



**U.S. Oil and Gas plc**

## **AGM Presentation**

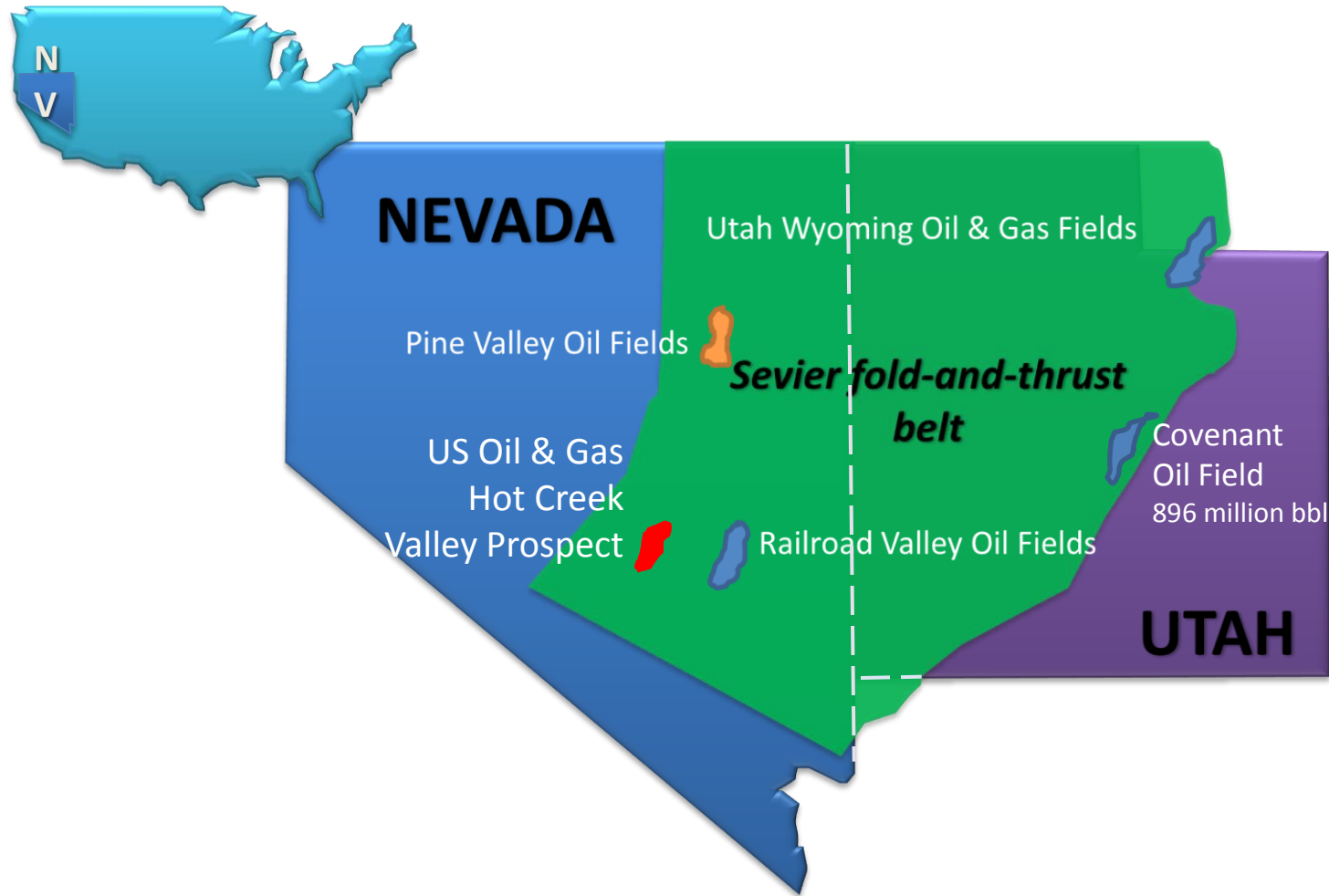
June, 2014  
Dublin, Ireland

# Corporate

## US Oil & Gas Plc:

- Incorporated in Ireland
- Listed on GXG Market (USOP)
- Listed OTC New York (USOPY)
- 42 million shares in issue
- Debt free

# Mississippian Antler Foreland Basin



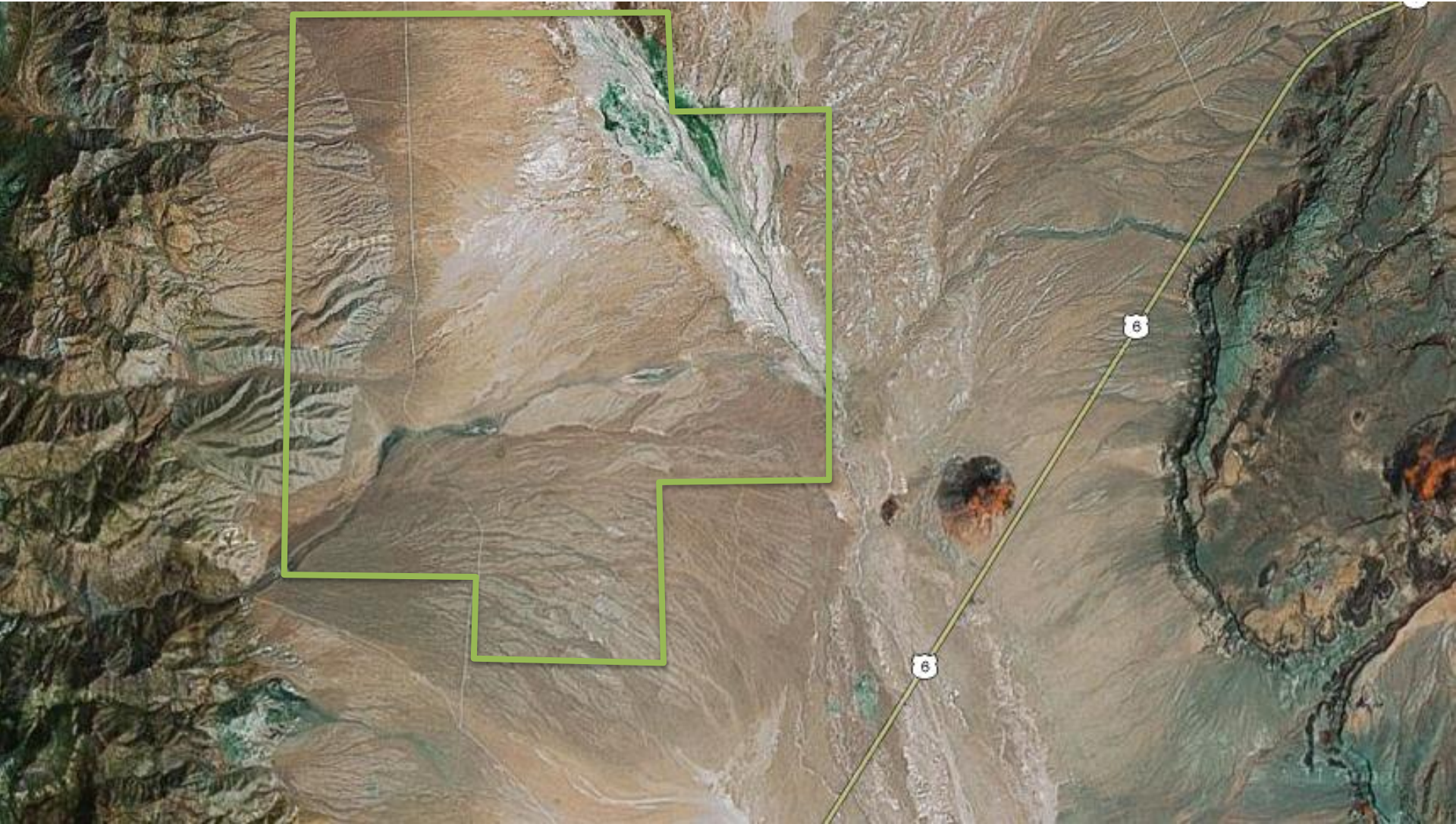
# USOIL LEASE AREA



The central portion of Hot Creek Valley, looking eastwards  
towards the Pancake Range and Railroad Valley



