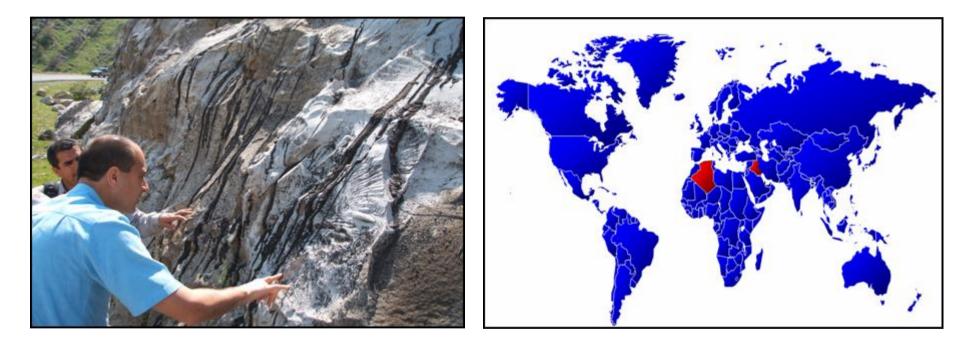
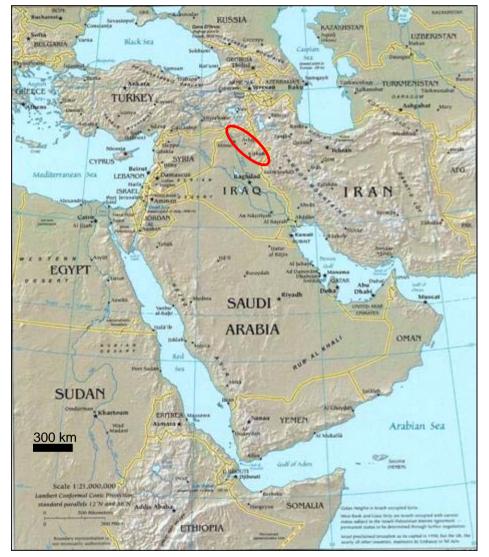


# Gulf Keystone Petroleum Investor Presentation: Entry into Kurdistan



7<sup>th</sup> November 2007



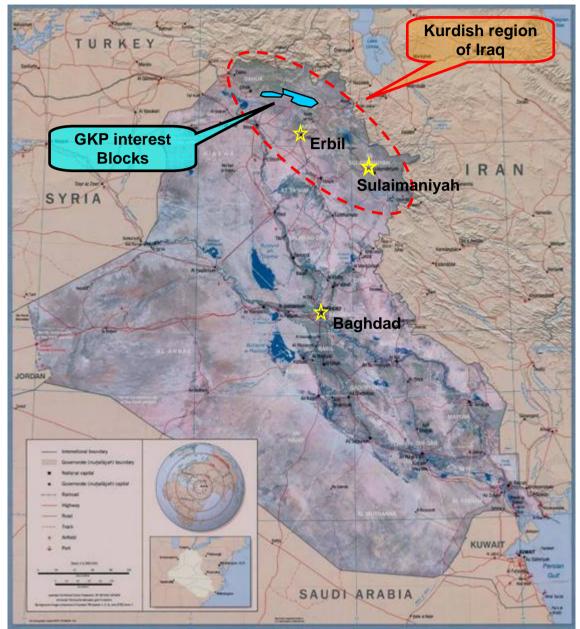


Map Source: Middle East Reference Map U.S. Central Intelligence Agency, 2004

- Kurdistan Region is located in the North eastern part of Iraq
- Approx 400 km x 120 km
- Autonomous since 1992 having its own constitution, parliament, independent judiciary, military, and secured boundaries
- It has a unified cabinet (KDP and PUK and minor parties) since early 2006
- The only constitutionally recognised Region of Iraq under the 2005 Iraq Constitution
- Draft Federal Revenue sharing law agreed in June 2007: not yet enacted
- Kurdistan Petroleum Law August 2007 defers to and is compliant with Iraq Constitution permitting PSAs in the Kurdistan Region

