



Caspian Oil Services Management Incorporation Kazakhstan

contracting@cosm-inc.kz

www.cosm-inc.kz

Who we are

**COSMIK is
an integrated
solution provider to
the Oil & Gas
industry,**
having all
capabilities to serve
the complete
lifecycle for
upstream,
midstream &
downstream
facilities and
infrastructure.

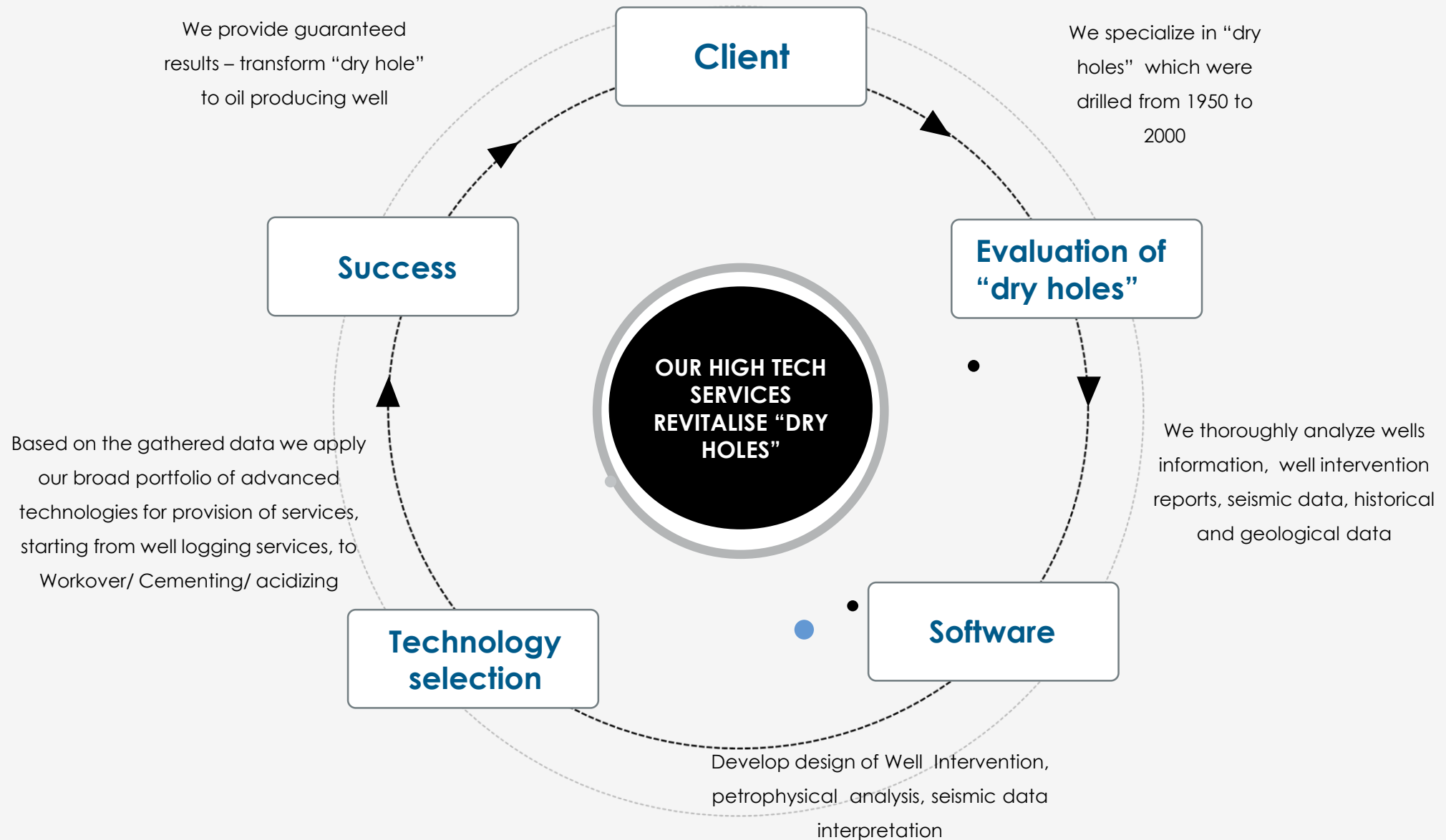


Every day we apply our broad portfolio of technologies and services to provide innovative solutions for oil production growth and optimization.

We offer an integrated approach to problem-solving: from the study of field seismology, historical data of the wells to well interventions.



OUR STRATEGY



TWO BUSINESS MODELS

WE SHARE THE RISKS WITH OUR PARTNERS

- **ACTING AS INVESTOR**

We bare all the costs of Oil&Gas field development in exchange of the subsoil ownership shares

- **ACTING AS CONTRACTOR**

We provide full cycle of services at initial zero CAPEX to Client in return of conditional payment from future earnings on produced oil/gas.

COSMIK's International Exploration Goal:

- Expansion to international oil and gas industry
- Replication of successful projects and experience abroad

Focus on:

- Increasing hydrocarbon reserves and ultimate production within a short-term period
- Capital deployment for oil production
- Extremely attractive returns for both sides

Guarantee:

1. COSMIK takes all costs during the evaluation of geological data and exploration
2. All costs of COSMIK are non- reimbursable in case of unsuccessful provision of services



International Exploration – “Why we do it”

Under-explored basins have significant “Yet to Find” potential and have been historically undercapitalized from data and technology perspective

COSMIK IS INCREASING PRODUCTION WITHOUT DRILLING

- Our focus area is exploration and production of O&G fields with “dry holes” being drilled from 1950 to 2000
- As historical data on under-explored basins and “dry holes” is outdated we implement our innovative technologies to evaluate actual reserves and extract them without new drilling



USING OUR INNOVATIVE SOLUTIONS IS THE WAY TO REVITALISE YOUR "DRY HOLES"



**COSMIK's
technical
solution unveil
dry hole's
hidden
potential**

- Geoscience services (Seismic processing and interpretation, Geological modelling, rock physics and etc).
- Vertical Seismic Profiling (Borehole Seismic acquisition)
- Well Integrity Services and Production logging
- Formation evaluation services (open hole and cased hole data interpretation)
- Workover /Cementing

