

TEHRAN SUMMIT

The Introduction of New Iran Petroleum Contracts – IPC

Tehran – ۲۰۱۵

Investment Opportunities In Iranian Oil and Gas Industry

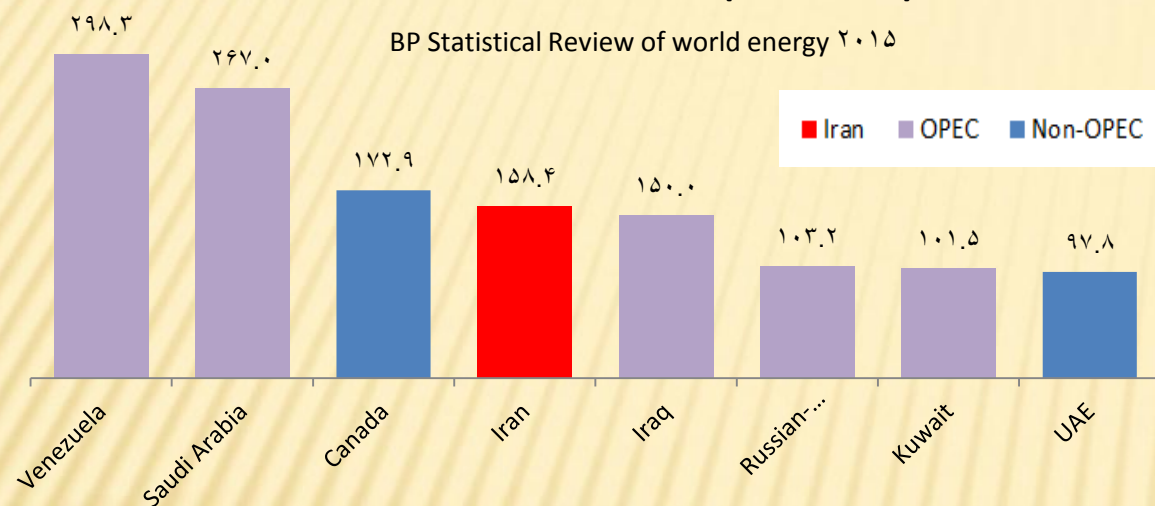
INTRODUCTION

- ❑ While the global energy demand trends show successive raise, I.R.Iran, as a liable country, understands the global anxiety and tries to play its impressive role in reliable, affordable and sustainable energy supply and decides to increase its oil and gas production.
- ❑ Following the mentioned policy, National Iranian Oil Company (NIOC) introduces Δ hydrocarbon fields and ∇ exploration blocks for development.
- ❑ The NIOC priorities for development are cross-border fields, high potential green fields and renewal of the high productive brown fields respectively.
- ❑ The contractual framework is supposed to be the new model of contractual scheme known as Iranian Petroleum Contracts (IPC).

INTRODUCTION

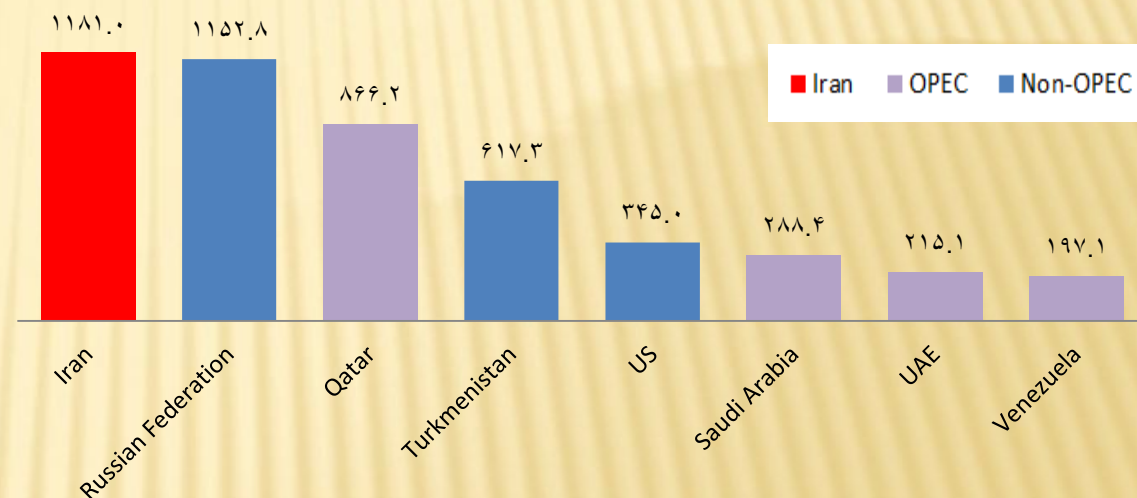
Crude Oil Reserves (MMMBbl)

BP Statistical Review of world energy ۲۰۱۵



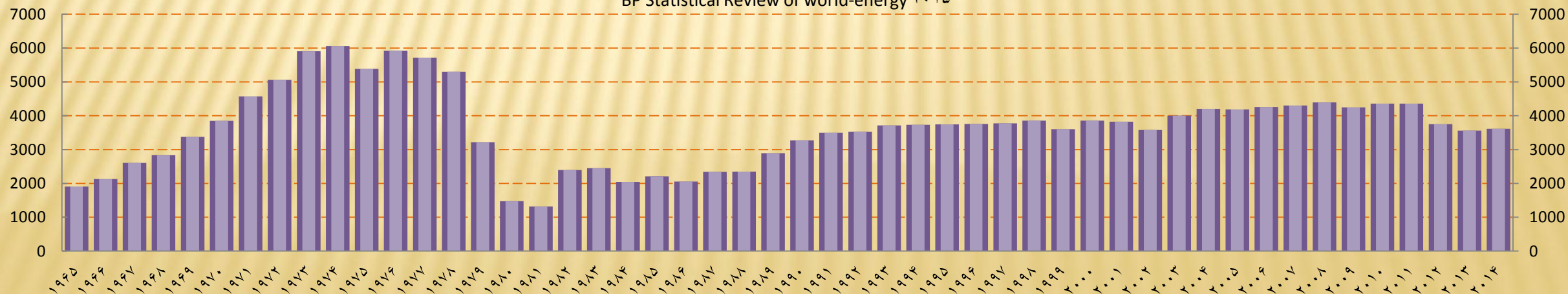
Natural Gas Reserves (Tcf)