# Kurdistan : Geography



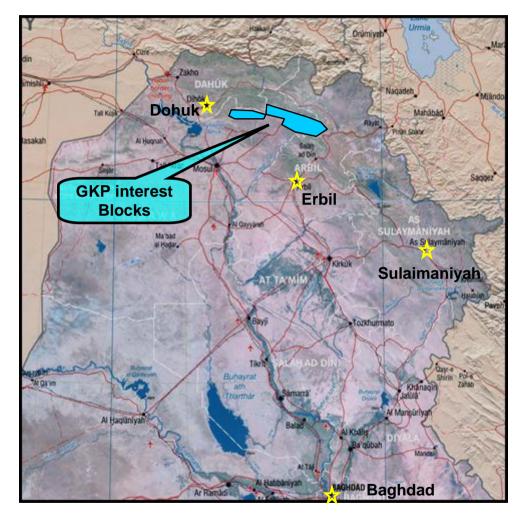


Map Source: Iraq: Country Profile, 2003. The outline of the Kurdish region of Iraq is meant to be indicative

- South-western part of Kurdistan is flat – the northern and eastern area is progressively more mountainous
- GKP interest blocks are in the low lying foothills – easily accessible
- Very hot in the summer / south
  snow in the hills in winter
- Language is Kurdish / Arabic / English
- Abundant water Tigris and its tributaries







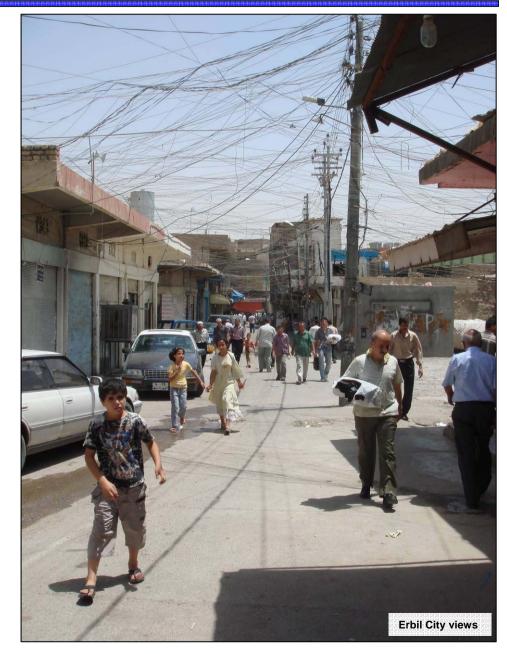
- Increasingly prosperous population: estimated at about 5 million
- Stable security situation compared to other regions of Iraq
- Liberal and open door investment law
- Regulated Banking & Finance sector
- Two new international airports
- Local mobile networks and high speed internet connection
- Two 4/5 star hotels and more being built
- A number of modern housing developments and schools under construction
- 5 Universities and returning Diaspora
- Cross industry investment opportunities