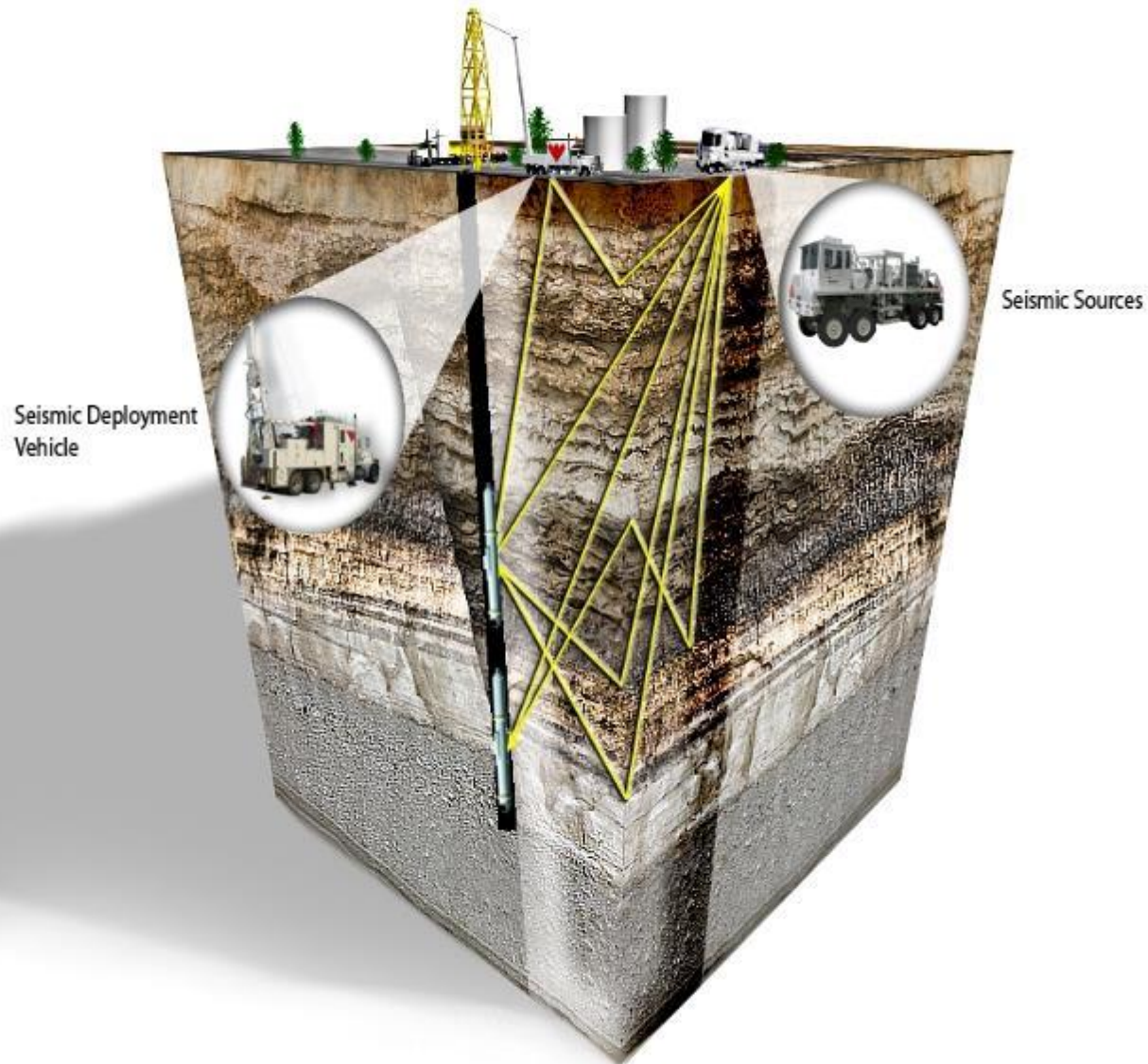
OUR PROJECT CASE STUDY

Our model has been implemented in over 10 onshore oil fields. Our services resulted in multiple increase of oil production and overall success of our customers – operators

Oktyabrskoye oilfield		
Well number	Daily production oil rate before us, bbls/d	Daily production oil rate after, bbls/d.
109	9	350
108	20	440
101	Dry hole	220
Zholdybai field		
100	Dry hole	125
101	Dry hole	75
Tortai oilfield		
17	Dry hole	320
Tobearal oilfield		
28	13	202
Zhylankabak oilfield		
116	5	75



Vertical Seismic Profiling (VSP)



What is Vertical Seismic Profiling ?

Seismic measurements recorded at increasing depths in response to a surface energy source.

How is it recorded ?

Active recording with wireline array or permanent sensors in and close to the reservoir with time synchronization.

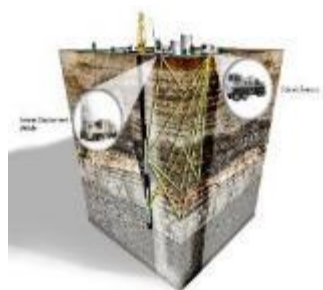
What information is produced ?

Time-depth, multiple delineation, high resolution images around a wellbore, prediction ahead of the bit, phase analysis, well-tie, velocities, V_p/V_s ratio, etc.

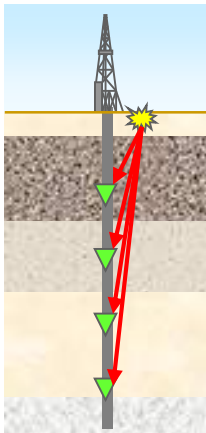
Is it a proven technology ?

Yes! Technology has been around for decades. Wireline, LWD VSP use 3C geophones for onshore and offshore projects.

