

FSI International Corp Limited

Information Memorandum

Management Team & Benefits

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FSI Roster:

The most recent addition to the FSI Board team is Dr. Joseph Hamilton who has been involved with the FSI project for the past 18 months. All other board members have contributed to the FSI project for at least 3 years and in some cases, longer.

The nominated Board of Directors represents over 100 years of Oil Field experience in all aspects of Exploration & Production (including Oil Field IT) and has succeeded in identifying a management team that has over 150 years of combined experience in operations and field services. In support of the FSI management team is a group industry leading consultants including the FSI representative agents and OEM manufacturers.

There should be no doubt in one's mind about the ability of FSI to achieve its objects in a timely and professional manner, given the quality of its human resources.

FSI Board of Directors

Chairman (Nominated)

Charles (Chuck) Edwards:

(Founding Share Holder)

Chuck was Corporate Chief Geophysicist for all of Chevron for 27years. After leaving Chevron, he was Director/consultant to Digicon, Director and contractor for Landmark Graphics and Director/consultant for 3DX Technologies. Today, he is an active industry consultant and a principal in oil exploration and development. In this latter capacity, Chuck is a potential independent "early adopter" of FSI technology and services.

Executive Director of Technology Transfer Chris Singfield

(Founder)

Chris is an innovator and independant researcher with more than 30 years of hands-on experience in the petroleum and mineral industries in Canada and Australia. He was Chief Metallurgist for Denehurst, an Australian base metal miner, so his knowledge of rock properties is detailed and extensive. He has been instrumental in registering three patents and two trademarks and has pioneered several innovative technologies with applications in both the petroleum and minerals industries. His current work in digital imaging is recognized throughout the world.

Director of Information Technology (Nominated) Mike Heagney:

(Founding Share Holder)

Mike Heagney: Mike is currently Director of Business Solutions Development, Global Energy and Utilities for Sun Microsystems, with 30 years of experience in the oil petroleum industry where he specialized in supporting upstream geoscience applications as well as corporate and strategic planning.

Executive Director of Science (Nominated) Dr. Joseph Hamilton

Joseph Hamilton PhD Oxford (Geology): Dr. Hamilton is a world-renowned research scientist with more than 100 scientific publications to his credit. Joe is currently Duprey Professor in Petroleum Geosciences Isotopic Geochemistry and head of the Petroleum Department at the University of West Indies, Trinidad And Tobago. He recently held Australia's CSIRO/Curtin University Joint Chair in Isotopic Geochemistry. A leading expert in advanced geological core analysis, Joe's expertise includes geochronology, nuclear magnetic resonance imaging, strontium and SEM.

Executive Director Marketing - Candidate Mike Dowen:

(Founding Share Holder)

Mike Dowen has 20 years of hands-on petroleum industry experience, including extensive international assignments in Europe, Southeast Asia and the Middle East. His recent experience includes commercialization of advanced exploration technologies with CSIRO Australia, Numar, Haliburton and Baker Atlas. Mike has managed regional oil service divisions with yearly revenues over \$20 mm.

Director of Intellectual Property and Legal Affairs Paul Morris

(Founding Share Holder)

Paul Morris is a senior associate of Nicholsons, a commercial law firm in Brisbane, Australia. He specializes in property and intellectual property issues.

Executive Roster (pending funding):

Chief Executive Officer - Candidate Larry Denver:

Larry Denver has broad experience that ranges from private equity, on both sides of the ledger, through energy technology, deal structuring, sales and marketing of oilfield technology, operations, corporate governance, restructuring and over 15 years of start-up experience with three separate companies, Stratamodel, GeoQuest and I/O.

Over the past year, Larry's company, TraceStone, has worked with Statoil Innovation, Energy Ventures and Hitec Vision, 3i and Limerock Partners, Four Seasons, Viking Ventures (renewed for 2005), Data Frameworks and a Houston-based multi-billion dollar asset management firm. A detailed power point career summary is available on request.

Chief of Petrophysics - Candidate

Areas of expertise include reservoir certification, hydraulic unit evaluation, geological NMR applications and advanced core analysis technologies.

GM-Global IT Manager - Candidate D"Arcy Lafournaise:

D'Arcy was the Webmaster for Shell Oil's Americas Technology Center. He was invited to join Occidental Oil and Gas in 2001 where he is currently the Manager of Intranet/Internet Communications.

