

# Data & Information Management for a the small and nimble Oil and Gas Company

Practical examples of how a small exploration and production company can  
distribute their workforce and virtualise their office using modern cloud  
based approach

Hampton Data Services Ltd

[www.hamptondata.com](http://www.hamptondata.com)

Waclaw (Wally) Jakubowicz

Finding Petroleum  
Solving E&P Problems with Digitisation  
20<sup>th</sup> November 2017

# Hampton Data

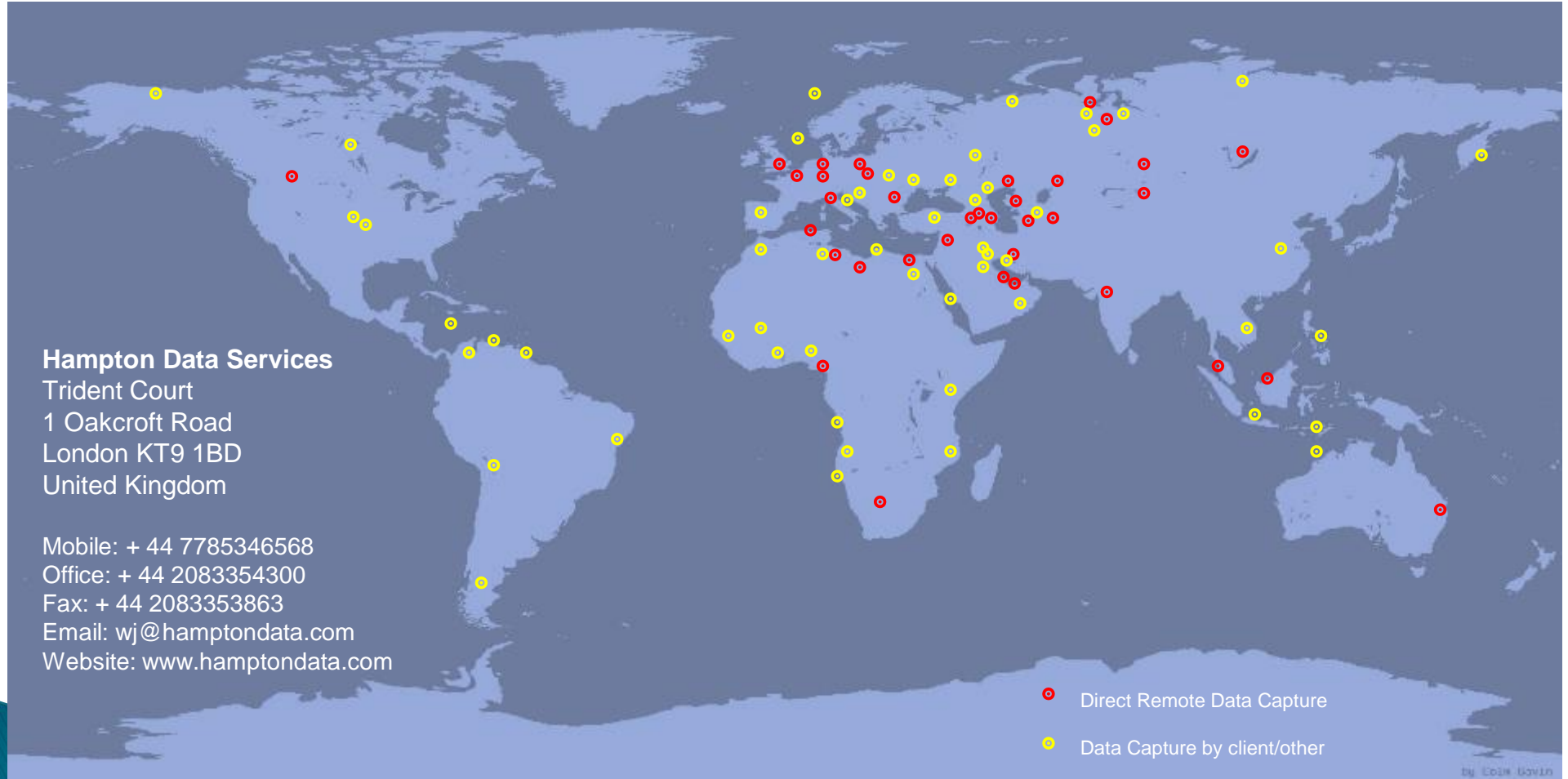
**25 years of  
E&P Data Management**

Worldwide experience of  
Remote Data Capture  
Data Rooms, Oil Co archives

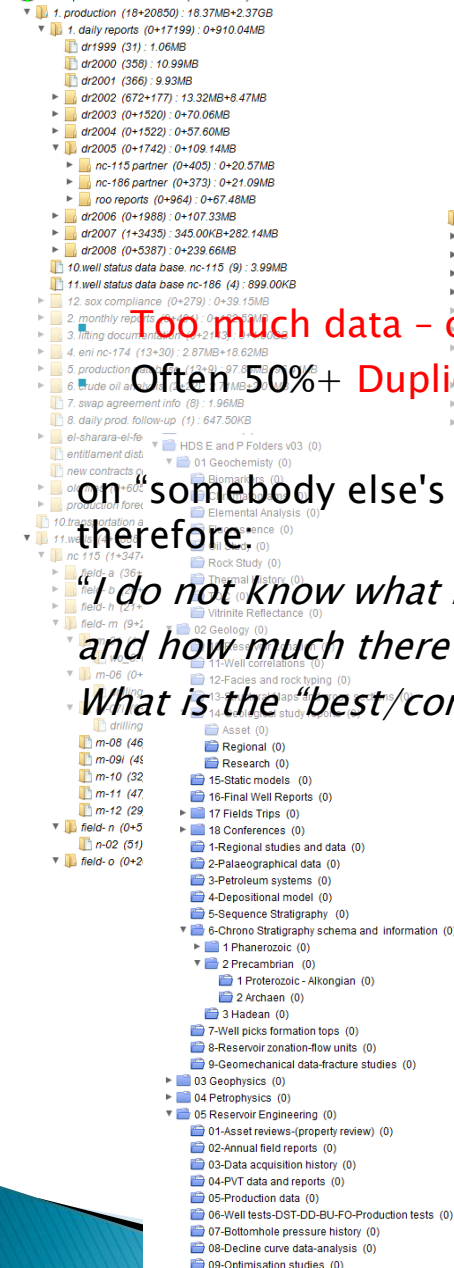
## Hampton Data Services

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○ Direct Remote Data Capture  
○ Data Capture by client/other



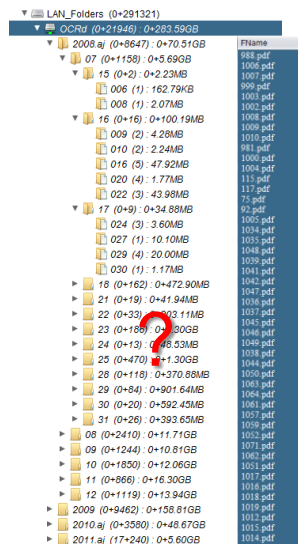
- Also within industry
- every client different

Often 50%+ Duplicated

“I do not know what is where...  
and how much there is of it.  
What is the ‘best/correct data to use’?”

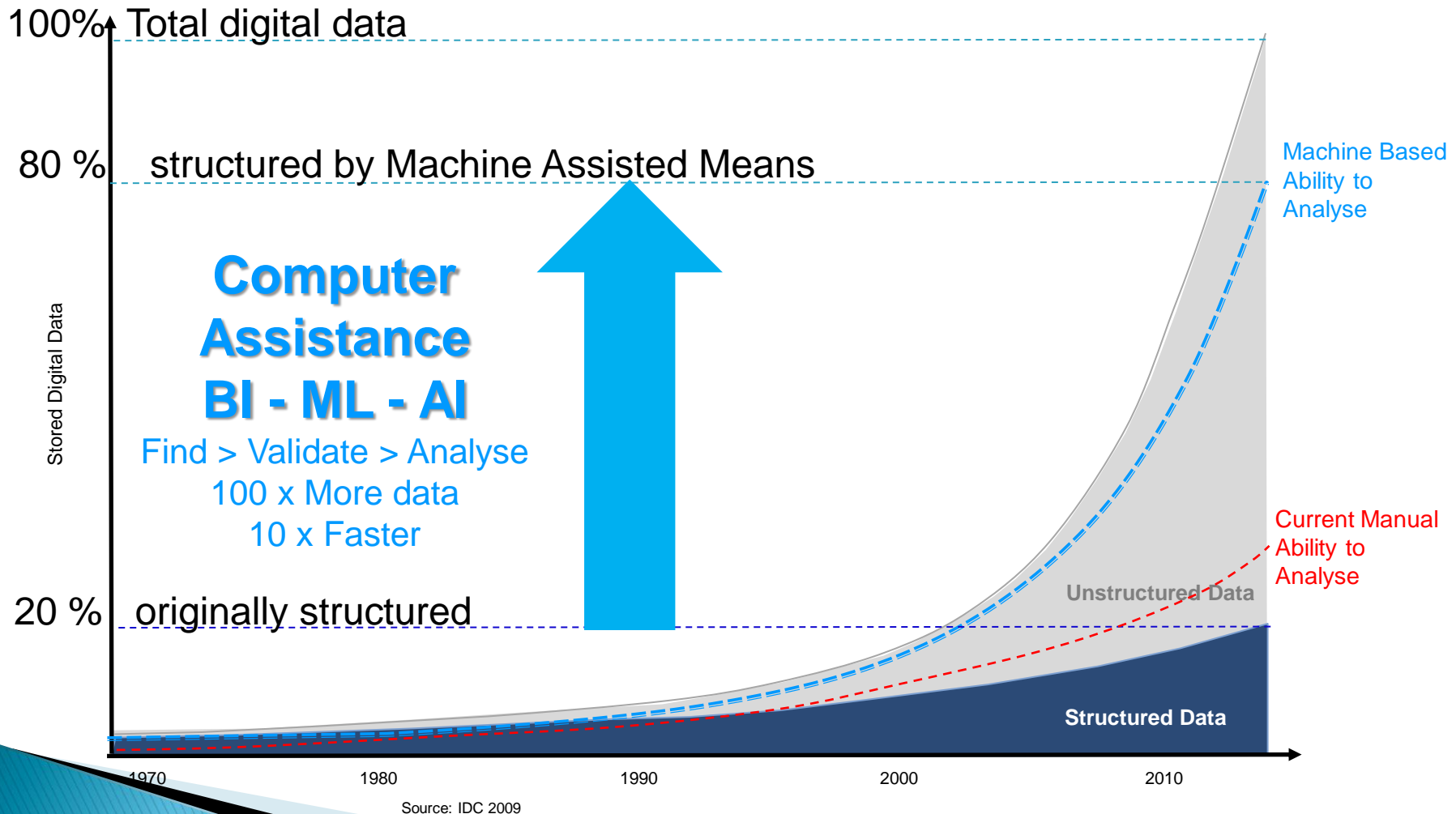
## Personal “special folders”

## Temp folders that become Permanent and lost



# Computer Aided Indexing, Metadata Capture, Classification, Spatial Tagging

- Highly efficient > Machine Based Automated >
  - The E&P IM/DM Team can do More in Less Time : **Save Money \$\$\$**
  - Process > Structure > Validate more data > **Reduce Risk**
  - Deliver Data to Decision Quickly > **D2D**



# Example 1 – Reach Energy Bhd



- ▶ KL Registered and KL & HK funded E&P Co
- ▶ Acquires asset in Kazakhstan – Emir Oil
  - Asset has seen several previous Operators
  - Legacy Data processed in different E&P cultures
    - Mixed English, Russian, Mandarin & Kazakh
  - Many data silos in different countries/institutes – gathered
  - Many previous studies done
  - Much data duplicated
  - Multiple seismic versions,
  - Multiple (poorly labelled) maps frequently with unknown datum etc
  - Mobile Expat Management – who want to “work & access data – on the move”
  - Require secure data access to consultants and consultancies doing reserves audits, evaluation, subsurface modelling



49,000 files  
330 Gb

Relatively Unstructured LAN file folder system



Russian – in file names , folder paths and content

Geoscope - Reach1

File Search View Tools Help

Categories

XRef Sub-cats Docs Dups

Search: [ ]

Documents (0+121587)

LAN\_Folders (0+48938)

2615ReachEnergy (30+1657) : 8.46MB+2.62GB

HDS Workspace (38) : 11.06MB

Raw\_in\_Client (0+1583) : 0+2.58GB

Test (0+1583) : 0+2.58GB

Reach Energy Data (0+1583) : 0+2.58GB

Reach-Kaz (26+10) : 23.41MB+9.32MB

Raster Maps (10) : 9.32MB

r (1+46029) : 299.00B+300.92GB

Datum-MIE (4+8504) : 410.20KB+7.23GB

tp (0+22528) : 0+261.14GB

050717 (2) : 73.15KB

17\_05\_17 Aonghus Data (0+595) : 0+927.93MB

170516 (0+998) : 0+11.17GB

Data Client (0+994) : 0+513.12MB

Seismic (4) : 10.67GB

170517 (0+561) : 0+14.48GB

210717 (4) : 88.85MB

Aonghus Upload (3) : 11.87GB

Bahram (0+330) : 0+6.89GB

BGP (1+1654) : 16.44MB+130.13GB

Contracts (2) : 28.08MB

DUMAN (6+7389) : 181.77MB+19.29GB

DUMAN\_1 (0+6365) : 0+16.05GB

DUMAN\_2 (10+80) : 63.95MB+35.39GB

Emir-Oil LLP (1) : 189.79KB

Guowenfeng (1) : 38.52MB

HDS\_FileIster\_20170309 (3+197) : 948.28KB+175.18MB

RESERVES (0+42) : 0+237.25MB

NK (5+37) : 161.37MB+75.87MB

Panka I (26) : 62.07MB

Panka II (11) : 13.81MB

Tu-Ha (0+2774) : 0+10.23GB

1 (0+612) : 0+3.00GB

2 (0+1081) : 0+3.61GB

3 (0+1081) : 0+3.61GB

Tu-Ha\_file Names\_Translated\_By\_BA (2+1508) : 1.10MB+3.93GB

HDS\_OVERLONG\_EXTR (0+835) : 0+1.30GB

XEO (0+14158) : 0+31.25GB

2.Drilling data (0+182) : 0+32.27MB

Boundaries of blocks (3) : 1.42MB

Daily drilling report (0+179) : 0+30.85MB

4.Log data (0+5236) : 0+12.77GB

5.Core analysis data (0+669) : 0+2.10GB

6.Prod Data (0+2763) : 0+1.93GB

7.Files of Discovery blocks (0+2077) : 0+1.54GB

8.Research Rpts (0+3151) : 0+12.72GB

1.Programs (0+2721) : 0+12.09GB

2.Reserves report and development plan of Aksaz field (2011) (0+297) : 0+252.47MB

3.Reserves report and development plan of Dolinnoe oil field (2011) (0+8) : 0+57.47MB

4.Reserves rpt & dev plan -Emir field 2011 (0+70) : 0+257.08MB

5.Reserves report & development plan of Kariman oil field (2011) (0+4) : 0+37.67MB

Documents Map Objects Active Search Marks

Filters: Unique Cats Map Search Linked Docs Briefcase Similarity Workflow << Docs: 1-19/19 >>