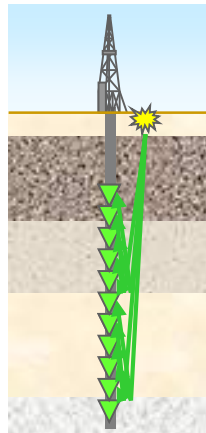
Borehole Seismic Techniques



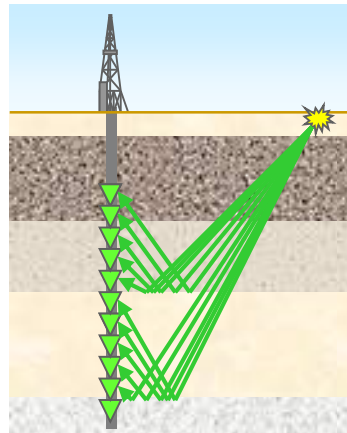
Checkshot



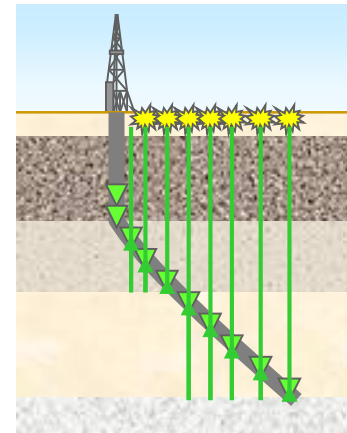
Zero-offset VSP



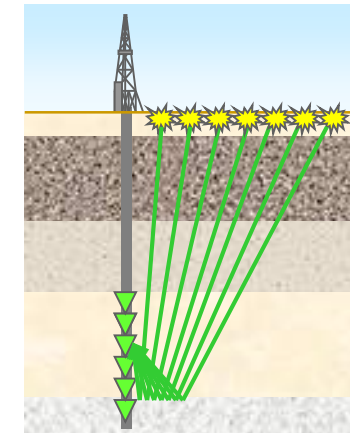
Offset VSP



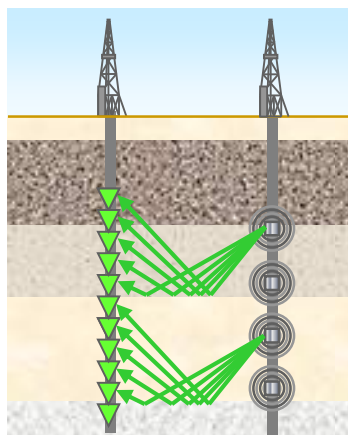
Vertical Incidence VSP



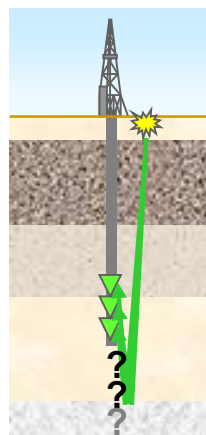
Walkaway VSP



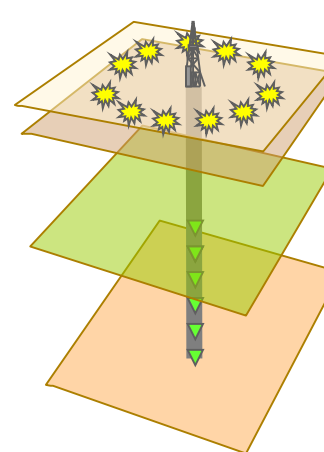
Crosswell VSP



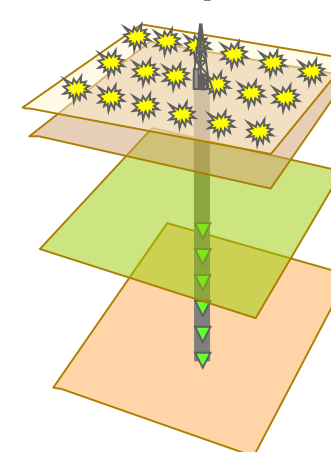
Look-ahead VSP



Walkaround VSP

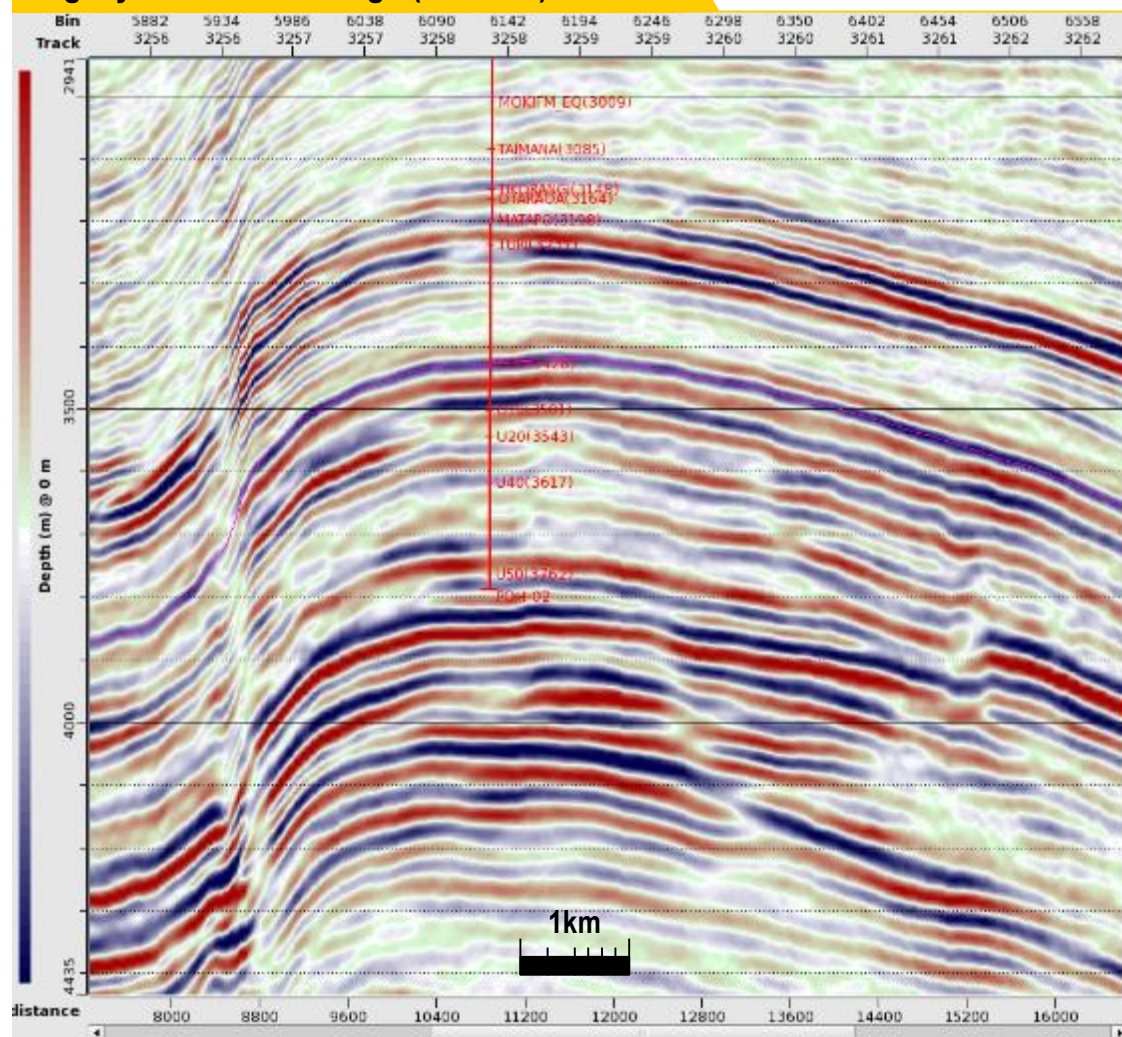


3D-VSP (and 4D)

