficult hole cleaning conditions prevailed requiring Michels to search for another solution.

An intersect of the borehole was planned using ParaTrack and rotating magnet technology. After drilling a pilot hole from the exit side to a point about 250 feet from the termination of the entry hole, trips were made on both sides to install the rotating magnet on the drilling side and a ParaTrack 2 steering tool on the entry side.

The VM Rotating Magnet source was used as a bit sub on a 6 3/4 motor pushed to bottom of the 3800' bore and while rotating, generated a magnetic target which was used by the VM steering tool sensors essentially as a homing device, only in reverse. Once the sensor reached a position where the magnetic field was measurable, the attitude of the two bore holes was accurately determined and approach vectors calculated. The intersect and entry were made in less than 36 drilling hours with less than one degree of incidental angular difference. After pushing into the target hole, the rigs were reversed and a connection made from entry to exit.

Once again, the accuracy of ParaTrack using various magnetic sources operating downhole proved the feasibility of underground intersect drilling where necessary.

Now, ParaTrack operations gives contractors the confidence, to guide the pilot hole with enough positive control to plan and achieve underground intersects, the first time.

Call Prime Horizontal for More Information about ParaTrack Guidance Services.

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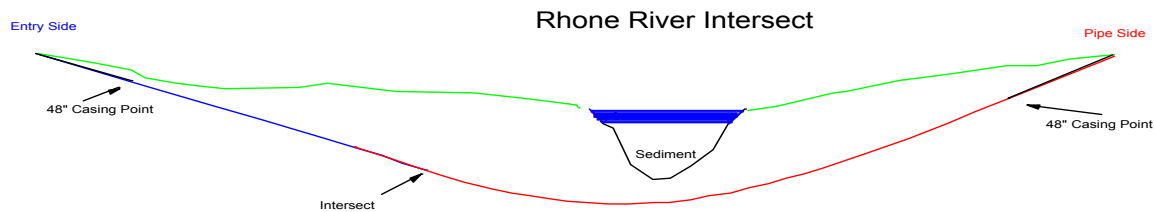


Prime Horizontal



Case History - River Rhone Intersect

May 2002



NACAP, the Dutch Directional Drilling Company, contracted with Gas de France to install a 20" gas line across the Rhone River and valley between Geneva and Lyon in SE France. The 1036 Meter crossing was through 30 meters of alluvial gravels on each side which were not drillable using conventional HDD techniques and 900 meters of limestone. In addition, the crossing was planned with a total elevation change of over 140 meters at the deepest point under the Rhone river. Gas de France chose the NACAP proposal due to its state of the art technical solution to the gravel problem.

NACAP started the project by micro tunneling a string of 48" casing on the pipe side of the crossing. Their 250 Ton HDD rig was then rigged up and drilling began through an intermediate string of 12" casing centralized inside the 48". After drilling to a point about 750 meters from pipe side with a 12 1/4" rock bit and motor, a second string of 48" casing was microtunnelled from the rig side of the crossing. After installing a 12" centralized casing inside the 48" string, a 60 Ton Hutte rig was used to drill the intersect.

The VM Rotating Magnet source was used as a bit sub on a 6 3/4 motor pushed to bottom of the 750 meter bore and while rotating, generated a magnetic target which was used by the VM steering tool sensors essentially as a homing device. Once the sensor reached a position where the magnetic field was measurable, the attitude of the two bore holes was accurately determined and approach vectors calculated. The intersect and entry were made with less than 3/4 degree of incidental angular difference. Once pipe was installed completely from entry to exit, reaming operations could begin.

Once again, the accuracy of ParaTrack surface cables and magnetic sources operating downhole proved the feasibility of underground intersect drilling. While drilling more than 95 meters below surface, ParaTrack consistently produced tracking results within an accuracy envelope of less than one meter.

Now, ParaTrack operations gives contractors the confidence, after installing a surface or underground cable, all the way from entry to exit, to guide the pilot hole with enough positive control to plan and achieve underground intersects, the first time!