General Manager, Software - Candidate Francis Cox:

(Founding Share Holder)

Mr. Cox is FSI's first choice for research and software business development. He recently headed a project team for the MLA, Australia's Meat and Livestock Association, developing automated image analysis systems for meat inspection and quality control. Intimately familiar with FSI's proprietary WFMS and source code, Francis has been responsible for software budgets in excess of \$Aus 12 mm.

General Manager, Services - Candidate Alan Morrison:

Over a 25 year period, Alan Morrison worked his way up from mud-logging to VP and General Manager of a regional oilfield services company. Currently based in Singapore, Alan has worked in Indonesia, Vietnam and Malaysia for Santa Fe, Premier Natura, ARCO, LASMO, KANA Consulting and International Logging, where he opened markets in Myanmar, India and Israel.

General Manager, Instruments - Candidate Greg Palmer:

Greg Palmer is a Chartered Mechanical Engineer with experience in agriculture, coal, and both hard-rock and placer mining in Australia. He has helped commercialize products in high-tech, construction, food processing and other industries in Australia, the USA and Asia.

Regional Manager, Latin America – Candidate Luis Viertel:

Mr. Viertel is a geologist and geophysicist with almost 15 years of experience in geosoftware support, seismic interpretation, regional and prospect block definition, depth conversion and mapping. He has worked in Spain, Angola, Gulf of Suez, western Egypt and Mexico with GDC and Schlumberger Geoquest where he worked closely with Pemex, including key members of their Northern Division team.

Technical Advisors

GEOPHYSICS

Roice Nelson II: (Founding Share Holder)

Roice Nelson II is one of Houston's true technical pioneers. Roice was a co-founder of Landmark Graphics, now a Haliburton company. He played a key leadership role in the development of 3D seismic and continues to contribute his unique expertise to 4D seismic, geophysical and interpretation visualization, dynamic replenishment of hydrocarbon systems and geophysical rock properties.

INDEPENDENT INDUSTRY ANALYST (see Appendix 1; FSI Valuation): John Pohlman:

(Founding Share Holder)

John Pohlman is a geophysicist by training; Mr. Pohlman specializes in computer technology for the oil and gas industry with a focus on workstation applications. His work credits include Geosim, Scitex, Phillips Petroleum and the USGS. He has co-convened several Geosciences conferences and shared Keynote honors with Bill Gates.

RAMAN- MINERAL CLASSIFICATION Associate Professor Ray Frost:

Dr. Frost is one of the world's leading experts in surface science using Raman and Infrared Spectroscopy. His areas of expertise include minerals, hydrotalcites; clay minerals; porous materials; and environmental remediation.

Regional Representatives:

Malaysia

The appointed FSI Malaysia Team is headed up by Dr. Mohammad Kamal B.Mohd Effendi whom has been working with the FSI for the last 2 years developing a detailed strategy for introducing the FSI project to Petronas. Once FSI has received its first round of funding the strategy will be implemented.

Latin America

This market will be handled internally by FSI by Mr. Luis Viertel who has been tasked with the market development of this area and has already developed senior interests for deployment of the FSI technologies to PEMEX the Mexican Oil company.

The FSI Benefits to End Users

The Importance of Geological Interpretation

Gravity, magnetic, and electrical measurements, micro-seismicity, and reflection seismology and tomography are employed to remotely study subsurface geology. These techniques range from gross measurements, with vertical sampling in the thousands of feet, to more detailed measurements, with the vertical sampling on the order of 100's of feet. Success in exploration for, and efficient production of, hydrocarbon reservoirs often requires much higher vertical resolution so that reservoir-scale geological features may be reliably interpolated between wells. This can be achieved through frequent and direct sampling of the subsurface geology using drill holes.

To determine high resolution vertical variations in the geological rock column, geophysical well logs are acquired in drill holes. However, well logs are only transforms of the rock and fluid properties which suggest lithologies and fluid content. As such they are subject to interpretational variations.

The only direct sampling of subsurface geology comes from cores and cuttings. Cores are expensive. Cuttings, on the other hand, are produced continuously while each well is drilled. Careful collection and digital scanning of the cuttings on the drilling rig make it possible to match rock samples to their depth of origin. FSI technology provides a permanent record of geological details which are now being lost on most drilled wells.