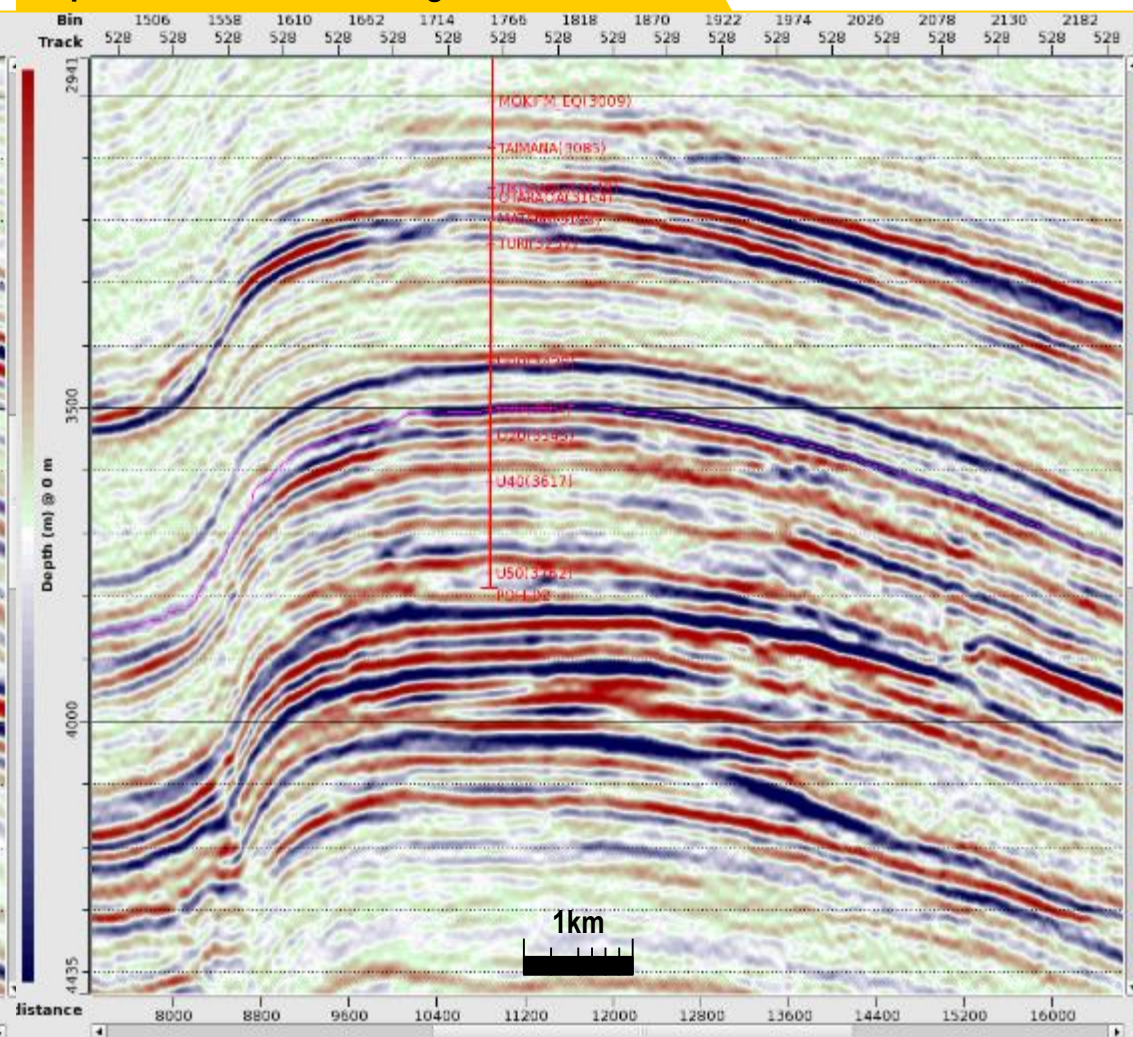


VSP Applications for Seismic Processing: VSP-Integrated Processing

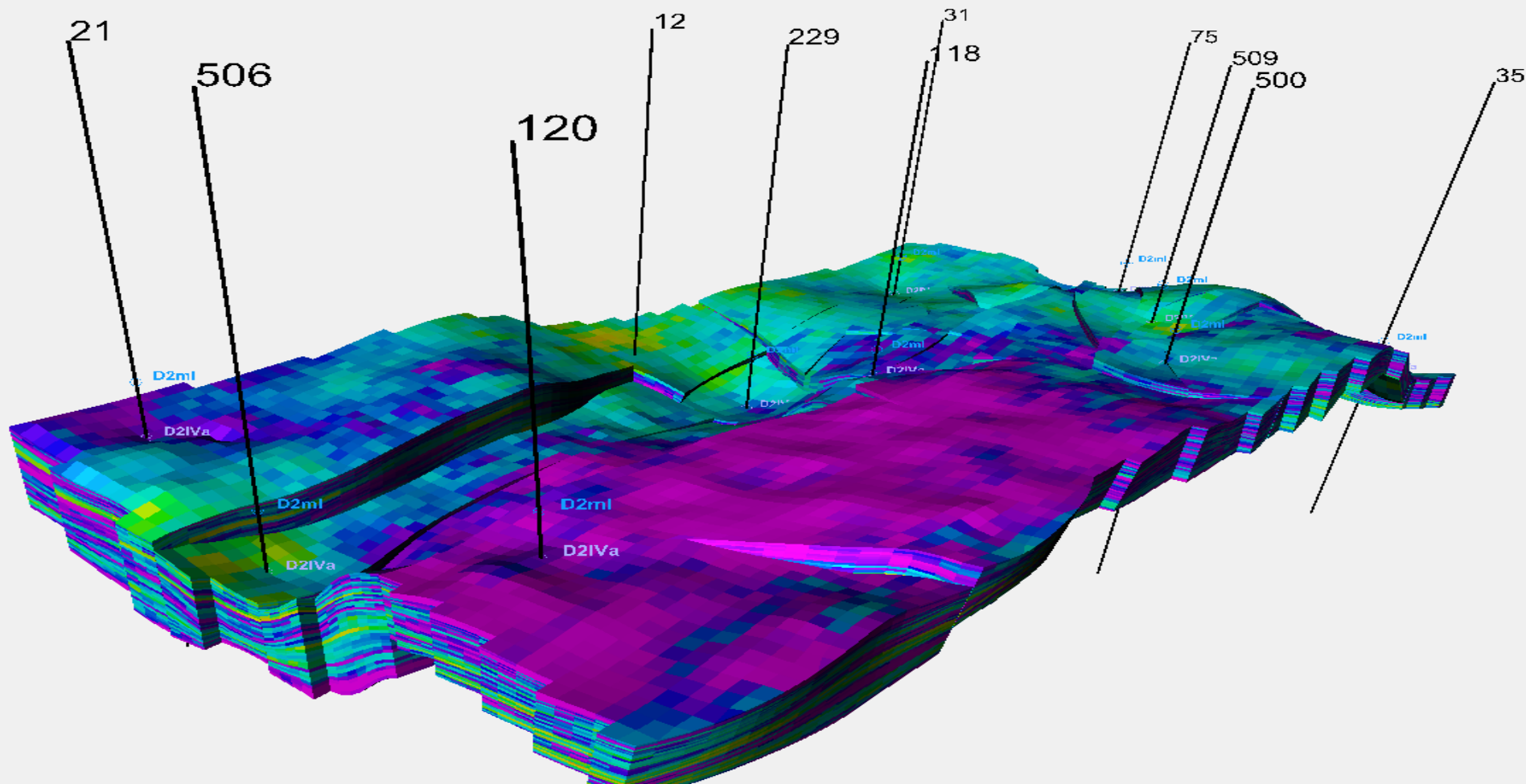
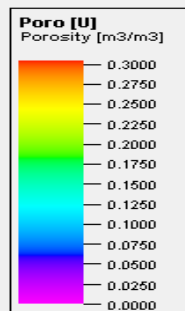
Legacy 3D Seismic Image (PreSDM)