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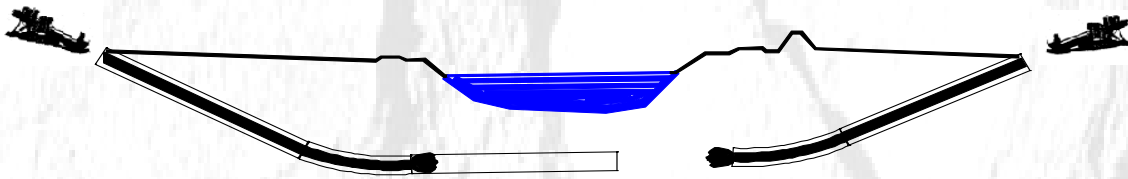
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Prime Horizontal



Case History - Underground Intersect



In September 2001, Haustadt & Timmermann, a German HDD contractor, used their 300 Ton Mobile Herrinkennet Rig to install a 36" product line, 677 meters in length, 50 meters under the River Maas in southern Holland. Due to the high concentration of gravels on each side, they chose to install a 60" casing through the gravel on each side prior to drilling. The entry side casing was set at 20 meters below entry and 110 meters away from entry. The exit side casing was set 23 meters below exit and 140 meters from exit.

Using the new **ParaTrack 2** guidance system, a 10" pilot hole was drilled from entry to a position on the exit tangent and tripped out. A 6" hole was drilled, using a 60 Ton Hutte Rig from the exit side to a planned intersect point at the horizontal section of the crossing. The intersect was made within 5 meters of plan at 425 meters from entry. The original plan was to intersect and follow the 10" entry hole back to the 12" casing, inside the 60" casing at entry. In fact, the 60 Ton rig was unable to push the 3 1/2" drill string all the way out.

The plan changed and after tripping out the 3 1/2" drill string, the original 10" drilling assembly was pushed from the entry point back through the hole to the intersect point at 420 meters. After sidetracking, the 10" hole was drilled using **ParaTrack 2** position references, to a point directly above the 6" hole three joints before entering the 12" casing. After drilling into the 6" hole, the string was pushed into the 12" casing and on to the surface at exit. After finishing the connection from entry to exit, normal hole opening operations began.

Both planned intersects on this job highlights the accuracy of **ParaTrack** guidance and once again proves the feasibility of underground intersect drilling.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with enough positive control to actually plan for underground intersects.

Call Prime Horizontal for Information about ParaTrack Guidance Services.

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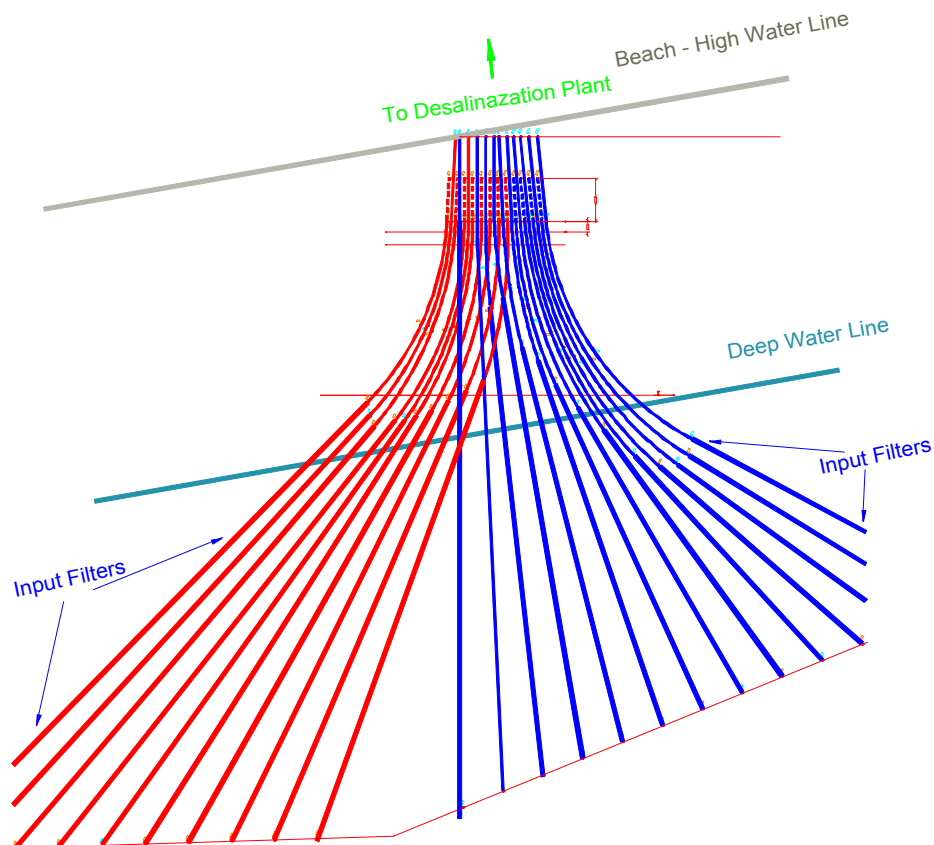
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Prime Horizontal