What do FSI services provide?

- Real Time Drilling Rig Based certified cuttings sample collection and analysis with geological monitoring while drilling. (Gamma, Cuttings Volume Monitoring and Rock Typing)
- Rig based access to historical FSI Hosted Rock Data information (both visual and statistical) from other wells in same structure. (Subject to Real Time Rig Based connectivity to central FSI Data Hosting Service)
- A new style of Rock Data (numbers to rocks) that is compatible with existing Geophysical and Petrophysical working environments.
- A means of converting Legacy Geological Sample Repositories into FSI Rock Data values.
- A new permanent physical (sample card) cuttings storage system enabling multispectral digital records (scans) of the Sample Cards to be done for each sample interval from a Well.
- Geostatistically valuable cuttings data on FSI's patented sample card provides the industry with an easily accessible library to otherwise difficult-to-access geologic records.
- FSI's methodology for cuttings capture ensures accurate, continuous coverage of the entire well bore with precise sample depths not available from most methods in use today.

- Automated, rapid, and reproducible mineral identification of cuttings (few thousand rock chips per sample card) permit discrimination of caving contaminants to accurately identify rocks at the deepest depth drilled.
- Multispectral Digital core scans provide the industry with electronic storage of almost all of the information related to the core with a level of detail not possible with competing methods.
- FSI Calibrated Digital images can be automatically analyzed by image analysis routines to identify beneficial rock properties and characteristics
- FSI Digital images are easier and cheaper to store and retrieve than large pieces of rock. FSI's patented storage methodology provides efficient storage and quick access to high-resolution, color-balanced images.
- Facilitates enhanced geological interpretation.

Applications of FSI Technology

- Timely analysis of well cuttings from critical lithologies can dictate effective changes in the drilling program.
- Interpretation of results from drilling complex structural and stratigraphic sections can be enhanced.
- Wells drilled to test deeper targets or bypassed objectives should utilize FSI technology. This is particularly beneficial if other wells in the area have been sampled and scanned by FSI.

When utilized, FSI technology can provide major enhancement to all types of drilling, exploration and production.

Why Use FSI Technology?

FSI represents new technology; early users enjoy competitive advantages and reap significant rewards. Immediate benefits come from FSI's identification of current drilling problems and documentation deficiencies.

Are FSI services better than current procedures?

There are significant efforts within the oil and gas industry worldwide to acquire digital images of cores. No existing technique is competitive with the standardized illumination and high resolution core images provided by FSI. Collection and analysis of digital images of cuttings is in its infancy. Only FSI can provide controlled quality, full spectral images suitable for accurate rock typing.

How does this technology impact the bottom line?

Like many downhole technologies, the value of FSI technology is realized from two basic results: (1) identification of critical geologic information which leads to production or increased production. (2) savings from prevention of mistakes or catastrophes.

FSI Technology and the Future

The permanent samples and archival image records created by FSI will become more and more valuable as more wells in an area are sampled with FSI technologies. The direct correlation of color with lithology and even fluid content or stains becomes feasible with FSI services. The tools to automatically identify lithologies, to identify cavings, and to cross-correlate against sample cards from neighboring wells have not yet been developed but the feasibility study has been completed and subject to funding the designed development program will be implemented.

New technologies related to FSI services will include the ability to create gamma ray logs in real time and to apply ramen microscopy to discrete particles to identify the geochemistry and even fluid inclusions within lithologic samples. The continuous particle size analysis for shape and size distribution will provide critical verification of rock typing and also critical feed back to the driller on drilling bit performance.

Since these samples will be captured, imaged, and made available on-line within minutes of reaching the mud shaker, this process will revolutionize how the geologist determines where and how to modify the drilling program. Once the drilling has reached target depth and before the drill bit has even returned to the surface, the FSI services will have provided real time access to subsurface geology throughout the organization backed by both Total and Multispectral Gamma results. This will provide a far more reliable base line of data by which selection, and deployment of wireline services at the well can be made, thus improving the quality of wireline data returning from the structure.

Where are FSI services available?

FSI services are available any place drilling rigs operate or core collection and storage services are available as well as in petrophysics laboratories. FSI is particularly interested in working with National Oil Companies (NOCs) to provide capture and permanent storage of critical geological data which can become of great importance in optimizing production and identifying new trends.

When are FSI services available?