Name	Links	Filename	FileSize	Types	Date Added	Catego
Прил 1 лит профиль I-I и II-II.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 1 лит профиль I-I и II-II.cdr	3.29MB	LAN Files	2017-10...	2 Wit
Прил 2 ТЗ надбаз стр карта.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 2 ТЗ надбаз стр карта.cdr	1.24MB	LAN Files	2017-10...	2 Wit
Прил 3 ТЗ баз стр карта.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 3 ТЗ баз стр карта.cdr	979.71KB	LAN Files	2017-10...	2 Wit
Прил 4 Т2А стр карта.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 4 Т2А стр карта.cdr	934.70KB	LAN Files	2017-10...	2 Wit
Прил 5 Т2Б стр карта.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 5 Т2Б стр карта.cdr	1.47MB	LAN Files	2017-10...	2 Wit
Прил 6 Т2В стр карта.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 6 Т2В стр карта.cdr	1.57MB	LAN Files	2017-10...	2 Wit
Прил 7 Стр. карта V2-II.cdr	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Прил 7 Стр. карта V2-II.cdr	3.69MB	LAN Files	2017-10...	2 Wit
Приложение № 10.xlsx	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Приложение № 10.xlsx	169.34KB	LAN Files	2017-10...	2 Wit
Приложение № 11.xlsx	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Приложение № 11.xlsx	171.78KB	LAN Files	2017-10...	2 Wit
Приложение № 8.xlsx	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Приложение № 8.xlsx	181.52KB	LAN Files	2017-10...	2 Wit
Приложение № 9.xlsx	0/0	\\Mercury\\ntfp\\RESERVES\\NK\\Панка II\\Приложение № 9.xlsx	180.81KB	LAN Files	2017-10...	2 Wit
Dolinnoe-方案二.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Dolinnoe-方案二.dfd	329.19KB	LAN Files	2017-10...	1 No
Dolinnoe-方案四.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Dolinnoe-方案四.dfd	324.18KB	LAN Files	2017-10...	1 No
Dolinnoe-方案三.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Dolinnoe-方案三.dfd	323.04KB	LAN Files	2017-10...	1 No
Kariman-方案三.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Kariman-方案三.dfd	435.82KB	LAN Files	2017-10...	1 No
Kariman-方案二.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Kariman-方案二.dfd	440.78KB	LAN Files	2017-10...	1 No
Kariman-方案四.dfd	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\Kariman-方案四.dfd	442.60KB	LAN Files	2017-10...	1 No
新部署井设计坐标.xlsx	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\新部署井设计坐标.xlsx	25.71KB	LAN Files	2017-10...	1 No
老井补孔措施建议表.xlsx	4/4	\\Mercury\\ntfp\\Tu-Ha\\110-新井井位及老井措施建议\\老井补孔措施建议表.xlsx	62.05KB	LAN Files	2017-10...	1 No

40% duplication

Mandarin – in file names , folder paths and content

# THE DATA

With the permission of Reach Energy Berhad

# Added problem of well/field/asset ALIAS names

Geoscope - Reach1

File Search View Tools Help

Categories

☐ XRef ☒ Sub-cats ☐ Docs ☐ Dups

Search:

Documents (0+121587)

LAN\_Folders (0+48938)

2615ReachEnergy (30+1657): 8.46MB+2.62GB

HDS Workspace (38): 11.06MB

Raw\_In\_Client (0+1583): 0+2.58GB

Test (0+1583): 0+2.58GB

Reach\_Energy Data (0+1583): 0+2.58GB

Reach-Kaz (26+10): 23.41MB+9.32MB

Raster Maps (10): 9.32MB

r (1+46029): 299.00B+300.92GB

Datum-MIE (4+8504): 410.20KB+7.23GB

Cores (2+288): 1.55MB+835.55MB

Emi of NK2 (1): 1.66MB

Fracture and washing (1+87): 10.26KB+57.65MB

Loggings (0+125): 0+402.77MB

Master logging (5+427): 3.10MB+259.39MB

Perforation (1): 18.41KB

Pressure and temp (0+3968): 0+1.49GB

Production (2+179): 548.43KB+65.61MB

Structure (1+2749): 222.24MB+3.43GB

VSP (0+21): 0+94.61MB

Well History (7): 4.44MB

Well test (0+640): 0+416.91MB

Blocks (0+83): 0+31.21MB

Well test data since 2015 (1+82): 5.65MB+143.66MB

Wells (0+474): 0+236.39MB

tp (0+22528): 0+261.14GB

050717 (2): 73.15KB

17\_05\_17 Aonghus Data (0+595): 0+927.93MB

17\_05\_2017 Legacy Data Aonghus (0+432): 0+640.29MB

170517 Emir Oil Data (10+126): 48.80MB+156.07MB

D-3 (1): 16.48KB

D-8 (10): 38.28MB

K-113 (5): 11.12MB

K-119 (1): 667.00KB

K-120 (1): 3.20MB

K-121 (1): 2.85MB

K-123 (8): 22.99MB

K-124 (2): 11.24MB

K-13 (14): 6.56MB

K-2 (1): 3.87MB

K-3 (4): 2.05MB

K-3ST (1): 302.25KB

Legacy Production Data (47): 7.93MB

MIE Planning Documents (4): 2.47MB

NK-1 (2): 652.50KB

Sundry Drilling Planning Sheets (9): 1.17MB

Y-1 (1): 225.92KB

Y-3 (14): 40.51MB

19052017 Aonghus Data (27): 82.77MB

170516 (0+998): 0+11.17GB

Data Client (0+994): 0+513.12MB

Documents Map Objects Active Search Marks

Wells\_170518v1 Apply Search Selected objects Docs Docs > 0 Briefcase Mark Objects

Wells\_170518v1

Well\_Name TotalDepth U n i q u e I d TopMDT2B TopMDT2C TopTVD2B TopTVD2C CalcTop TVD Datum\_eva WellSTatus Field Well\_No DD\_Alias1 DD\_Alias2 DD

Official Well Name

Saura-Segendi 4

Aksaz 1 0 ... A1 4166 4213 4163 4210 -999... -10 11 Aksaz 1 Aksaz 1 A 1

Aldai 1 -5264 ... AD1 -99999 -99999 -99999 -99999 -999... -64 11 Aldai 1 Айдай 1 AD 1

Borli, Borly 2 0 ... B2 -99999 -99999 -99999 -99999 -999... -13 PJ Borli 2 Борлы 2 -ST B 2 -ST,STK,SIDE\*

Borli, Borly 2ST1 0 ... B2ST1 -99999 -99999 -99999 -99999 -999... -13 PJ Borli 2ST1 Борлы 2 ST 1 B 2 ST,STK,SIDE\* 1

Dolinnoe 1 0 ... D1 3523 3582 3480 3538 -999... -41 11 Dolinnoe 1 Долинное Долин Д 1 D 1

Dolinnoe 110 0 ... D110 3501 3572 3501 3572 71 -24 11 Dolinnoe 110 Долинное Долин Д 110 D 110

Dolinnoe 112 -3754 ... D112 3494 3559 3494 3559 65 -32 11 Dolinnoe 112 Долинное Долин Д 112 D 112

Dolinnoe 12 0 ... D12 3686 3750 3524 3556 -999... -84 11 Dolinnoe 12 Долинное Долин Д 12 -ST D 12 -ST,STK,SIDE\*

Dolinnoe 12ST1 0 ... D12ST1 3576 3677 3574 3675 -999... -26 11 Dolinnoe 12ST1 Долинное Долин Д 12 ST 1 D 12 ST,STK,SIDE\* 1

Dolinnoe 2 0 ... D2 3510 3590 3507 3572 -999... -26 PJ Dolinnoe 2 Долинное Долин Д 2 -ST D 2 -ST,STK,SIDE\*

Dolinnoe 2ST1 0 ... D2ST1 3522 3616 3502 3575 -999... -27 PJ Dolinnoe 2ST1 Долинное Долин Д 2 ST 1 D 2 ST,STK,SIDE\* 1

Aksaz 105 0 ... A105 3536 3587 3536 3586 -999... -47 11 Aksaz 105 Долинное Долин Д 2 ST 2 D 2 ST,STK,SIDE\* 2

Dolinnoe 3 0 ... D3 3491 3548 3490 3548 -999... -60 11 Dolinnoe 3 Долинное Долин Д 3 D 3

Dolinnoe 5 0 ... D5 3475 3539 3474 3538 -999... -54 11 Dolinnoe 5 Долинное Долин Д 5 D 5

Dolinnoe 6 0 ... D6 3849 3928 3636 3685 -999... -25 PJ Dolinnoe 6 Долинное Долин Д 6 -ST D 6 -ST,STK,SIDE\*

Dolinnoe 6ST1 0 ... D6ST1 3531 3600 3531 3600 -999... -42 11 Dolinnoe 6ST1 Долинное Долин Д 6 ST 1 D 6 ST,STK,SIDE\* 1

Dolinnoe 7 0 ... D7 2961 3003 2961 3003 42 18 11 Dolinnoe 7 Долинное Долин Д 7 D 7

Dolinnoe 8 0 ... D8 2948 2983 2948 2983 35 15 11 Dolinnoe 8 Долинное Долин Д 8 D 8

Emir 1 -3582 ... E1 3005 3053 3053 3053 48 12 11 Emir 1 Емир 1 E 1

Emir 2 -3155 ... E2 3407 3432 3432 3476 -999... -88 11 Emir 2 Емир 2 E 2

Emir 5 0 ... E5 3432 3476 3432 3476 -999... -88 11 Emir 5 Емир 5 E 5

Aksaz 106 -4348 ... A106 3770 -99999 3606 -99999 -999... -81 11 Aksaz 106 Аксаз 106 Аксаз 106 A 106

Emir 6 -3208 ... E6 3476 3509 3476 3508 -999... -82 11 Emir 6 Емир 6 E 6

Kariman 1 0 ... K1 3407 3432 3432 3476 -999... -88 11 Kariman 1 Кариман,Кари,Кар,К 1 -ST K 1 -ST,STK,SIDE\*

Kariman 10 0 ... K10 3432 3476 3432 3476 -999... -88 11 Kariman 10 Кариман,Кари,Кар,К 10 K 10

Kariman 11 0 ... K11 3770 -99999 3606 -99999 -999... -81 11 Kariman 11 Кариман,Кари,Кар,К 11 -ST K 11 -ST,STK,SIDE\*

Kariman 113 0 ... K113 3476 3509 3476 3508 -999... -82 11 Kariman 113 Кариман,Кари,Кар,К 113 K 113

Kariman 114 0 ... K114 3421 3461 3421 3461 40 -93 11 Kariman 114 Кариман,Кари,Кар,К 114 K 114

Kariman 116 -3633 ... K116 3564 3564 3564 3564 -999... -93 11 Kariman 116 Кариман,Кари,Кар,К 116 K 116

Kariman 117 0 ... K117 3655 3741 3618 3678 -999... -84 11 Kariman 117 Кариман,Кари,Кар,К 117 -ST K 117 -ST,STK,SIDE\*

Kariman 117ST 0 ... K117ST 3433 3473 3433 3473 40 -84 11 Kariman 117ST Кариман,Кари,Кар,К 117 ST K 117 ST,STK,SIDE\*

Kariman 118 -3684 ... K118 4124 4166 4122 4164 42 8 11 Kariman 118 Кариман,Кари,Кар,К 118 K 118

Aksaz 2 -4285 ... A2 3422 3460 3422 3460 38 -84 11 Aksaz 2 Аксаз 2 -ST A 2 -ST,STK,SIDE\*

Kariman 119 -3629 ... K119 3584 -99999 3433 -99999 -999... -81 Oil Kariman 119 Кариман,Кари,Кар,К 119 K 119

Kariman 11ST 0 ... K11ST 3919 4128 3676 3728 -999... -83 11 Kariman 11ST Кариман,Кари,Кар,К 11 ST K 11 ST,STK,SIDE\*

Kariman 12 0 ... K12 3426 3470 3415 3459 -999... -82 PJ Kariman 12 Кариман,Кари,Кар,К 12 K 12

Kariman 120 -3735 ... K120 3426 3470 3415 3459 -999... -82 PJ Kariman 120 Кариман,Кари,Кар,К 120 K 120

Kariman 121 0 ... K121 3426 3470 3415 3459 -999... -82 PJ Kariman 121 Кариман,Кари,Кар,К 121 K 121

Kariman 123 0 ... K123 3426 3470 3415 3459 -999... -82 PJ Kariman 123 Кариман,Кари,Кар,К 123 K 123

Kariman 124 0 ... K124 3426 3470 3415 3459 -999... -82 PJ Kariman 124 Кариман,Кари,Кар,К 124 K 124

Kariman 13 0 ... K13 3426 3470 3415 3459 -999... -82 PJ Kariman 13 Кариман,Кари,Кар,К 13 K 13

Kariman 1ST1 0 ... K1ST1 3426 3470 3415 3459 -999... -82 PJ Kariman 1ST1 Кариман,Кари,Кар,К 1 ST 1 K 1 ST,STK,SIDE\* 1

Kariman 1ST2 0 ... K1ST2 3426 3470 3415 3459 -999... -82 PJ Kariman 1ST2 Кариман,Кари,Кар,К 1 ST 2 K 1 ST,STK,SIDE\* 2

Aksaz 2ST1 0 ... A2ST1 3426 3470 3415 3459 -999... -82 PJ Aksaz 2ST1 Аксаз 2 ST 1 A 2 ST,STK,SIDE\* 1

Kariman 2 -3621 ... K2 3391 3434 3391 3434 43 -86 11 Kariman 2 Кариман,Кари,Кар,К 2 K 2

Kariman 3 0 ... K3 3608 3650 3608 3650 -999... -81 11 Kariman 3 Кариман,Кари,Кар,К 3 -ST,-2 K 3 -ST,STK,SIDE\*

Kariman 3ST 0 ... K3ST 3624 3700 3600 3666 -999... -83 PJ Kariman 3ST Кариман,Кари,Кар,К 3 ST K 3 ST,STK,SIDE\*

Kariman 3ST2 0 ... K3ST2 3673 -99999 3581 -99999 -999... -81 11 Kariman 3ST2 Кариман,Кари,Кар,К 3 ST 2 K 3 ST,STK,SIDE\* 2

Kariman 4 0 ... K4 3552 3597 3552 3597 -999... -87 11 Kariman 4 Кариман,Кари,Кар,К 4 K 4

Kariman 5 0 ... K5 3567 3614 3567 3614 -999... -88 11 Kariman 5 Кариман,Кари,Кар,К 5 K 5

Kariman 6 0 ... K6 3441 3483 3441 3483 -999... 9 11 Kariman 6 Кариман,Кари,Кар,К 6 -ST K 6 -ST,STK,SIDE\*

Kariman 6ST1 0 ... K6ST1 3441 3483 3441 3483 -999... 9 11 Kariman 6ST1 Кариман,Кари,Кар,К 6 ST 1 K 6 ST,STK,SIDE\* 1

