

Groupement Berkine: Collaborative Environment Enhancement

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Groupement Berkine – Sonatrach/Anadarko



What's Next?

SIS Global Forum 2017

September 13–15

Le Palais des Congrès de Paris

Schlumberger

Groupement Berkine at a Glance

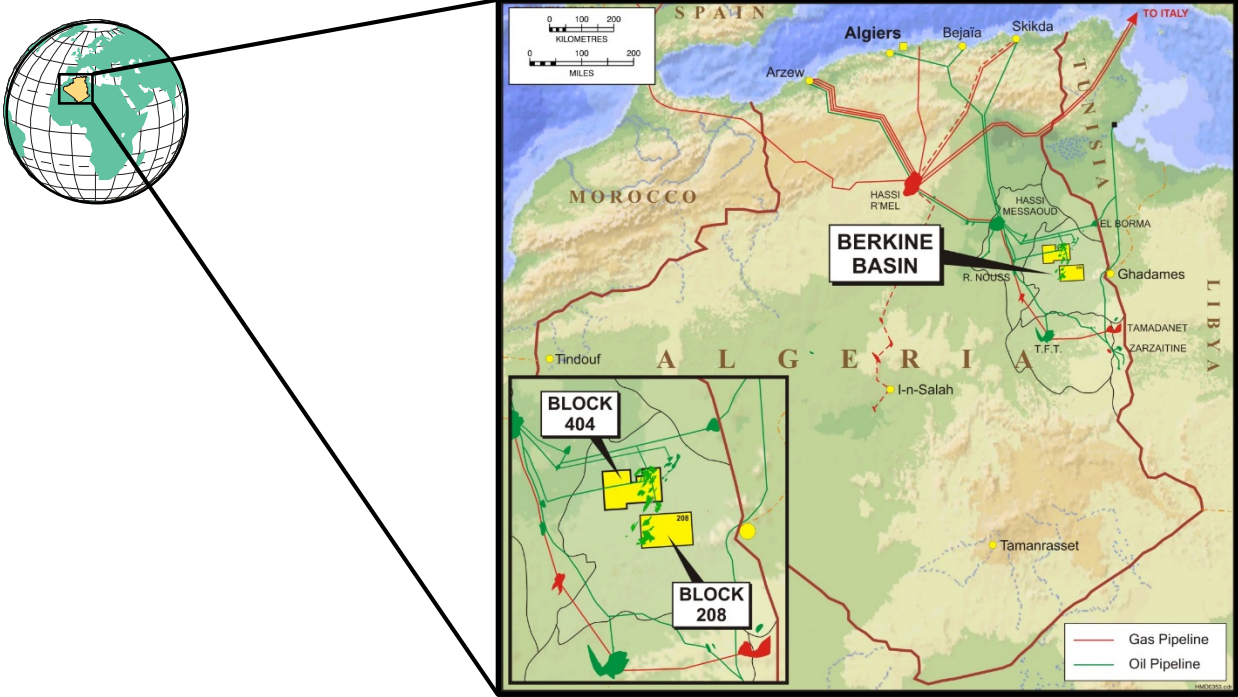


- Joint venture organization for Sonatrach & Anadarko
 - Sonatrach is the Algerian National Oil Company, and the 1st African company
 - Anadarko is among the world's largest independent oil and natural gas exploration and production companies
- JV created in 1998 and is headquartered in Hassi-Messaoud
- Considered as the biggest JV in Algeria in terms of Oil production
- Two mega projects: HBNS & El Merk (2nd biggest reservoir in Algeria)
- 12 Producing fields
- Groupement Berkine has produced over 1 billion barrels of oil

Groupement Berkine Location



Groupement Berkine Blocks



Challenges

- Groupement Berkine geoscientists utilize several different G&G software packages to perform interpretations and evaluations
 - All raw data and interpretations are stored in the corporate repository based in OpenWorks
 - G&G interpretations are performed using Petrel
- This environment presents two main problems that impact the efficiency of work and interaction between the geoscientists:
 - Petrel users need access to the OpenWorks database
 - Petrel data generated by an end-user needs to be managed and accessible to all other geoscientists
- Increasing use of Petrel for geo-cellular modeling highlighted our need for a QC'd database for Petrel