FSI data acquisition services are available within 60 days from the date of execution of contract. An entire cuttings and core imaging program for both stored geological samples and well site services can be designed to suit a customer's budget and time table rapidly.

How are FSI services provided?

- For Drilling Rig deployment, placement of 2 man crews with equipment for both offshore and onshore locations will provide
 - o Cuttings volume monitoring
 - Total and Multispectral Gamma logging of cuttings
 - o Cuttings particle Size distribution and shape monitoring
 - o Automatic Sample interval sampling

- o Representative Sample Collection
- o Sample Preparation
- o Sample Geological Identification
- o Sample Properties Testing
- o Sample Interpretation
- o Sample Result Hosting via Internet Connectivity

Estimated Cost between US\$125K to US\$150K per month per Drilling Rig dependent on services ordered (cost of one wireline run onshore)

- For Warehouse Deployment crew size will depend on project size with the following services:
 - o Cuttings Sample preparation
 - Sample Card generation
 - o Multispectral Imaging of Sample Cards
 - o Robotic Library Services
 - o Sample Card Testing and Analytical Services
 - o Core Imaging Services
- Digital Data Services
 - o Data Processing Services (Image Analysis ect)
 - o Data Interpretation Services
 - o Data Hosting Services
 - o Data Management Services

STATEMENT

To Wit:

The bottom line of FSI services and technologies is saving money. This is accomplished first through improving existing methods for data sample capture, analysis and second through making information accessible to those who can use it to support better decision making and thus reduce risk and increase rewards.

The entire oil and gas industry pays lip service to the value of "The Truth of the Rocks" while in actual fact, current practice is to rely upon high-order abstractions and remote sensing techniques, like seismic, as the primary tool. Even when rock data is available today, they are not used effectively, and they are often not used at all.

At best we use skewed and inaccurate digital photos to display on a section. The current images lack the quality of resolution and the color accuracy necessary to make them useful for analysis. Thus, what we see does not really represent the "Rock Truth", so the value is negligible.

We claim that wireline logs are the closest thing we have to the rocks since they are normally lower-order approximations than seismic. However, even with this data we choose not to use the information correctly. For example, how common is it to invert a sonic log to create a synthetic seismogram? Yet, when performing a correlation, we stretch and compress the log-derived synthetic, i.e., the better data, to make it match the less-accurate seismic merely because it is much more difficult to reprocess seismic to make a match than it is to ruin the information in the synthetic.

We have been paying wellsite geologists, mud loggers, and companies to collect cuttings, cut and log core, almost since the first wells were drilled in Pennsylvania. Yet today, in an age when computers supposedly make all types of information available at your fingertips, there is still no established methodology or standards for accurate sample collection, sample storage, automated sample analysis, and use of the miracles of highresolution color imagery to make rock data a part of the exploration and production data stream.

FSI brings an end to these shoddy methods. FSI brings real rock data to the computer world for the first time. Scientifically rigorous standardized techniques for sample acquisition, sample storage and presentation, and sample analysis combine with undistorted, precision color images stored in an easily accessible, quick transfer format at full resolution to fill in the last missing piece in computer analysis of oil field geology and geophysics.

You are paying for this information and have been doing so for years. It is not cheap, but for the most part is roundly ignored while the well is being drilled. Dusty warehouses are stuffed to overflowing with little bags of cuttings and boxes full of dried out core. No one could find any of it, even if they wanted to, let alone use it.

Isn't it about time that you received some value for your expenditures and made this potentially very valuable information available to your geoprofessionals? FSI can help.

John Pohlman Pohlman International

Color Brochures and Card Sample:



The geological imaging company

Would it help if you could do this?...

...We can

"Digital capture of cuttings and cores will be the critical new development in this technology trend... will provide a whole new way of understanding the subsurface, just as digital images from satellites and planes have provided a whole new way of understanding the earth's surface"

Initial Founder, Landmark Graphics Corporation: H. Roice Nelson, Jr.

OVERVIEW

Conventional formation evaluation from the well bore is used to develop a primary geological model. The industry is well aware of a number of shortcomings in this process and has invested millions of dollars in attempting to link these interpretations back to the original rock.

Every well drilled recovers primary geological data, in the form of rock cuttings, that is either given a cursory examination or is completely ignored and ultimately lost to the knowledge base. Additionally, when rock core is recovered and analyzed, too often this data is not available at vital decision making moments.