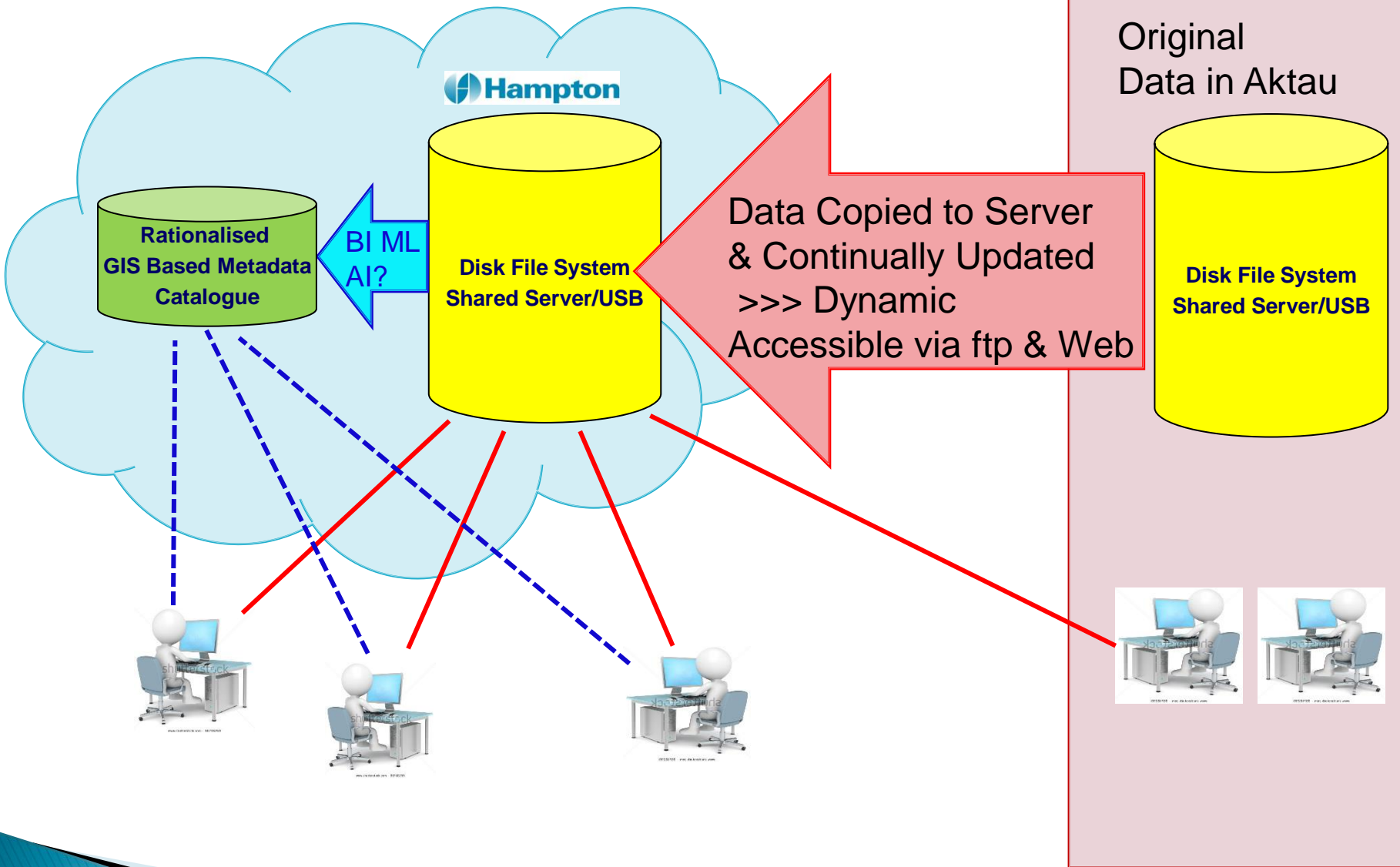
Kariman 6ST2 0 ... K6ST2 3502 3580 3461 3515 -999... -81 PJ Kariman 6ST2 Кариман,Кари,Кар,К 6 ST 2 K 6 ST,STK,SIDE\* 2

Kariman 6ST3 0 ... K6ST3 3502 3580 3461 3515 -999... -81 PJ Kariman 6ST3 Кариман,Кари,Кар,К 6 ST 3 K 6 ST,STK,SIDE\* 3

Aksaz 2ST2 0 ... A2ST2 3426 3470 3415 3459 -999... -82 PJ Aksaz 2ST2 Аксаз 2 ST 2 A 2 ST,STK,SIDE\* 2

Well Data Table

Aliases can be Automatically created



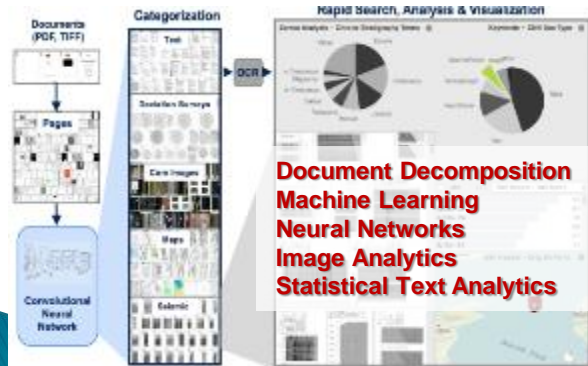
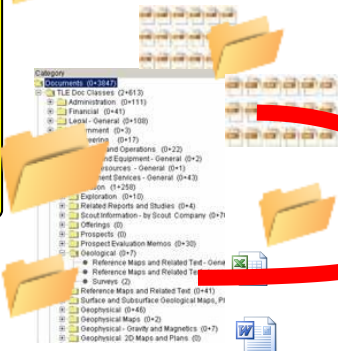


## E&P Data Indexing of shared file system

All digital files on a shared server, are automatically & continually indexed by Machine Based BI Rules. This data file/object Index is always “Evergreen” and is autonomously linked and manually validated to spatial objects, classes ( for any Taxonomy ) and can have additional Metadata tags added.

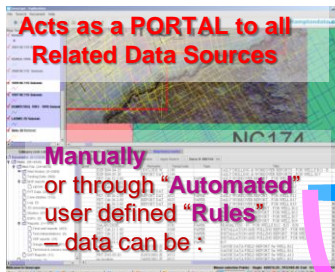


A yellow cylinder representing a storage device. Inside the cylinder, the text "Disk File System" and "Shared Server/USB" is written in black.



**Sees all the Data files and their content on the shared server**

**Acts as a PORTAL to all Related Data Sources**



File Name, File Path, File Content

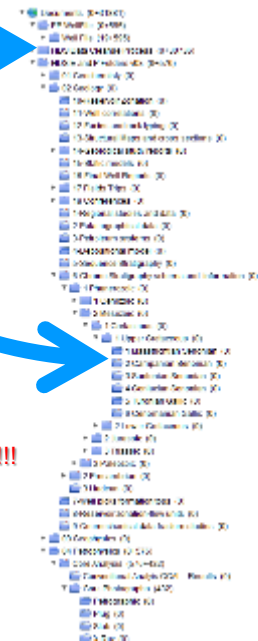
Project metadata, audit/validation/quality info

**NEW Metadata Captured  
or “Metadata Updated” !!!!**



## “GeoTagged” Linked to Spatial Locations

**“Classified”**  
Linked to “Ideal” Taxonomy



# Gathered Metadata DB

## File Metadata

- File Unique ID
- Type, Extension - Format
- Create/Edit Date,
- Name, Folder Path
- Size, Checksum
- Duplicate/Unique

## File Content Metadata

- Extracted File Header Data from TEXT
- Extracted Log Curve Data & LAS LIS DLIS Headers
- Extracted Seismic Trace Data from SEGY
- Extracted Navigation Files

## File / Record Classes

- Classify by
  - File / Record Name / File Path
  - File TEXT Content
    - Key Words
    - BI Rules
    - ML "Type" Algorithms
  - File IMAGE Content
    - Key Words from OCR/Text recognition
    - ML "Type" Algorithms from CNN

## File / Record Spatial Location – Geo Tagging

- Well/Field/Asset ALIAS TABLES
- Geolocate by
  - File Name / File Path – Record Content
  - File Headers – LAS LIS DLIS SEGY
  - File TEXT - Record Content
    - Key Words
    - BI Rules
    - ML "Type" Algorithms
  - File IMAGE Content
    - Key Words from OCR/Text recognition
    - ML "Type" Algorithms from CNN

## File Document Metadata (EDMS)

- Title
- Author
- Date as per originator
- Remarks/Comments
- Other standard attribute fields

## File Process / Workflow Metadata

- RAW / Processed / FINAL
- WORKFLOW Status
- Owner / Processor / Validator
- Parent / Source Files to Process
- Output Files from processing
- VALIDITY/QC Status
- Related Files

## TASKS

- AUTONOMOUS
- AUTONOMOUS with MANUAL Validation
- MANUAL

## Notes:

OCR Optical Character Recognition

BI Business Intelligence rules

ML Machine learning

CNN Convolutional Neural Networks

Tf-IDf -Term Frequency/Inverse Document Frequency

HDS E&P File Metadata Extractor

PARS® (Project Archive and Retrieval System) from Interica



# Unstructured – Assorted E&P Data Input Can be effectively managed using automated Machine Learned methods:

Physical, Hardcopy, Electronic

Live shared Hard Disk with >> 100,000's of unstructured data files



**DATA is Locked in:**

Digital E&P Standard Format Files:

SEGY DLIS LAS LIS P190 UKOOA etc

Other Digital Vector files:

MS Office PPT DOC XLS TXT ASCII XML HTML PDF etc

Other Raster Image & Graphic Files ( & embedded in docs):

TIFF JPG PDS CGM WMF Physical & Hardcopy

Standard E&P Databases:

Petrel, R5000, OW/SW, Paradigm EPOS,  
Geolog, RMS, VIP, Eclipse, IHS\_Kingdom  
ArcGIS, IKON RokDOC ? etc



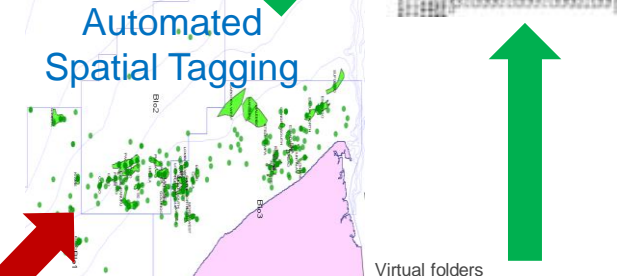
Automated Full data  
Index with RICH  
Metadata

Advanced Data  
Analytics &  
Visualization becomes  
POSSIBLE

Curve & Well Data  
Coverage Analytics



Automated  
Spatial Tagging



Using Hampton Data  
Workflows & Tools:

OCR  
CNN  
HD E&P Crawler  
Tf-Idf

Virtual folders

Automated  
Classification

- Documents (1-10000)
- SEGY DLIS LAS LIS P190 UKOOA etc
- MS Office PPT DOC XLS TXT ASCII XML HTML PDF etc
- TIFF JPG PDS CGM WMF Physical & Hardcopy
- Petrel, R5000, OW/SW, Paradigm EPOS, Geolog, RMS, VIP, Eclipse, IHS\_Kingdom, ArcGIS, IKON RokDOC ? etc
- Related Reports and Studies (1-1000)
- Geological (1-1000)
- Reference Maps and Related Text (1-1000)
- Surveys (1-1000)
- Geophysical (1-1000)
- Geophysical - Gravity and Magnetics (1-1000)
- Geophysical 2D Maps and Plans (1-1000)
- Geological 3D Maps and Plans (1-1000)
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- Geological 99D Maps and Plans (1-1000)
- Geological 100D Maps and Plans (1-1000)

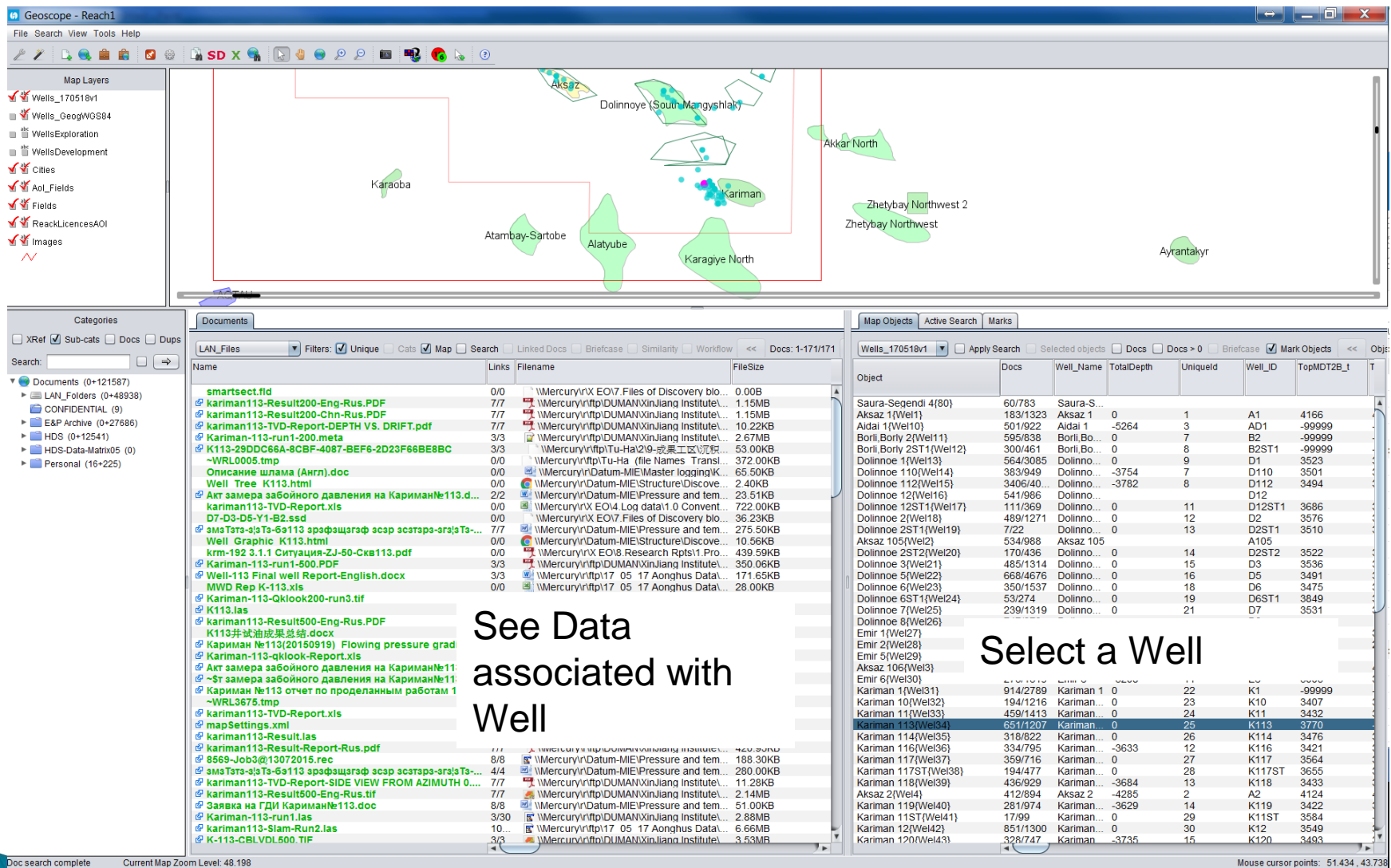
OCR Optical Character Recognition  
CNN Convolutional Neural Networks  
Tf-Idf -Term Frequency/Inverse Document Frequency  
HDS E&P File Metadata Extractor  
RocQC/PARS® OpenSpirit

Confidential

Copyright Hampton Data Services Ltd









Geoscope - Reach1

File Search View Tools Help

Categories

☐ XRef ☒ Sub-cats ☒ Docs ☐ Dups

Search:

Documents (0+121587)