# Kurdistan : Under-developed region. In need of investment







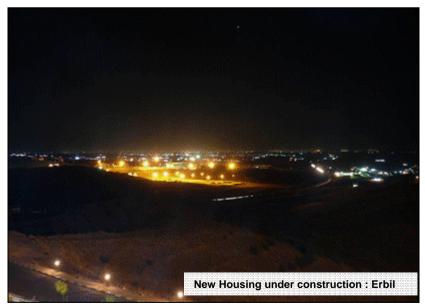


# Kurdistan : Development is in progress





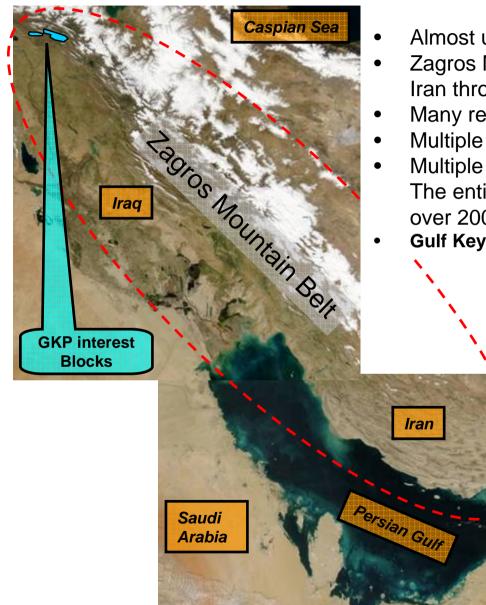












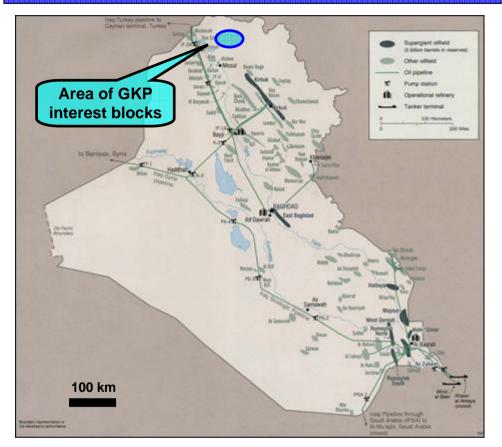


Images courtesy of Nasa Visible earth http://visibleearth.nasa.gov

- Almost unique combination of geologic factors
- Zagros Mountain Belt 1800 km long. Extending from Iran through Iraq to south-east Turkey
- Many relatively 'simple' structures that contain oil & gas
- Multiple source rocks exist for the generation of oil
- Multiple reservoirs some of which are highly productive The entire Zagros Mountain Belt could possibly contain over 200 billion barrels of oil reserves
- Gulf Keystone now has two licenses in this region

# Why Kurdistan / Iraq?

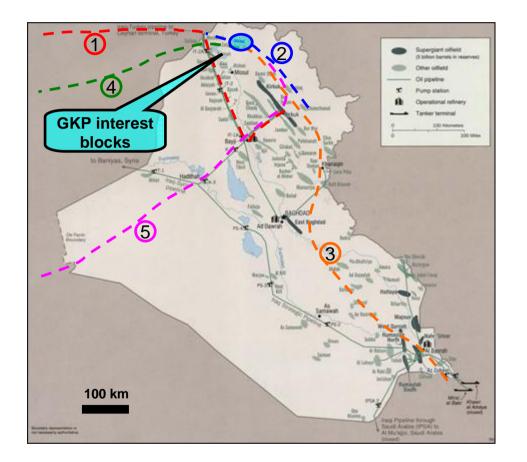




- Worlds 2nd largest conventional oil reserves
- Significant discontinuity sanctions, wars
- Limited oil & gas activity in last 30 years
- Many un-drilled surface structures
- Over 80 fields discovered in Iraq only around 15 put on long term production
- In the Kurdish Region of Iraq there have been less than 20 wells drilled (until the recent entry of DNO / Addax)
- Multiple surface structures are evident from mapping in the Kurdistan Region of Iraq

Perhaps the last significant, accessible, onshore hydrocarbon province in the world that's yet to be properly explored



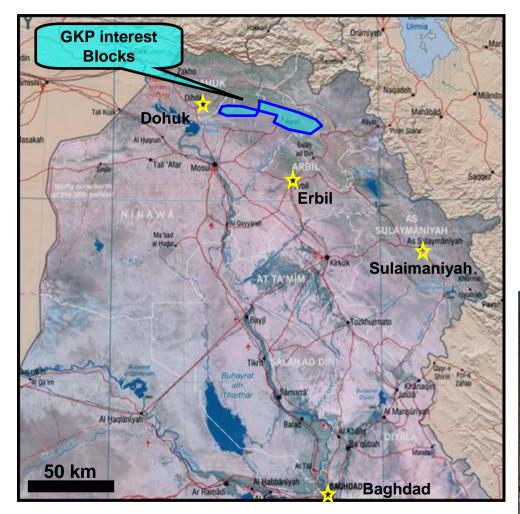


## Possible export routes

- 1. Via existing main Kirkuk line through Turkey (-----)?
- 2. New line through / from Kurdistan via Turkey (-----)?
- 3. To the south via the Persian Gulf (-----)?
- 4. Via Syria (-----)?
- 5. Via Jordan (-----)?
- 6. Local market growing but limited