FSI has developed unique systems and supporting technologies that will dramatically improve the potential production from any oil or gas reservoir.

Through the replacement of current practices, the FSI Rock Management System addresses subjectiveness and efficiency issues that have been plaguing the industry for decades. It is accepted that there is no better data than that recovered from the rocks themselves. However connection to the rocks is the only thing missing from virtually every computerized data set in the oil and gas industry.

The FSI system is able to digitally capture, archive and process geological samples. As part of this process, **high resolution multi spectral images of cuttings and core** are produced. These white light and UV fluorescent images are calibrated and dimensionally stable, and therefore can be analyzed as a **true representation of the rock**.

FSI's patent pending **Sample Card System** permits the capture of thousands of rock particles from a vertical sample interval in the well bore. When placed in the **robotic library**, Near & Far Field Infra Red, Raman Spectroscopy and high magnification microscopy, may be undertaken remotely.

Both the images and the archived geological samples are managed using the FSI **Web File Management System [WFMS].** Real-time viewing of images and other data by office-based experts is supported. Additionally there is provision for image analysis and incorporation of images with conventional data sets. This powerful combination can be used to address key issues associated with Petroleum Systems Analysis, Geophysics and Petrophysics

The following examples are situations where FSI would be able to enhance your bottom line:

Example 1:

A major international E & P company re-drills and logs a S E Asian exploration well several times in an attempt to locate the reservoir. Finally an image log is run providing rock texture information indicating that a reservoir was not present. **Cost: 10 days rig time**

Example 2:

Major Australian operator had inexperienced well-site geologists who were unable to pick coring point. This resulted in cutting unnecessary core with corresponding rig and man time loss. FSI images were being transmitted that showed all salient geological attributes for accurate zone identification. Office-based experts chose to ignore them.

Cost: 3 days rig time & 10 meters of extra core.

Example 3

An Australian offshore exploration well ran a costly, unnecessary well test following difficulty identifying hydrocarbon type **Cost: 3 days rig time and a US\$250,000.**

Example 4.

A major North Sea operator drilled through an oil bearing zone whilst a trainee geologist "Mud Logger" was on shift. They realized their error when oil from the mud shakers was seen on the surrounding sea. **Cost: Almost an entire field.**

Example 5.

Non-commercial gas well discovery was abandoned. An oil migration study was undertaken years later and resulted in an oil discovery. **Cost: Almost an entire field**

Example 6. A major international operator abandoned a land gas discovery. A re-drill of the structure by another company located an oil bearing zone.

Cost: Loss of an onshore oil field

Example 7

A major Canadian operator was successful in discovering the largest gas deposit ever found in Canada through the on-site analysis of drill cuttings as they were produced. **Profit: Several Billion Dollars**

Full Spectral Imaging helps you use data...

FSI KEY SYSTEMS & TECHNOLOGIES

Our products and services are tailored to support multibillion dollar industries which are critically dependent upon geological data to underwrite their day-to-day operations.

GSDM (Geological Sample & Data Management)

is FSI's software management model. GSDM has been designed to manage all aspects of FSI Services including data acquisition, hosting, interpretation, processing, and archiving.

The current geological model of data input is derived from the examination of rock cuttings and core. Over the full life cycle of a reservoir, hundreds of thousands of geological samples must be collected, analyzed, and stored. However, once processed, few of these samples are accessible for further analysis, either while drilling or at any time thereafter. **Due to the unsuitability of current data structures and management systems, this crucial source of data is essentially lost to all but the most dedicated geologists.**

GSDM is the <u>only</u> system that has been designed to deal quickly and efficiently with image data libraries incorporating petabyes of data. Additionally the GSDM system includes a proprietary sample storage facility to allow remote retrieval and analysis of historical geological samples from multiple sources.

The Geological Data stored and managed by GSDM will always be a significant asset, even when a resource has been retired. Knowledge gained during the life of an asset need not be lost to the organization, but rather can be <u>conclusively</u> defined and made available as needed. Once in place GSDM will allow "Data Mining" across any data set (historical and current), which can comprise of many more than one resource.