- LAN\_Folders (0+48938)
  - 2615ReachEnergy (30+1657): 8.46MB+2.62GB
  - Cores (2+288): 1.55MB+835.55MB
  - EMI of NK2 (1): 1.66MB
  - Fracture and washing (1+87): 10.26KB+57.65MB
  - Acid Washing (0+35): 0+23.85MB
    - 2012年 (7): 10.32MB
    - 2013年 (9+10): 3.81MB+4.82MB
    - 2014年 (0+8): 0+4.74MB
      - 11.01.14\_Карман№116 (酸化) (2): 1.25MB
      - 11.02.14\_Don-112 (酸化) (2): 1.11MB
      - 11.03.14\_Карман№113 (酸化) (2): 1.23MB
      - 16.03.14\_Карман№12 (酸化) (2): 1.14MB
  - Fracture (0+52): 0+33.80MB
  - Loggings (0+125): 0+402.77MB
    - Curves (62): 306.76MB
    - Pictures (63): 96.01MB
  - Master logging (5+427): 3.10MB+259.59MB
    - A105 (2): 1.54MB
    - A106 (2): 6.26MB
    - A2 (4): 6.57MB
    - A3 (3): 1.72MB
    - A4 (2): 1.44MB
    - A6 (3): 3.94MB
    - AD1 (6): 8.55MB
    - B2at (1): 1.07MB
    - D110 (6+4): 2.17MB+3.66MB
    - D112 (1+10): 1.69MB+3.95MB
    - D-12 (7): 2.42MB
    - D-12ST (5): 2.54MB
    - D2 (7): 7.66MB
    - D2ST2 (1): 170.36KB
    - D3 (1+119): 3.73MB+16.59MB
    - D5 (4): 2.32MB
    - D6 (2): 2.73MB
    - D7 (2): 4.97MB
    - E2 (5+7): 12.10MB+447.14KB
    - E5 (1+5): 336.54KB+1.53MB
    - E6 (0+4): 0+21.99MB
    - K1 (4): 2.08MB
    - K10 (3): 2.74MB
    - K11 (7+7): 21.60MB+380.73KB
      - K113H (6): 3.97MB
    - K114 (23): 3.65MB
    - K116 (1+10): 298.33KB+1.13MB
    - K117 (6+5): 2.33MB+1.27MB
    - K117ST (2): 736.58KB
    - K118 (5): 1.97MB

Documents

LAN\_Files Filters: ☒ Unique ☐ Cats ☒ Map ☐ Search ☐ Linked Docs ☐ Briefcase ☐ Similarity ☐ Workflow << Docs: 1-171/171

Name	Links	Filename	FileSize
smartsec010	0/0	\\Mercury\\v\\X EO17 Files of Discovery blo...	0.00B
karman113-Result200-Eng-Rus.PDF	7/7	\\Mercury\\v\\DUMAN\\XinJiang Institute...	1.15MB
karman113-Result200-Chn-Rus.PDF	7/7	\\Mercury\\v\\DUMAN\\XinJiang Institute...	1.15MB
karman113-TVD-Report-DEPTH VS. DRIFT.pdf	7/7	\\Mercury\\v\\DUMAN\\XinJiang Institute...	10.22KB
karman113-run1-200.msta	3/3	\\Mercury\\v\\DUMAN\\XinJiang Institute...	2.67MB
K113-29D0C68A-60BF-4087-8E6F-2D24F68B8B8C	3/3	\\Mercury\\v\\DUMAN\\XinJiang Institute...	53.00KB
\\VRL0008.tmp	0/0	\\Mercury\\v\\DUMAN\\XinJiang Institute...	372.00KB
Опловение скважины (Англ).doc	0/0	\\Mercury\\v\\DUMAN\\XinJiang Institute...	65.50KB
Well Tree K113.html	0/0	\\Mercury\\v\\DUMAN\\XinJiang Institute...	2.40KB
Акт замеров забойного давления на Карман№113.doc	2/2	\\Mercury\\v\\DUMAN\\XinJiang Institute...	23.51KB
karman113-TVD-Report.xls	0/0	\\Mercury\\v\\X EO4 Log data\\1.0 Convent...	722.00KB
07-05-08-Y1-B2.xsd	0/0	\\Mercury\\v\\X EO17 Files of Discovery blo...	36.23KB
звистота-звистота-6x113 опловение скважины скважины-аркста...	7/7	\\Mercury\\v\\DUMAN\\XinJiang Institute...	275.50KB
Well Graphic K113.html	0/0	\\Mercury\\v\\DUMAN\\XinJiang Institute...	10.56KB
kmi-192.3.1.3 Синаусин-Зу-50-Gx113.pdf	0/0	\\Mercury\\v\\X EO8 Research Rpts\\1. Pro...	439.59KB
karman113-run1-500.PDF	3/3	\\Mercury\\v\\DUMAN\\XinJiang Institute...	350.06KB
Well113.Final Well Report-English.docx	3/3	\\Mercury\\v\\DUMAN\\XinJiang Institute...	171.65KB
MWD Rep-K113.xls	0/0	\\Mercury\\v\\DUMAN\\XinJiang Institute...	28.00KB
karman113-Qwico200-run3.tif	6/5	\\Mercury\\v\\DUMAN\\XinJiang Institute...	1.63MB
K113.xls	3/48	\\Mercury\\v\\DUMAN\\XinJiang Institute...	9.15MB

Map Objects Active Search Marks

Wells\_170518v1 ☐ Apply Search ☐ Selected objects ☐ Docs

Object	Docs	Well_Name	TotalDepth
Saura-Segendi 4(80)	60/783	Saura-S...	
Aksaz 1(Wel1)	183/1323	Aksaz 1	0
Aidai 1(Wel10)	501/922	Aidai 1	-5264
Borli, Borly 2(Wel11)	595/838	Borli, Bo...	0
Borli, Borly 2ST1(Wel12)	300/461	Borli, Bo...	0
Dolinnoe 1(Wel13)	564/3065	Dolinnoe...	0
Dolinnoe 110(Wel14)	383/949	Dolinnoe...	-3754
Dolinnoe 112(Wel15)	3406/40	Dolinnoe...	-3782
Dolinnoe 12(Wel16)	541/986	Dolinnoe...	0
Dolinnoe 12ST1(Wel17)	111/369	Dolinnoe...	0
Dolinnoe 2(Wel18)	489/1271	Dolinnoe...	0
Dolinnoe 2ST1(Wel19)	7/22	Dolinnoe...	0
Aksaz 105(Wel2)	534/988	Aksaz 105	0
Dolinnoe 2ST2(Wel20)	170/436	Dolinnoe...	0
Dolinnoe 3(Wel21)	485/1314	Dolinnoe...	0
Dolinnoe 5(Wel22)	668/9576	Dolinnoe...	0
Dolinnoe 6(Wel23)	350/1537	Dolinnoe...	0
Dolinnoe 6ST1(Wel24)	53/274	Dolinnoe...	0
Dolinnoe 7(Wel25)	239/1319	Dolinnoe...	0
Wel26)	747/973	Dolinnoe...	0
77)	191/1071	Emir 1	-3582
28)	415/1536	Emir 2	-3155
29)	294/655	Emir 5	0
Wel3)	165/581	Aksaz 106	-4348
Emir 6(Wel30)	273/1319	Emir 6	-3208
Karman 1(Wel31)	914/2789	Karman 1	0
Karman 10(Wel32)	194/1216	Karman...	0
Karman 11(Wel33)	459/1413	Karman...	0
Karman 113(Wel34)	651/1207	Karman...	0
Karman 114(Wel35)	318/822	Karman...	0
Karman 116(Wel36)	334/795	Karman...	-3633
Karman 117(Wel37)	359/716	Karman...	0
Karman 117ST(Wel38)	194/477	Karman...	0
Karman 118(Wel39)	436/929	Karman...	-3684
Aksaz 2(Wel4)	412/894	Aksaz 2	-4285
Karman 119(Wel40)	281/974	Karman...	-3629
Karman 120(Wel41)	1799	Karman...	0
Karman 12(Wel42)	851/1300	Karman...	-3735
Karman 120(Wel43)	328/747	Karman...	0
Karman 121(Wel44)	973/1537	Karman...	0
Karman 123(Wel45)	1042/14...	Karman...	0
Karman 124(Wel46)	853/1276	Karman...	0
Karman 13(Wel47)	256/594	Karman...	0
Karman 1ST1(Wel48)	11/62	Karman...	0
Karman 1ST2(Wel49)	118/357	Karman...	0
Aksaz 2ST1(Wel50)	7/22	Aksaz 2...	0
Karman 2(Wel51)	852/2010	Karman 2	-3621
Karman 3(Wel51)	572/2175	Karman 3	0
Karman 3ST(Wel52)	220/627	Karman...	0
Karman 3ST2(Wel53)	203/521	Karman...	0
Karman 4(Wel54)	519/2252	Karman 4	0
Karman 5(Wel55)	329/803	Karman 5	0
Karman 6(Wel56)	321/1641	Karman 6	0
Karman 6ST1(Wel57)	9/59	Karman...	0
Karman 6ST2(Wel58)	6/21	Karman...	-3636
Karman 6ST3(Wel59)	117/350	Karman...	0
Aksaz 2ST2(Wel60)	99/219	Aksaz 2...	0
Karman 7(Wel60)	222/1531	Karman 7	0
Karman 8(Wel61)	525/2196	Karman 8	0
North Karman 1(Wel62)	507/1960	North Ka...	0

Doc search complete Current Map Zoom Level: 48.198

Mouse cursor points: 51.127, 43.647

See Where its is on the File Folder System

# Catalogue Delivered via a Web Browser

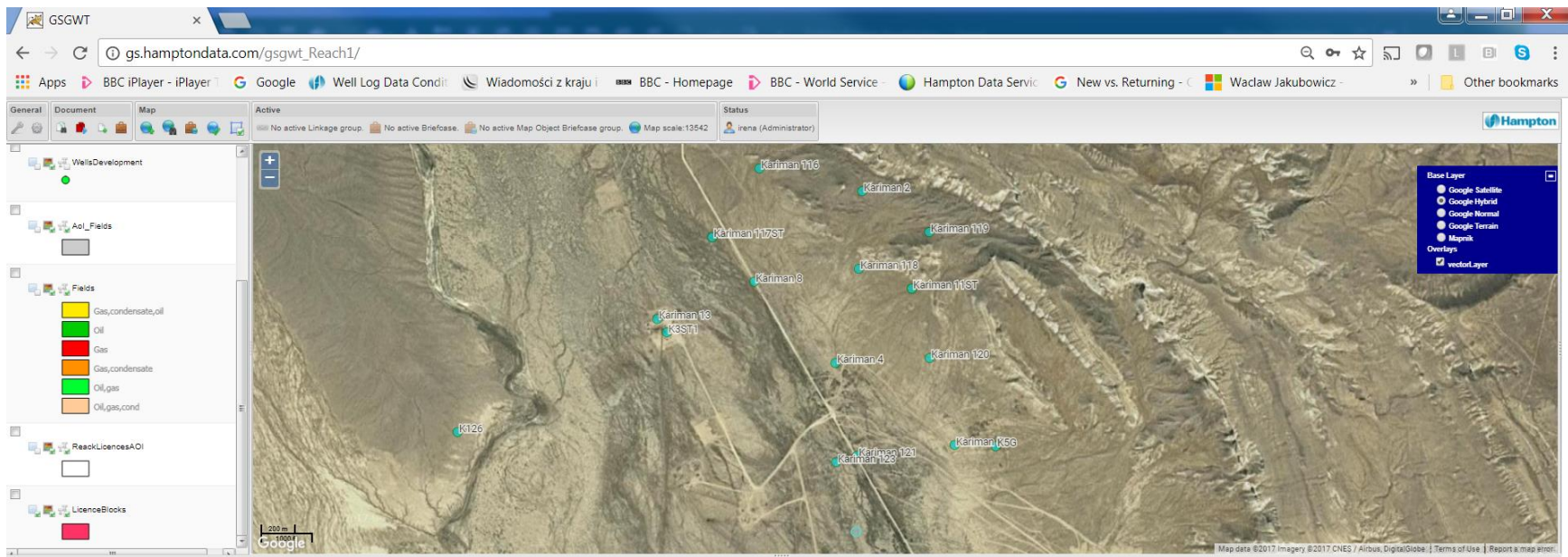
The screenshot displays the GSGWT web application interface. The top section shows a browser window with the URL `gs.hamptondata.com/gsgwt_Reach1/`. Below the browser, the application has a sidebar with a file tree showing folders like `WellsDevelopment`, `Aoi_Fields`, `Fields`, `ReachLicencesAOI`, and `LicenceBlocks`. The main map area shows a satellite view of a coastal region with numerous green circular markers representing wells. A legend on the right lists map layers: Google Satellite, Google Hybrid, Google Normal, Google Terrain, Mapnik, and `vector_layer`. Below the map, there is a 'Documents' panel with a table of data.

Label	Size	Total Size	Docs	Total Docs	Category/iconID
ROOT	0	0.00B	0	121587	0
LAN_Folders	0	50.78GB	0	48938	1
2016ReachEnergy	8.46MB	2.63GB	30	1687	7
Raw_in_Client	0	2.69GB	0	1563	7
Reach-Kaz	23.41MB	32.73MB	26	36	7
HDS Workspace	11.06MB	11.06MB	38	38	6
r	299.00B	300.92GB	1	46030	3
Datum-MIE	410.20...	7.23GB	4	8508	7
HDS_OVERLONG_EXTR	0	1.30GB	0	835	7
ftp	0	261.14GB	0	22528	7
17_05_17 Aonghus ...	0	927.93MB	0	565	7
DUMAN	181.77...	19.47GB	6	7395	7
170516	0	11.17GB	0	968	7
170517	0	14.48GB	0	561	7
DUMAN_1	0	16.05GB	0	6365	7
Emir-Oil LLP	189.79...	189.79KB	1	1	6
050717	73.15KB	73.15KB	2	2	6
210717	88.85MB	88.85MB	4	4	6
Aonghus Upload	11.87GB	11.87GB	3	3	6
Bahram	0	8.89GB	0	330	7
BGP	16.44MB	130.15GB	1	1655	7

Well_Name	Field	DD_Alias1	DD_Alias2	Object Name	DD_Alias4	Docs	Object	Layer	TotalD...	Uniq
North Kariman 2	North Karl...	See Kariman_Kar.Kap.K.2	NK 2	North Kariman 2	"N.North Kariman 2","Kariman N.North 2"	527/932	Well4	Wells_170518v1	0	
North Kariman 1ST	North Karl...	See Kariman_Kar.Kap.K.1-ST	NK 1-ST.STK.SIDE*	North Kariman 1ST	"N.North Kariman 1-ST.STK.SIDE*","Kariman N.North 1..."	226/501	Well3	Wells_170518v1	0	
North Kariman 1	North Karl...	See Kariman_Kar.Kap.K.1-ST	NK 1-ST.STK.SIDE*	North Kariman 1	"N.North Kariman 1-ST.STK.SIDE*","Kariman N.North 1..."	697/1369	Well2	Wells_170518v1	0	
Kariman 8	Kariman	Kariman_Kar.Kap.K.8	K.8	Kariman 8	Kariman 8	525/2166	Well1	Wells_170518v1	0	
Kariman 7	Kariman	Kariman_Kar.Kap.K.7	K.7	Kariman 7	Kariman 7	322/1531	Well0	Wells_170518v1	0	
Kariman 6ST3	Kariman	Kariman_Kar.Kap.K.6-ST 3	K.6-ST.STK.SIDE* 3	Kariman 6ST3	Kariman 6-ST.STK.SIDE* 3	117/350	Well5	Wells_170518v1	0	
Kariman 6ST2	Kariman	Kariman_Kar.Kap.K.6-ST 2	K.6-ST.STK.SIDE* 2	Kariman 6ST2	Kariman 6-ST.STK.SIDE* 2	6/21	Well6	Wells_170518v1	-3936	
Kariman 6ST1	Kariman	Kariman_Kar.Kap.K.6-ST 1	K.6-ST.STK.SIDE* 1	Kariman 6ST1	Kariman 6-ST.STK.SIDE* 1	9/59	Well7	Wells_170518v1	0	
Kariman 6	Kariman	Kariman_Kar.Kap.K.6-ST	K.6-ST.STK.SIDE*	Kariman 6	Kariman 6-ST.STK.SIDE*	321/1841	Well8	Wells_170518v1	0	
K5G	Kariman	Kariman_Kar.Kap.K.5-G	K.5-G	K5G	Kariman 5-G	3/3	Well9	Wells_170518v1	-99999	
Kariman 5	Kariman	Kariman_Kar.Kap.K.5	K.5	Kariman 5	Kariman 5	329/803	Well5	Wells_170518v1	0	
Kariman 4	Kariman	Kariman_Kar.Kap.K.4	K.4	Kariman 4	Kariman 4	519/2252	Well4	Wells_170518v1	0	
Kariman 3ST2	Kariman	Kariman_Kar.Kap.K.3-ST 2	K.3-ST.STK.SIDE* 2	Kariman 3ST2	Kariman 3-ST.STK.SIDE* 2	203/521	Well3	Wells_170518v1	0	
K3ST1	Kariman	Kariman_Kar.Kap.K.3-ST 1	K.3-ST.STK.SIDE* 1	K3ST1	Kariman 3-ST.STK.SIDE* 1	8/54	Well0	Wells_170518v1	0	
Kariman 3ST	Kariman	Kariman_Kar.Kap.K.3-ST	K.3-ST.STK.SIDE*	Kariman 3ST	Kariman 3-ST.STK.SIDE*	220/827	Well2	Wells_170518v1	0	
Kariman 3	Kariman	Kariman_Kar.Kap.K.3-ST-2	K.3-ST.STK.SIDE*	Kariman 3	Kariman 3-ST.STK.SIDE*	572/2175	Well1	Wells_170518v1	0	
Kariman 2	Kariman	Kariman_Kar.Kap.K.2	K.2	Kariman 2	Kariman 2	862/2010	Well0	Wells_170518v1	-3921	
K16	Kariman	Kariman_Kar.Kap.K.16	K.16	K16	Kariman 16	21/24	Well78	Wells_170518v1	-99999	