# The Prospect – 88 Sq Km

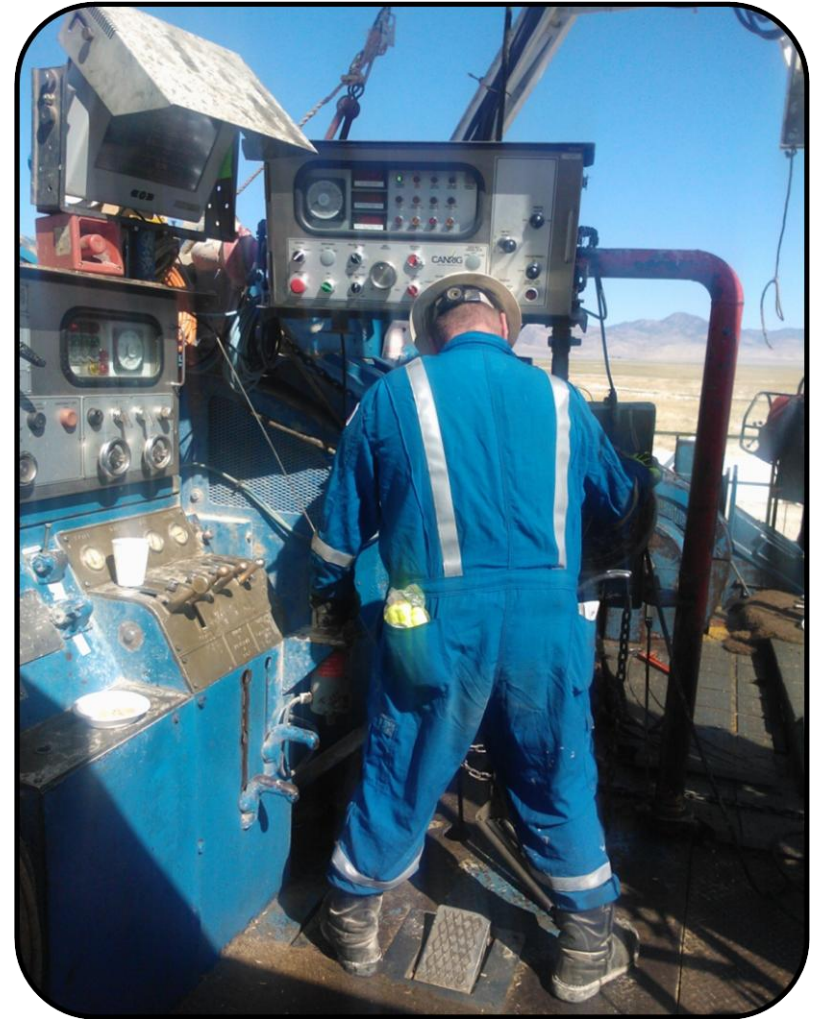
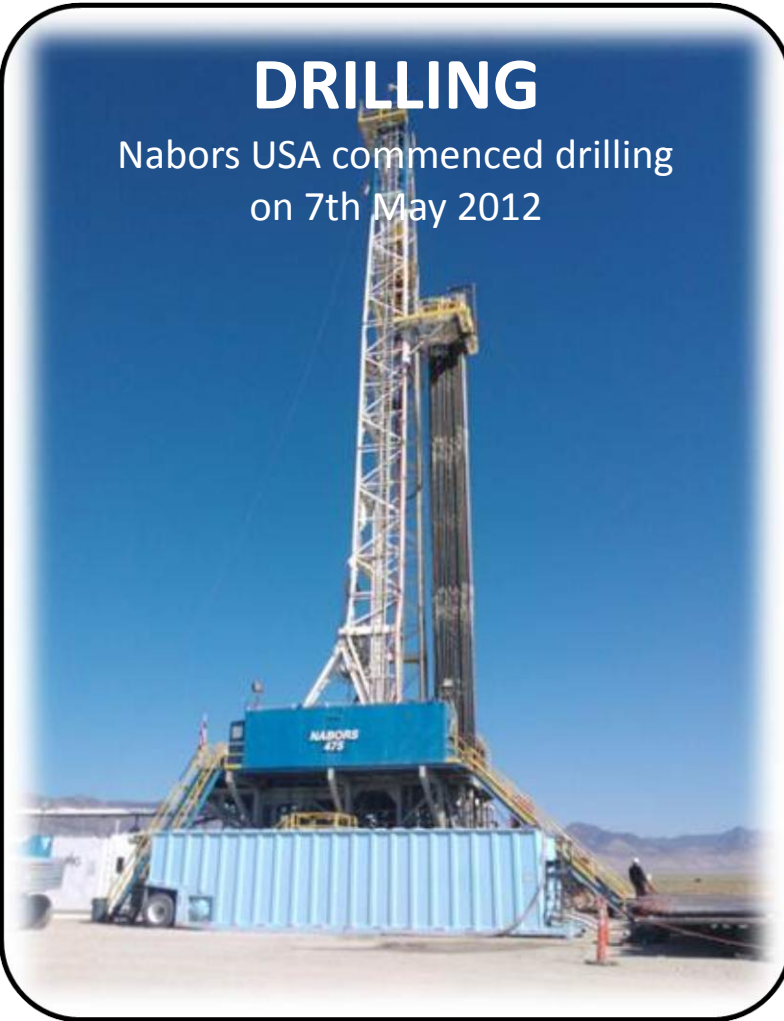




# EBLANA #1 OPERATIONS

## DRILLING

Nabors USA commenced drilling  
on 7th May 2012



# Eblana 1

- May 2012 – Drilled Eblana 1 well
- Independently verified oil discovery  
(Forrest A. Garb & Ass.)
- Contingent & Prospective Resources
- First in Nevada for 30 years

# The Discovery

## Oil characteristics:

- APIs 28.5 and 33 – higher quality than Railroad Valley
- Sweet oil – no H<sub>2</sub>S or CO<sub>2</sub>
- No heavy components to remove
- Black oil and expected minimal gas production



# TESTING EBLANA #1

## Eblana #1 Testing

Three programmes from September 2012-  
May 2013

Oil of 28.5 API and 33 API gravity

Oil cut 2-3%

Surges to 22% and 60%

## Competent Person's Report (CPR)

by Forrest Garb

Dallas Texas, 22 May 2013

## Eblana #1 Testing

Sept 2012 – May 2013



# The Discovery

<u>Resource Category</u>	Estimate (P90)	Estimate (P50)	Estimate (P10)
Eblana #1 Area			
Contingent Recoverable Oil	8,636	19,256	33,513
Oil-In-Place	45,301	107,344	165,286
20 km <sup>2</sup> Core Area			
Prospective Recoverable Oil	11,873	20,189	45,049
Oil-In-Place	61,120	132,060	222,919
Total Prospective 88 km <sup>2</sup>			
Prospective Recoverable	20,138	57,200	683,646
Oil-In-Place	102,342	282,818	3,342,163

# Progress 2013–2014

- Field Development Plan completed;
- Geochemical and Gravity Magnetic Surveys completed and analysed;
- Composite 3D Model identified three well-defined structures on total land area;
- Detailed 12 - month work plan completed, including multi-well drilling programme and new well design;
- Management team expanded to include specialist US expertise;
- Forrest A. Garb & Associates currently undertaking Analog Studies for revised CPR;
- Intensive discussions with potential funding and development partners.

# New survey results

## 2014

New geochemical and other reconnaissance surveys of full 88 km<sup>2</sup> acreage completed:

Anomaly groupings were of 500 acres, 400 acres and 4,400 acres respectively.

The latter is the largest anomaly so far identified.

Strong analogues with producing fields.



# Composite 3D Model

## 3D Model developed:

- Three geologic structures identified
- Complex geology now understood
- Five potential drill locations

# Next steps

**2014 - 2015**

Execute Project 1A:

- Local surveys to finalise targeting
- Drill 3 wells on HC-1
- Decision gates as per Field Development Plan

# Near term objectives

## Objectives:

Move 19.256MMBbls (C50) Contingent Resources to Proved Reserves (est. value \$722.1m).

Commence oil production.

## Timescale:

Q4 2014 begin 3-well drill programme

# The Medium Term

Develop by:

- Further exploiting HC-1 structure
- Defining additional structures



# The Longer Term

Develop by:

- Trade Sale or Farm-out

# Funding Strategy

Multi-faceted approach for optimal solution

All elements currently in evaluation / negotiation:

- Equity
- Bond
- Farm Out

Purpose:

- Move 19.256MMBbls (C50) Contingent Resources to Proved Reserves (est. value \$722.1m).
- Commence oil production.

Timescale:

- Q4 2014 to begin 3-well drill programme

# Management Team

## **Brian McDonnell** - Chief Executive Officer

Brian graduated from Dublin City University with a business studies degree and worked in manufacturing for a number of years before setting up and successfully running his own training company. Brian has extensive experience of bringing large and complex projects to fruition. He has been CEO of U.S. Oil & Gas since it was founded in 2009.

## **Paul O'Callaghan** - Finance

Mr. O'Callaghan, a chartered accountant, was Company Secretary of James Crean, and more recently Financial Director and CEO of FBD Holdings plc.

## **Peter Whelan** - Audit/Remuneration/Contracts

Working in law enforcement, compliance and management in Ireland since 1982, Mr. Whelan has held various roles in the enforcement of criminal, public health, environmental and sea fisheries law. Mr. Whelan has had responsibility for developing, managing, reviewing and renegotiating service contracts across the public service.

## **Karim Akrawi** - Exploration Director

Karim has vast experience of the oil and gas industry worldwide, including the United States. He was Senior Exploration Geologist with Abu Dhabi Company (ADCO) for Onshore Oil Operations from 1980 to 2008, an enterprise currently producing 1.8 million barrels of oil per day. He has also been involved in major discoveries and field development in the United Arab Emirates (UAE) and elsewhere in the Gulf exploration area. His expertise includes formulating well proposals, planning and supervising drilling operations, carrying out geological and feasibility studies, preparing conceptual field development plans, evaluating the economics of well development, estimating probable oil and gas reserves, and risk analysis.

# Core Technical Team

## Soran Talabani, Petroleum Engineer:

Currently President of GTC Global consulting. Over 30 years of international experience in various aspects of the oil industry; Well Logging, Drilling, Drilling Fluids, Cementing, Reservoir & Environmental Engineering. Wide experience in Environmental Engineering, US regulations, slug and spill treatment, patent share in the Hydrolysis Technology. Four years Adjunct Professor at UAE University.

Dr. Talabani earned his MSc and PhD degrees in Petroleum Engineering from New Mexico Institute of Technology in USA. Dr. Talabani is a specialist in Real Time Operation Center (RTOC), Drilling and Formation Evaluation. He has published and presented over 40 research papers and reports.

## David Richers, Geologist /Geochemist:

David has worked for over 30 years in the oil industry, including scientific roles in Marathon International Oil Company, Westinghouse Savannah River Company, and as an Independent Consulting Geologist with EnCana Oil and Gas. He specializes in remote sensing and geochemical prospecting, correlation studies and numerical basin modelling and has worked extensively in Nevada. His BS in geology is from Penn State, his MS in Geochemistry and his PhD in geology and geochemistry is from Univ. of Kentucky.

## Henrik Toft Andersen, Resource Geophysicist/Geologist

Henrik has more than forty years professional experience in the collection, processing and interpretation of ground and airborne geophysical data for a wide range of applications, including: oil and gas exploration; mineral exploration; ground water exploration; and environmental studies. He has been a researcher and teacher at the Colorado School of Mines and has been President and Chief Geophysicist of Aero Surveys Inc, responsible for supervising all geophysical activities including data processing and interpretation and reporting on exploration projects across South America. Henrik has an M.Sc. and Ph.D. in Geophysics from Colorado School of Mines. He has authored/co-authored more than 20 technical papers.

## Serdar Kaya, Reservoir Characterizations:

Senior consultant with an extensive experience in reservoir characterization, geological modeling and various high tech oil and gas field exploration and production applications. Has published several journal and conference papers about innovative modeling approaches for challenging issues. Has successfully trained, mentored and coached many geologist and engineers in reservoir modeling. Holds both MSc and BSc degrees in Petroleum Engineering.