GSDM is an interactive system that will allow all asset team members simultaneous access to its contents, regardless of location. Field operations that do not support Real-Time Communications ("Live Coms") with the main GSDM system will still operate effectively using a "Stand Alone" database. This can be configured to provide field personnel with access to the geological information pertinent to their area while allowing them to input newly generated data.

As a world first, the GSDM system offers a solution delivering value across the full life cycle of any field or reservoir and beyond.

Components of GSDM include:

Drill Cuttings Card & Archival System

A quality controlled system for collecting, handling, and archiving cuttings samples.



Cuttings Imaging System

A portable instrument for producing color calibrated, dimensionally stable images of cuttings.



Core Sample Imaging System

A portable instrument for producing colour calibrated dimensionally stable images of slabbed rock core.



Web File Management system A high capacity, automated data management system that incorporates image serving and analysis capabilities.

"The oil and gas industry spends more than US\$3 billion annually drilling unsuccessful exploratory wells in offshore basins."

Wood Mackenzie: Consultancy Services and Research Products to the Energy and Life Sciences industries.

...You have never been able to see before

FSI BENEFITS

Industry experts suggest that FSI's techniques will deliver 20-30% extra value to the hydrocarbon exploration and exploitation processes through; identification of missed pay, new pay opportunities and improved reserve predictions and production. Cost savings associated with drilling and completion efficiencies could be of the order of 20% per well. Below are listed some of the key benefits associated with the adoption of these technologies.

Exploration

Detection of by-passed pay. Indication of new exploration targets. Accurate real time geological horizons. Fault delineation. The detection of trace organic source material. Fluid typing. Real time well site geological images "on line". Enhanced high resolution. Geological & petrophysical analysis. Replacement of Wireline & LWD formation evaluation services. Enhancement of borehole image logs.

Reservoir Management

Improved reservoir characterization. Improved water production prediction. Optimal re-injection of waste water. High resolution stratigraphy. Accurate net to gross calculations. Rock texture analysis. Accurate hydraulic flow unit description. Rock properties assessment. Estimation of sanding potential. Accurate pin point Mineral & Geochemical analysis.

Drilling & Completion Operations

Real time detection of down-hole mechanical failures. Accurate geological input into completion design. Pressure and lithology prediction ahead of the drill bit.



"Applying the tremendous advances in computer technology to bring the rocks back into exploration and production will be the next great leap forward, driving increases in productivity and profits for the next decade"

John C. Pohlman, Pohlman International, Inc. Independent Petroleum Technology Analyst.

"This is one of the most exciting developments in geoscience in recent years... this technology will become a significant tool for the whole asset team" Michael Dowen, Manager of Welltec Asia Pacific

"I consider this [FSI Systems] to be a quantum leap forward in the field of Petroleum Systems Analysis"

Joseph Hamilton, Duprey Professor in Petroleum Geoscience, University of the West Indies

Full Spectral Imaging Services will answer any questions you may have. Please contact us at your convenience

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Product Info



The geological imaging company

DRILL CUTTINGS CARD & ARCHIVAL SYSTEM

FSIsc[™] is a patented card storage system for geological samples such as dried and screened cuttings and glass slide thin sections. FSIsc is the most advanced sample storage system on the market today. Developed in conjunction with 3m Australia the card has been designed to withstand the long term storage requirements the industry expects. The FSIsc is the size of a credit card with a PVC core which has been laminated to support thermal printing. The Geological sample card comes with an adhesive patch on one side and a special lamination to support thermal printing on the other side.

Before a sample is applied to the FSIsc Sample Card, the card is printed with a unique sample description and a unique, machine-readable, bar code identification number on both sides.

Once the FSIsc Sample Card has been printed, the protective paper cover over the adhesive is removed and the screened & dried cuttings sample is dusted over the exposed adhesive portion of the card. The adhesive is supplied by 3m Australia and is a permanent non drying ACRYLIC adhesive suitable for archival use and is resistive to hydrocarbons.

The FSI recommendation is to use only cuttings that have been washed and have passed through a 1mm sieve but retained by a 500 micron sieve then dried. This will ensure the number of particles on one FSIsc Sample Card will be greater than 2000 particles. Other particle size distributions can be produced and tracked for the same interval.

The FSIsc Sample Card is then placed into the FSIcic high resolution multi-spectral scanner to be scanned. Once scanned the card has a protective clear plastic cover placed over it before being packed into a cuttings sample cardboard box for transport to the sample store.