Label	Size	Total Size	Docs	Total Docs	Category/iconID
ROOT	0	0.00B	0	121587	0
LAN_Folders	0	50.78GB	0	48938	1
2015ReachEnergy	8.45MB	2.63GB	30	1687	3
Raw_in_Client	0	2.56GB	0	1683	7
Reach-Kaz	23.41MB	32.73MB	26	36	7
HDS Workspace	11.06MB	11.06MB	38	38	9
r	269.00B	300.92GB	1	46030	3
Datum-MIE	410.20...	7.23GB	4	8508	7
HDS_OVERLONG_EXTR	0	1.30GB	0	835	7
fp	0	261.14GB	0	22528	7
17_05_17 Aonghus ...	0	927.93MB	0	595	7
DUMAN	181.77...	19.47GB	6	7305	7
170516	0	11.17GB	0	968	7
170517	0	14.49GB	0	561	7
DUMAN_1	0	16.05GB	0	6365	7
Emir-Oil LLP	189.79...	189.79KB	1	1	9
050717	73.15KB	73.15KB	2	2	9
210717	88.85MB	88.85MB	4	4	9
Aonghus Upload	11.87GB	11.87GB	3	3	9
Bahram	0	8.89GB	0	330	7
BGP	16.44MB	130.15GB	1	1055	7

Well_Name	Field	DD_Alloc1	DD_Alloc2	Object Name	DD_Alloc4	Docs	Object	Layer	TotalD...	Uniq...
North Kariman 2	North Kar...	See Kariman_Kap.K.2	NK 2	North Kariman 2	"N.North Kariman 2","Kariman N,North 2"	527/932	Well64	Wells_170516v1	0	
North Kariman 1ST	North Kar...	See Kariman_Kap.K.1 ST	NK 1 ST,STK,SIDE*	North Kariman 1ST	"N.North Kariman 1 ST,STK,SIDE","Kariman N,North 1 ...	226/501	Well63	Wells_170516v1	0	
North Kariman 1	North Kar...	See Kariman_Kap.K.1 -ST	NK 1 -ST,STK,SIDE*	North Kariman 1	"N.North Kariman 1 -ST,STK,SIDE","Kariman N,North 1 ...	667/1369	Well62	Wells_170516v1	0	
Kariman 8	Kariman	Кариман.Карп.Кар.К.8	K 8	Kariman 8	Kariman 8	525/2195	Well61	Wells_170516v1	0	
Kariman 7	Kariman	Кариман.Карп.Кар.К.7	K 7	Kariman 7	Kariman 7	322/1531	Well60	Wells_170516v1	0	
Kariman 6ST3	Kariman	Кариман.Карп.Кар.К.6 ST 3	K 6 ST,STK,SIDE* 3	Kariman 6ST3	Kariman 6 ST,STK,SIDE* 3	117/350	Well59	Wells_170516v1	0	
Kariman 6ST2	Kariman	Кариман.Карп.Кар.К.6 ST 2	K 6 ST,STK,SIDE* 2	Kariman 6ST2	Kariman 6 ST,STK,SIDE* 2	6/21	Well58	Wells_170516v1	-3536	
Kariman 6ST1	Kariman	Кариман.Карп.Кар.К.6 ST 1	K 6 ST,STK,SIDE* 1	Kariman 6ST1	Kariman 6 ST,STK,SIDE* 1	9/59	Well57	Wells_170516v1	0	
Kariman 6	Kariman	Кариман.Карп.Кар.К.6 -ST	K 6 -ST,STK,SIDE*	Kariman 6	Kariman 6 -ST,STK,SIDE*	321/1541	Well56	Wells_170516v1	0	
K5G	Kariman	Кариман.Карп.Кар.К.5 G	K 5 G	K5G	Kariman 5 G	3/3	Well76	Wells_170516v1	-99999	
Kariman 5	Kariman	Кариман.Карп.Кар.К.5	K 5	Kariman 5	Kariman 5	328/803	Well55	Wells_170516v1	0	
Kariman 4	Kariman	Кариман.Карп.Кар.К.4	K 4	Kariman 4	Kariman 4	519/2252	Well54	Wells_170516v1	0	
Kariman 3ST2	Kariman	Кариман.Карп.Кар.К.3 ST 2	K 3 ST,STK,SIDE* 2	Kariman 3ST2	Kariman 3 ST,STK,SIDE* 2	203/421	Well53	Wells_170516v1	0	
K3ST1	Kariman	Кариман.Карп.Кар.К.3 ST 1	K 3 ST,STK,SIDE* 1	K3ST1	Kariman 3 ST,STK,SIDE* 1	8/54	Well70	Wells_170516v1	0	
Kariman 3ST	Kariman	Кариман.Карп.Кар.К.3 ST	K 3 ST,STK,SIDE*	Kariman 3ST	Kariman 3 ST,STK,SIDE*	220/427	Well52	Wells_170516v1	0	
Kariman 3	Kariman	Кариман.Карп.Кар.К.3 -ST-2	K 3 -ST,STK,SIDE*	Kariman 3	Kariman 3 -ST,STK,SIDE*	572/2175	Well51	Wells_170516v1	0	
Kariman 2	Kariman	Кариман.Карп.Кар.К.2	K 2	Kariman 2	Kariman 2	852/2010	Well50	Wells_170516v1	-3621	
K16	Kariman	Кариман.Карп.Кар.К.16	K 16	K16	Kariman 16	21/24	Well78	Wells_170516v1	-99999	





## Example 2 – UK Oil and Gas



- ▶ UK Registered E&P Co
- ▶ Drilling a few wells onshore UK – for unconventional
- ▶ Unconventionals generate significantly more data than conventional exploration and that tracking it and organising so you can cross-reference and display anything is a major step-change in data handling

Has a “Mobile Management” – who want to “work & access data – on the move”

Require secure data access to consultants for evaluation, subsurface modelling

Currently drilling and testing well in Southern UK.

# Well Data generated before even reaching TD : 37Gb and 281 files – with much duplication

Geoscope - UKOGL

File Search View Tools Help

Categories

☐ XRef ☒ Sub-cats ☐ Docs ☐ Dups

Search:

Documents (0+20289)

LAN\_Folders (0+302)

LAS\_out (21): 387.64MB

RIC (0+281): 0+36.79GB

170918 UKOG KOGI Data (22+259): 10.32MB+36.78GB

CBL (6+5): 3.04MB+85.98MB

GR-CBL-VOL (0+5): 0+85.98MB

Client BB 8.8 in corrected (0+29): 0+3.44GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+13): 0+300.98MB

Digital (0+9): 0+289.08MB

Graphical (4): 11.90MB

R2\_2\_BB-1\_FMI-HRLT (0+16): 0+3.15GB

Digital (0+13): 0+2.87GB

Graphical (3): 265.73MB

CLIENT\_BB-1\_8.5in (0+29): 0+2.04GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+20): 0+435.85MB

Digital (0+13): 0+414.90MB

Graphical (7): 20.95MB

R2\_2\_BB-1\_FMI-HRLT (0+9): 0+1.62GB

Digital (0+7): 0+1.44GB

DLIS (4): 1.44GB

LAS (3): 2.31MB

Graphical (2): 176.61MB

CLIENT\_BB-1\_8.5in 13 & 14th July 2017 (0+29): 0+2.04GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+20): 0+435.85MB

R2\_2\_BB-1\_FMI-HRLT (0+9): 0+1.62GB

CLIENT\_BB-1\_8.5in with speed corrected FMI 15 Jul 17 (0+29): 0+3.44GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+13): 0+300.98MB

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LAS (5): 22.36MB

Graphical (4): 11.90MB

R2\_2\_BB-1\_FMI-HRLT (0+16): 0+3.15GB

MWD (27+41): 2.06MB+2.80MB

12.25 (14): 604.06KB

12.25 final LAS logs (4): 988.84KB

17.5 (3): 67.65KB

8.5 A (20): 1.17MB

PEX LAS (2): 4.58MB

RE\_UKOG\_KOGL Broadford Bridge 12 - Target gamma (3): 1.26MB

Run 1 (3): 1.67MB

Run 2\_3 170714 Sonic Data MAST HGNS 2620 - 3570 (3): 549.89MB

Target Sidetrack (3): 1.26MB

Weatherford Logs bb12 (4+46): 2.20MB+25.17GB

Weatherford download 170811 (1): 2.33MB

Weatherford download 170812 B Open hole logs (16+16): 11.31GB+6.63GB

BB 1 ST-1 (JOB0000415793)\_EXTR (14+1): 6.02GB+315.71MB

BB 1 ST-1\_CXD-Semblance dlis\_EXTR (1): 315.71MB

BB 1 ST-1\_CXD-Semblance dlis\_EXTR (1): 315.71MB

Weatherford download 170816 speed corrected cml (3+2): 1.97GB+1.19GB

BB 1 ST-1 (JOB0000415793)\_EXTR (2): 1.19GB

Weatherford Download 170816 Speed correcte image log dlis (1): 466.86MB

Weatherford BB1 (7): 3.61GB

Documents

Map Objects

Active Search

Marks

LAN\_Files

Filters: ☐ Unique ☒ Cats ☐ Map ☐ Search ☐ Linked Docs ☐ Briefcase ☐ Similarity ☐ Workflow