Spanish Desalinization Inputs



Catalana de Perforacions, an HDD company based near Barcelona, Spain, needed to install 24 input pipes in order to draw a specified amount of sea water into a new desalinization plant near Alicante, Spain. The entry points were planned at 2 metre centers, in order to limit the amount of beach work area in this major tourist area of the Gold Coast on the Mediterranean.

The active surf zone made it impossible to guide the lines to the required accuracies using conventional surface locating technologies. ParaTrack, developed initially as a parallel guidance tool was perfect for a project of this type. A first bore was drilled conventionally and a guidewire installed inside. The wire was pulled well offshore and anchored to a steel stake to provide an earth. The other end of the cable was earthed behind the rig on the beach. Signal amplitude was great enough to give us positive guidance for the extremely tight curves throughout.

Call for ParaTrack Guidance Services for your next difficult installation.

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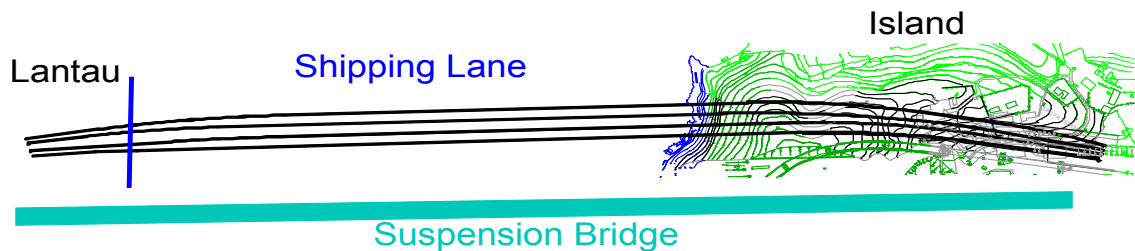


Prime Horizontal



Case History - Hong Kong

May 2001



Lucas Drilling contracted to install four product lines from Lantau to another island off Hong Kong. Each of the parallels needed to be spaced equally within the right of way and could not deviate beyond the right of way tolerance. The right of way was under a major shipping lane to Hong Kong and within 30 meters of the (now) longest suspension bridge in the world. It carries both traffic and two way trains.

Normal tracking methods had been attempted but the very short distance from entry to the shoreline inhibited good azimuth calibration. The exit side from the shoreline to within 80 meters of exit was hilly jungle where it was impossible to lay out ranging cables. After drilling the first two parallels using gyroscopic methods, they called for **ParaTrack 2**.

Using a cable installed inside one of the existing product lines, **ParaTrack 2** data was used to guide the third and fourth crossing. Very significant magnetic interference was noted with azimuth swinging along with the train frequency. AC interference was also very significant but using averaging techniques, the operator was able to gain enough steering data to complete the crossings.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with positive control throughout the crossing.

Call Prime Horizontal for Information about ParaTrack Guidance Services.

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Prime Horizontal



Case History - Tunis Parallels

August 2001

Rades Site - Tunisia

La Goulette Site

Second Rades Site

Horizontal Drilling International was awarded 15 parallel crossing in two locations near the city of Tunis on the North African coast. **ParaTrack 1** was chosen as the method of choice due to the underground congestion and their customers demand for a very tight tolerance between bores of (+,-) one meter. The crossings at Rades were 200 meters while the La Goulette site crossings were over 500meters. Most had rail lines and infrastructure to contend with. Using guide wires installed inside the product lines of the first crossing on the locations, the rest of the crossings were accurately piloted against known positions. As a result of HDI's successful project execution, using two rigs simultaneously, they were awarded five additional jobs at a second site near Rades.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with positive control throughout the crossing thus removing normal positional uncertainty when drilling with azimuth alone.