BP Statistical Review of world energy ۲۰۱۵



Iran Oil Production History (MBbl/D): ۱۹۶۵-۲۰۱۴

BP Statistical Review of world-energy ۲۰۱۵



GEOLOGICAL ATTRACTIONS



Mondon Perched Syncline- Dehdasht Area



Salt Dome, Kuh-e Gach – South Fars



Salt Dome, Kuh-e Gach – South Fars



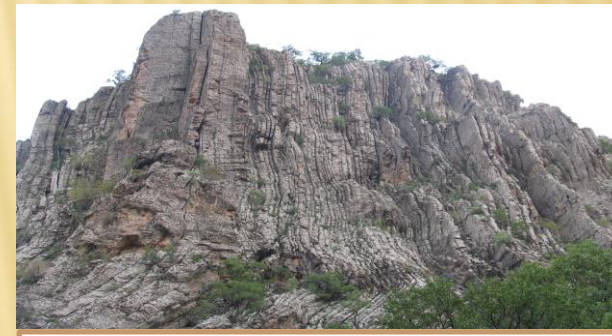
Chevron fold, Radiolarite – Neyriz



Aneh Anticline



Dasht-e Arjan Fault Fars Province



Vertical layer , Sarvak Fm. - Kabir Kuh



Gonbad-e Luran gas seepage – Mamatin oil field



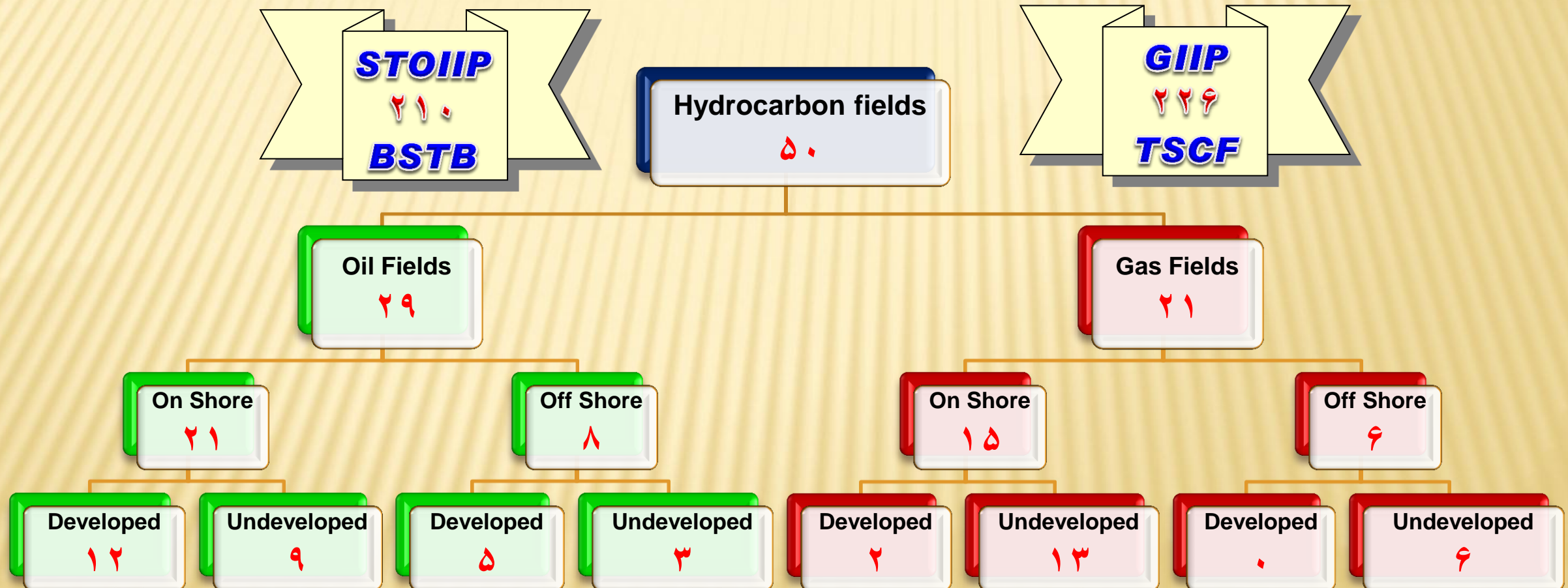
Gonbad-e Luran gas seepage – Mamatin oil field



Gonbad-e Luran gas seepage – Mamatin oil field

INTRODUCTION

- ❑ The fields, including oil and gas reservoirs and are categorized as developed and undeveloped fields.



INTRODUCTION

❑ The proposed hydrocarbon field packages are as follows:

Green Fields			
Oil Fields		Gas Fields	
۱	South Azadegan	۷	Farzad-A
۲	South Pars Oil Reservoir	۸	Balal Gas field
۳	Changuleh	۹	Kish
۴	Darquain-Phase ۳	۱۰	North Pars
۵	Golshan&Ferdowsi	۱۱	Golshan&Ferdowsi
۶	Susangerd, Jufair, Sepehr, Band-e-karkheh, Arvand, Sohrab	۱۲	Khami Reservoirs
		۱۳	Aghar, Halegan, Sefied-Baghoun, Sefied-Zakhour and Dey
		۱۴	Karun-Bangestan and NGL-۱۷۰۰

Brown Fields			
Oil Fields		Gas Fields	
۱ ۵	Ahwaz-Bangestan	۲۴	Tang-e-Bijar and Ilam refinery
۱ ۶	Mansuri-Bangestan		
۱ ۷	Ab-Teymour		
۱ ۸	Salman		
۱ ۹	Foroozan		
۲ ۰	Soroosh		
۲ ۱	Nowrooz		
۲ ۲	Dorood		
۲ ۳	Aban, Paydar, West Paydar, Danan, Cheshmeh-Khosh, Dalpari,		

❑ Totally ۲۴ packages containing ۵۰ fields development projects are considered.

❑ Individual or integrated development of the fields and packages can be considered by the contractor.

INTRODUCTION

- Totally ۱۸ exploration and development blocks are proposed.

Exploration Blocks			
Block		Sub-Basin/Basin	
۱	ABADAN	DEZFUL	ZAGROS
۲	TIMAB	LORESTAN	
۳	ZAHAB		
۴	TUDEJ	FARS	
۵	KAVIR	CENTRAL IRAN	
۶	SISTAN	EASTERN IRAN	
۷	TAYBAD	TAYBAD	
۸	MOGHAN	MOGHAN	
۹	SARAKHS	KOPE DAGH	
۱۰	DUSTI		
۱۱	RAZ		

Exploration Blocks		
Block		Sub-Basin/Basin
۱۲	BAMDAD	PERSIAN GULF
۱۳	MAHAN	
۱۴	PARSA	
۱۵	Block ۲۴	CASPIAN SEA
۱۶	Block ۲۶	
۱۷	Block ۲۹	
۱۸	SARDAR-E-JANGAL	

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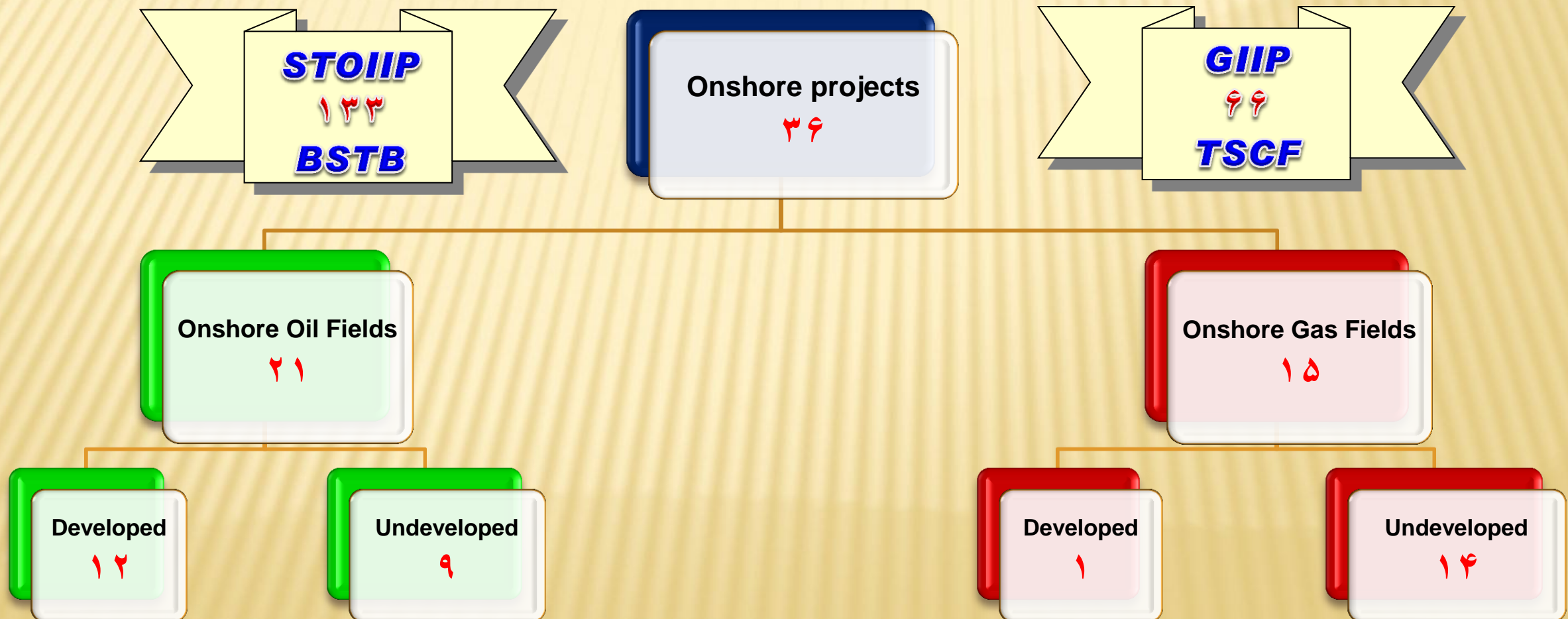
Tehran – ۲۰۱۵