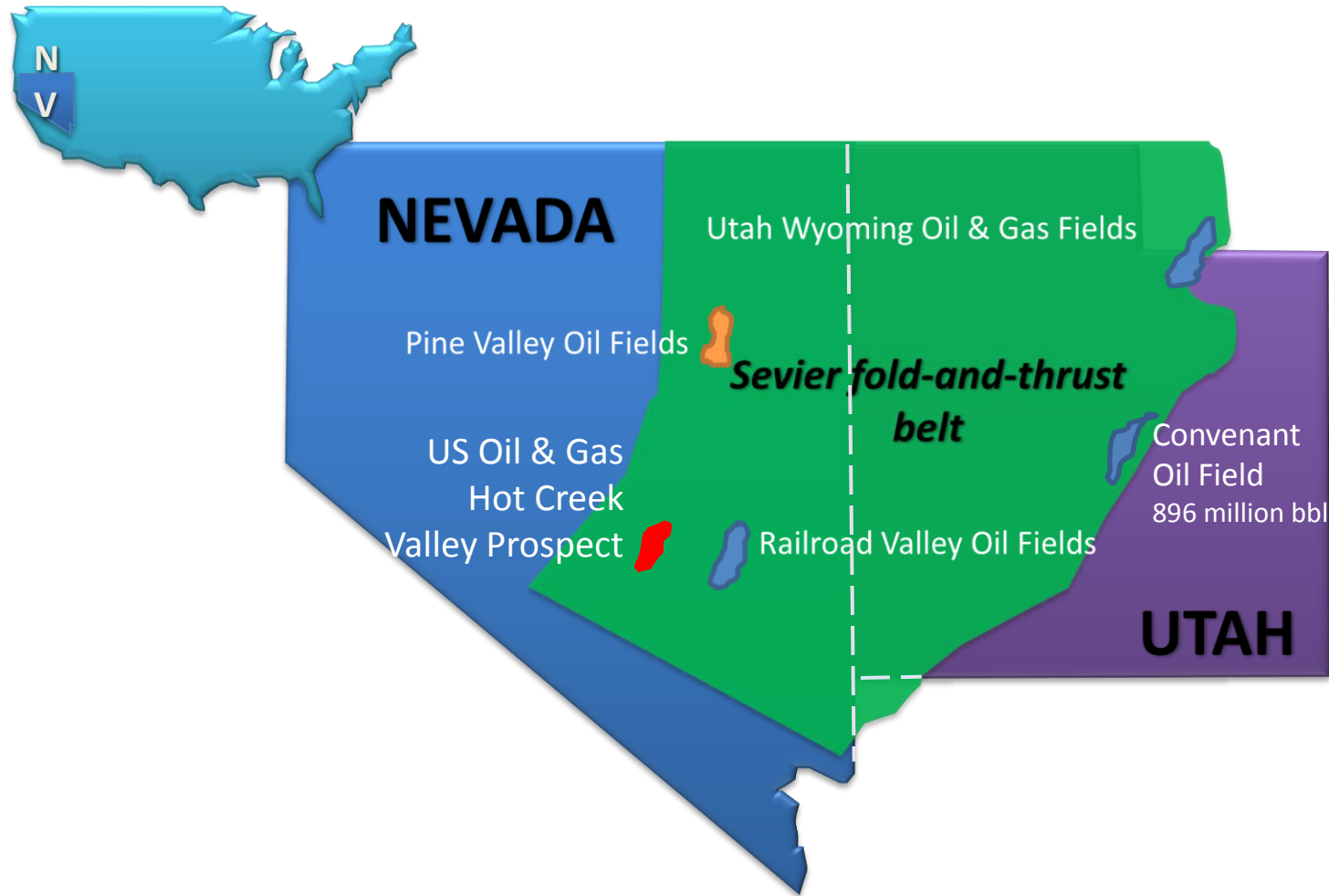
# Evaluation of Eblana-1

## Technical Presentation

By

**Karim Akrawi**

# Mississippian Antler Foreland Basin



# Contents

- **Objectives**
- **New Geochemical-III survey results-2014**
- **Next Steps**
- **Conclusions**

# Objectives

The main objective of this presentation is:

- To update the USOIL shareholders about the recent status and future technical activities in Hot Creek Valley Block - in Nevada.

# Original USOIL Block 20 m<sup>2</sup> (2009)



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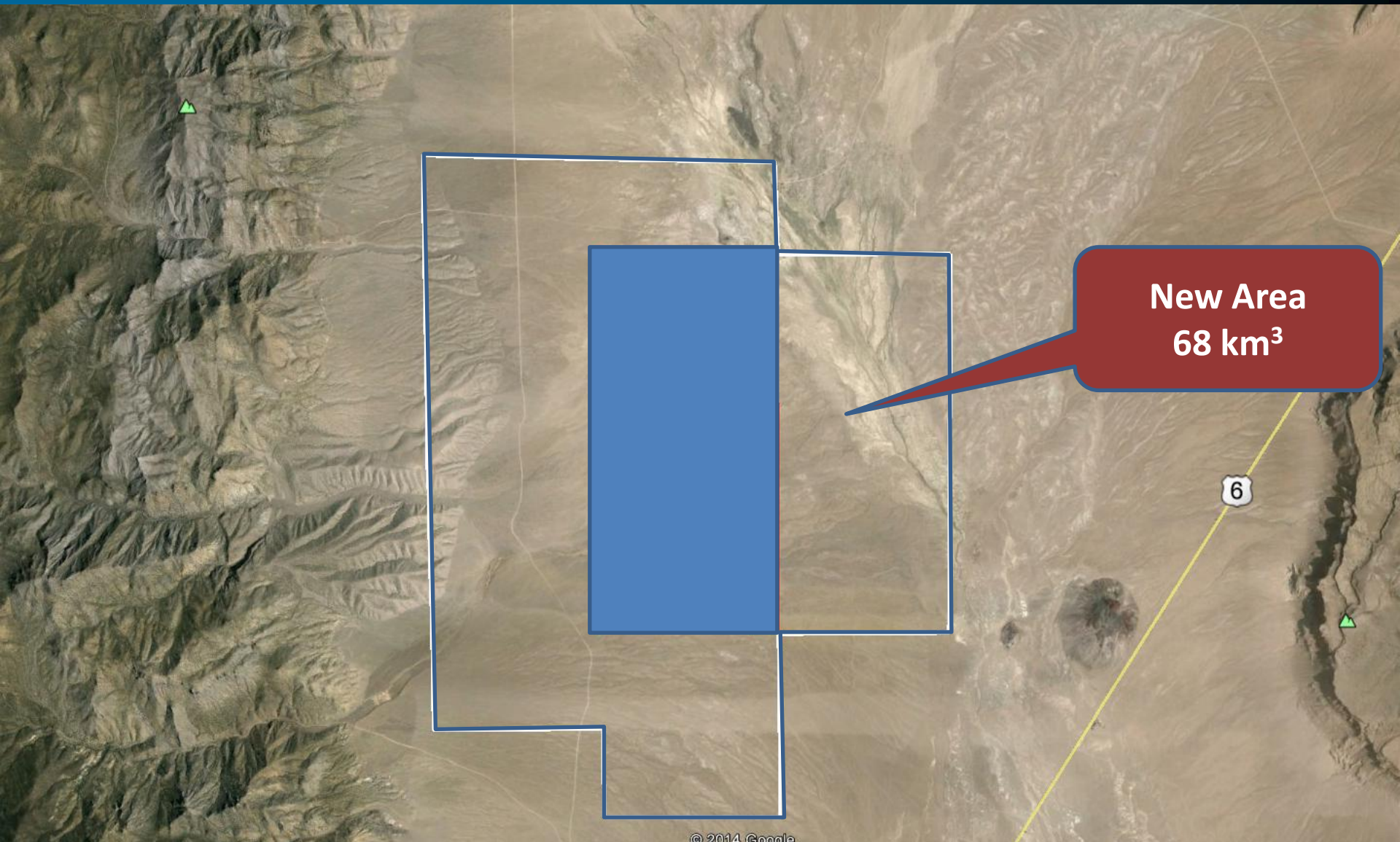


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# Current USOIL Block 88 m<sup>2</sup> (2012)





# New Geochemical-III survey results-2014

Results from the reconnaissance Geochemical & Gravity Surveys of US Oil's before un-surveyed wider lease area confirm that;

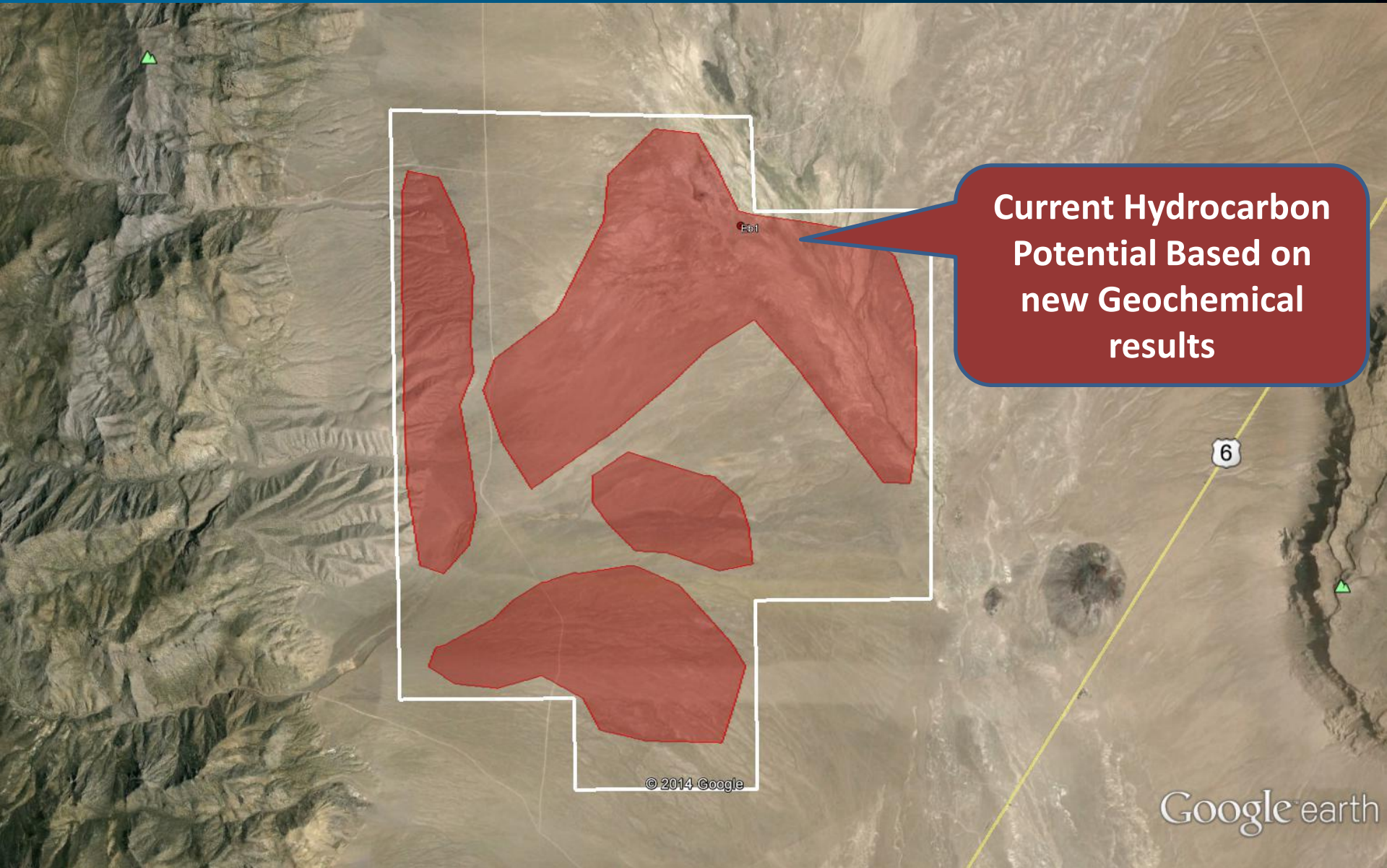
- The oil reservoir previously identified, and targeted by the Eblana-1 well, extends significantly further to South East & South West into the Company's acreage.
- The intersection of the two sets of fault lines shows stronger indications of the presence of hydrocarbons more than does anywhere else on the USOIL acreage.