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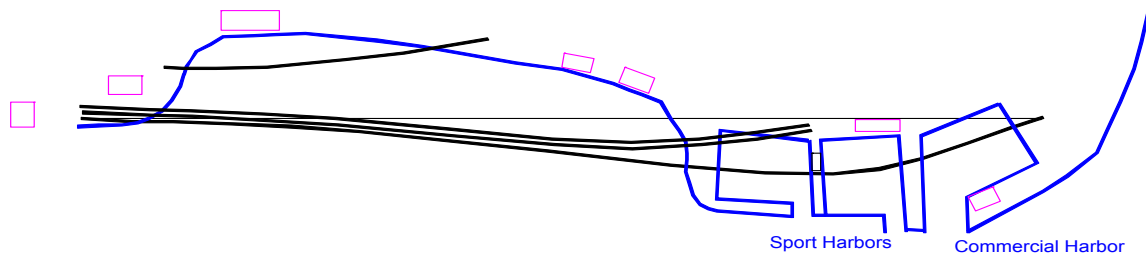


Prime Horizontal



Case History - Yerseke Mussels

October 2000



Over the centuries, the Dutch have harvested mussels in this area and Yerseke is the center of this commercial endeavor. The industry desperately needed an increased fresh supply of seawater for new EEC standards of seafood preparation and the product lines could not be laid through the town. Hydro Soil Services of Belgium was awarded three parallel crossings to move the water 1500 meters across the town along the seafront. The crossings had to pass under the seawall on entry, across an 800 meter estuary, through the center of two sport marinas and down the center of the commercial harbor.

Drilling the first 1500 meter crossing was difficult from a magnetic standpoint since the elevation of the crossings was 35 meters deep and passed under three harbors where it was impossible to install surface cables accurately. HSS called for **ParaTrack 1** due to the ease of setup initially and the ability to guide the following two pilots by ranging against the original hole. The exit cable was installed by divers in the axis of the centerline, but was naturally inhibited by all the steel pilings around the harbor. Additionally, at low tide, the water clearance under the keels of the large offshore fishing boats was only a meter, causing wire movement and sometimes breakage. A lost circulation zone, about 900 meters out, since determined to be the old shoreline in the 18th century, created massive difficulties with hole integrity. The first pilot punched out on target. While reaming, the lost circulation zone at 900M collapsed causing stuck pipe. Since one of the three parallels was planned for electrical cables, it was decided to use this string as the cable conduit and leave it in place. It was gyro surveyed and an electrical cable installed for **ParaTrack**. The exit point for the following two crossings was changed to a point significantly shorter and drilling commenced. Both pilots were completed and accepted.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with positive control throughout the crossing thus removing normal positional uncertainty when drilling with azimuth alone.

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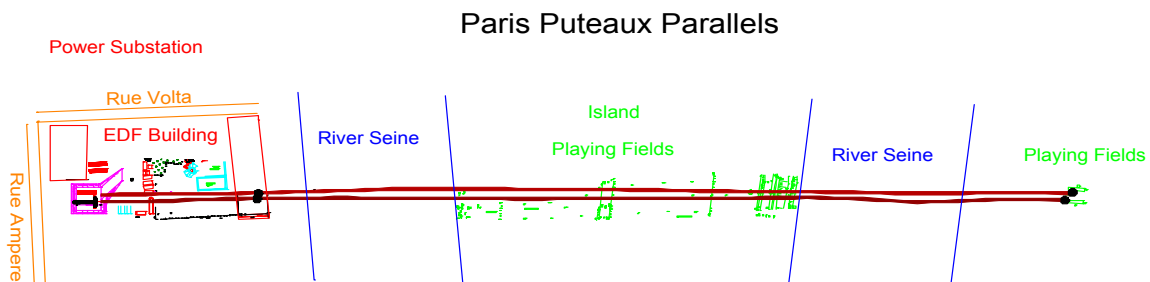


Prime Horizontal



Case History - Paris Puteaux Crossings

March 2001



Horizontal Drilling International contracted to drill two five meter parallel crossings in the rock under the Seine River in Paris. The crossing started in an excavated pit since the crossing needed to pass under the Electricity de France building at the edge of the river and the entry point was close to the building. The right of way would pass under one of the islands in the Seine and exit inside playing fields on the Paris side of the river. They chose **ParaTrack 2** since a high degree of magnetic interference was expected to significantly impact accuracy if conventional guidance methods were employed.