# A number of different export routes exist to get oil from Iraq to international markets

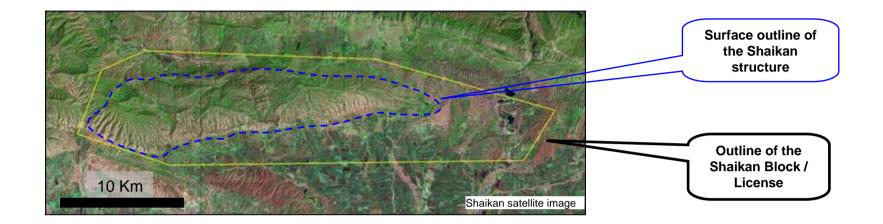




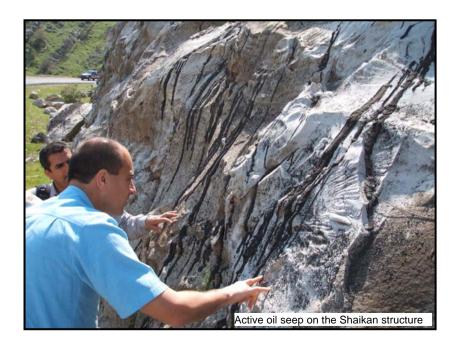
- GKP have signed one block as operator and entered as a partner into a second block with MOL – the two blocks are adjacent
- GKP interest blocks are c. 90 km NW of Erbil and c. 50-80 km from the Turkish border
- Erbil is 320 km NNW of Baghdad





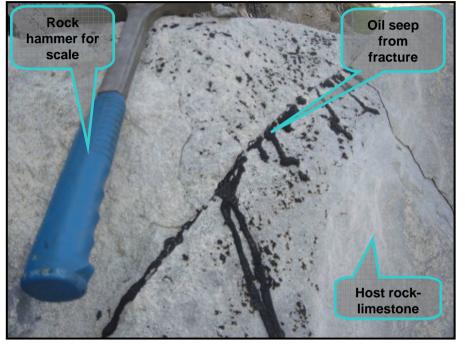


- Established & registered local GKP office in Erbil
- Field visits to Shaikan & Akri-Bijeel region
- Purchase of detailed geological maps
- Oil seep analysis & geochemistry
- Purchase of satellite image data
- Geological field traverses using local geologists
- 2D seismic planning underway



## Shaikan : Active Oil Seep on the structure



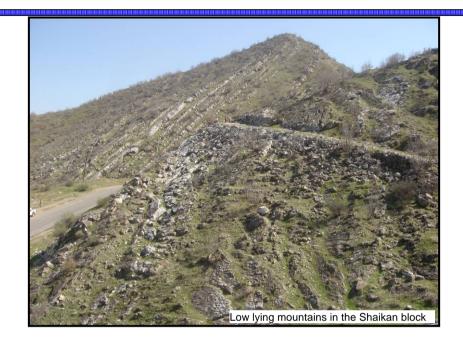


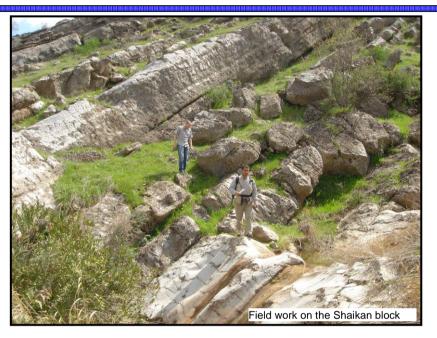
Active oil seep (oil is black) on the Shaikan structure seeping from fractures and pores in the host rock (white)