<< Docs: 1-281/281 >>

Name	Links	Filename	File Size	Type	Date Added	File Type	Category	Links: HDS
170909 BBr 1 dlis files.csv	0/0	... KOGI Data\170909 BBr 1 dlis files.csv	11.32KB	csv	...	Documentation		
BB-1 MD-FI 7 15 2017.pdf	0/0	... OGL Data\BB-1 MD-FI 7 15 2017.pdf	1.54MB	pdf	...	Analog MD		
UKOG BB-1 FMI R2.2 Main(3528-5708M)(SpeedCorrected) 14Jul17.dlis	2/2	... 8-5708M)(SpeedCorrected) 14Jul17.dlis	437.79MB	dlis	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 Main(3528-5708M) 14Jul17.dlis	4/4	... I R2.2 Main(3528-5708M) 14Jul17.dlis	439.11MB	dlis	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 MainComposite(SpeedCorrected) 14Jul17.dlis	2/2	... composite(SpeedCorrected) 14Jul17.dlis	677.11MB	dlis	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 MainComposite 14Jul17.dlis	4/4	... FMI R2.2 MainComposite 14Jul17.dlis	622.91MB	dlis	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 Repeat(SpeedCorrected) 14Jul17.dlis	2/2	... Repeat(SpeedCorrected) 14Jul17.dlis	40.20MB	dlis	...	Digital, corrected FMI, HRLT, R		
UKOG BB-1 FMI R2.2 Repeat 14Jul17.dlis	4/4	... G BB-1 FMI R2.2 Repeat 14Jul17.dlis	82.83MB	dlis	...	Digital, corrected FMI, HRLT, R		
UKOG BB-1 FMI R2.2 Main(2730-4250M)(SpeedCorrected) 14Jul17.las	4/4	... 0-4250M)(SpeedCorrected) 14Jul17.las	875.50KB	las	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 Main(2730-4250M) 14Jul17.las	4/4	... I R2.2 Main(2730-4250M) 14Jul17.las	992.69KB	las	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 Main(3528-5708M)(SpeedCorrected) 14Jul17.las	2/2	... 8-5708M)(SpeedCorrected) 14Jul17.las	1.22MB	las	...	Digital, corrected FMI, HRLT, M		
UKOG BB-1 FMI R2.2 Main(3528-5708M) 14Jul17.las	4/4	... I R2.2 Main(3528-5708M) 14Jul17.las	1.27MB	las	...	Digital, corrected FMI, HRLT, M		
BB-1 R1.1 CALIPER.las	2/45	... G KOGI Data\BB-1 R1.1 CALIPER.las	103.08KB	las	...	Digital, Caliper		
UKOG BB-1 FMI R2.2 Repeat(SpeedCorrected) 14Jul17.las	4/4	... 2 Repeat(SpeedCorrected) 14Jul17.las	875.50KB	las	...	Digital, corrected FMI, HRLT, R		
UKOG BB-1 8.5in FMI(SpeedCorrected) 14Jul17.Pdf	2/2	... 8.5in FMI(SpeedCorrected) 14Jul17.Pdf	109.99MB	Pdf	...	Analog, corrected FMI, HRLT, M		
UKOG BB-1 8.5in FMI 14Jul17.pdf	4/4	... icalUKOG BB-1 8.5in FMI 14Jul17.pdf	173.65MB	pdf	...	Analog, corrected FMI, HRLT, M		
UKOG BB-1 8.5in HRLT 14Jul17.Pdf	2/2	... UKOG BB-1 8.5in HRLT 14Jul17.Pdf	2.09MB	Pdf	...	Analog, corrected FMI, HRLT, M		
UKOG BB-1 NEXT-HNGS R2.1 Main 13Jul17.dlis	6/6	... -1 NEXT-HNGS R2.1 Main 13Jul17.dlis	98.94MB	dlis	...	Digital HNGS, Main, PEX		
UKOG BB-1 NEXT-HNGS R2.1 Repeat 13Jul17.dlis	6/6	... XT-HNGS R2.1 Repeat 13Jul17.dlis	9.45MB	dlis	...	Digital, HNGS, PEX, Repeat		
UKOG BB-1 NEXT-PEX-HNGS R2.1 Main 13Jul17.dlis	6/6	... XT-PEX-HNGS R2.1 Main 13Jul17.dlis	98.94MB	dlis	...	Digital, HNGS, Main, PEX		
UKOG BB-1 NEXT-PEX-HNGS R2.1 Repeat 13Jul17.dlis	6/6	... T-PEX-HNGS R2.1 Repeat 13Jul17.dlis	9.45MB	dlis	...	Digital, HNGS, PEX, Repeat		
UKOG BB-1 PEX R2.1 Main 13Jul17.dlis	4/4	... OG BB-1 PEX R2.1 Main 13Jul17.dlis	151.59MB	dlis	...	Digital, HNGS, Main, PEX		
UKOG BB-1 PEX R2.1 Repeat 13Jul17.dlis	4/4	... BB-1 PEX R2.1 Repeat 13Jul17.dlis	6.74MB	dlis	...	Digital, HNGS, PEX, Repeat		
BB-1 R1.1 PEX-HRLT-CAL Scale200.Pdf	2/2	... R1.1 PEX-HRLT-CAL Scale200.Pdf	945.75KB	Pdf	...	Analog, CAL, HRLT, PEX		
UKOG BB-1 Caliper R2.1 Main 13Jul17.las	4/4	... B-1 Caliper R2.1 Main 13Jul17.las	361.97KB	las	...	Digital, CAL, HNGS, Main, PE		
UKOG BB-1 NEXT-HNGS R2.1 Main 13Jul17.las	6/6	... -1 NEXT-HNGS R2.1 Main 13Jul17.las	15.85MB	las	...	Digital, HNGS, Main, PEX		
UKOG BB-1 NEXT-HNGS R2.1 Repeat 13Jul17.las	6/6	... NEXT-HNGS R2.1 Repeat 13Jul17.las	1.58MB	las	...	Digital, HNGS, PEX, Repeat		
UKOG BB-1 NEXT-PEX-HNGS R2.1 Main 13Jul17.las	6/6	... EXT-PEX-HNGS R2.1 Main 13Jul17.las	15.85MB	las	...	Digital, HNGS, Main, PEX		
UKOG BB-1 NEXT-PEX-HNGS R2.1 Repeat 13Jul17.las	6/6	... T-PEX-HNGS R2.1 Repeat 13Jul17.las	1.58MB	las	...	Digital, HNGS, PEX, Repeat		
UKOG BB-1 PEX R2.1 Main 13Jul17.las	5/5	... OG BB-1 PEX R2.1 Main 13Jul17.las	4.38MB	las	...	Digital, HNGS, Main, PEX		
UKOG BB-1 PEX R2.1 Repeat 13Jul17.las	5/5	... G BB-1 PEX R2.1 Repeat 13Jul17.las	207.34KB	las	...	Digital, HNGS, PEX, Repeat		
UKOG BB-1 8.5in Caliper 13Jul17.Pdf	6/6	... UKOG BB-1 8.5in Caliper 13Jul17.Pdf	989.55KB	Pdf	...	Analog, Caliper, HNGS, PEX		
UKOG BB-1 8.5in Lithoscanner 13Jul17.Pdf	6/6	... BB-1 8.5in Lithoscanner 13Jul17.Pdf	5.14MB	Pdf	...	Analog, HNGS, PEX		
UKOG BB-1 8.5in PEX 14Jul17.Pdf	4/4	... calUKOG BB-1 8.5in PEX 14Jul17.Pdf	2.85MB	Pdf	...	Analog, HNGS, PEX		
BB-1 R1.1 PEX-SONIC-HRLA-CAL.las	2/70	... aBB-1 R1.1 PEX-SONIC-HRLA-CAL.las	658.65KB	las	...	Digital, CAL, HRLA, PEX, Sonic		
UKOG BB-1 8.5in SpectralGamma 13Jul17.pdf	4/4	... B-1 8.5in SpectralGamma 13Jul17.pdf	2.95MB	pdf	...	Analog, HNGS, PEX		
UKOG BB-1 Caliper 13Jul17.Pdf	6/6	... phicalUKOG BB-1 Caliper 13Jul17.Pdf	989.55KB	Pdf	...	Analog, Caliper, HNGS, PEX		
UKOG BB-1 Lithoscanner 13Jul17.Pdf	6/6	... UKOG BB-1 Lithoscanner 13Jul17.Pdf	5.14MB	Pdf	...	Analog, HNGS, PEX		
UKOG BB-1 SpectralGamma 13Jul17.Pdf	2/2	... OG BB-1 SpectralGamma 13Jul17.Pdf	2.94MB	Pdf	...	Analog, HNGS, PEX		
UKOG BB-1 FMI R2.2 Main(2730-4250M) 14Jul17.dlis	4/4	... I R2.2 Main(2730-4250M) 14Jul17.dlis	330.05MB	dlis	...	Digital, FMI, HRLT, Main		
UKOG BB-1 FMI R2.2 Main(3528-5708M) 14Jul17.dlis	4/4	... I R2.2 Main(3528-5708M) 14Jul17.dlis	439.11MB	dlis	...	Digital, FMI, HRLT, Main		
UKOG BB-1 FMI R2.2 MainComposite 14Jul17.dlis	4/4	... FMI R2.2 MainComposite 14Jul17.dlis	622.91MB	dlis	...	Digital, FMI, HRLT		
UKOG BB-1 FMI R2.2 Repeat 14Jul17.dlis	4/4	... G BB-1 FMI R2.2 Repeat 14Jul17.dlis	82.83MB	dlis	...	Digital, FMI, HRLT, Repeat		
UKOG BB-1 FMI R2.2 Main(2730-4250M) 14Jul17.las	4/4	... I R2.2 Main(2730-4250M) 14Jul17.las	992.69KB	las	...	Digital, FMI, HRLT, Main		
UKOG BB-1 FMI R2.2 Main(3528-5708M) 14Jul17.las	4/4	... I R2.2 Main(3528-5708M) 14Jul17.las	1.27MB	las	...	Digital, FMI, HRLT, Main		
BB1VB81z GR tvd.pdf	0/0	... KOG KOGI Data\BB1VB81z GR tvd.pdf	164.87KB	pdf	...	Analog, GR, TVD		
UKOG BB-1 FMI R2.2 Repeat 14Jul17.las	2/2	... G BB-1 FMI R2.2 Repeat 14Jul17.las	65.65KB	las	...	Digital, FMI, HRLT, Repeat		
UKOG BB-1 8.5in FMI 14Jul17.pdf	4/4	... icalUKOG BB-1 8.5in FMI 14Jul17.pdf	173.65MB	pdf	...	Analog, FMI, HRLT		
UKOG BB-1 8.5in HRLT 14Jul17.pdf	2/2	... UKOG BB-1 8.5in HRLT 14Jul17.pdf	2.96MB	pdf	...	Analog, FMI, HRLT		
BB1 MEM MD TVD GR 1906.0ft.las	0/27	... sBB1 MEM MD TVD GR 1906.0ft.las	66.72KB	las	...	Digital, GR, MD, MEM, MWD, TV		
BB1 MEM MD TVD GR 2676.0ft.las	0/27	... sBB1 MEM MD TVD GR 2676.0ft.las	49.32KB	las	...	Digital, GR, MD, MEM, MWD, TV		
BB1 RT GR MD 2676.0ft.pdf	0/0	... LAS logs\BB1 RT GR MD 2676.0ft.pdf	442.44KB	pdf	...	Analog, GR, MD, MWD		
BB1 RT GR TVD 2676.0ft.pdf	0/0	... AS logs\BB1 RT GR TVD 2676.0ft.pdf	430.36KB	pdf	...	Analog, GR, MWD, TVD		
BB1 RT GR MD 1085.0.las	0/26	... VD\12.25\BB1 RT GR MD 1085.0.las	12.85KB	las	...	Digital, GR, MD, MWD		
BB1 RT GR MD 1335.5.las	0/26	... VD\12.25\BB1 RT GR MD 1335.5.las	23.01KB	las	...	Digital, GR, MD, MWD		
BB1 RT GR MD 1458.5.las	0/26	... VD\12.25\BB1 RT GR MD 1458.5.las	27.94KB	las	...	Digital, GR, MD, MWD		
Caliper.xlsx	0/0	... 170918 UKOG KOGI Data\Caliper.xlsx	76.9KB	xlsx	...	Digital, Caliper		
BB1 RT GR MD 1520.5.las	0/26	... VD\12.25\BB1 RT GR MD 1520.5.las	30.48KB	las	...	Digital, GR, MD, MWD		
BB1 RT GR MD 997.5.las	0/26	... MWD\12.25\BB1 RT GR MD 997.5.las	0.27KB	las	...	Digital, GR, MD, MWD		

Doc search complete

Current Map Zoom Level: 1.236

Mouse cursor points: 710.784, 6,666.667

# Auto De-duplicate - only 179 files now !

Geoscope - UKOGL

File Search View Tools Help

Categories: ☐ XRef ☒ Sub-cats ☐ Docs ☐ Dups

Search:

Documents (0+20289)

LAN\_Folders (0+302)

LAS\_out (21): 387.64MB

RIC (0+281): 0+36.79GB

170918 UKOG KOGI Data (22+259): 10.32MB+36.78GB

CBL (6+5): 3.04MB+85.98MB

GR-CBL-VDL (0+5): 0+85.98MB

Client BB 8.8 in corrected (0+29): 0+3.44GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+13): 0+300.98MB

Digital (0+9): 0+289.08MB

Graphical (4): 11.90MB

R2\_2\_BB-1\_FMI-HRLT (0+16): 0+3.15GB

Digital (0+13): 0+2.87GB

Graphical (3): 285.73MB

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Digital (0+13): 0+414.90MB

Graphical (7): 20.95MB

R2\_2\_BB-1\_FMI-HRLT (0+9): 0+1.62GB

Digital (0+7): 0+1.44GB

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LAS (3): 2.31MB

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R2\_2\_BB-1\_FMI-HRLT (0+9): 0+1.62GB

CLIENT\_BB-1\_8.5in with speed corrected FMI 15 Jul 17 (0+29): 0+3.44GB

R2\_1\_BB-1\_NEXT-PEX-HNGS (0+13): 0+300.98MB

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LAS (5): 22.36MB

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MWD (27+41): 2.06MB+2.80MB

12.25 (14): 604.06KB

12.25 final LAS logs (4): 988.84KB

17.5 (3): 67.65KB

8.5 A (20): 1.17MB

PEX LAS (2): 4.58MB

RE\_UKOG\_KOGL Broadford Bridge 1z - Target gamma (3): 1.26MB

Run 1 (3): 1.67MB

Run 2\_3 170714 Sonic Data MAST HGNS 2620 - 3570 (3): 549.69MB

Target Sideltrack (3): 1.26MB

Weatherford Logs bb12 (4+46): 2.20MB+25.17GB

Weatherford download 170812 B Open hole logs (16+16): 11.31GB+6.63GB

BB 1 ST-1 (JOB0000415793)\_EXTR (14+1): 6.02GB+315.71MB

BB 1 ST-1\_CXD-Semblance.dlis\_EXTR (1): 315.71MB

BB 1 ST-1\_CXD-Semblance.dlis\_EXTR (2): 315.71MB

Weatherford download 170812 speed corrected cmi (3+2): 1.97GB+1.19GB

BB 1 ST-1 (JOB0000415793)\_EXTR (2): 1.19GB

Weatherford Download 170816 Speed correctde image log dls (1): 466.86MB

Weatherford BB1 (7): 3.61GB

Documents Map Objects Active Search Marks

LAN\_Files Filters: ☒ Unique ☒ Cats ☐ Map ☐ Search ☐ Linked Docs ☐ Briefcase ☐ Similarity ☐ Workflow Docs: 1-159/159

Name	Links	Filename	FileSize	Type	Date Added	File Type	CategoryLinks: HDS
BB1 RT MD TVD GR 3517.5.las	0/27	...ataMWD\8.5 A\BB1 RT MD TVD GR 3517.5.las	55.33KB	las		las	Digital,GR,MD,MWD,TVD
BB1 RT MD TVD GR 3570.las	0/28	...ataMWD\8.5 A\BB1 RT MD TVD GR 3570.las	75.70KB	las		las	Digital,GR,MD,MWD,TVD
BB1 RT MD TVD GR 5804.0.las	0/27	...GL Data\MWD\BB1 RT MD TVD GR 5804.0.las	67.16KB	las		las	Digital,GR,MD,MWD,TVD
Weatherford Schlumberger Target Logging Summary 24...	0/0	...rger Target Logging Summary 24AUG2017.xlsx	27.79KB	xlsx		xlsx	Documentation,Weatherford
BB 1 ST-1 (JOB0000415793).zip	0/0	...ed corrected cmi\BB 1 ST-1 (JOB0000415793).zip	799.73MB	zip		zip	Working Files
KOGL BB1 9AUG2017 borehole geometry FIELD.pdf	3/3	...BB 1 9AUG2017 borehole geometry FIELD.pdf	5.60MB	pdf		pdf	Analog,Field,Weatherford
BB 1 ST-1 CXD-Semblance 500-200.pdf	2/2	...ole logs\BB 1 ST-1 CXD-Semblance 500-200.pdf	77.67MB	pdf		pdf	Analog,CXD,Weatherford
BB-1 3.1 GR-CBL-VDL Repeat Pass.las	0/54	...at Pass\BB-1 3.1 GR-CBL-VDL Repeat Pass.las	91.53KB	las		las	Digital,GR,Repeat
UKOG BB-1 8.5in FMI 14Jul17.pdf	4/4	...LT\Graphical\UKOG BB-1 8.5in FMI 14Jul17.pdf	173.65MB	pdf		pdf	Analog,corrected,FMI,HRLT
BB1 RT MD TVD GR 2042.5.las	0/27	...ataMWD\12.25\BB1 RT MD TVD GR 2042.5.las	13.27KB	las		las	Digital,GR,MD,MWD,TVD
BB1 MEM MD TVD GR 2676.0ft.las	0/27	...al LAS logs\BB1 MEM MD TVD GR 2676.0ft.las	49.32KB	las		las	Digital,GR,MD,MWD,TVD
UKOG BB-1 8.5in Lithoscanner 13Jul17.Pdf	6/6	...ical\UKOG BB-1 8.5in Lithoscanner 13Jul17.Pdf	5.14MB	Pdf		Pdf	Analog,HNGS,PEX
UKOG BB-1 PEX R2.1 Main 13Jul17.dlis	4/4	...DLIS\UKOG BB-1 PEX R2.1 Main 13Jul17.dlis	151.59MB	dlis		dlis	Digital,HNGS,Main,PEX
KOGL BB1 9AUG2017 CROSS DIPOLE SONIC RAW.dlis	0/0	...B 1 9AUG2017 CROSS DIPOLE SONIC RAW.dlis	3.25KB	dlis		dlis	Digital,RAW,Sonic,Weatherford
BB1 RT MD TVD GR 5317.las	0/27	...OGL Data\MWD\BB1 RT MD TVD GR 5317.las	37.24KB	las		las	Digital,GR,MD,MWD,TVD
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BB1 Core 5 Gamma - 27.06.2017.xls	0/0	...G KOGI Data\Schlum TD logging Summary.pdf	243.73KB	pdf		pdf	Documentation,Schlum,TD
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# After machine processing > metadata extraction > auto classification

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Name	Links	Filename	FileSize	Type	Date Added	File Type	Category
UKOGL BB1 9AUG2017 borehole geometry FIELD.pdf	3/3	... BB1 9AUG2017 borehole geometry FIELD.pdf	5.60MB	...	...	pdf	Ana
BB 1 ST-1 CXD-Semblance 500-200.pdf	2/2	...ole logs\BB 1 ST-1 CXD-Semblance 500-200.pdf	77.67MB	...	...	pdf	Ana
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170818 BBR 1z CBL test 2.pdf	0/0	...G KOG Data\CBL\170818 BBR 1z CBL test 2.pdf	241.20KB	...	...	pdf	Ana
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Name	Links	Filename	FileSize	Type	Date Added	File Type	Category
UKOGL BB1 9AUG2017 borehole geometry FIELD.pdf	3/3	BB1 9AUG2017 borehole geometry FIELD.pdf	5.60MB	pdf	...	pdf	Ana
BB 1 ST-1 CXD-Semblance 500-200.pdf	2/2	ole logs/BB 1 ST-1 CXD-Semblance 500-200.pdf	77.67MB	pdf	...	pdf	Ana
UKOGL BB-1 8.5in FMI 14Jul17.pdf	4/4	...LTI/Graphical/UKOGL BB-1 8.5in FMI 14Jul17.pdf	173.65MB	pdf	...	pdf	Ana
UKOGL BB-1 8.5in Lithoscanner 13Jul17.Pdf	6/6	...cal/UKOGL BB-1 8.5in Lithoscanner 13Jul17.Pdf	5.14MB	pdf	...	pdf	Ana
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Mouse cursor points: 2,009.804, 9,950.98