For the first crossing, a surface **ParaTrack** cable was installed on centerline on the island and across the section of the Seine which was closed to navigation., all the way to exit. There was only a small section from the rig to the EDF building to install guide wires but position fixes were obtained prior to drilling under the high rise and across the section of the Seine open to navigation. The location of the pilot moved too far off line , when picked up after crossing the first section of the Seine. A short pullback and sidetrack was made and drilling continued to exit.

Using assumed positional references for location of the first hole, a cable was installed inside the drill pipe and earthed. The second hole was drilled using **ParaTrack 2** references from the first.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with positive control throughout the crossing thus removing normal positional uncertainty when drilling with azimuth alone.

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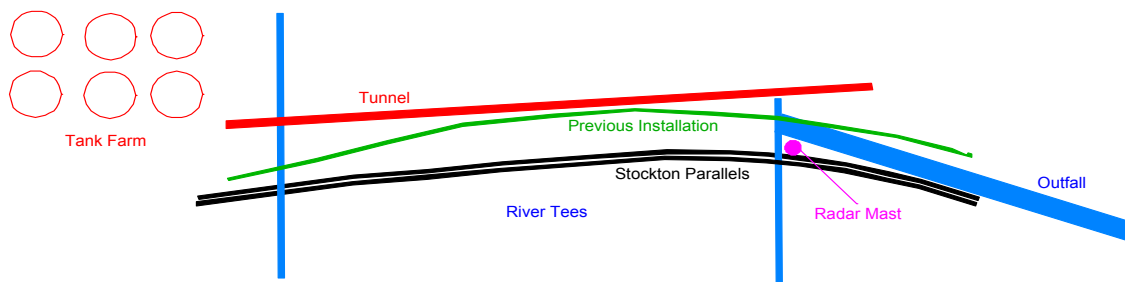


Prime Horizontal



Case History - Teeside

2000



Stockton Pipelines contracted to install two parallels under the river Tees near Teeside, England. Another crossing had been successfully installed 20 meters off the planned centerline on entry and exiting across a deep outfall from the planned exit points. Additionally, a tunnel, 3 meters square, containing oil pipelines had been constructed further to the left. Coincidentally, the Prime Horizontal engineer working with Stockton had guided the previous HDD crossing in 1991. Remembering how much magnetic interference was present due to the tunnel alongside planned centerline and the Radar Mast near exit, Prime recommended the use of **ParaTrack 1** to guide the main product line.

The first hole was drilled conventionally, using short sections of guidewire on entry and exit. Earthing was located behind the rig and exit points and 20 meters offshore, in the river. While drilling the river section, normal azimuth was used applying slight course corrections when magnetic interference was quantified. When the exit side **ParaTrack** cable indicated a positive reading, the hole was found to be within 2 meters of plan and drilling continued to exit point, eight meters away from the edge of the down slope into the outfall. A six inch product line was installed. After the rig was moved to the left and a ParaTrack cable installed inside the 6" line, the second drill commenced. While drilling around 800 meters from entry, formation cobble caused the loss of the down hole motor. On a trip back into the soft formation at entry prior to entering the rock, the hole sidetracked, causing a redrill from entry and the loss of 800 meters of hole. Using **ParaTrack** position references, the old hole was intersected 400 meters away from entry, thus saving significant rig time. Once the cobble formation was sidetracked successfully, the pilot continued to a punch out position two meters away from the outfall down slope.

Now, **ParaTrack Operations** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with enough positive control to actually plan for underground intersects.

Call Prime Horizontal for Information about ParaTrack Guidance Services.