- Oil seepage within surface limestone beds
- Seasonal flows / oozes when temperature allows
- Oil seeps both from fractures and vugs in the host rock
- Freshly broken samples of the host rock are saturated with oil and even burn when lit.
- Presence of oil at the surface helps to de-risk the prospect with respect to hydrocarbon charge and access
- Geochemical analysis of samples indicates that the oil has been sourced from a deeper regional source rock

# Shaikhan : Initial fieldwork undertaken







### Phase 1 Fieldwork

- Logging of road cut section by geologists from the local Saladin University
- Composite Log detailing the stratigraphy, lithology, environment of deposition (with thin section from key horizons)

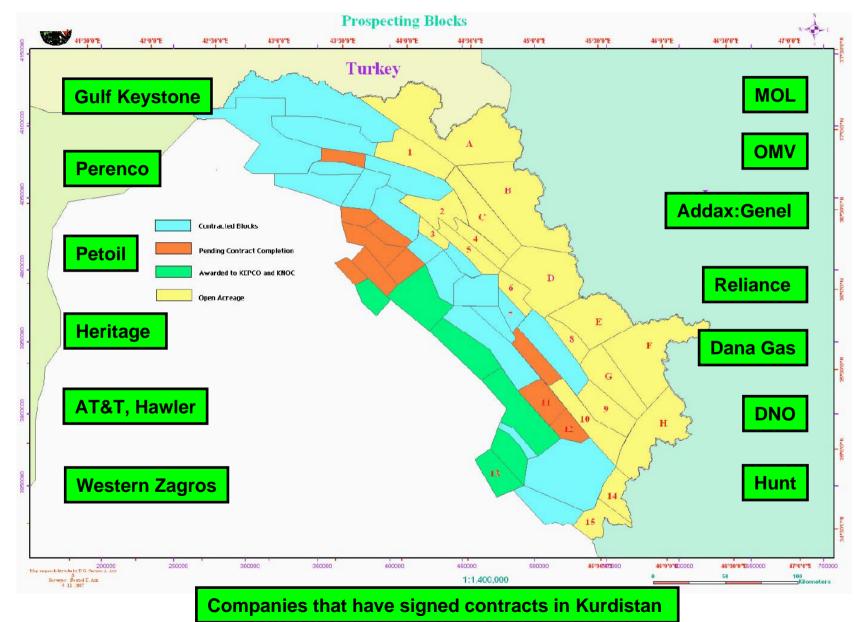
### **Phase 2 Fieldwork**

• Geological traverses over Shaikan planned for Q1 2008 utilising high resolution 'Quick Bird' satellite images and 1:100,000 Geological Maps

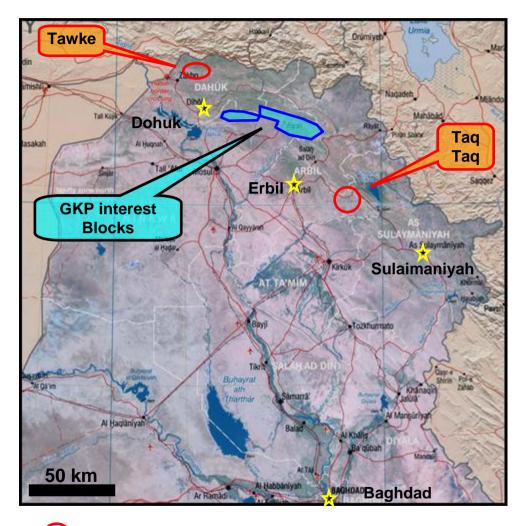
GKPs initial fieldwork has improved our understanding of the technical aspects of the block / structure

# Block map formally announced by KRG 6<sup>th</sup> November 2007









Approx location of other companies assets (not to scale)