Onshore Projects

By: Mr. Delparish, Abdolmohammad
Director of Corporate Planning-NIOC

ONSHORE PACKAGES

- ❑ The onshore fields, including oil and gas reservoirs and are categorized as developed and undeveloped fields. Onshore fields include ۱۲ packages containing of ۳۶ fields.



ONSHORE PACKAGES



Ahwaz-Bangestan

Mansuri-Bangestan

Ab-Teymour

Khami Reservoirs

Karun-Bangestan and NGL-۱۷۰۰



**Susangerd, Jufair, Sepehr,
Band-e-karkheh, Arvand, Sohrab**



South Azadegan

Changuleh

Darquain-Phase ۳



**Aban, Paydar,
West_Paydar, Danan,
Cheshmeh-Khosh,
Dalpari, NaftShahr,
Sumar, Dehloran**

**Aghar, Halegan,
Sefied-Baghoun,
Sefied-Zakhour and
Dey**

**Tang-e-Bijar and
Ilam refinery**



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Tehran – ۲۰۱۵

NISOC Onshore Projects

By: Mr. Deris
Technical Manager of NISOC



AHWAZ FIELD- BANGESTAN RESERVOIR

LOCATION OF AHWAZ FIELD

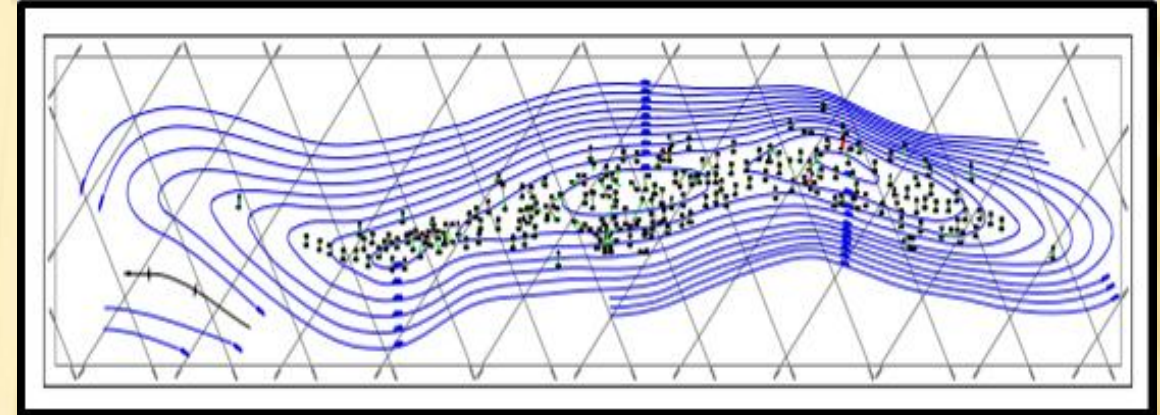
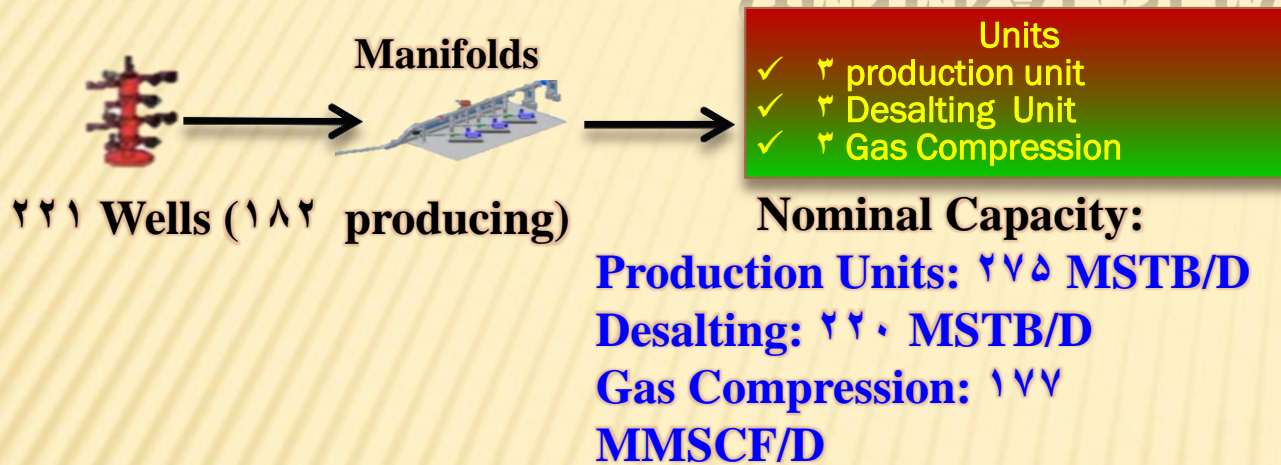


❑ Ahwaz oil field is located in Ahwaz city and is one of the giant Iranian oilfields.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۱۹۵۸	۱۹۷۱	۷۵x۱۰	۳D	Totally ۲۲۱ (۱۸۲ prod.)	Bangestan	۲۰-۲۳

AHWAZ FIELD-BANGESTAN RESERVOIR

GENERAL SPECIFICATIONS



- Considering the reservoir performance and the fact that the recoverable reserve is very low comparing to very high amount of oil in place, **it is suggested that new full field studies with the aim of determining optimum production mechanism, possibility of using EOR methods and IOR methods (such as gas lift with respect to wells water cut, installation of down-hole pumps and hydraulic fracturing) being investigated.**
- A comprehensive study of the field has been done by NISOC recently.

Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Ahwaz-Bangestan	37280	1293	180	To be proposed by contractor



MANSURI FIELD- BANGESTAN RESERVOIR

LOCATION OF MANSURI FIELD



❑ This field is located ۴۰ km south of Ahwaz field

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۱۹۶۲	۱۹۹۰	۴۳x۶	۳D	۸۰ (۷۱ prod.)	Bangestan	۲۰-۲۵

MANSURI FIELD-BANGESTAN RESERVOIR

GENERAL SPECIFICATIONS



Manifolds

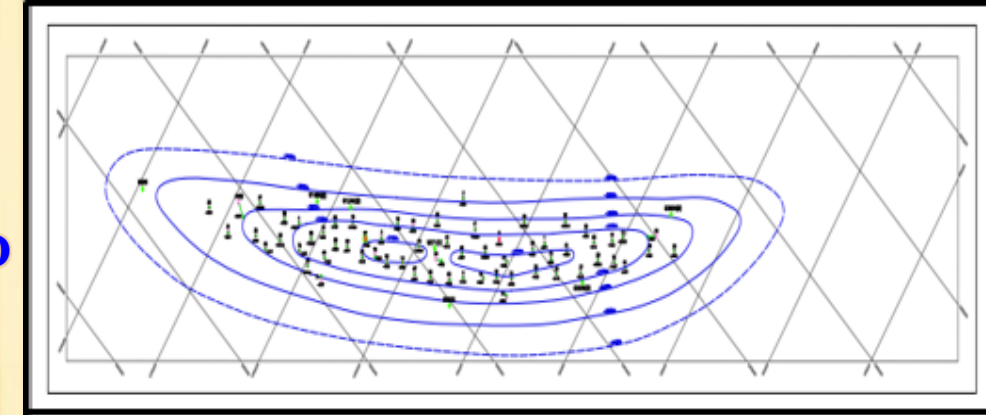


Nominal Capacity:

Production Unit: ۷۵ MSTB/D

Desalting: ۳۵ MSTB/D

Gas compression: ۳۰ MMscf/D



۸۰ Wells (۷۱ producing)

- ❑ Based on NISOC studies in ۲۰۰۹, production of ۷۵ MSTB/D from the Bangestan reservoir is possible
- ❑ Considering the reservoir performance, it is suggested that new studies with the aim of possibility of using EOR and IOR methods (such as gas lift with respect to wells water cut, installation of down-hole pumps and hydraulic fracturing) being investigated.
- ❑ A comprehensive study of the field has been done by NISOC recently.

Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Mansuri-Bangestan	۱۵۱۴۲	۳۴۷	۶۰	To be proposed by contractor



AB-TEYMOUR FIELD

LOCATION OF THE AB-TEYMOUR FIELD

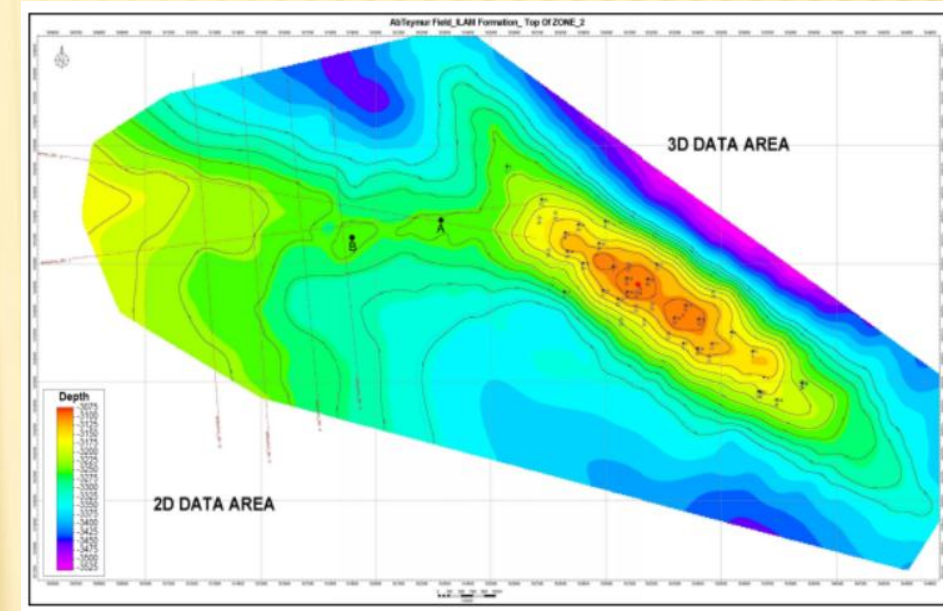
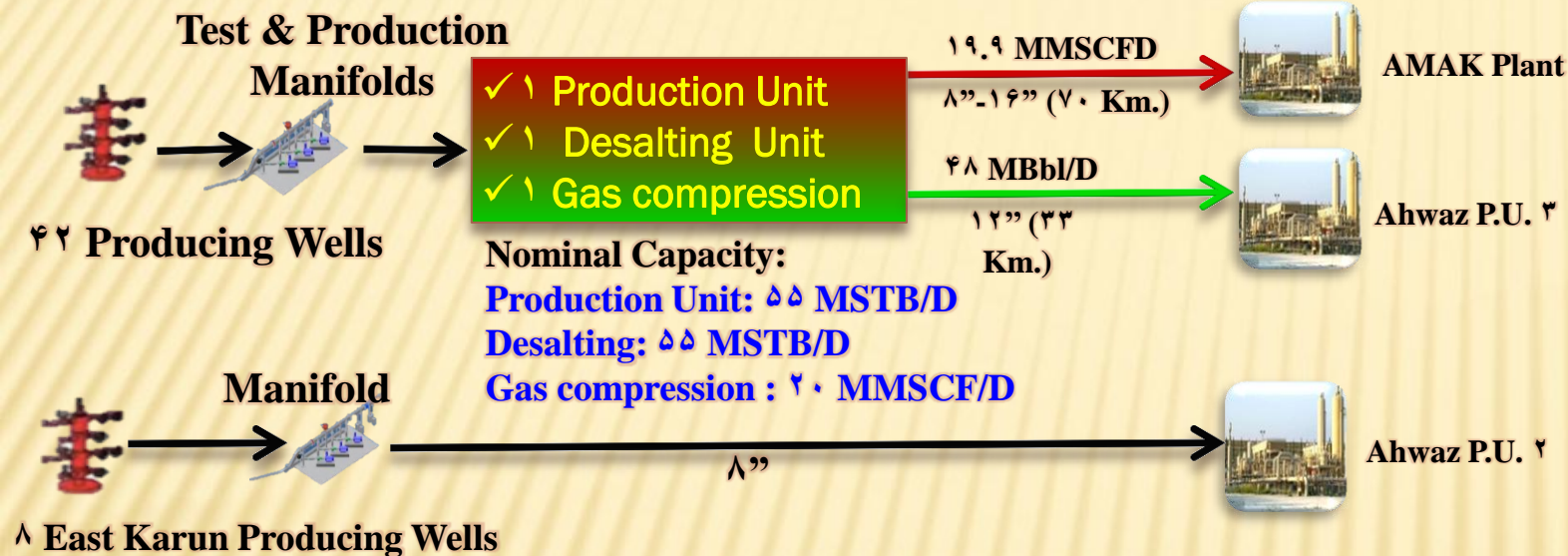


- ❑ Ab-Teymour field is located ۲۵ km from Ahwaz city and between Susangerd and Mansuri fields.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۱۹۶۷	۱۹۹۱	۲۳.۵x۶.۵	۳D	۲۹ prod. ۵۰ (۲۲ prod.)	Ilam Sarvak	۲۲.۵ ۲۰

AB-TEYMOUR FIELD GENERAL SPECIFICATIONS

❑ **Current Production:** ۴۸ MSTB/D (Overall capacity of ۵۵ MSTB/D)



❑ Considering the reservoir performance, it is suggested that new studies with the aim of determining optimum production mechanism, possibility of using EOR and IOR methods (such as gas lift, installation of down-hole pumps and hydraulic fracturing) being investigated.