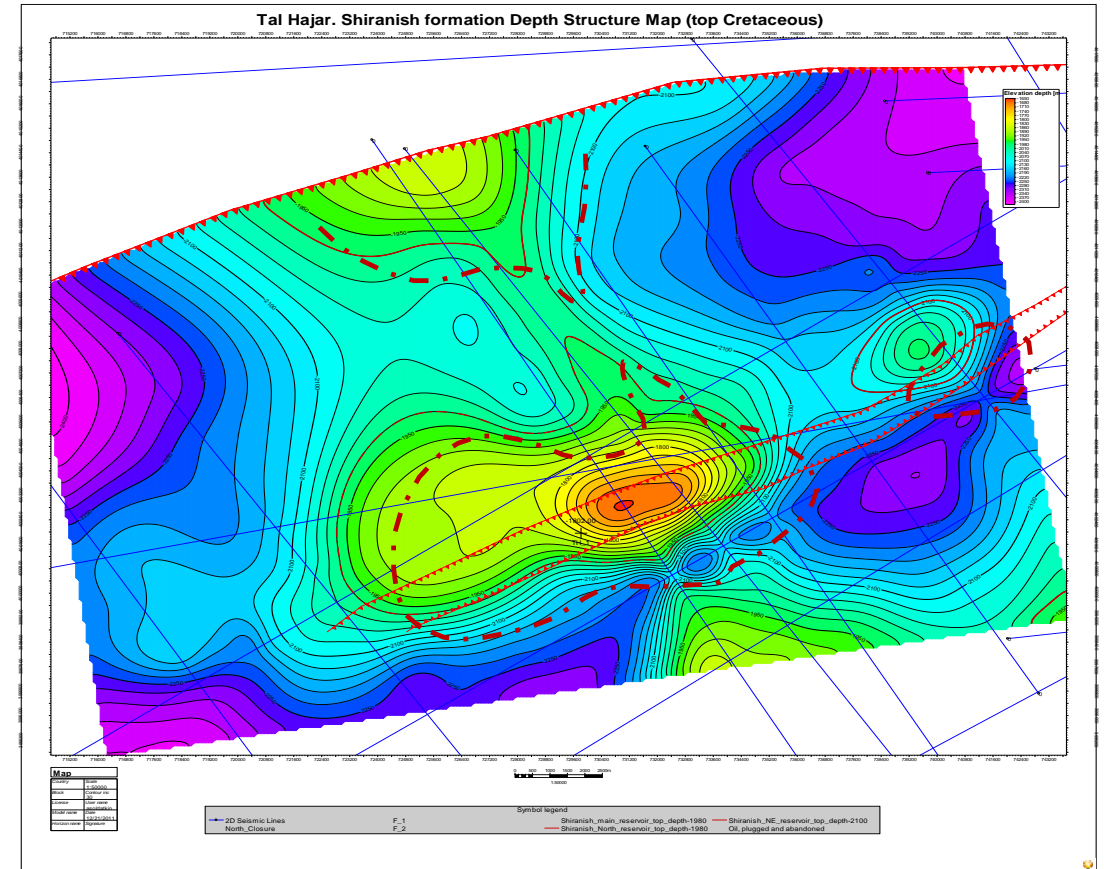
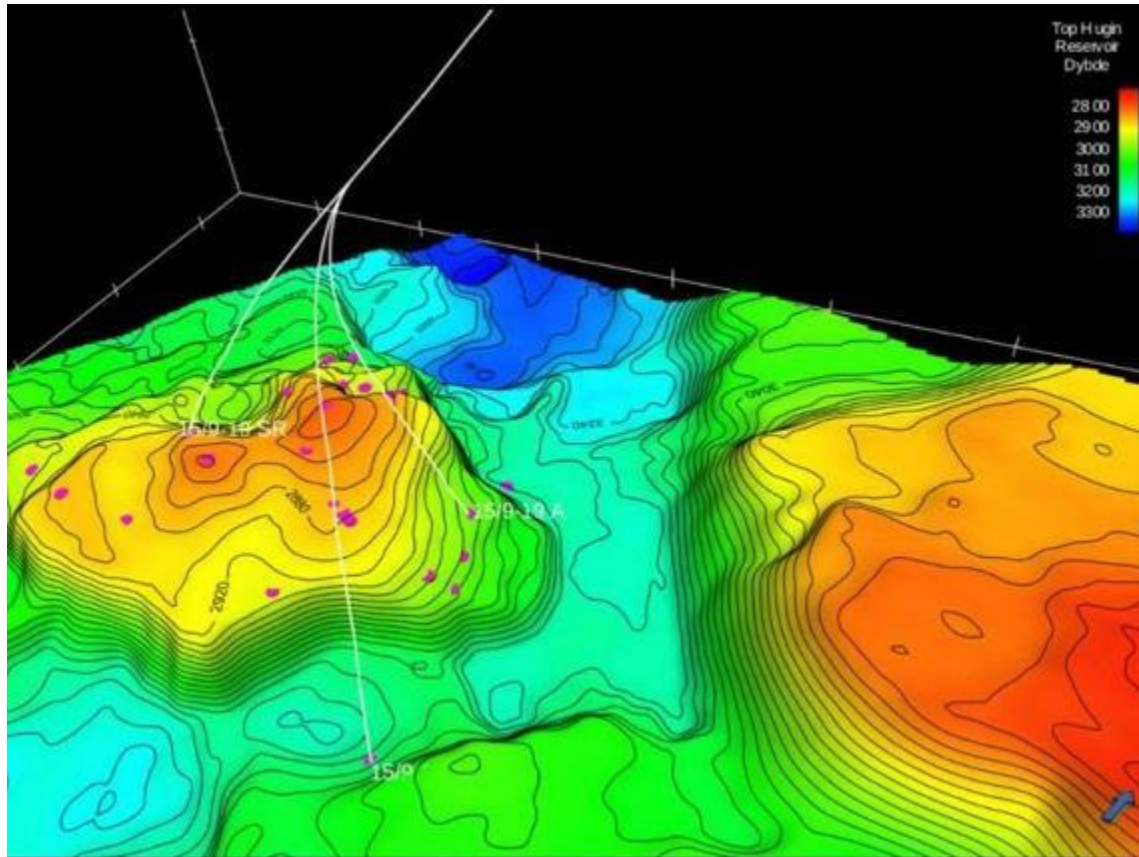
Reprocessed with VSP Integration