# New Geochemical-III survey results-2014

**Based on Geochemical-III Survey Results, produced the following Geochemical indicator Maps:**

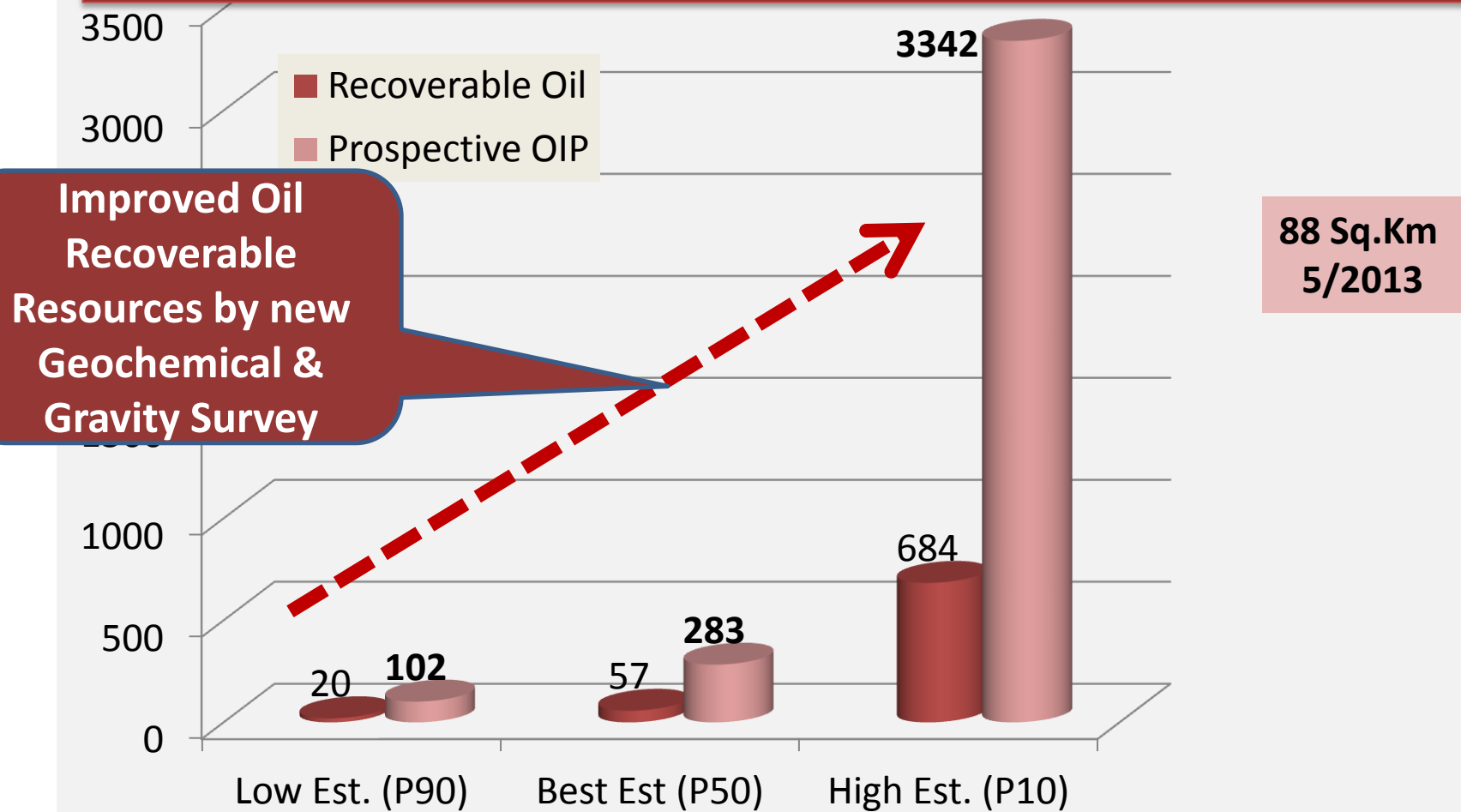
1. Magnetic Susceptibility (MS),
2. High Resolution Soil Spectral Analysis (HRSSA)
3. Conductivity (umhos)
4. Iodine,
5. Hydrocarbons by UV-Vis Spectroscopy
6. HRSSA components L Star
7. HRSSA components A Star
8. HRSSA components B Star
9. Soil Spectral map
10. Thermal Spectral-T
11. Thermatic Spectra

# Potential Hydrocarbon prospects within USOIL Block (Geochemical-III Survey)



Based on FORREST A. GARB & ASSOCIATES, INC.  
(May 2013) after drilling Eb-1 & Acquired additional Acreage

Oil Recoverable Resources & Prospective OIP Estimation (MM-Bbl)



# Next Steps

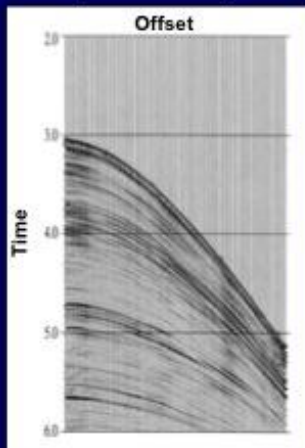
1. Eblana 1 - Run Vertical Seismic Profile (VSP) to evaluate the 3D structure around the well, faults & up-dip direction.
  2. Run 2D or 3D seismic survey over area updip to Eblana 1
  3. Propose/confirm first well (of three) updip to Eblana 1
  4. Drill first of three smart wells
- 
5. 4th Competent Person's Report (CPR) update Reserves Esttimation
  6. Run 2D or 3D seismic survey over entire Block 88 km<sup>3</sup> Structure definition
  7. Acquire Passive Seismic survey over remaining 68 km<sup>3</sup> - (RHI)
  8. Implement Full Field development Plan for entire USOIL Block



# VSP – 3D Seismic Image around well

## From Raw Data to an Image

Field Record  
(marine)



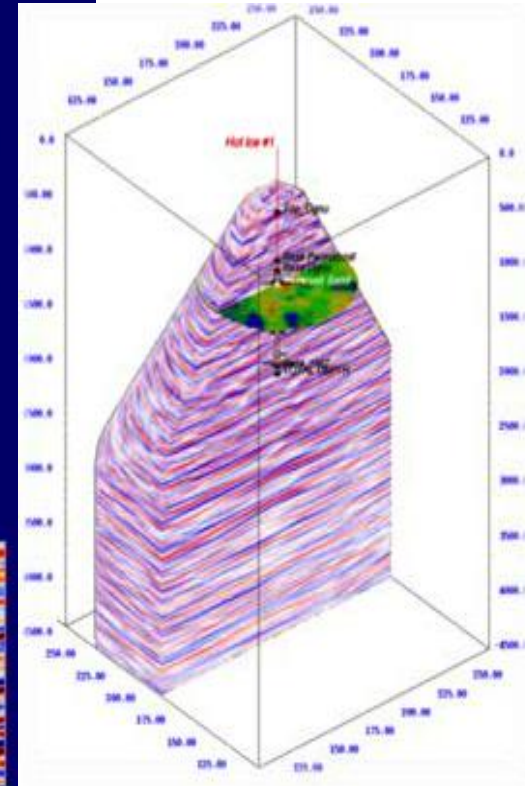
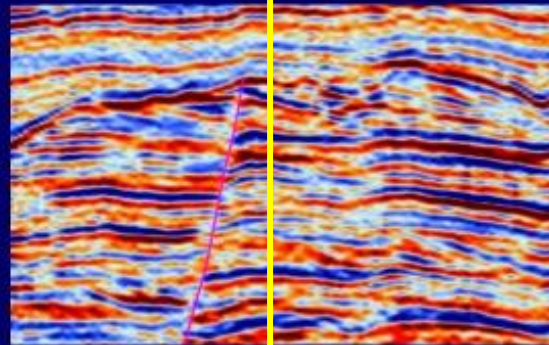
[http://www.lg.utexas.edu/people/staff/mrinal/Results/carlos\\_nn1\\_files/image006.jpg](http://www.lg.utexas.edu/people/staff/mrinal/Results/carlos_nn1_files/image006.jpg)



Data Processing  
Stream



Subsurface  
'Image'



Courtesy of ExxonMobil

F W Schroeder ' 04

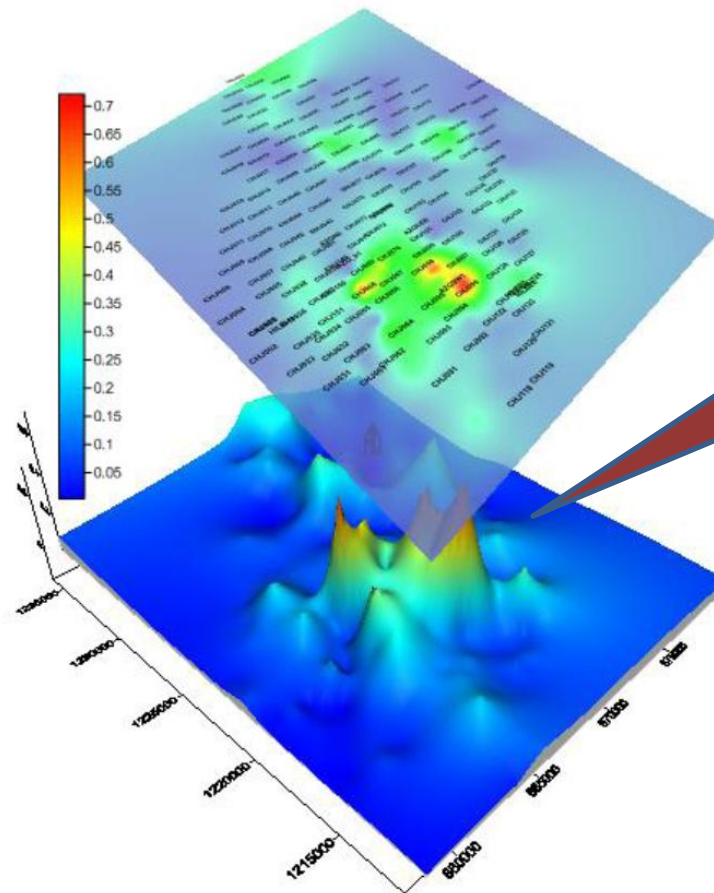
L 3 - Types of Data



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# Passive Seismic Survey Program to cover remaining 68 km<sup>3</sup>