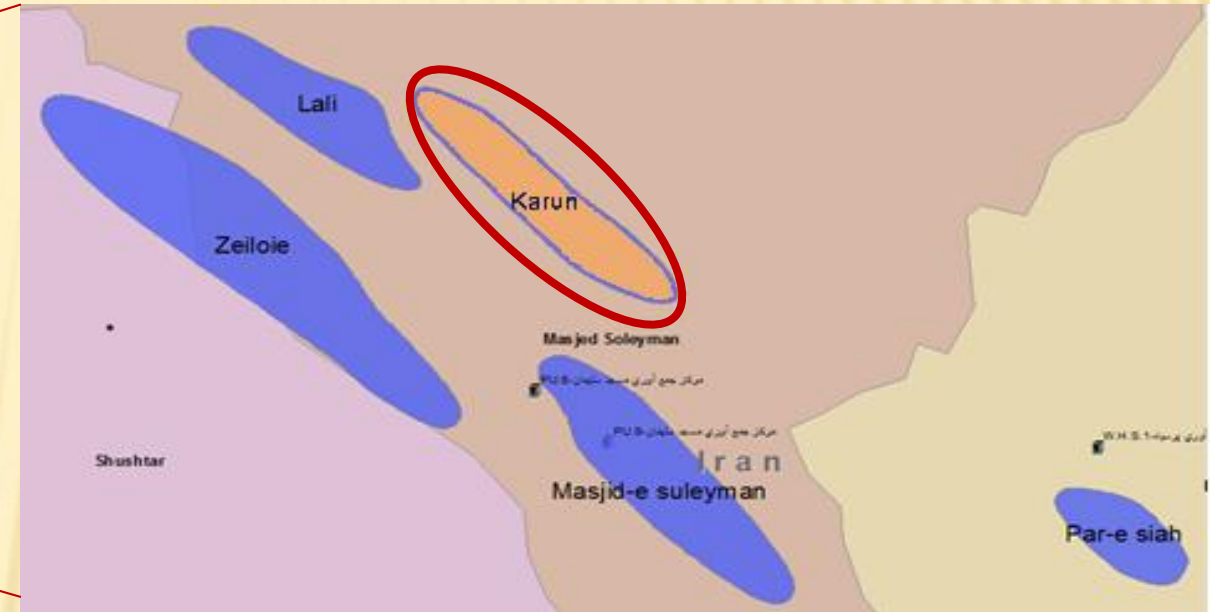
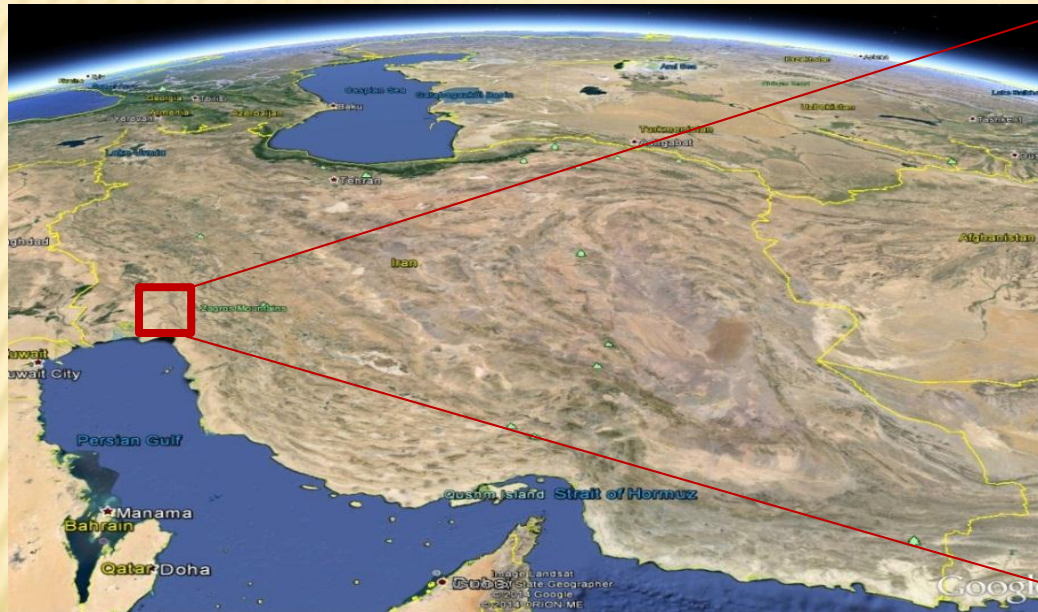
❑ A comprehensive study of the field has been done by Research Institute of Petroleum Industry (RIPI) recently.

Field	STOIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Ab-Teymour	۱۵۲۵۸	۳۱۵	۶۰	To be proposed by contractor



KARUN GAS FIELD-BANGESTAN RESERVOIR AND NGL-۱۷۰۰

LOCATION OF KARUN GAS FIELD BANGESTAN RESERVOIR

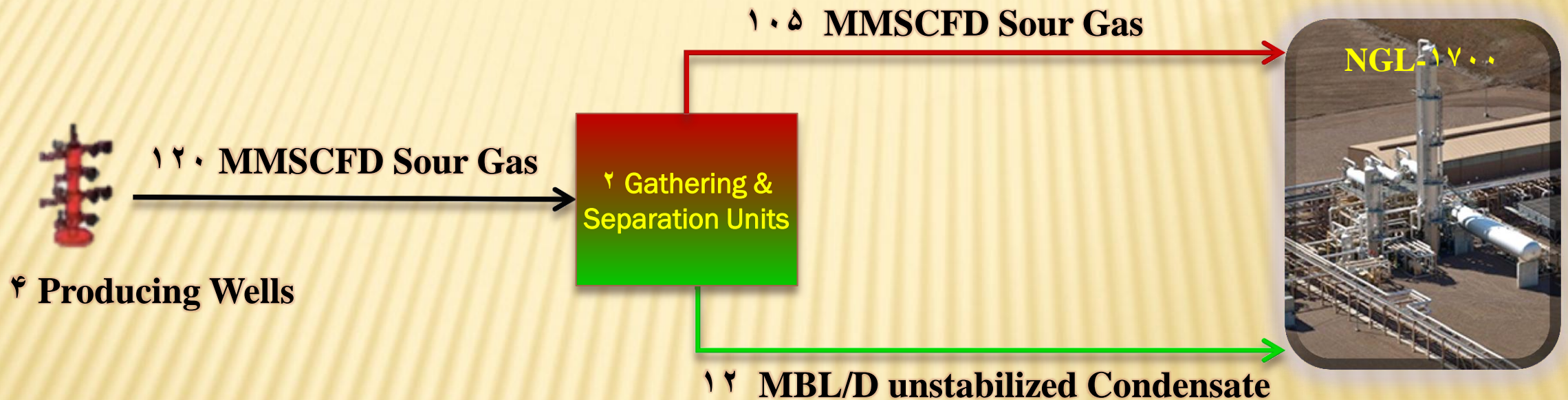


- ❑ Karun-Bangestan gas reservoir is located about ۲۵ Km. north of Masjid-i-soleiman, near Lali and Zilaei oil fields.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				Bbl/MMscf	ppm
۱۹۷۰	N/A	۲۶.۵x۴.۵	۲D	۳ Expl.	Bangestan group	۸۸	۸۶۰۰