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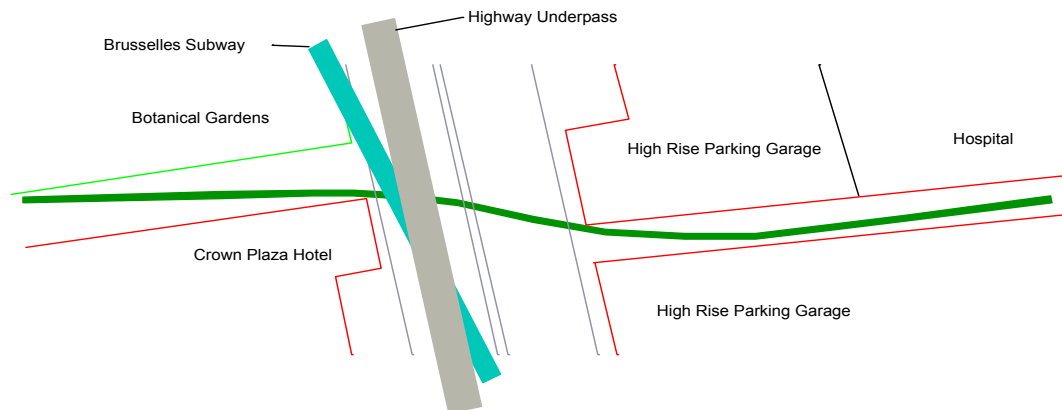
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Case History - Bruxelles Subway



November 2001

Verbraeken Construction of Belgium needed to install a conduit across a very busy Bruxelles intersection. Normally this job could be done with a walkover method except that the formation indications required a down hole motor and the city of Bruxelles would not allow any part of the thoroughfare to be blocked at any time of day. Further complicating the crossing was a highway underpass extending below 10 meters and an electrified subway tunnel below the underpass extending 24 meters below surface. Additional complications included an offset entry and exit street, piling for the multistory buildings on three sides and heavy right of way usage of the exit alleyway by sewer lines, water lines, gas mains, 15+ power cables and telephone cables (both copper and fiber). It was considered to be a dangerous crossing for conventional guidance methods.

The job was completed safely.

Now, with the introduction of **ParaTrack 2**, contractors have a safer solution. This tracking method is much less susceptible to extraneous magnetic fields found in busy metropolitan areas.

Call Prime Horizontal for Information about ParaTrack Guidance Services.

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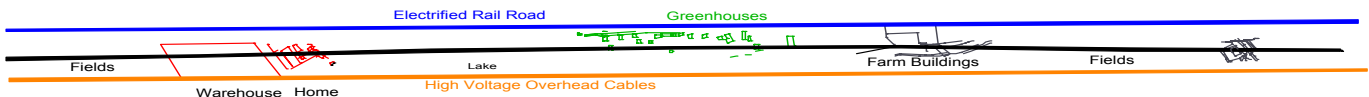
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Prime Horizontal



Case History - Poldervaart



December 2000

Horizontal Drilling International, using conventional guidance equipment attempted to drill the 1200 meter Poldervaart right of way twice unsuccessfully before calling for the newly introduced **ParaTrack 2 service**. There existed a requirement for a 1 meter corridor for the first 300 meters of the crossing and a large radius right hand curve over the balance to maintain spacing against the rail road. The pipeline was planned to cross under warehouses and homes.

Although the crossing was in relatively open country, it was located 35 meters on the right of a dual high speed main line electrified rail link and parallel. Train frequency averaged 7 minutes, day and night. To further complicate the guidance problems high voltage overhead transmission cables from a local power station to the city of Rotterdam was parallel and 25 meters to the right.

Both previous attempts had failed due to magnetic interference problems using conventional tracking methods. Azimuth swings of up to seven degrees were noted during train passes. The swing would begin up to two minutes prior to the trains passing and end a minute after.

After installing a surface **ParaTrack** cable all the way from entry to exit, the pilot hole was successfully drilled in nine 12 hour shifts. The crossing position was accepted and reaming begun.

Now, **ParaTrack 2** gives contractors the confidence, after installing a surface or underground cable **All the Way from Entry to Exit**, to guide the pilot hole with positive control throughout the crossing thus removing normal positional uncertainty when drilling with azimuth alone.

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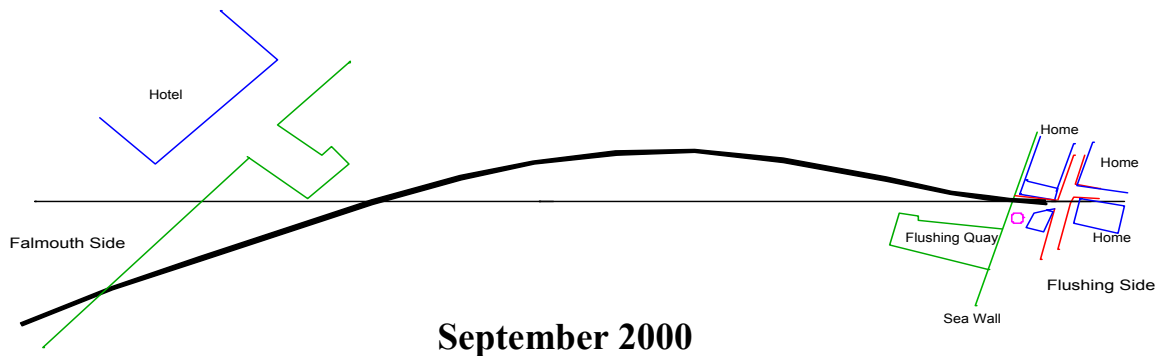
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Prime Horizontal



