

— WRITING SAMPLE —
(corporate video)
Stephen X. Arthur, technical writer 2005
www.transcanfilm.com/stephenarthur
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"Hillsborough Resources"
VIDEO SCRIPT
14 minutes
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Written by Stephen Arthur

FADE IN:

AERIAL VIEW - LANDSCAPE

NARRATOR

Hidden treasure.

(pause)

Reaching the Earth's rich mineral resources often requires mining deep underground.

HAULAGE TRUCK DUMPING MUCK

Hillsborough Resources is a leading specialist in underground mining in Canada. Its experience gives it an edge in productivity -- over seven thousand metric tonnes of ore per day.

SENIOR MANAGEMENT

poring over computer-aided drafting.

The senior staff are mining engineers. With their combined industry experience exceeding one hundred and seventy five years since 1985 --

MODIFIED RIG IN OPERATION

-- Hillsborough has developed innovative equipment and techniques.

MANIFESTO DOCUMENT

Hillsborough has instituted a formal policy intended to maximize productivity, safety, and environmental awareness.

MAP - PAST AND CURRENT PROJECTS IN CANADA

Over fifty mining projects have been completed --

(highlight current ones)

-- current ones indicated here.

Minerals include potash, shale, asbestos, gold, silver, lead, zinc, graphite, uranium, iron, and coal.

GRAPHICS - "HILLSBOROUGH RESOURCES LTD" AND LOGO

Appearing underneath -- "Canadian Mine Development (CMD)"

CMD is the contracting and engineering arm of Hillsborough, providing development and production services to the mining industry.

Underneath that -- "Mineral Resources Division"

The Mineral Resources Division draws on in-house technical expertise to seek and make investments in promising properties.

Sa Dena Hes

MAP OF WESTERN CANADA - SA DENA HES MARKED

Sa Dena Hes -- a joint venture at Mount Hundere in the Yukon.

AERIAL SHOT - THE MINE

Hillsborough has twenty percent equity with Curragh Resources. The orebody holds high grade lead and zinc, for which longterm demand is good.

GRAPHICS - 3D CAD IMAGE OF OREBODY AND RAMPS AND DRIFTS

CMD designed and developed the mine. The mine went into production in 1991 and is now operated by the Joint Venture. Production is currently up to seventeen hundred

metric tonnes a day. Proven reserves are about five million tonnes.

EXT. MINE PORTAL

as scooptram exits.

Trackless mining enables Hillsborough to maximize productivity.

DRILL JUMBO IN OPERATION

Since orebodies are not uniform under the ground, different mining techniques are used where called for.

DRILL-HOLE LINES CROSSING A WALL

Expertise with placing and timing of blasting charges allows this precise excavation of ramps and tunnels.

STOCK SHOT - UNDERGROUND BLAST

SCALING BAR OPERATION

Danger is always a potential under ground. Hillsborough is proud of its safety record. A fulltime training supervisor ensures all employment levels are well trained in safety skills.

SAFETY CLASS

as Trainer lectures.

ROCK BOLTING OPERATION

Maintaining the structural integrity of these excavations, called stopes, is a vital job. Rock bolts are

driven into holes drilled twelve feet deep to support the rock above.

SCOOPTRAMS LOADING MUCK INTO HAULAGE TRUCKS

The broken ore, called muck, is loaded into haulage trucks for direct transport up efficiently steep rampways and out of the mine to the mill.

SHOTS OF THE ORE, MORE TUNNELS.

The excavation seen here is the room and pillar type. Successive branches are mined, creating caverns supported by the unmined rock pillars. Another kind of excavation is longhole drilling...

LONGHOLE DRILLING RIG IN OPERATION

A longhole drill. This low-cost and safe method can be used with large, self-supportive ore.

GRAPHICS - LONGHOLE STOPING

Holes are drilled down twenty metres to the sublevel below. The holes are loaded with explosives and the ore is blasted out. The muck funnels through the previously excavated sublevels and is collected by the scooptrams below.

AERIAL SHOT - HAULAGE TRUCK

driving down the hill to the mill.

The muck is hauled to the adjacent mill.

AERIAL SHOT - CIRCLING THE MILL

After grinding and separating, the high grade lead and zinc concentrates are trucked to the port of Skagway, Alaska.

B-TRAIN TRUCK-AND-TRAILER PASSING

The concentrates are sealed in large pots to prevent wastage into the environment en route. The Sa Dena Hes mine is designed to produce up to a hundred and fifty thousand metric tonnes of concentrate per year, for longterm profitable operation.

Quinsam

MAP - VANCOUVER ISLAND, QUINSAM MINE

The Quinsam coal mine near the city of Campbell River on Vancouver Island in British Columbia -- the only tide water coal producer on the west coast, with plans to become even more competitive and productive.