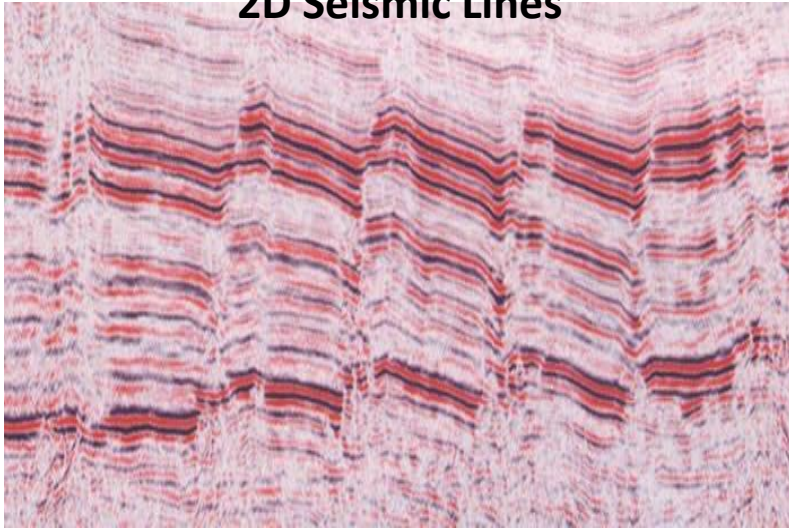
Passive Seismic  
Survey over 68 km<sup>3</sup>  
(RHI)