But originally the Log Plots were all over the place !  
In the **GREEN** highlighted LAN folders

# Data Delivery to Client > an xls via email: PURE METADATA !

Full Metadata -

FileHomeInsertPage LayoutFormulasDataReviewViewPDFTell me what you want to do

CutCopyPasteFormat PainterClipboardFontAlignmentNumberStylesCellsEditingSign and Encrypt

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Well	Data Type	TAGS	Filename	File T	File S	Unique Fil	DLIS to	LAS Crawl	Header	Curv	Head	HEAP	Head	Data	Data	DATA	DATA	Full date	Full SRVC	Curves Str List
11	BB-1	LOG_Digital	LOG_Digital.MD	BB-1_MD-FL_7_15_2017.las	las	2.94MB	selected_file	Completed	34	2700	5700	0.5	34	2700.0	5700.0	0.5	20170611TC	Schlumberger	Service Comp BH.CAL.CGR.D508.GR.K1.GR.X2.GR.K3.BHBK.H	
13	BB-1	LOG_Digital	LOG_Digital.Caliper	BB-1_R1_1_PEX.CALIPER.las	las	103.08KB	selected_file	Completed	4	830	1636.5	0.5	4	830.0	1636.5	0.5	06/11/2017	Schlumberger	SERVICE COM GR.CAL.TENS.CAL	
23	BB-1	LOG_Digital	LOG_Digital.CALHRLT.PEX.Sonic	BB-1_R1_1_PEX.SONIC.HRLT.CAL.las	las	658.65KB	selected_file	Completed	29	830	1636.5	0.5	29	830.0	1636.5	0.5	06/11/2017	Schlumberger	SERVICE COM DTSH.MFM.SP.DTCO.MFM.STT.SPHI.BS.GR.TEN	
24	BB-1	LOG_Digital	LOG_Digital.GR.Main	BB-1_3_1_GR.CBL.VDL_Main.Pass.las	las	1.27MB	selected_file	Completed	15	256	5640	0.5	15	256.0	5640.0	0.5	18/08/2017	Schlumberger	SERVICE COM DT.MIN.MUH.TT5F.AVE.MUH.G080.FDET.LEN	
25	BB-1	LOG_Digital	LOG_Digital.GR.Main	BB-1_3_1_GR.CBL.CDL_Main.Pass.las	dis	74.89MB	selected_file	Completed	132	5640	5640.25	0.25	132	5640.0	5640.25	0.25	18/08/2017	Schlumberger	SERVICE COM TDEP.ATTN7.LONG.DIS(D)ATTN7.SHORT.DIS(D)	
28	BB-1	LOG_Digital	LOG_Digital.GR.Repeat	BB-1_3_1_GR.CBL.VDL_Repeat.Pass.las	dis	4.91MB	selected_file	Completed	132	5640	5640.25	0.25	132	5640.0	5640.25	0.25	18/08/2017	Schlumberger	SERVICE COM TDEP.ATTN7.LONG.DIS(D)ATTN7.SHORT.DIS(D)	
28	BB-1	LOG_Digital	LOG_Digital.GR.Repeat	BB-1_3_1_GR.CBL.VDL_Repeat.Pass.las	las	91.53KB	selected_file	Completed	15	54	1040.25	0.25	15	54.0	1040.25	0.25	18/08/2017	Schlumberger	SERVICE COM DT.MIN.MUH.TT5F.AVE.MUH.G080.FDET.LEN	
29	BB-1	LOG_Digital	LOG_Digital.corrected.HNGS.Main.PEX	UKOGL_BB-1_NEXT.HNGS_R21_Main_13Jul17.dls	las	98.94MB	selected_file	Completed	359	5795	5640.25	0.25	359	5795.0	5640.25	0.25	13/07/2017	Schlumberger	SERVICE COM TDEP.CYX.SIG.WPYR.INCP.IVAL.INCP	
30	BB-1	LOG_Digital	LOG_Digital.corrected.HNGS.PEX.Repeat	UKOGL_BB-1_NEXT.HNGS_R21_Repeat_13Jul17.dls	dis	3.45MB	selected_file	Completed	359	5795	5640.25	0.25	359	5795.0	5640.25	0.25	13/07/2017	Schlumberger	SERVICE COM TDEP.QMCFI.COR.NCYT.CYB.SIG.DWFE.SIG.II	
31	BB-1	LOG_Digital	LOG_Digital.corrected.HNGS.Main.PEX	UKOGL_BB-1_PEX_R21_Main_13Jul17.dls	dis	151.59MB	selected_file	Completed	430	5714.2	5640.25	0.25	430	5714.2	5640.25	0.25	13/07/2017	Schlumberger	SERVICE COM TDEP.FTM.F22.F09U.R09U.R06R.FV09U.R06R	
32	BB-1	LOG_Digital	LOG_Digital.corrected.HNGS.PEX.Repeat	UKOGL_BB-1_PEX_R21_Repeat_13Jul17.dls	dis	6.74MB	selected_file	Completed	430	5714.2	5640.25	0.25	430	5714.2	5640.25	0.25	13/07/2017	Schlumberger	SERVICE COM TDEP.ECGR.ENGE.INCP.INCL.NCYX.V8F1.CYTLN	
33	BB-1	LOG_Digital	LOG_Digital.Caliper.corrected.HNGS.Main	UKOGL_BB-1_Caliper_R21_Main_13Jul17.las	las	361.97KB	selected_file	Completed	4	2640	5792	0.5	4	2640.0	5792.0	0.5	07/13/2017	Schlumberger	SERVICE COM BS.CS.GR	
34	BB-1	LOG_Digital	LOG_Digital.corrected.HNGS.Main.PEX	UKOGL_BB-1_NEXT.HNGS_R21_Main_13Jul17.las	las	15.85MB	selected_file	Completed	175	2640	5792	0.5	175	2640.0	5792.0	0.5	07/13/2017	Schlumberger	SERVICE COM THAP.S6R.CS.CGR.BHBK.TURA.CH1.CH2.URAN	

FileHomeInsertPage LayoutFormulasDataReviewViewPDFTell me what you want to do

CutCopyPasteFormat PainterClipboardFontAlignmentNumberStylesCellsEditingSign and Encrypt

Calibri11Wrap TextGeneralNormalBadGoodNeutral

AutoSumFillSort & Find & Filter SelectSign and Encrypt

C294

Well	Data Type	TAGS	Filename	File T	File S	Unique Fil	DLIS to	LAS Crawl	Header	Curv	Head	HEAP	Head	Data	Data	DATA	DATA	Full date	Full SRVC	Curves Str List
12	BB-1	LOG_Analog	LOG_Image.MD	BB-1_MD-FL_7_15_2017.pdf	pdf	1.54MB	selected_file	-	-	-	-	-	-	-	-	-	-	07/15/2017	-	Composite
14	BB-1	LOG_Analog	LOG_Image.CALHRLT.PEX	BB-1_R1_1_PEX.HRLT.CAL_Scale200.Pdf	pdf	945.75KB	selected_file	-	-	-	-	-	-	-	-	-	-	18/08/2017	Schlumberger	1.1 HCAL.SP.EHGR.EDTC.HN.Nuclear Resistivity L
16	BB-1	LOG_Analog	LOG_Image.GR.TVD	BB16R12_1_GR_TVD.Pdf	pdf	164.87KB	selected_file	-	-	-	-	-	-	-	-	-	-	609.6	-	Gamma Ray
26	BB-1	LOG_Analog	LOG_Image.GR	BB-1_3_1_GR.CBL.VDL_200_Scale.Pdf	pdf	4.86MB	selected_file	-	-	-	-	-	-	-	-	-	-	780.3	-	Caliper Log
38	BB-1	LOG_Analog	LOG_Image.Caliper.corrected.HNGS.PEX	UKOGL_BB-1_8.5in_Caliper_13Jul17.Pdf	pdf	989.55KB	selected_file	-	-	-	-	-	-	-	-	-	-	804.7	-	18/08/2017 Schlumberger
39	BB-1	LOG_Analog	LOG_Image.corrected.HNGS.PEX	UKOGL_BB-1_8.5in_Lithoscanner_13Jul17.Pdf	pdf	5.14MB	selected_file	-	-	-	-	-	-	-	-	-	-	807.7	-	13/07/2017 Schlumberger
40	BB-1	LOG_Analog	LOG_Image.corrected.HNGS.PEX	UKOGL_BB-1_8.5in_PEX_14Jul17.Pdf	pdf	2.85MB	selected_file	-	-	-	-	-	-	-	-	-	-	807.7	-	13/07/2017 Schlumberger
41	BB-1	LOG_Analog	LOG_Image.corrected.HNGS.PEX	UKOGL_BB-1_8.5in_SpectralGamma_13Jul17.Pdf	pdf	2.95MB	selected_file	-	-	-	-	-	-	-	-	-	-	807.7	-	13/07/2017 Schlumberger
55	BB-1	LOG_Analog	LOG_Image.corrected.FMI.HRLT	UKOGL_BB-1_8.5in_FMI(SpeedCorrected)_14Jul17.Pdf	pdf	109.93MB	selected_file	-	-	-	-	-	-	-	-	-	-	832.1	-	13/07/2017 Schlumberger
56	BB-1	LOG_Analog	LOG_Image.corrected.FMI.HRLT	UKOGL_BB-1_8.5in_FMI_14Jul17.Pdf	pdf	173.65MB	selected_file	-	-	-	-	-	-	-	-	-	-	774.2	-	14/07/2017 Schlumberger
57	BB-1	LOG_Analog	LOG_Image.corrected.FMI.HRLT	UKOGL_BB-1_8.5in_HRLT_14Jul17.Pdf	pdf	2.09MB	selected_file	-	-	-	-	-	-	-	-	-	-	774.2	-	14/07/2017 Schlumberger
77	BB-1	LOG_Analog	LOG_Image.HNGS.PEX	UKOGL_BB-1_SpectralGamma_13Jul17.Pdf	pdf	2.94MB	selected_file	-	-	-	-	-	-	-	-	-	-	804.7	-	13/07/2017 Schlumberger
147	BB-1	LOG_Analog	LOG_Image.GR.MD.MWD	BB1_RT_GR_MD_2676.0ft.pdf	pdf	442.44KB	selected_file	-	-	-	-	-	-	-	-	-	-	22.9	-	29/05/2017 Target Well Co
148	BB-1	LOG_Analog	LOG_Image.GR.MWD.TVD	BB1_RT_GR_TVD_2676.0ft.pdf	pdf	430.36KB	selected_file	-	-	-	-	-	-	-	-	-	-	22.9	-	29/05/2017 Target Well Co
154	BB-1	LOG_Analog	LOG_Image.GR.MWD.TVD	BB1_RT_GR_TVD_2466.0.pdf	pdf	193.19KB	selected_file	-	-	-	-	-	-	-	-	-	-	457.2	-	29/05/2017 Target Well Co
185	BB-1	LOG_Analog	LOG_Image.GR.MWD.TVD	BB1_RT_TVD_ROP_GR_3983.5ft.pdf	pdf	200.28KB	selected_file	-	-	-	-	-	-	-	-	-	-	762.0	-	29/05/2017 Target Well Co
217	BB-1 ST1	LOG_Analog	LOG_Image.Gamma.GR.MEM.ROP.TD	BB12_MEM_TVD_GR_ROP_TD.PDF	PDF	532.81KB	selected_file	-	-	-	-	-	-	-	-	-	-	640.1	-	01/07/2017 Target Well Co
223	BB-1	LOG_Analog	LOG_Image.Main.Sonic	UKOGL_BB-1_MAST_HGNS_Main.Sonic	n.a.	1.26MB	selected_file	-	-	-	-	-	-	-	-	-	-	798.6	-	14/07/2017 Schlumberger
231	BB-1 ST1	LOG_Analog	LOG_Image.GR.MD.MEM.ROP.TD	BB12_MEM_MD_GR_ROP_TD.PDF	PDF	7.8MB	selected_file	-	-	-	-	-	-	-	-	-	-	784.9	-	01/08/2017 Target Well Co
241	BB-1 ST1	LOG_Analog	LOG_Image.CXD.Weatherford	BB1_ST1_CXD.Semilance_500-2000	PDF	67MB	selected_file	-	-	-	-	-	-	-	-	-	-	754.4	-	08/08/2017 Weatherford
243	BB-1 ST1	LOG_Analog	LOG_Image.Field.Weatherford	KOGL_BB1_9AUG2017_botchale.com	PDF	0MB	selected_file	-	-	-	-	-	-	-	-	-	-	762.0	-	08/08/2017 Weatherford
248	BB-1 ST1	LOG_Analog	LOG_Image.Field.Weatherford	KOGL_BB1_9AUG2017_TRIPLE.COM	PDF	5MB	selected_file	-	-	-	-	-	-	-	-	-	-	762.0	-	08/08/2017 Weatherford
250	BB-1 ST1	LOG_Analog	LOG_Image.cmi.corrected.Weatherford	KOGL_BB1_CMI_Image_Speed_Corre	PDF	7.63MB	selected_file	-	-	-	-	-	-	-	-	-	-	2540.0	-	08/08/2017 Weatherford

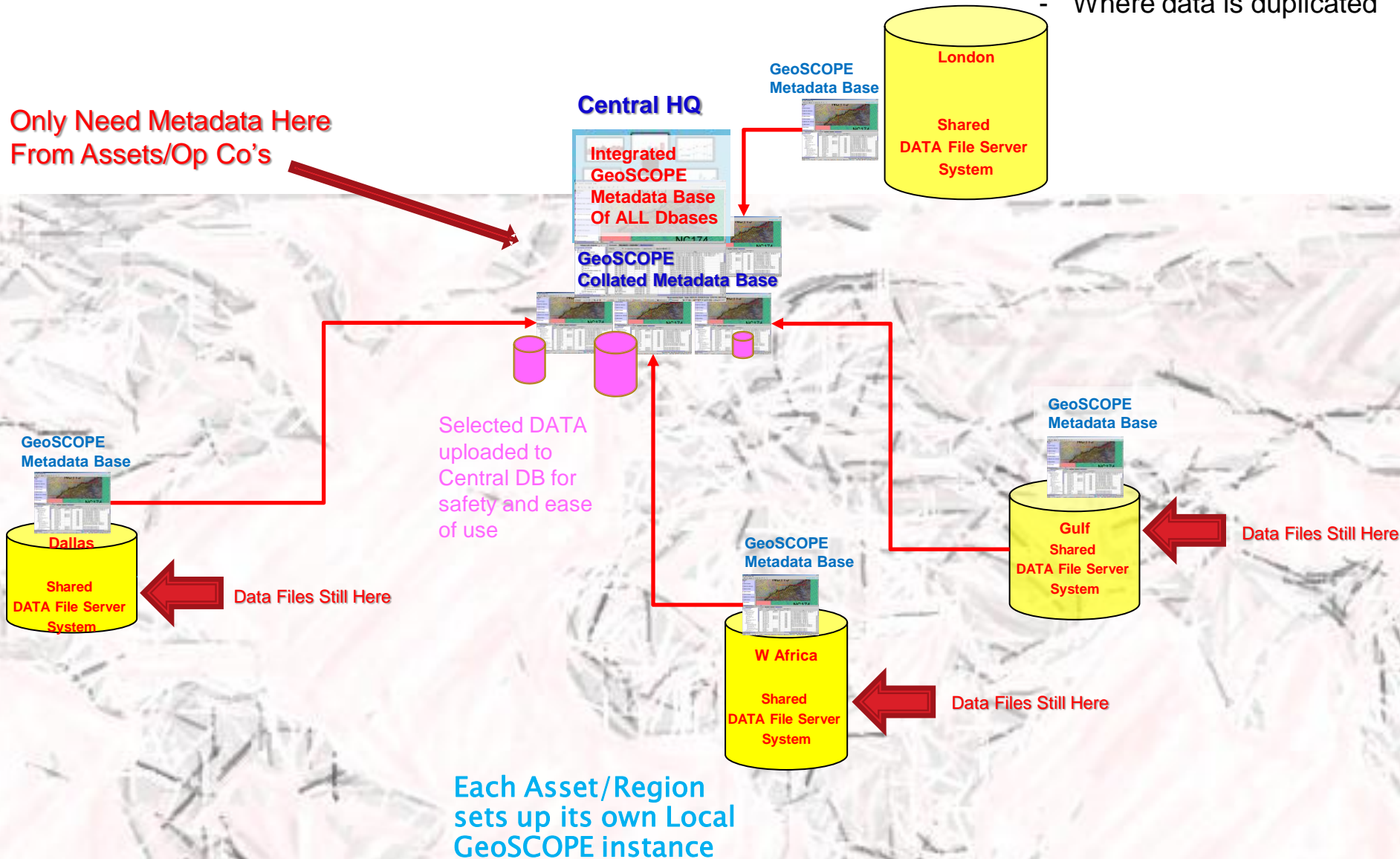
Duplicates Identified  
Curve Intervals extracted  
Data Classified  
Data LINK to Files on data server