Case History - Falmouth Harbor



Allen Watson of Great Britain, contracted to install a 500 meter pumped sewer main across the Falmouth harbor on the west coast of England. Due to the congestion of the city at the entry point, the only access available for their drilling rig was oblique to the beach creating a need for a long curve missing a dock near entry and exiting parallel to another dock at a very tight exit point. The exit point was 2 meters right of the front entrance of a residential home, 15 meters beyond the seawall, 2 meters left of a deep sewer main and 4 meters short of a roadway. It was impossible to be long since another residential home faced the exit point across the street.

ParaTrack 2 was used with a guide wire placed on top of the planned centerline all the way from entry to exit. Divers were utilized to accurately weight the cable in the correct place. The single cable was earthed behind the rig at entry and behind the exit point and was charged when drilling commenced. The drilling assembly was steered along the guide-wire to the exit point.

The bit punched out exactly 2 meters right of the residents front entrance and was accepted immediately.

ParaTrack 2 gives contractors the ability to install a surface or underground cable, **All the Way from Entry to Exit**, and guiding the pilot hole with positive control throughout the crossing thus removing normal positional uncertainty when drilling with azimuth alone.

Call Prime Horizontal for Information about ParaTrack Guidance Services.

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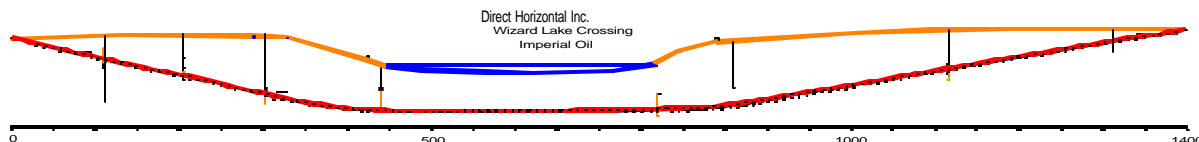
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Prime Horizontal



Case History - Wizard Lake



November 2002

Imperial Oil of Calgary, Alberta, Canada contracted Direct Horizontal Drilling, also of Alberta, to install a product line across one of the most environmentally sensitive public recreational waterways in Alberta, outside Edmonton. The weak bentonitic shale formations, interbedded with weak limestones and coal measures made formation overpressure and potential mud fracture to surface or into the lake an serious risk. In order to limit the overall drilling time and therefore additional risk of fractures and remove the possibility of pull backs and redrills due to potential inaccurate guidance using conventional guidance equipment, Imperial chose to use ParaTrack with a surface guidewire installed from entry to exit, across the lake.

In addition, having made the commitment to drill Wizard Lake without impacting the environment, Imperial measured the formation fracture pressures prior to mobilization, using open hole packers. With this data, a pressure plan was created and annulus pressures were required to be measured throughout the pilot hole in order not to exceed the formation fracture pressures previously determined.

ParaTrack 2, enhanced with pressure gauges for pilot hole annulus and drill pipe pressure above the steering tool was used with a guide wire placed on top of the planned centerline throughout the 1400 meter crossing. Annulus pressures were constantly monitored and when hole conditions required, wiper trips or changes to the mud properties were implemented to immediately reduce the pressure. The pilot hole was completed without mud losses to the lake or to the surface despite many pressure events requiring immediate remedial action.

The entire crossing was tracked throughout and an on target punch out was achieved with no pull backs, according to plan.

ParaTrack 2 guidance, enhanced with pressure monitoring, is leading the way forward in providing operators with the confidence to drill technically difficult horizontal crossings.

Call Prime Horizontal to find out how ParaTrack can assist you.

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