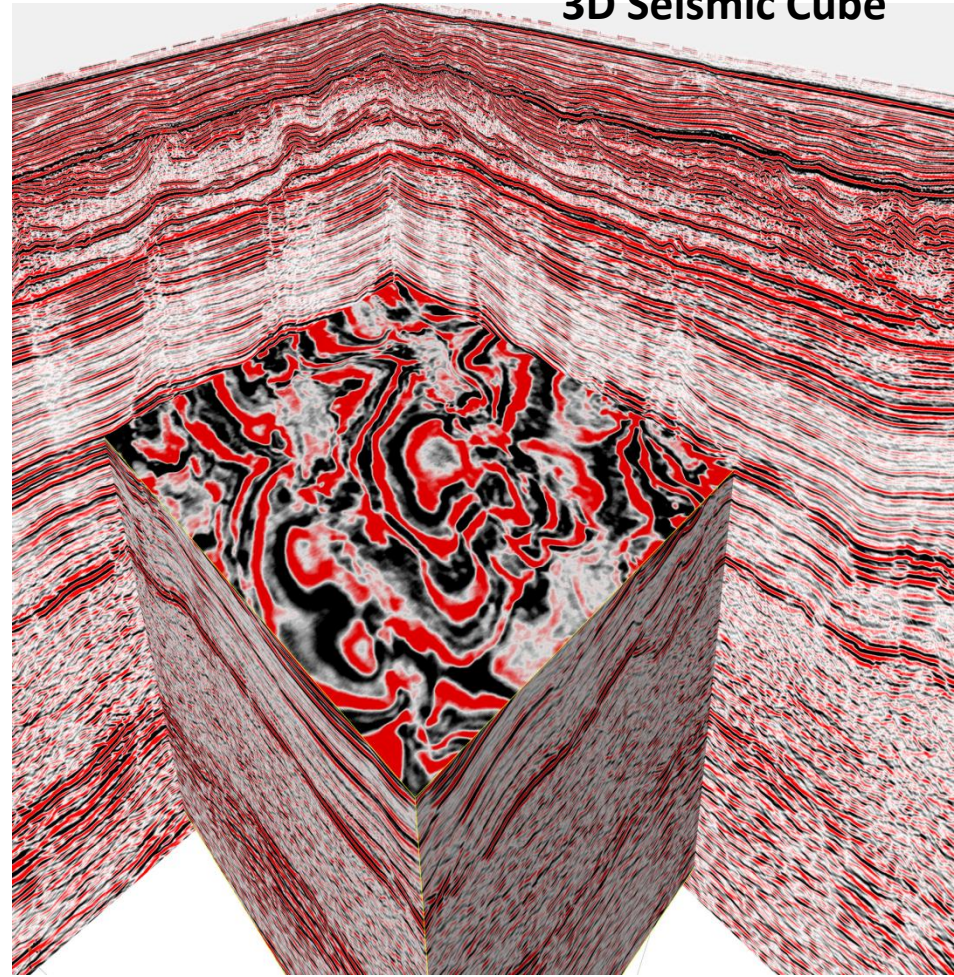


# 2D or 3D Seismic Survey Programme

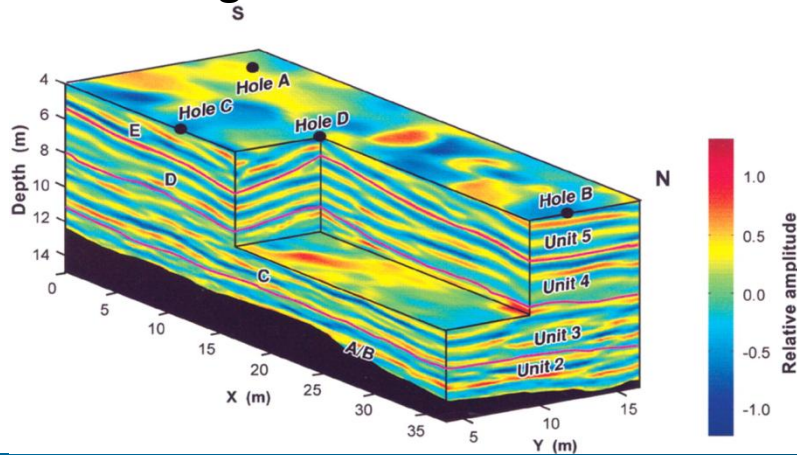
2D Seismic Lines



3D Seismic Cube

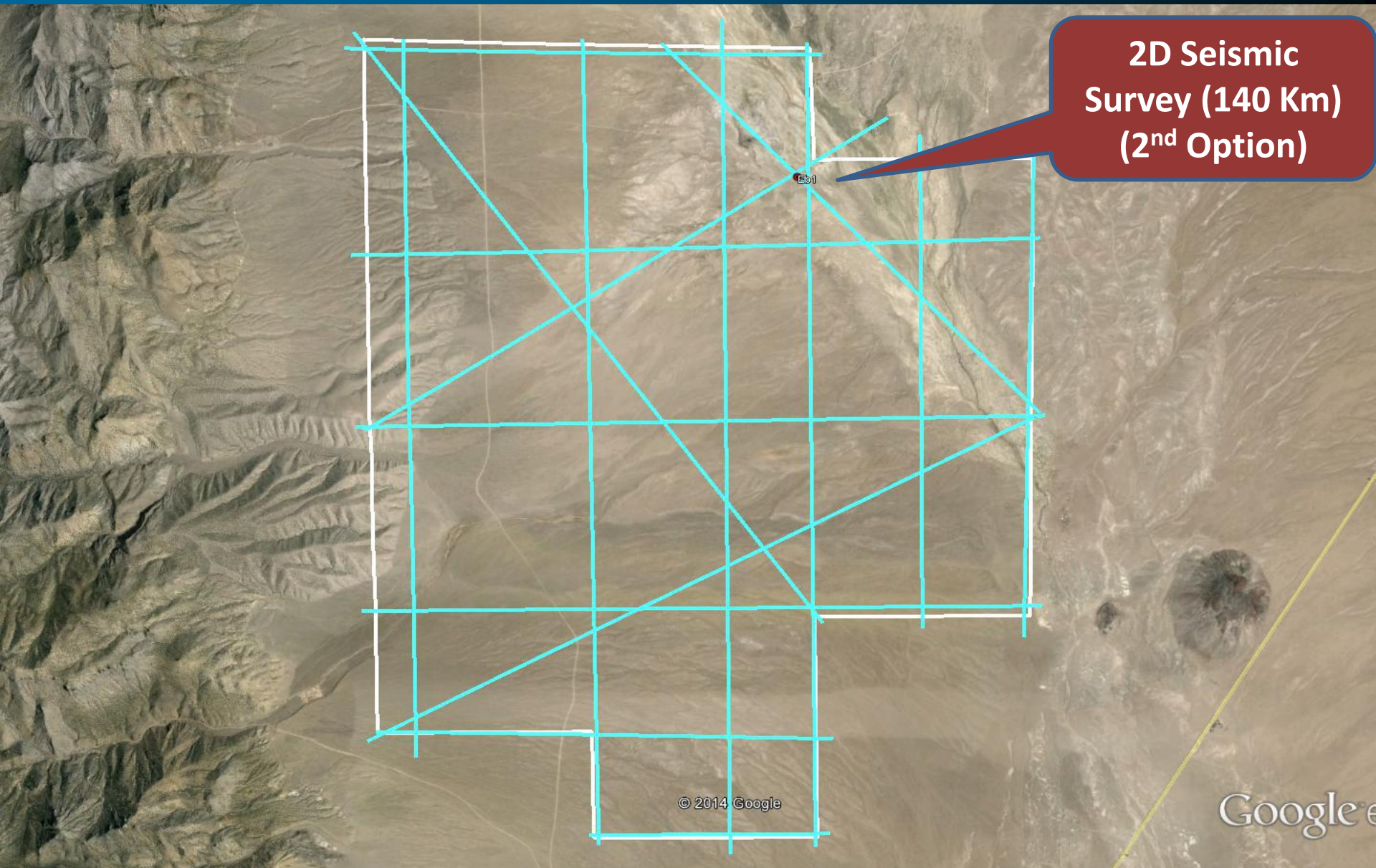


3D Geological & Reservoir Model



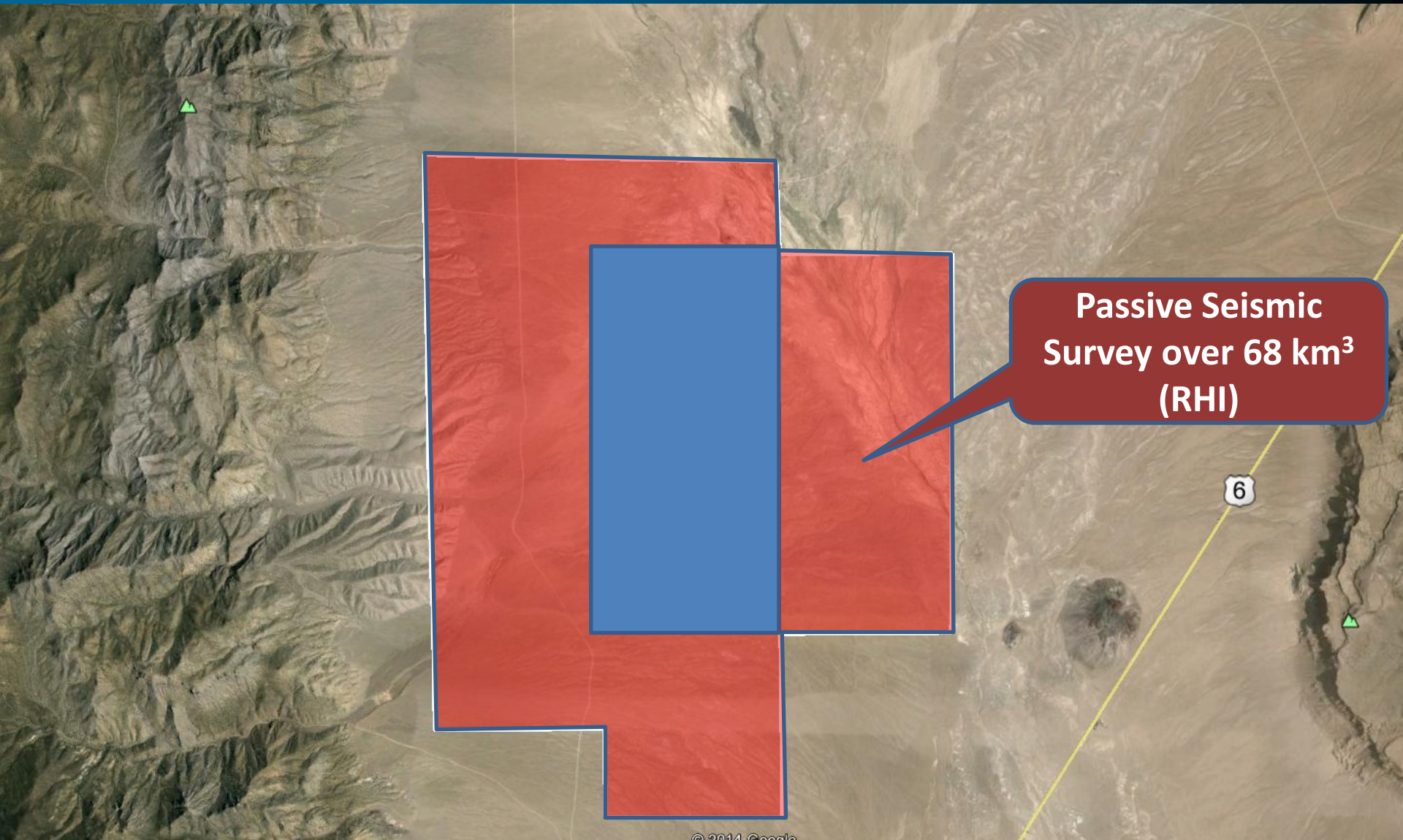


# 2D Seismic Survey Programme



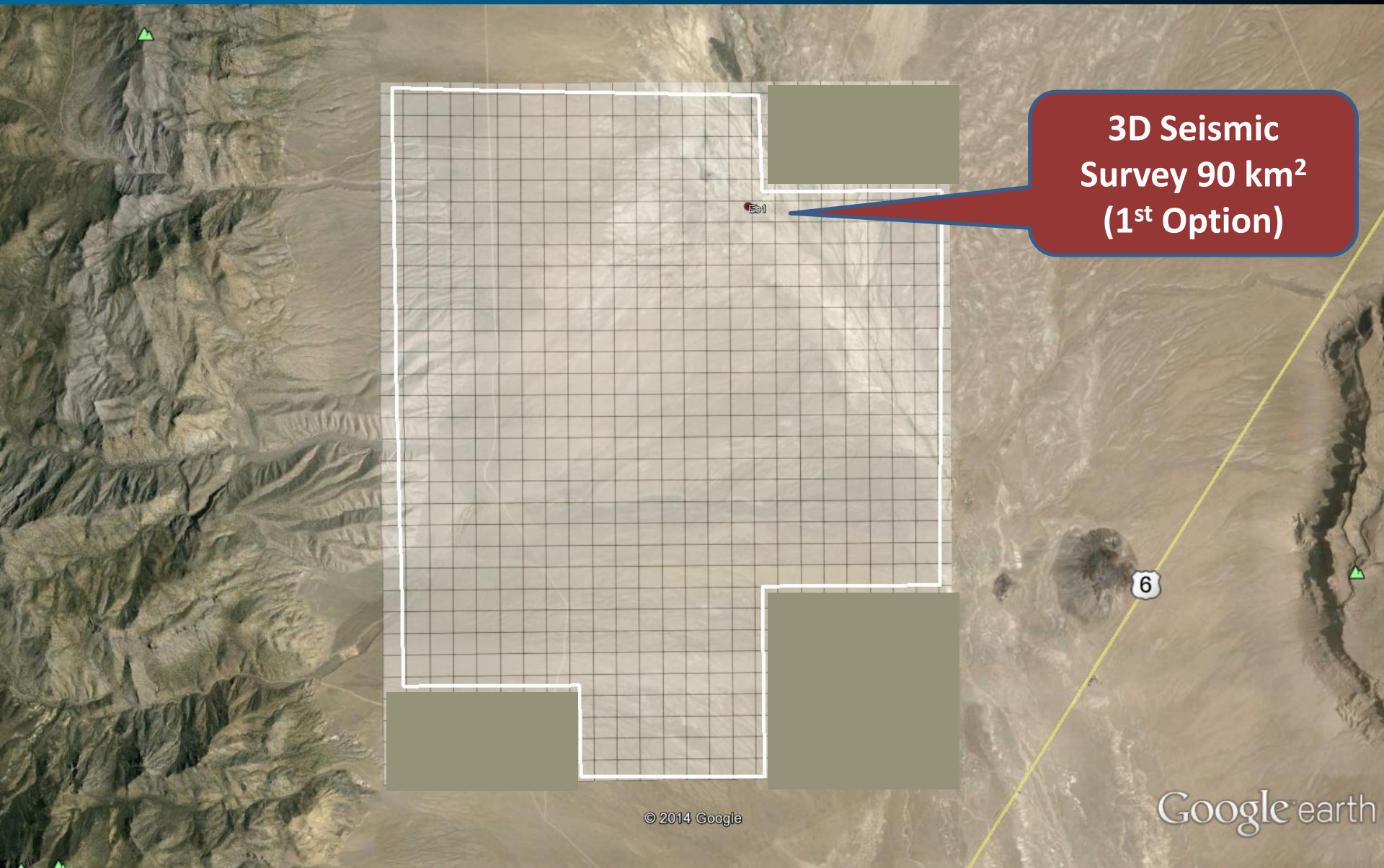


# Passive Seismic Survey Program to cover remaining 68 km<sup>3</sup>





# 3D Seismic Survey Programme



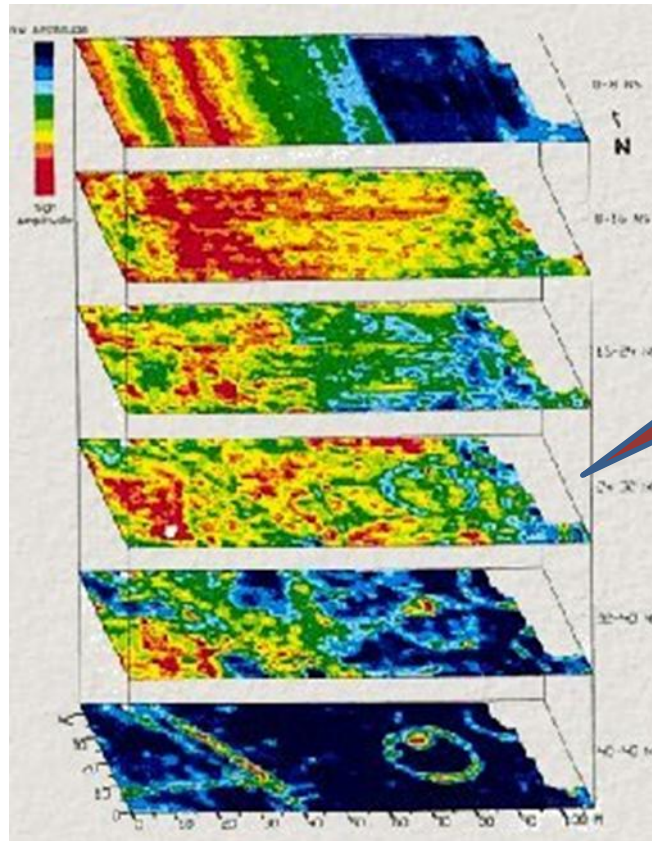
3D Seismic  
Survey 90 km<sup>2</sup>  
(1<sup>st</sup> Option)