KARUN BANGESTAN RESERVOIR GENERAL SPECIFICATIONS

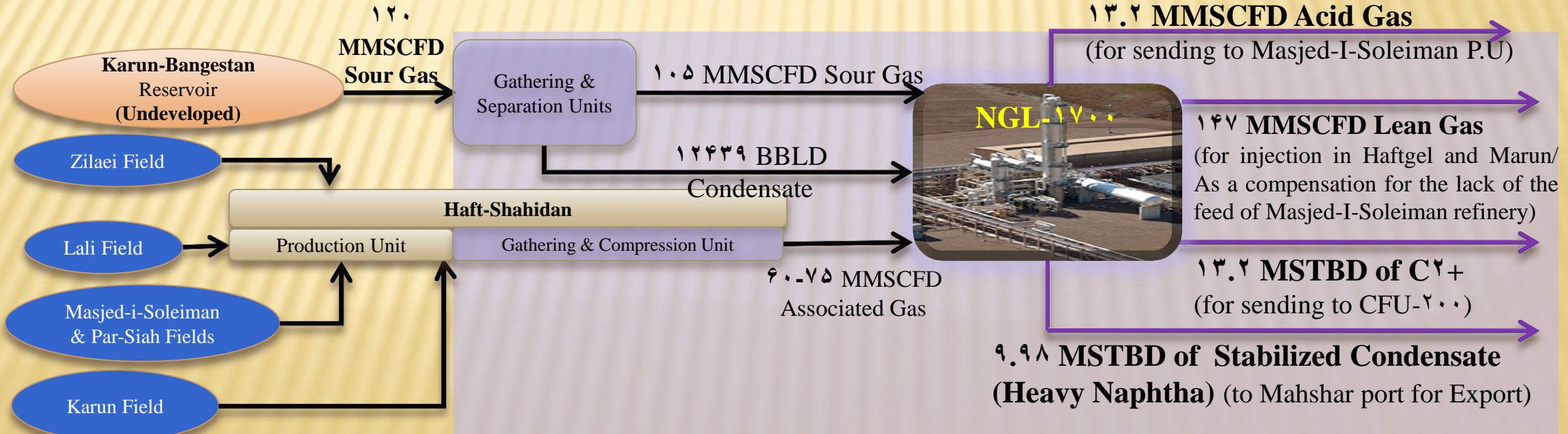
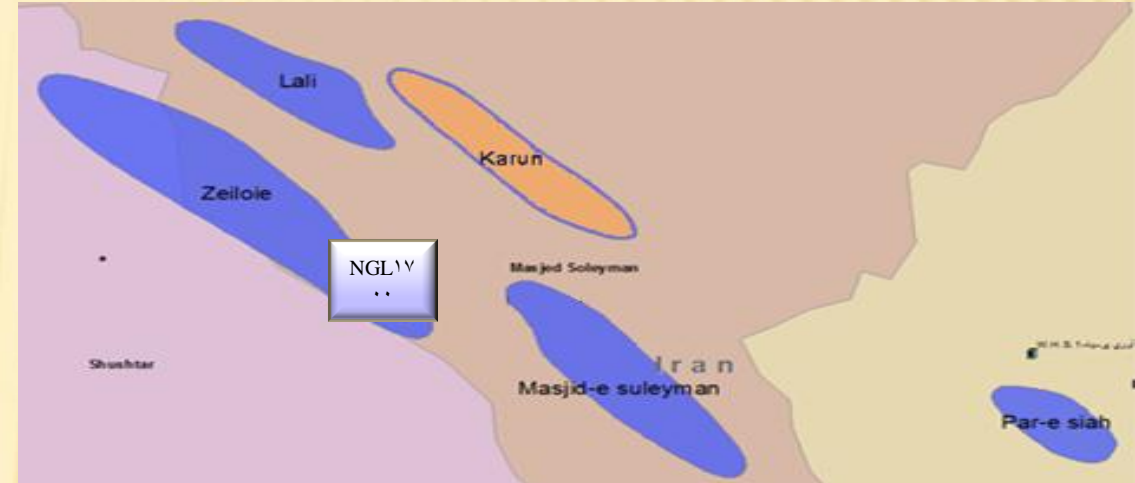
□ **Phase-۱ (Estimated): ۱۲۰ MMSCF/D Gas and ۱۰۰۰۰ Bbl/D condensate**



Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	۱۰۹ SCF	۱۰۹ SCF/d	۱۰۹ SCF/d	۱۰۹ SCF/d
Karun-Bangestan	۲۳۶۹	۰	۰	۱۲۰

NGL-۱۷۰۰ PLANT

- ❑ This package includes:
 - Gathering produced gases of Haft-Shaidan production unit,
 - Construction of NGL-۱۷۰۰ plant
 - Development of Karun-Bangestan reservoir.



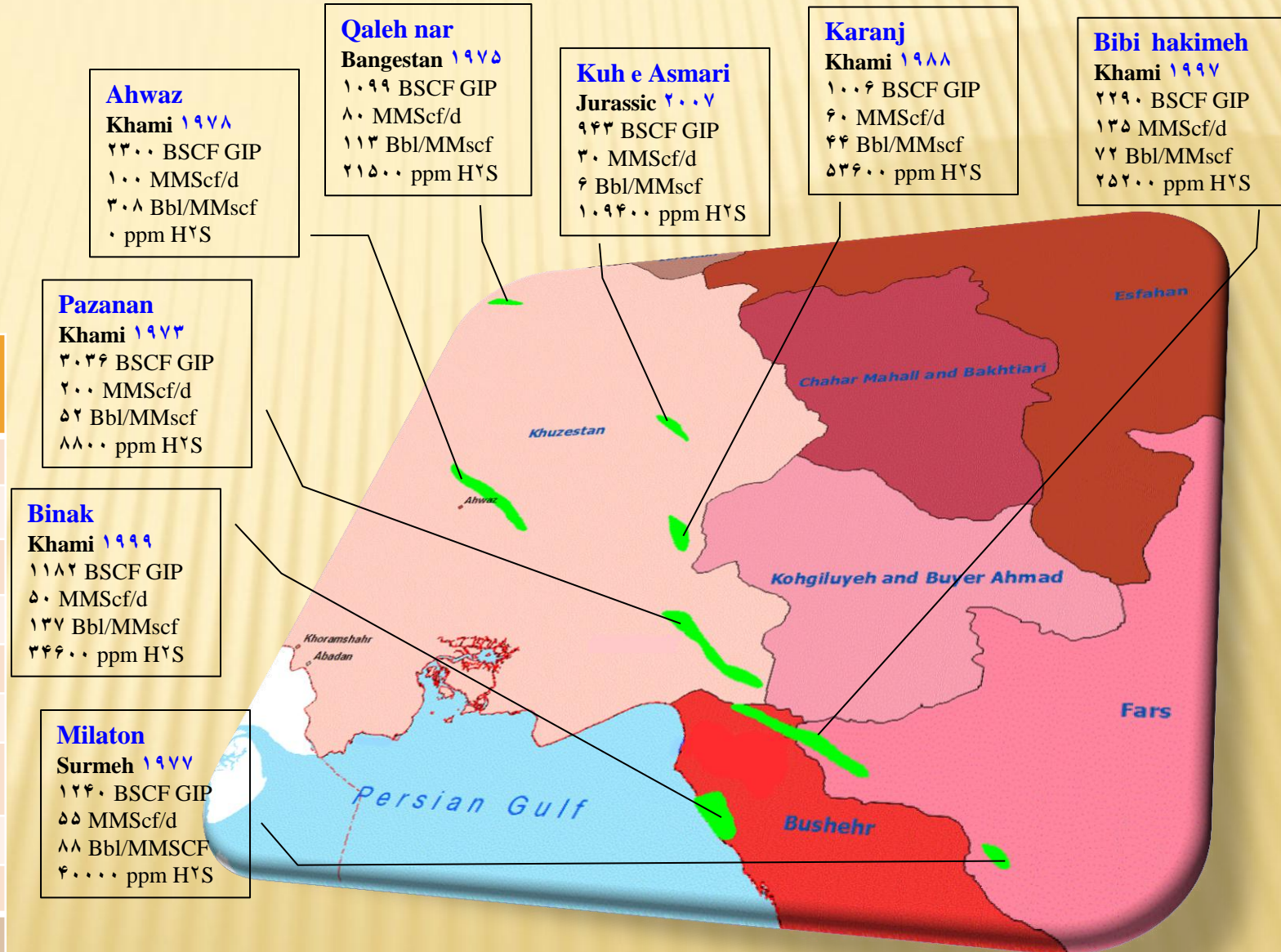


KHAMI RESERVOIRS

UNDEVELOPED KHAMI GAS RESERVOIRS



Field Name	Formation Name	Gas in Place	Estimated Gas Production	Estimated Condensate Production
		TCF	MMSCF/D	MBbl/D
QALEH-Nar	Bangestan	۱.۱	۸۰	۹
Kuh-e-Asmari	Jurassic	۰.۹۵	۳۰	۰.۱۸۰
Ahwaz	Fahlian	۲.۳	۱۰۰	۳۱
Karanj	Khami	۱	۶۰	۲.۶
Pazanan	Khami	۳	۲۰۰	۱۰
Bibi-Hakimeh	Khami	۲.۳	۱۳۵	۹.۷
Binak	Khami	۱.۲	۵۰	۶.۸
Milatun	Sormeh	۱.۲	۵۵	۴.۸
Total		۱۳	۷۱۰	۷۴