MINE LOCATION SHOTS

Hillsborough owns one hundred percent after a merger with Consolidated Brinco in 1992. Thermal coal is obtained here by both open pit and underground mining.

GRAPHICS - FORECAST OF COAL CONSUMPTION

World:	1990	--	208 million tonnes
	2010	--	563 million tonnes
Asia:	1990	--	8.5 million tonnes
	2010	--	214 million tonnes

Demand for this clean-burning coal, used for electrical generation, is forecast to rise significantly, particularly in the Far East.

OPEN PIT OPERATIONS

Hillsborough is currently doing truck-and-shovel mining on a third pit site where the rich coal seams lie near the surface.

STOCK SHOT - PIT BLAST

MINERS ENTERING THE PORTAL

This underground portal is in the side wall of a previously mined pit, now partially refilled.

CONTINUOUS MINING MACHINE IN OPERATION

Most of the coal production is now underground. Using several continuous mining machines maximizes production. Each machine shears the coal from the working face at a rate of eight hundred metric tonnes a day.

FURTHER MINING OPERATIONS

showing shuttle cars, feeder breakers, and coal dumping outside the portal.

GRAPHICS

Reserves: 184 million tonnes.

Output: 1992 - 500,000; 1993 - 750,000; 1995 - 1 million tonnes.

Total reserves on Quinsam property are about a hundred and eighty million metric tonnes. Production

should be one million metric tonnes by 1995.

DUMPTRUCK DUMPING AT WASH PLANT

WASHING AND STOCK-PILING FACILITIES

To accomplish this, current facilities are being duplicated and added to.

SITE PHOTO AND GRAPHIC OVERLAY

Future excavations will establish three conveyor belt facilities to haul coal directly from underground to the washing facility.

MAP - GEORGIA STRAIGHT, MIDDLE POINT, TEXADA - BARGE ROUTE

The Quinsam location has a transportation advantage, in delivery to Pacific Rim customers, over other thermal coal producers from the interior of B.C. and Alberta.

MIDDLE POINT WARF AERIALS AND GRAPHIC OVERLAYS

Until now, trucks delivered the coal to barges at Middle Point Warf. The barges delivered the coal to Texada Island, for reloading into deep water vessels for transport to Pacific Rim markets. This excessive handling can produce contamination. Now under construction is a deep water ship-loading terminal to be served directly by a conveyor belt system. Handling costs should be reduced from eleven dollars per metric tonne to five dollars per tonne. The handling characteristics of this hard coal are excellent

because of the low level of coal dust.

AERIAL VIEW OF TAILINGS PONDS

Hillsborough is committed to environmentally sound methods of mining. Fulltime employees ensure that environmental impacts are minimized.

ENVIRONMENTAL SUPERVISOR AT FINAL TAILINGS POND

He explains that the runoff feeds a salmon spawning pool.

THE FILLED-IN OPEN PIT

Replanted. Deer grazing.

This was once the site of a Quinsam open pit.

A dump truck passes on the road nearby.

Hillsborough's operations mean sustainable development, with maximum productivity.

Potential Projects

MAP OF NORTH AMERICA

indicating sites of Port-au-Port in Newfoundland, Mount Slocomb and Eskay Creek in B.C., El Oro and San Fransisco de Los Reyes in Mexico, the Nicaragua site, and Brampton Ontario.

Other assets of the Mineral Resources Division include
(highlight Port-au-Port)
limestone,
(highlight Mt. Slocomb)
a polymetallic prospect,
(highlight Eskay Creek)
and silver and gold.
(highlight Mexican sites)
Resource development projects include two joint venture silver and

gold mine rehabilitation
assessments,
(highlight Nicaragua)
and gold exploration.
(highlight Brampton)
Headquarters for Hillsborough is in
Brampton, Ontario.

Headquarters

ENGINEERS AT CAD STATIONS - BRAMPTON

At Brampton, computer aided engineering is used to visualize orebody characteristics and optimize mining productivity. Here the company also carries out equipment overhauls and develops innovative excavation and ground support techniques.

ACCOUNTING/ADMINISTRATIVE OFFICES

We see the chief executives gathered around a model.

Brampton is headquarters for both the Mineral Resources Division and the contract services arm, CMD. CMD provides a full range of engineering, design, construction, underground production, customized equipment, and employee training to Canadian mining companies. CMD's competitive advantages are its proven ability to maximize client productivity, and its ability to provide production guarantees...

Sussex

MAP OF MARITIMES - SUSSEX MINE LOCATION

The Sussex potash mine between Saint Johns and Fredricton in New Brunswick.

MINE LOCATION SHOTS

CMD has had a longterm production contract with the owner, Potacan Potash Company. While contracts in the industry average six to twelve months, this contract dates back to the 1984 creation of CMD.