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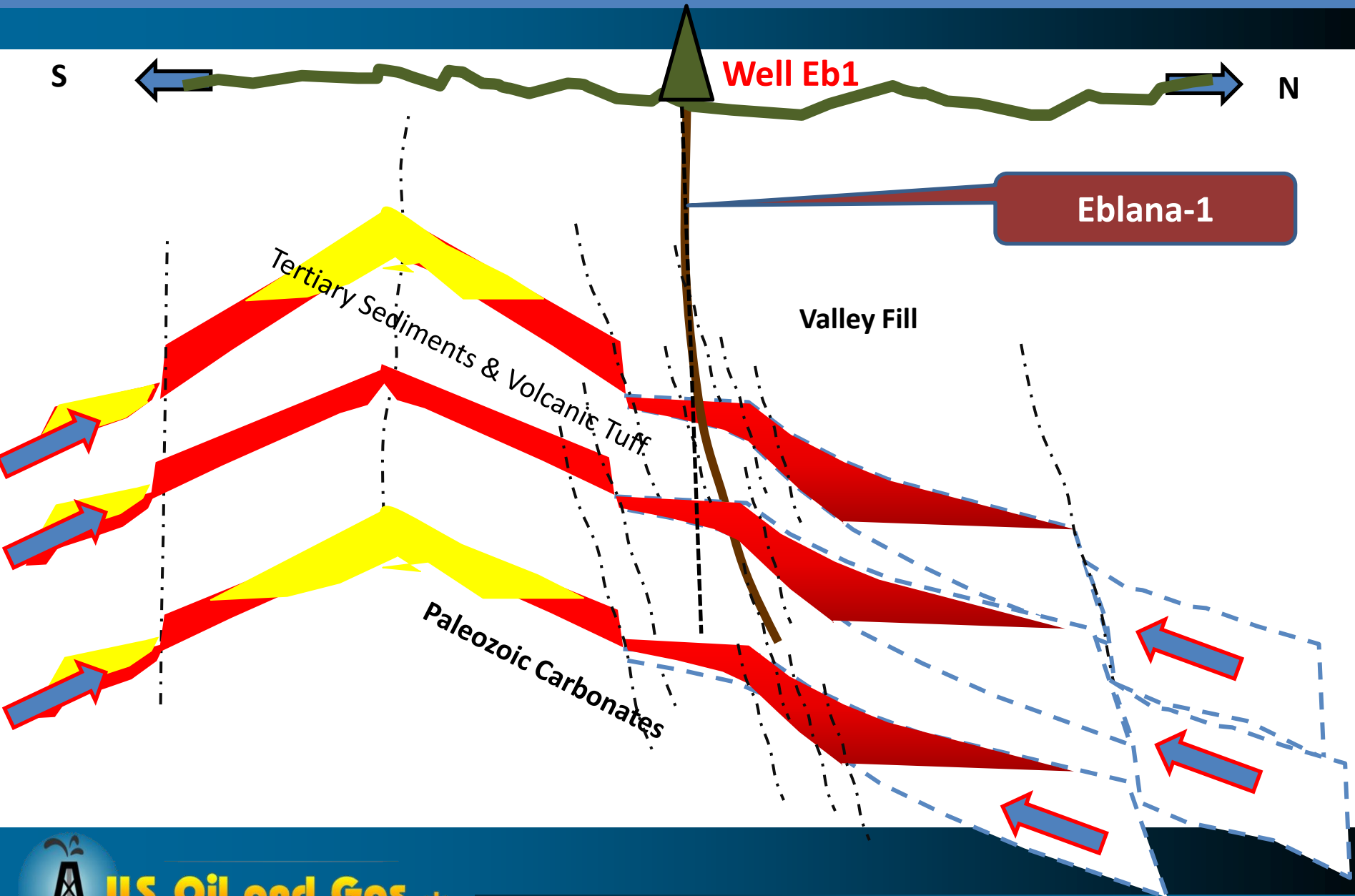
# Data Integration for all available technical Information



**Integrate All  
Surveys Data in  
one System**



# Generalized South-North Cross-section of Hot Creek Valley - Eblana Field





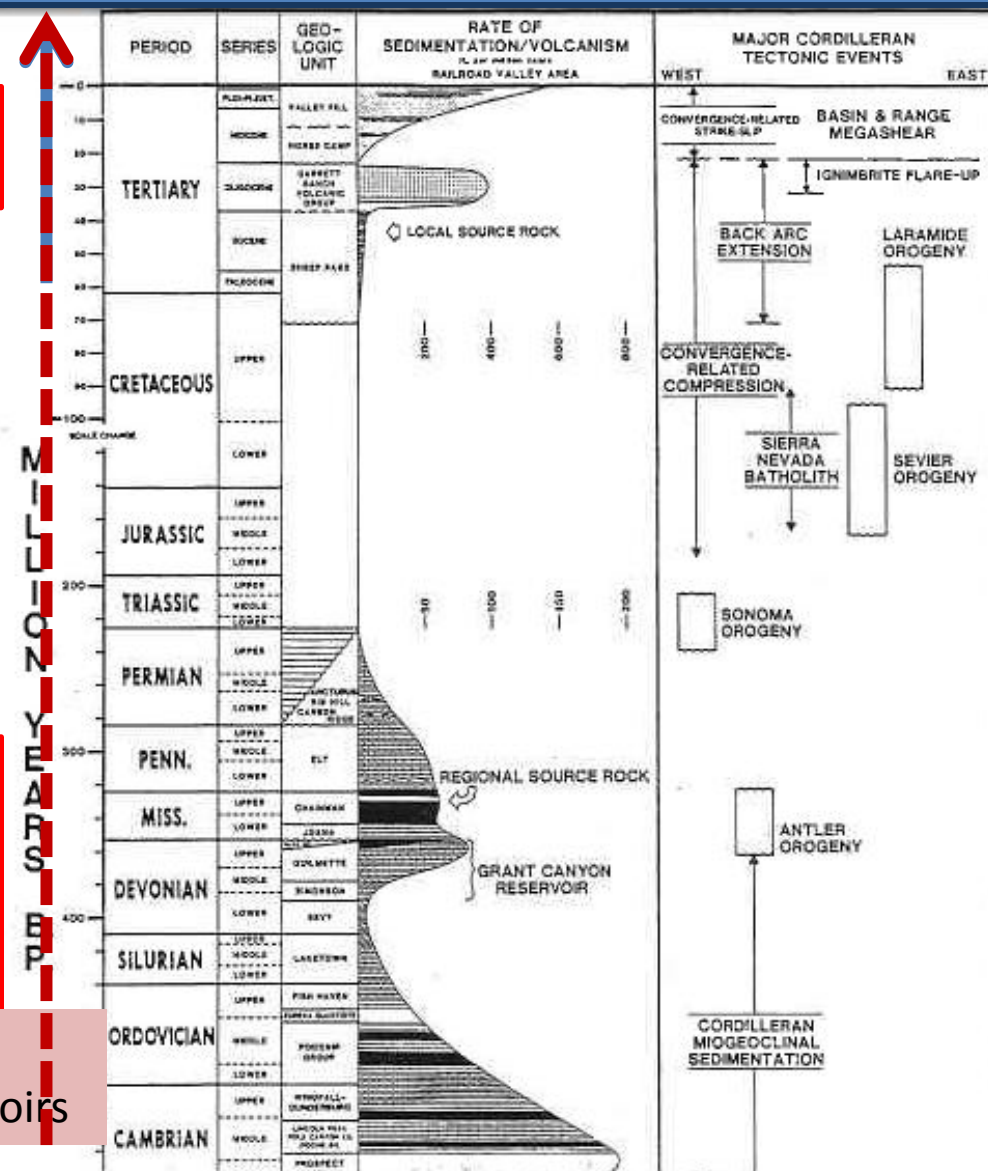
# Stratigraphic Section & Petroleum System Summary

## Tertiary Reservoirs

Eb-1 penetrated & Oil discovered in Tertiary Reservoirs only

## Paleozoic Reservoirs & Source Rock

Eb-2 Smart well objective is to penetrate Paleozoic Reservoirs





# Smart well Design Specifications

## Smart Well Completion; Some Key Elements;

- Production inflow control for individual production zone
- Smart well equipment could have the potential to choke back
- Sensors allowing to monitor parameters & Control; by Selecting Multiple Zones, Pressure, Temperature, Flow Rate, Water cut, Oil, Gas ETC.
- Able to drill multi lateral wells and horizontal hole
- Can increase the potential production well profile, impact net present value, for long run it's more economical and profitable

# Eblana-1 (well status)

- 14' cond. Pipe @ 40'
- 9 5/8" Casing Shoe @ 764'

- Run logs down to 1,717'

- **Oil flow zone 6,377 – 6,436 ft (33 API)**

- **Oil Flow zone 7,010 – 7,066 ft (28.5 API)**

- Cemented from bottom up to 7,600 ft

- Run through drill pipe RPM & C/O Logs @ 8,000',
- Run through casing RPM & C/O Logs @ 8,270',

- Run 5 1/5" Casing Shoe @ 8,550',

Hydrocarbon Shows  
while drilling and logs -  
From 2,948" down 8,550 "

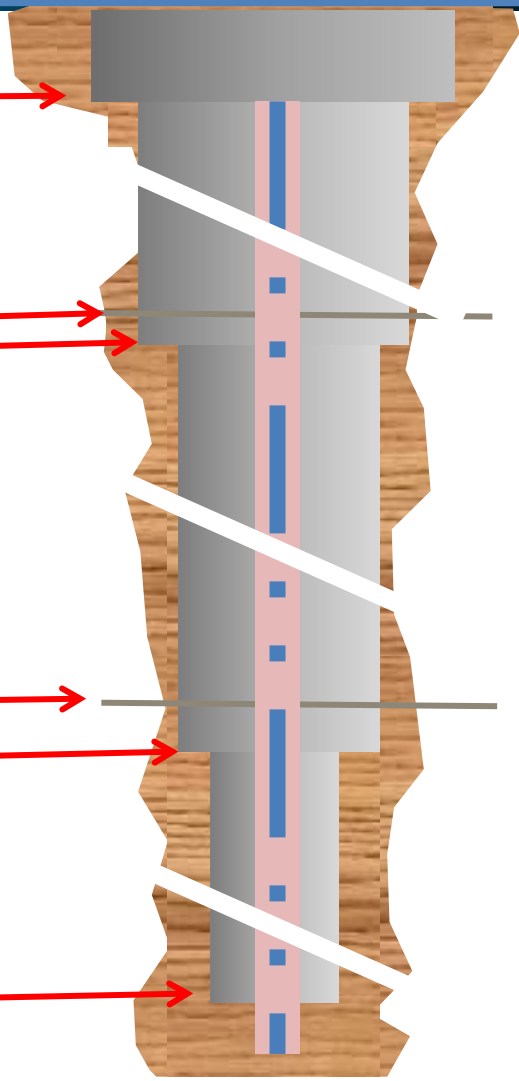
- While testing Run
- Hydraulic Pump

Production Testing  
concentrating from 6377  
to 7250 ft which flowed  
light oil to surface with  
water cut

## Cement status:

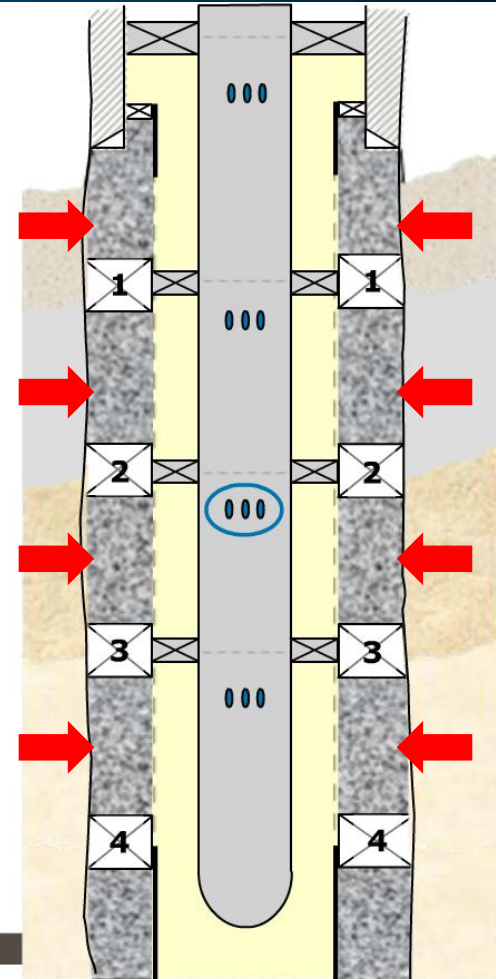
- Run CBL log down to 8,270"  
Good cement from 8,270 up to  
surface"
- Total depth @ 8,550',