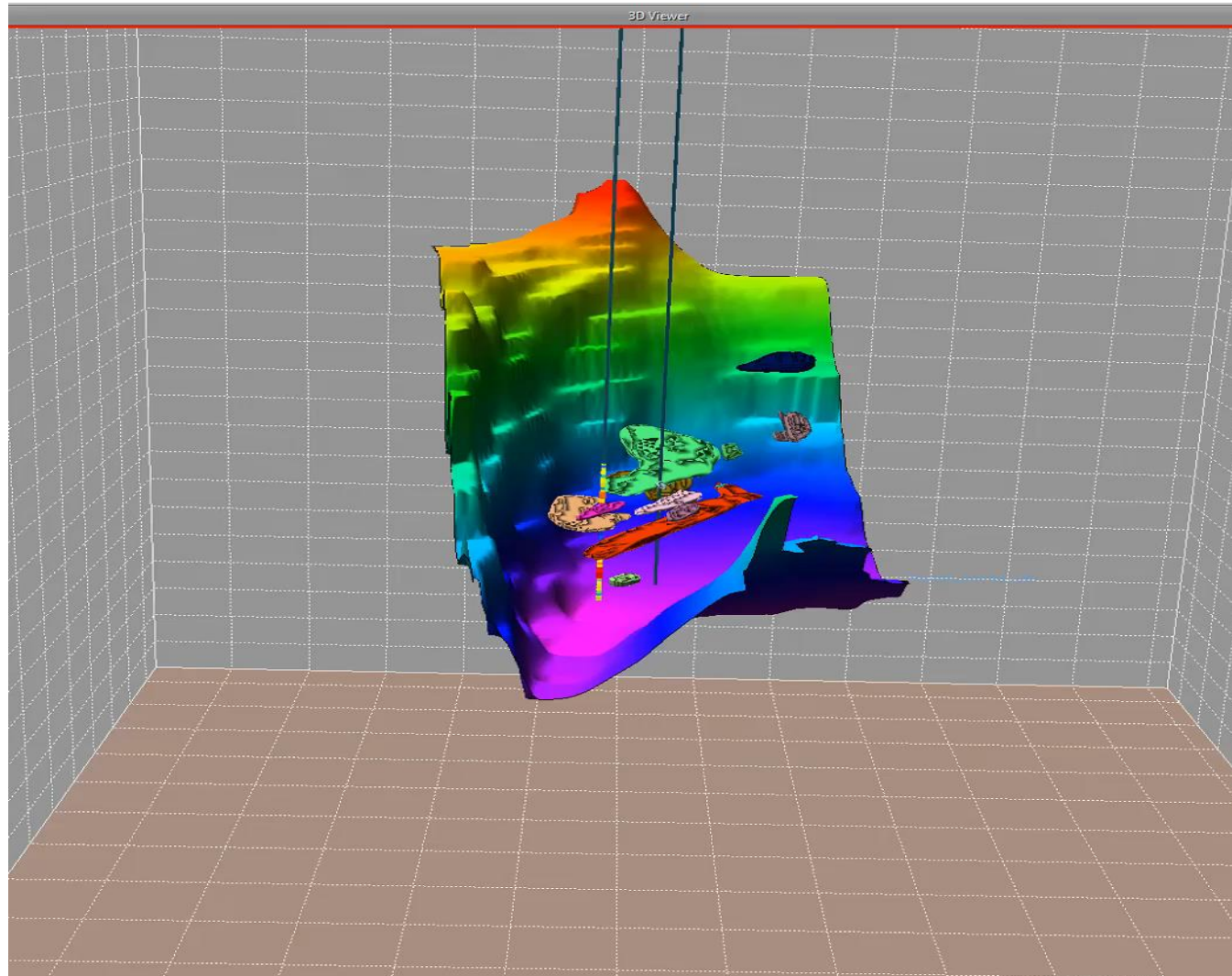


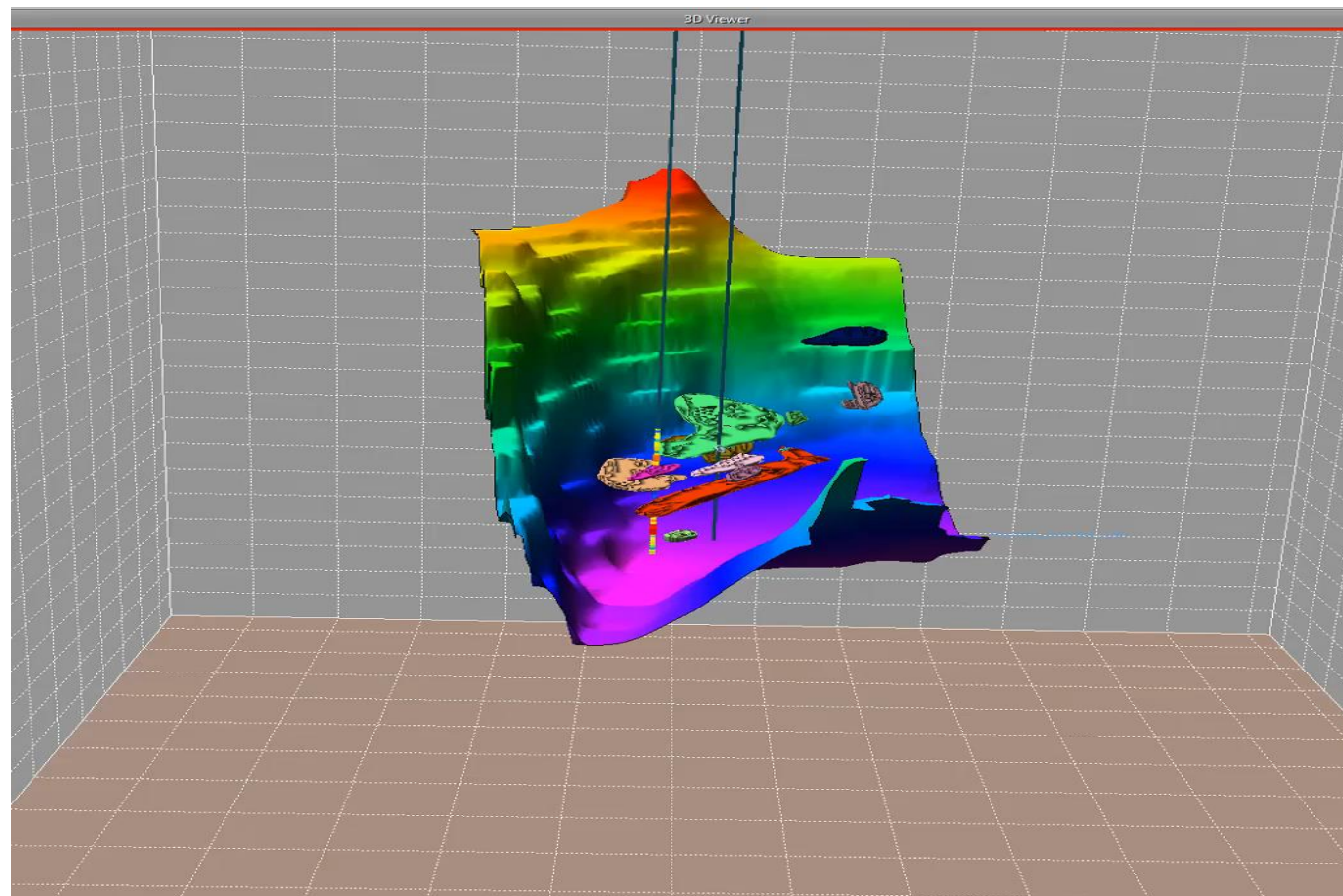
Porosity Attribute from Calibrated 3D Seismic Inversion