GRAPHICS - UNDERGROUND EXCAVATION

The work level is reached by an elevator at twenty eight hundred feet below the surface. The operation has a high productivity -- averaging a million metric tonnes of ore per year, with a peak of one point three million. That comes to eighty six metric tonnes per manshift, including supervisors and maintenance staff.

SHAFT BOTTOM -- MINER STEPPING OUT

LARGE ROOM STOPE

The ceiling is covered with rock bolts.

This is a typical stope. It's produced by the drilling and blasting method, the first of its kind for mining potash in Canada, requiring the expertise of CMD. The methods have evolved to optimize safety, productivity, and adaptability to different orebodies.

THREE-BOOM DRILL JUMBO

The efficient electric-hydraulic drilling machines drill holes to plant explosives to blast out the potash ore. The explosive used is called ANFO, named for its blend of ammonium nitrate and fuel oil. These drills are the rotary type for

softer ground. This three-boom drill jumbo cannot use water to flush out the cuttings, since potash is water soluble. A specially designed steel must be used.

ROCKBOLT JUMBO IN OPERATION

A large number of rock bolts are driven into holes twelve feet deep to support the ground above. This must ensure that the hanging wall, or back, is completely supported, because once the bottom of the stope is lowered in the benching operation, the back can no longer be reached.

CONVEYOR BELTS BEING BUILT

CMD has gained extensive experience developing, constructing, and operating this long continuous conveyor system.

FEEDER BREAKER IN OPERATION

CONVEYOR BELTS CARRYING THE CRUSHED ORE

As the underground contractor, CMD is only responsible for getting the ore to the ore pass.

SHAFT ACCESS AND MILL

Further operations are then the responsibility of the client, after profiting from CMD's innovation and expertise.

Watson Lake

MAP - YUKON AND NORTHERN B.C. - WATSON LATE SITE

Include Faro and Sa Dena Hes mine sites.

At Watson Lake, CMD's operating base serves mining contracts in the developing mineral-rich areas of Northern B.C. and the Yukon.

COMPANY PLANE ARRIVES AT WATSON LAKE AIRPORT

CU PLANE PASSING

Hold on the CMD LOGO, then plane passes on.

EXT. WATSON LAKE OFFICE

INT. WATSON LAKE OFFICE - STAFF AT WORK

This is the largest and best equipped operation in the region, including warehouse stocks, equipment overhaul facilities, and a bunkhouse. From here crews, equipment, maintenance, and supplies are coordinated for the entire region.

B-TRAIN TRUCK-AND-TRAILER UNIT PULLS IN

WELDING AND HONING OPERATIONS

... The Watson Lake base supports the nearby mines at Sa Dena Hes and Faro...

Faro

AERIAL VIEW - FARO OPEN PIT

This is the Faro lead-zinc mine owned by Curragh Resources. CMD operates underground production here as the open pit mining approaches completion after twenty five years in 1990. Rich ore veins still exist, so CMD engineers developed a plan to keep the mine active and profitable.

GRAPHICS - OPEN PIT AND UNDERGROUND - VERTICAL CROSS SECTION

Tunnels following the orebody.

With the portal at the bottom of the pit, the CMD miners can follow the orebody. Because of this, the underground mining can produce three times the percentage of ore compared to the open pit method.

CLASSROOM - TRAINER

Initial dialogue from Trainer, then --

Comprehensive training of CMD staff and employees upholds CMD's standards as an industry leader in safety and protection of the environment.

ROCK BOLTS COVERING THE BACK OF A DRIFT

Rock bolting maintains the safety of the overhead rock.

ROCKBOLT JUMBO IN OPERATION

Safety requires as much work as actual production. This rockbolt machine was modified by CMD for increased safety and productivity. The operator remains out of the way of areas not yet rockbolted.

THREE-BOOM DRILL JUMBO

positioning drills and drilling.

A three-boom drill jumbo. This machine drills holes up to four metres deep for placing a round of blasting charges that will break the ore and advance the tunnel. These electric-hydraulic machines use only

a third the power of air-driven drills, and they're cleaner and quieter. The drill is a percussion type.

BLASTING CREW AT WORK

loading holes, etc.

This is the explosive -- a mixture of fertilizer and oil. It is set off with a blasting cap. Holes are loaded to be fired in a designated sequence to obtain a precise break. The blast is set off from the surface once the workers are out of the mine.

STOCK SHOT - UNDERGROUND BLAST

SCOOPTRAM MUCKING OUT

AULAGE TRUCKS PASSING IN RAMP

The precise blasting allows trackless mining for greater flexibility -- a testament to the engineering expertise and skill of CMD miners.

HAULAGE TRUCK EMERGING FROM PORTAL

Hold.

Wrap-up

A MONTAGE OF SELECTED AESTHETIC SHOTS - MINING OPERATIONS

Realistically, buried treasure is only treasure if it is obtained in the right way. That do these operations have in common...? Treasure. And Hillsborough-CMD.

FADE OUT.