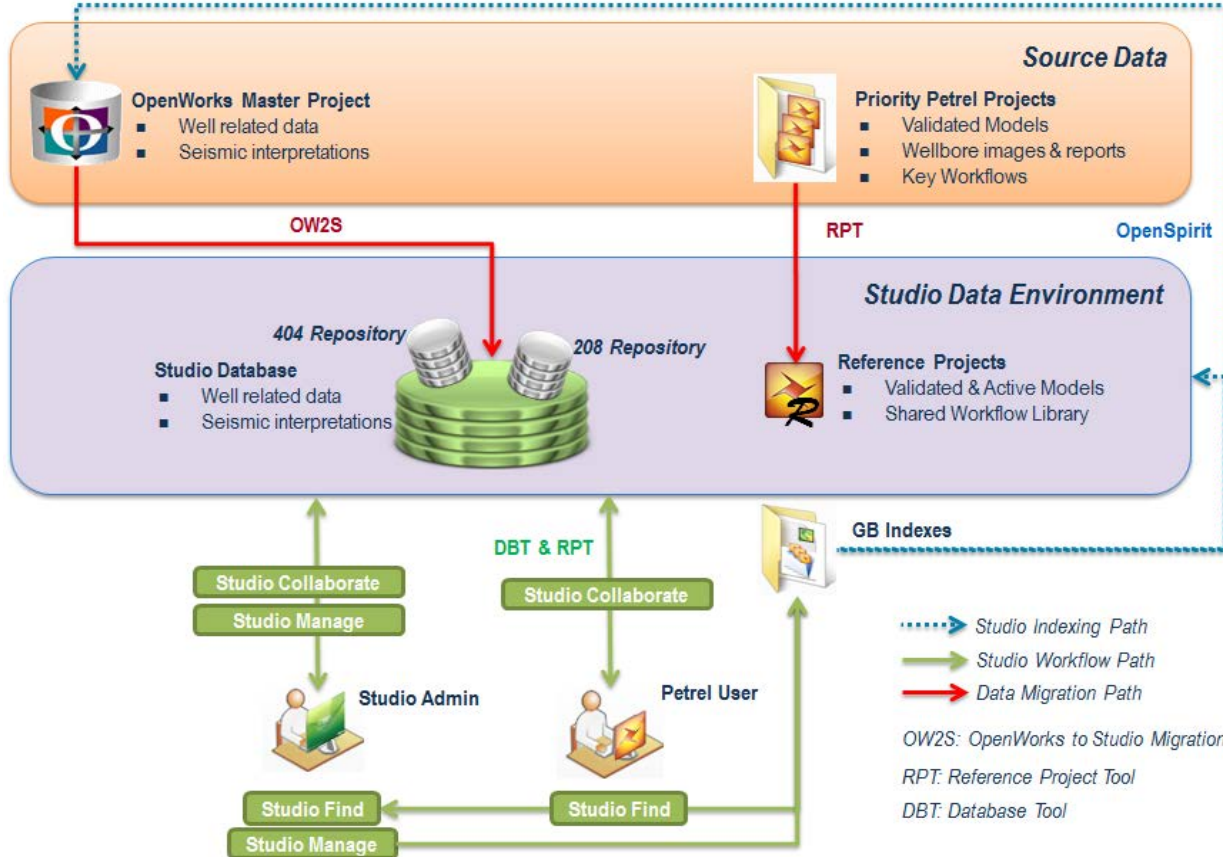
How to Meet These Challenges

- Provide a common and quality proven data environment for geoscientists working in Petrel
 - Data from OpenWorks repository and Petrel Reference Projects
- Provide real time access for users within Petrel to all data that is stored in OpenWorks with the ability to load data of interest
- Implement collaboration workflows between geoscientists working in different assets using Studio productivity tools, such as: annotations, quality attributes, notifications, etc.

Solution



OpenSpirit



Solution

- Create a collaborative environment for Petrel users based in Studio
- Make available all historical raw and interpreted data from both OpenWorks and validated Petrel projects
- Coaching and mentoring the geoscientists and database administrators on the technology and associated workflows
- Use this opportunity to implement a new working procedures

Solution

The screenshot shows a software interface with a 'Settings' window on the left and a 'Create conflation policy' dialog box in the foreground.

Settings Window:

- Database configuration
- Shared indexing
- Application settings
- Indexing migration
- License settings
- About

Create conflation policy Dialog:

Name: North Sahara Anadarko Clarke 1880
Code: 600002
Authority: DBX
Description: North Sahara Anadarko Clarke 1880

Select coordinate reference system

Name	Code	Source	Description	Base GCRS code	Base GCRS name	Type
1 North Sahara Anadarko Clarke 1880	600000	DBX				Geographic2D
2 UTM_ZONE_32_ANADARKO_3	600001	DBX		600000	North Sahara Anadar...	Projected

Select transform

Show transforms whose area of use overlap with coordinate reference system (Esri only)

Name	Code	Source	Description	Rule	From	To	Well-known text (WKT)
1 Nord Sahara™anadarko™Bursa	650000	DBX		Simple	600000	4326	GEOGTRAN™Nord Sah

Buttons: OK, Cancel

Solution

Assessment **Design** **Implement**

Data Discovery Tool
Count of all data objects
CRS information
Project outline

Powered by InnerLogix

Application	Name	Scheduled	Index	Status	Successfully indexed	Last indexed	Lo
OpenSpirit	R5000_scan_job	<input type="checkbox"/>	Index_R5000	Unknown			

Data source properties
TIBCO OpenSpirit Scan
Define an OpenSpirit Scan job to create an
Scan Job: R5000_scan_job
Log Level: INFO

Assigned index
Index: Index_R5000

Schedule
 Schedule indexing
First run: 18/01/2015 15
Run every: Every 7 Days
Successfully indexed: Never
Next run: Not enabled

Service machine: gbvks1434.Berkine.com
Service status: Running
Service user: BERKINE\MXW001

Start Stop User... Logfile...

SAVE

Timeline

Nov 16th 2014

Dec 10th 2014

Jan 23rd 2015



Kick-off



Solution delivery



Training delivery

HW deployment
(Server & Storage)

4 Days

Studio
install

2 Days

Studio & OpenSpirit
Config

4 Days

Solution
validation

2 Days

Training session
1

3 Days

Training session
2

3 Days

Data assessment

6 Days

Data Migration

10 Days

Results

- Easy, fast and secure access to different data types (Wells, logs, tops, Seismic horizons, faults and structure maps) from several sources: Studio, OpenWorks & Petrel Projects
- Capitalize on expert interpretations made in Petrel and share them with subsurface teams
- An efficient collaboration environment workflow for static models provided by Studio
- Competency transfer: 18 Engineers trained and coached on the new solution

Lessons Learned & Conclusion

- Successfully migrated all required data from OpenWorks to Studio database
 - +400 wells with deviation surveys
 - +8000 curves
 - +12600 marker picks
- Quality check and validate all migrated data versus the data source
- Competency transfer, 18 geoscientists and database administrators trained on Studio
- Change Management

- Team work was the key!!! (Groupement Berkine Studio Admin & SIS support Engineer)

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