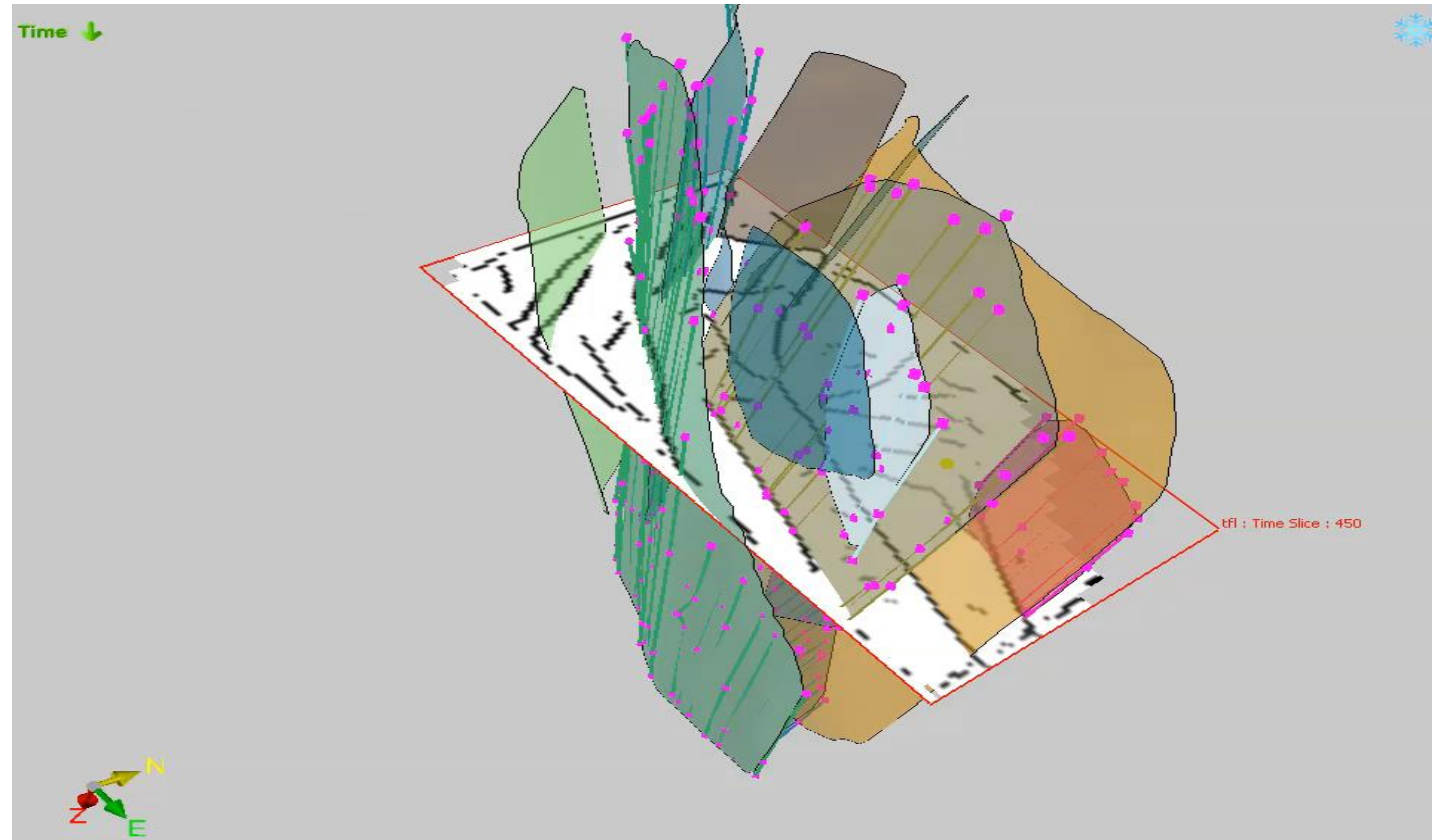


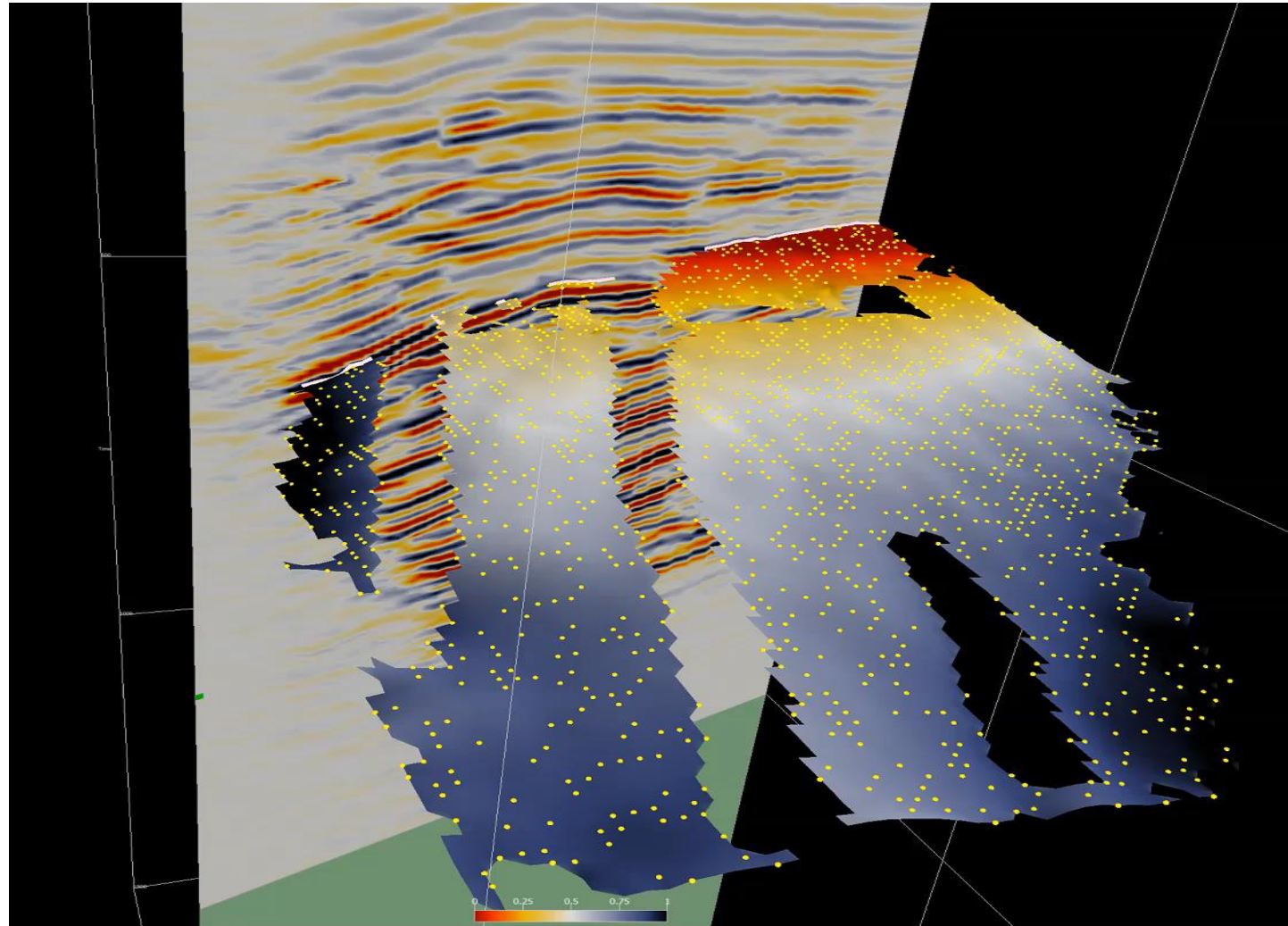
Reservoir Modeling











OUR PROJECTS

2013 - 2016

Oil Recovery Works at Tobearal Oil Field,
Botakhan Oil Field.



2008 - 2016

Provision of Operation and Maintenance
Services at Bautino Base (Support base for
maritime operations) for NCOC (Shell, ENI,
ExxonMobil, Total).



OUR PROJECTS

2016 - Present

Supply Industrial Trials to Maersk Oil
Dunga Filed (Total)



2012 - 2016

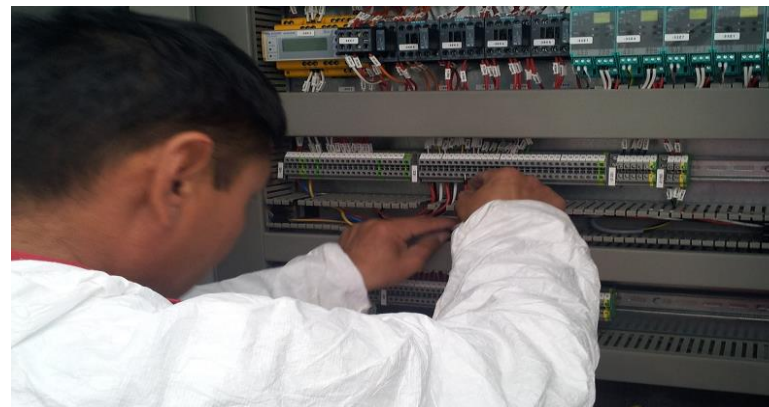
Supply of Spare parts for Electrical
Equipment for NCOC N.V.(Shell, ENI,
ExxonMobil, Total)



OUR PROJECTS

2017 - Ongoing

Provision of outsourcing Original Equipment Manufacturer support services, KPO B.V. (Shell, Shevron, Eni).