# conclusions

- ▶ The E&P IM/DM can be
  - Automated with BI – ML – AI
    - “Autonomous Virtual Data Custodian” is born...!
    - “Drop & forget your files”
  - Done in the cloud – open or private
  - Metadata can be:
    - “published” to all interested parties
    - Pointed back to original data silos/sources
- ▶ The data can be kept unstructured “as is”
- ▶ But seen structured through the enhanced metadata layer

## Managing Distributed IM/DM across multiple offices

- LONDON HQ can see:
- What data types exist
  - Where the data exists
  - Where data is duplicated

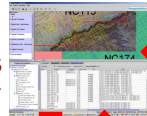




# “CLASSIC” CLIENT OFFICE

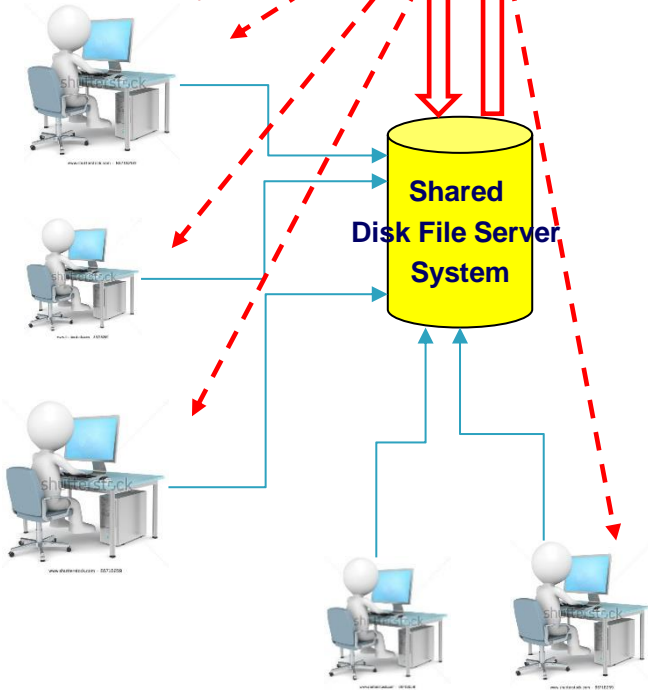
all activity in house

Monitor LAN Server Activity  
Apply Crawlers on all NEW Files  
Identify Duplicates  
GeoTAG , Classify



E&P Geotechnical Assistance  
Perform Validation , Finalisation  
- Either CLIENT Trained or Supplied

Shared  
Disk File Server  
System

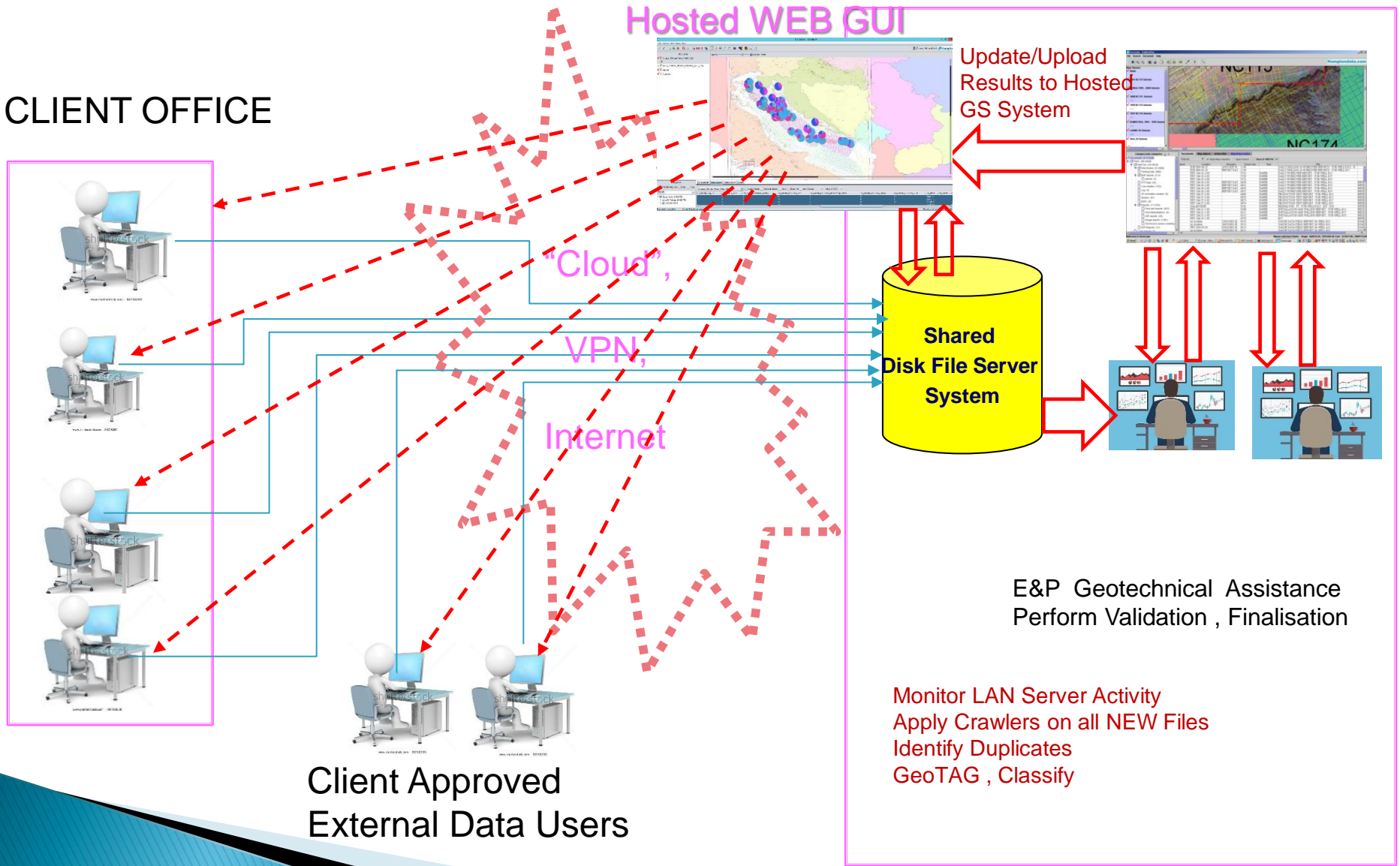


## IM/DM Service Co Offices

# CLIENT OFFICE

## Hosted WEB GUI

## Update/Upload Results to Hosted GS System

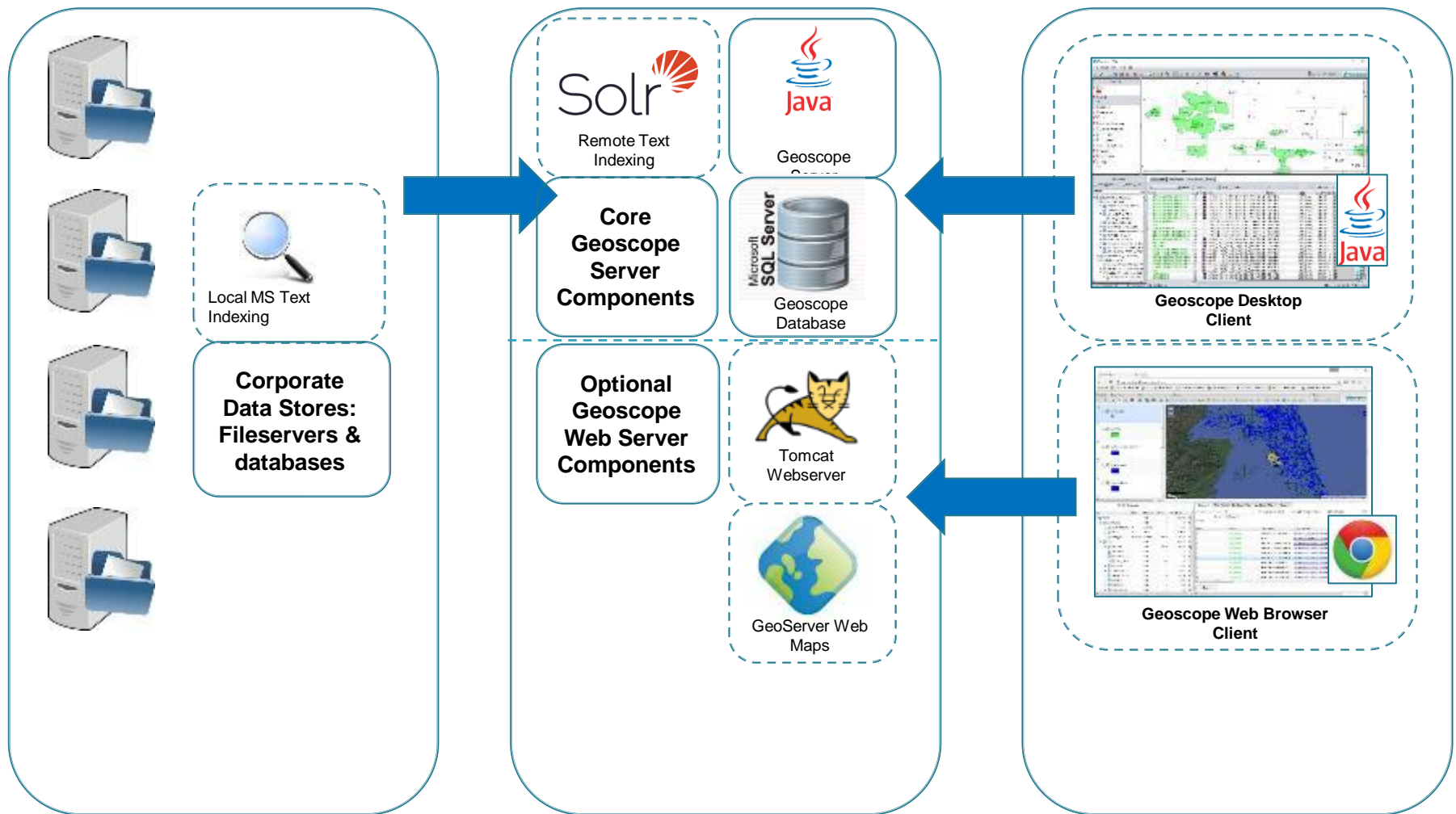


E&P Geotechnical Assistance  
Perform Validation , Finalisation

- Monitor LAN Server Activity
- Apply Crawlers on all NEW Files
- Identify Duplicates
- GeoTAG , Classify

## Client Approved External Data Users

# GeoSCOPE Architecture





Discover >> Index >> Capture >> Extract > Validate  
The Intelligent way

# D2D

Virtual  
Validated  
Data Room

Data to Decision – Ready:  
M&A, Due Diligence, Discovery, Farm In/Out

Assorted & Unsorted  
Unstructured Data ;  
physical, disk,  
database

30,000 files  
220 wells  
7,500 Reports as PDF, Word  
10,000 other docs  
1500 xls  
450 PPT  
5500 LAS  
120 DLIS  
25 SEG Y

Digital, analogue, data & metadata

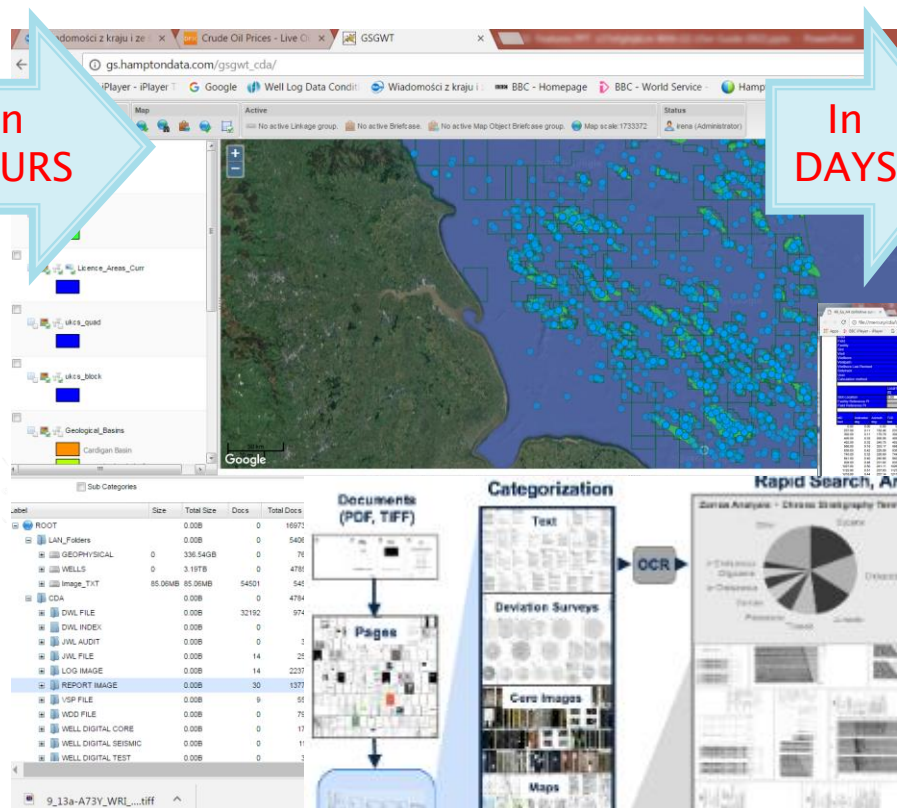
Using the latest  
in BI & Machine  
Learning to  
discover, index,  
extract, validate

In  
HOURS

In  
DAYS

V<sup>2</sup>DR

Evaluation Ready



Documents  
(PDF, TIFF)

Pages

Pages

Pages

Pages

Pages

Pages

Pages

Pages

Pages

Pages

Pages

Categorization

Text

Deviation Surveys

Core Images

Maps

Seismic

Seismic

Seismic

Seismic

Seismic

Seismic

Seismic

Seismic

Rapid Search, Analysis & Visualization

Source Analysis - Cross Stratigraphy Terms

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

Keywords - Cross Stratigraphy

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