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ICOFC Onshore Projects

By: Mr. S.S.Hendi
Planning Director

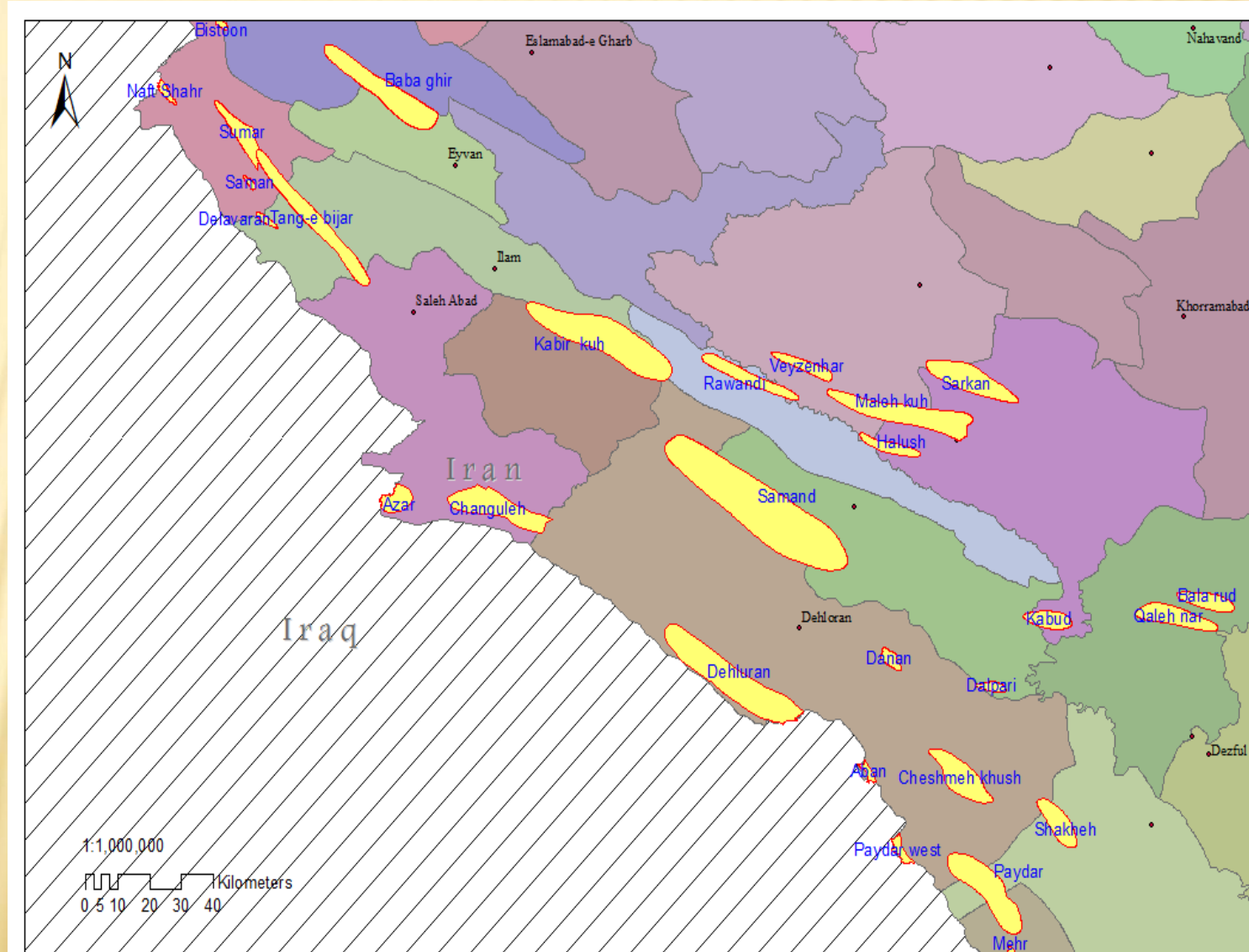


WEST OF IRAN OIL FIELDS PACKAGE

WEST OF IRAN OIL FIELDS PACKAGE

It is recommended that Aban, Paydar, West-Paydar, Danan, Cheshmeh-Khosh, Dalpari, Dehloran, Sumar and Naft_Shahr fields are being developed integrated as one package.

The total production from all 9 fields is estimated to be around 1.1 MBbl/d.



WEST OF IRAN OIL FIELDS PACKAGE



Naft-Shahr

Disc. ۱۹۲۷
Prod. ۱۹۴۷
Dim. ۹x۴ Km.

Sumar

Disc. ۲۰۰۶
Prod. ۲۰۱۲
Dim. ۳.۵x۱۸ Km.

Dehloran

Disc. ۱۹۷۲
Prod. ۱۹۷۸
Dim. ۷x۴۰ Km.

Danan

Disc. ۱۹۷۱
Prod. ۱۹۹۳
Dim. ۱۰.۵x۴ Km.

Aban

Disc. ۲۰۰۹
Prod. ۲۰۱۰
Dim. ۹x۳ Km.

Dalpari

Disc. ۱۹۷۸
Prod. ۱۹۹۹
Dim. ۹.۳x۳ Km.

Cheshmeh Khosh

Disc. ۱۹۶۷
Prod. ۱۹۷۷
Dim. ۲۸x۴.۵ Km.

West Paydar

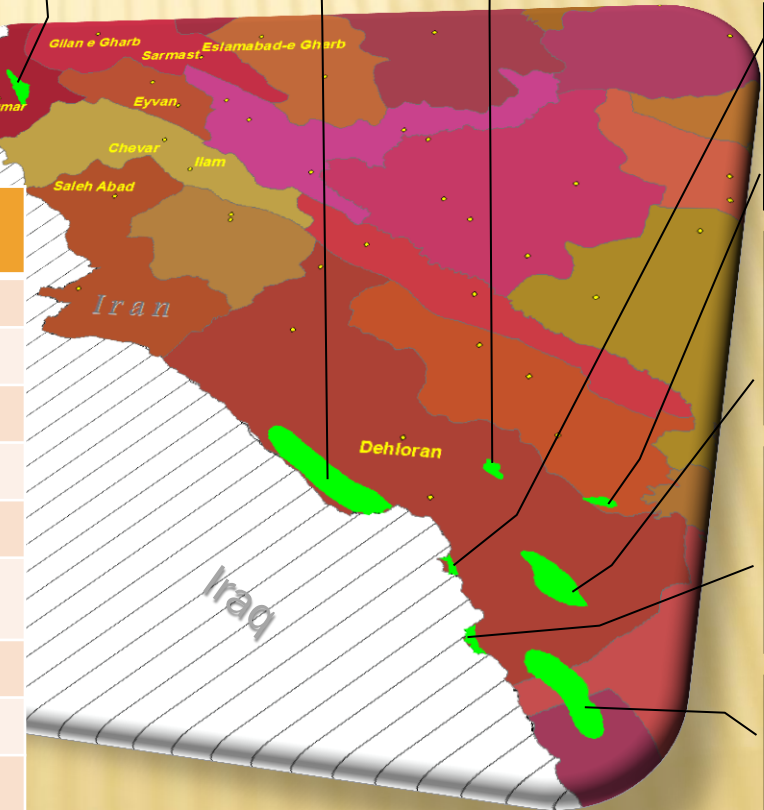
Disc. ۱۹۸۰
Prod. ۱۹۹۵
Dim. ۱۱x۳ Km.