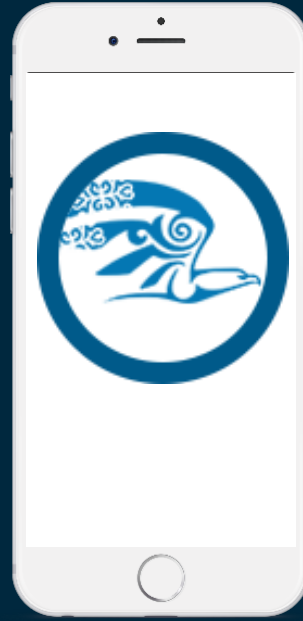


2016- Ongoing

The full complex of well works at Tortay Oil Field, Zholdybai Oil Field, Oktyabrskoe Oil Field: Well logging, well integrity services: MIT, MTT, RBT, RAS, well workover, deinstallation of the surface equipment; tubular running services; remedial cementing services, perforation.



CONTACT US



HOUSTON OFFICE

5280 Caroline Street,
Houston, TX77004

ASTANA OFFICE

Baitursynov Str. 1, Block A-2,
Astana, 010000
Republic of Kazakhstan

ATYRAU OFFICE

Azattyk Ave. 4a,
Atyrau, 060002
Republic of Kazakhstan

ALMATY OFFICE

Kunaev st. 77 Almaty, 050000
Republic of Kazakhstan

LONDON OFFICE

111 Park Street,
Mayfair, London.
W1K7JL

Contracting@cosm-inc.kz

www.cosm-inc.kz