# Eblana-2 Drilling Programme (Smart well Design)

- 17' cond. Pipe @ 220'
  - Top Tertiary Volcanic & Valley full sediments @ 2,400'
  - 13 3/8" Casing Shoe @ 2,500'
  - Top Paleozoic Carbonates @ 8,500'
  - 9 5/8" Casing Shoe @ 8,600'
  - 7" Casing Shoe @ 10,000'
  - Total Depth @ 13,000'
- 

# Eblana-2 (Smart well Design)

- Upper, Middle and Lower Assembly
- Infinitely Variable Choke



StatoilHydro



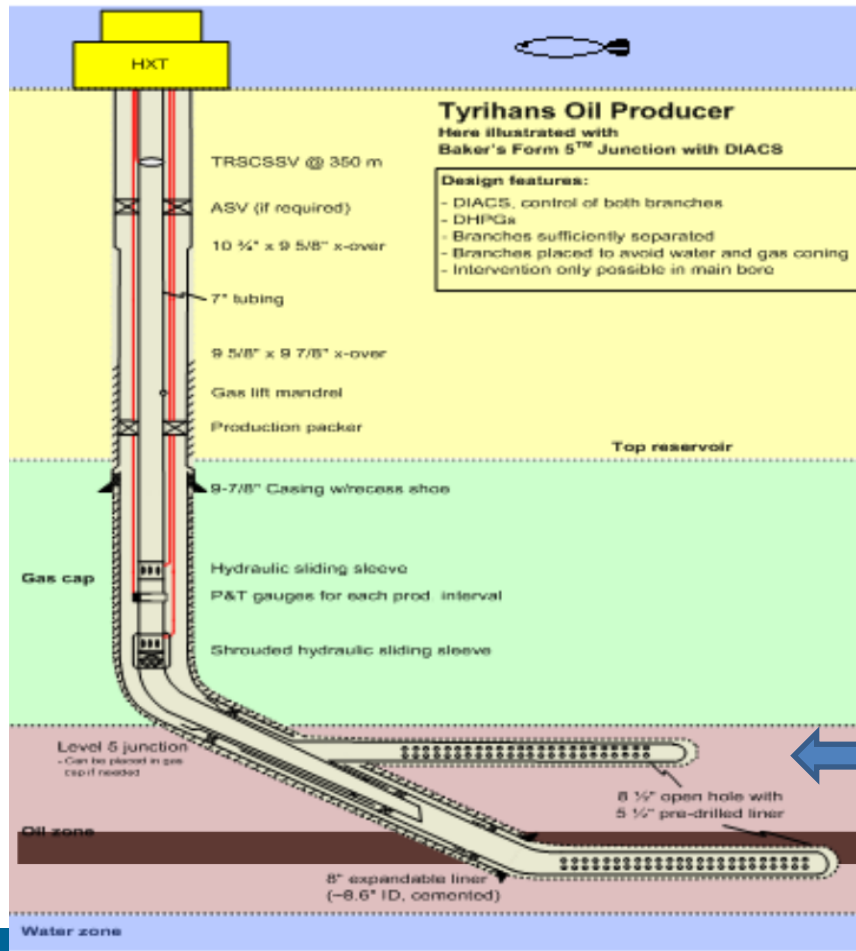
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# Eblana-2 (Smart well Design) lateral wells

28

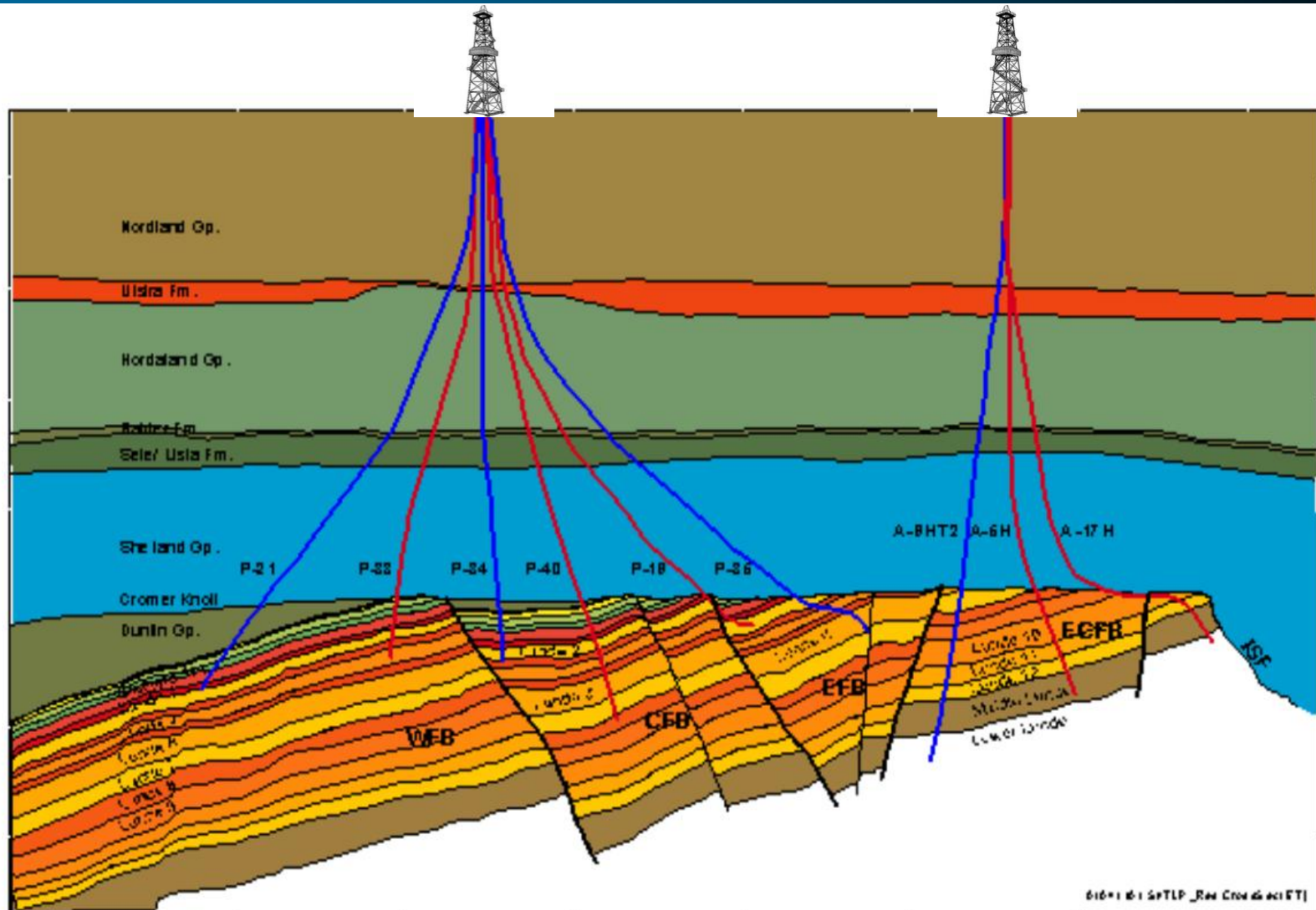
## Tyrihans, an example of a multi lateral oil producer



- Multi laterals with individual flow control.
- Increased reservoir contact to minimize gas and water coning.
- Installation of gas lift to aid production at start up and to increase oil production at high water cuts.

StatoilHydro

# Development plan for Design Smart Multi lateral wells



# Conclusions





# Conclusions

- ✓ We are improving our understand Nevada oil system by reducing technical uncertainties
- ✓ USOIL during the last one year; performed successfully ten studies and surveys,
- ✓ Identified and delineated new extensional potential areas within 88 sq.km
- ✓ Improved & increased current oil recoverable resources within 88 sq.km
- ✓ To finalize the 3D earth Model, Plan to run Well VSP, Passive Seismic, 2D/3D Seismic
- ✓ The Plan is to drill three smart wells
- ✓ Confirmed that the oil system exists in Hot Creek Valley (Cap Rock, Source Rock, Reservoir Rock and Traps).
- ✓ Based on Eb-1 well results & new surveys, we have better understand Hot Creek valley – Nevada geology and reservoir modelling, production and fluid behaviour.
- ✓ The new technical data and results will help to reduce uncertainties, minimize risk & reduce cost \$/B. lead to Build full field development plan.
- ✓ We moved oil resources from Prospective Resources to Contingent Resources classification  
This step is adding value to the project economy and also to shareholder value.

# Acknowledgement to Senior Management & Technical Team

- **Brian McDonnell** - Chief Executive Officer
- **Paul O'Callaghan** - Finance
- **Peter Whelan** - Audit / Remuneration / Contracts
- **Karim Akrawi** - Exploration Director / Petroleum Geologist
- **Soran Talabani** - Petroleum Engineer / Drilling Engineer
- **David Richers** - Geologist / Geochemist
- **Henrik Toft Andersen** - Resource Geophysicist/Geologist
- **Serdar Kaya** - Reservoir Characterizations Engineer
- **Jim Fausnaugh** - Geologist / Geochemist

Expanded Technical Team

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Expanded Technical Team

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- business plans and strategies of US Oil & Gas;
- operating or technical difficulties in connection with drilling or development activities;
- availability and costs associated with inputs and labour;
- the speculative nature of oil exploration and development;
- diminishing quantities or quality of reserves;
- synergies and financial impact of completed acquisitions;
- the benefits of the acquisitions and the development potential of properties of US Oil & Gas
- the future price of oil;
- supply and demand for oil;
- the estimation of reserves;
- the realization of reserve estimates;
- costs of production and projections of costs;
- success of exploration activities;
- capital expenditure programs and the timing and method of financing thereof;
- the ability of US Oil & Gas to achieve drilling success consistent with management’s expectations;
- net present values of future net revenues from reserves;
- expected levels of royalty rates, operating costs, general and administrative costs, costs of services and other costs and expenses;
- expectations regarding the ability to raise capital and to add to reserves through acquisitions,
- assessments of the value of acquisitions and exploration and development programs;
- geological, technical, drilling and processing problems;
- treatment under governmental regulatory regimes and tax laws.

All statements other than statements of historical fact are forward-looking statements

# Thank You



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