#### Tawke Field

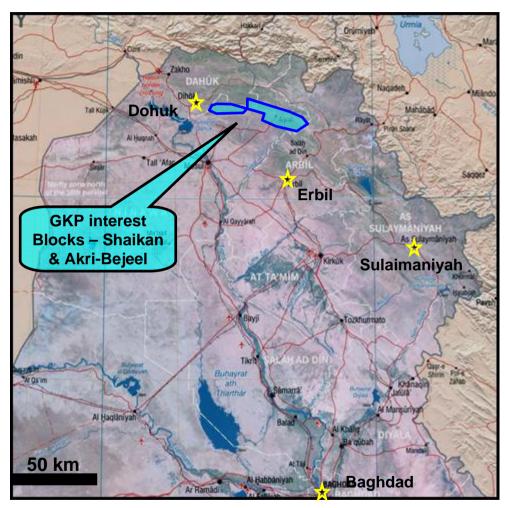
- PSA signed 2004
- Operating in Northern Kurdistan for 3 years
- Acquired 2D & 3D seismic
- Newly discovered Tawke field, number of different reservoirs, 8 wells drilled to date
- Tawke-8 well aggregate test rate of 20,500 bopd
- 42 km 12" pipeline to Turkey completed
- Central Processing facility completed
- Commenced early production and field development

### Taq Taq Field

- New activity started in late 2005
- Acquired 2D & 3D seismic
- Drilled 6/7 wells, at least 3 different reservoir zones
- Aggregate flow rates from the Taq Taq-4 & Taq Taq-7 wells were 29,700 & 37,760 bopd respectively

DNO & Addax have been successful & are enjoying the benefits of 1<sup>st</sup> mover advantage





#### Shaikan Block

Gulf Keystone (Operator - 75%) MOL (Kalegran) (20%) Texas Keystone (5%) <u>Anticipated work program</u> 100 km 2D seismic 1 exploration well 3 year exploration phase 25 year PSC duration

#### Akri-Bejeel Block

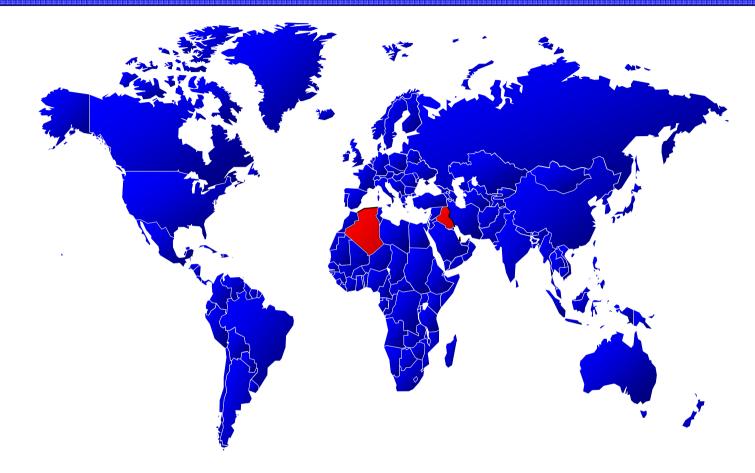
MOL (Kalegran) – (Operator - 80%) Gulf Keystone (20%) <u>Anticipated work program</u> 200 km 2D seismic 1 exploration well 3 year exploration phase 25 year PSC duration

Gulf Keystone's expected total expenditure for these two blocks over the next three years, given its current interests, is approximately US\$53 million, the majority of which is expected to be incurred over the next six months. This estimate includes GKP's share of general and administration costs, seismic acquisition and processing, drilling costs and initial signature bonuses.

GKP has secured interests in 2 blocks both of which have visible surface structures Map Source: Irag: Country Profile, 2003

# **Gulf Keystones 1<sup>st</sup> international venture outside Algeria**





Kurdistan is a good place to invest, an emerging economy It is a world class hydrocarbon province GKP have captured interests in two licenses in Kurdistan