Paydar

Disc. ۱۹۷۳
Prod. ۱۹۹۵
Dim. ۱۰x۴ Km.

The contractor is expected to propose the future production plan.

Field Name	Formation Name	Oil in Place	Cumulative Production	Current Production	۲D/۳D	No. of wells	API
	-	MMBbl	MMBbl	MBbl/D	-	-	Deg.
Aban	Asmari	۱۳۸	۷.۲	۹	۲D	۹	۲۱
Paydar	Asmari	۱۰.۴۷	۶.۶	۵.۵	۲D	۵	۱۳
West-Paydar	Asmari/Bangestan	۹۵۲	۱۰.۵	۲۸	۲D	۲۵	۱۸-۲۰
Danan	Asmari/Bangestan	۳۷۳۸	۲۷	۸	۲D	۴	۲۸
Cheshmeh-Khosh	Asmari/Bangestan	۳۷۴۰	۳۵۴	۷۲	۳D	۱۶	۲۰-۲۹
Dalpari	Bangestan	۳۶۷	۴۰	۱۴	۳D	۴	۳۳.۵
Naft-Shahr	Asmari/Kalhor	۵۸۰	۲۰.۷	۵.۵	۲D	۱۷	۴۰
Sumar	Asmari	۴۴۱	۰.۲	۰.۵	۲D	۱	۴۴
Dehloran	Asmari/U&L Sarvak	۵۱۸۴	۱۶۴	۲۴	۳D	۱۶	۳۰
-	-	۱۶۱۸۷	۹۱۱	۱۶۶.۵	-	-	-

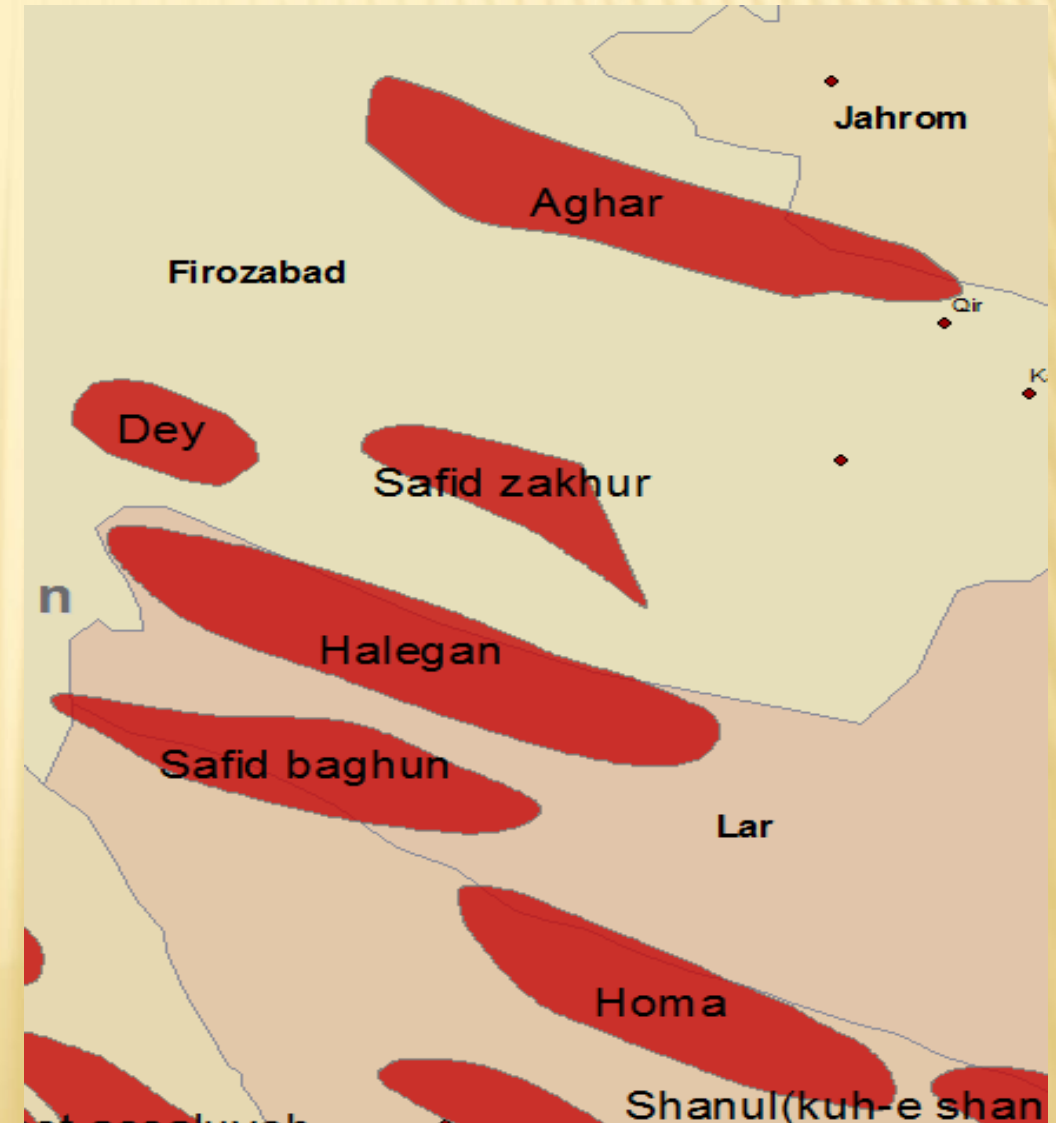




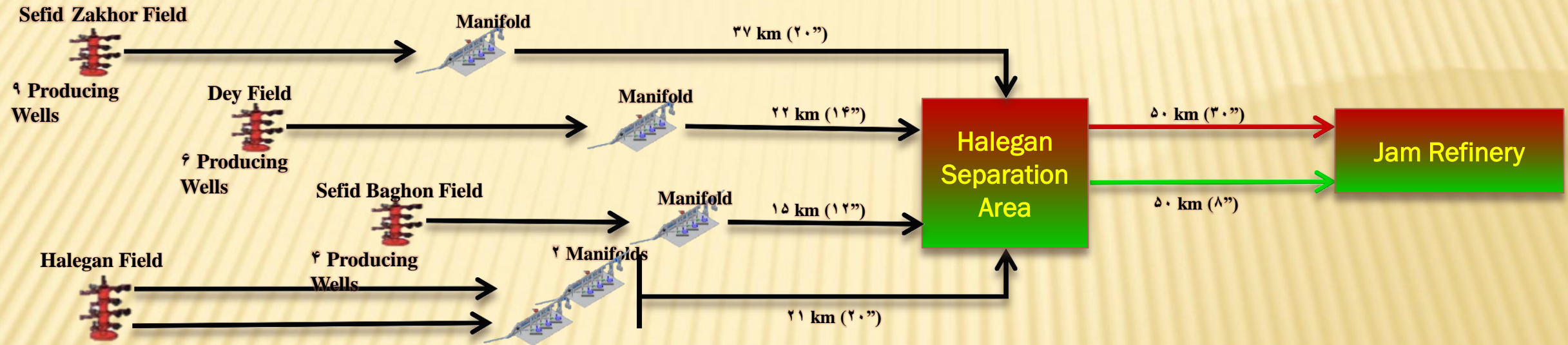
HALEGAN, SEFIED-BAGHOUN, SEFIED-ZAKHOUR, DEY AND AGHAR-PHASE 2 FIELDS

HALEGAN, SEFIED-BAGHOUN, SEFIED-ZAKHOUR, DEY AND AGHAR-PHASE^۲ FIELDS

- ❑ Halegan, Sefied-Baghoun, Sefied-Zakhour, Dey and Aghar-phase^۲ fields are neighboring fields. Therefore, it is recommended the development plan for all fields consider as integrated in one package.
- ❑ The total production from all ۵ fields is estimated to be around ۲۰۰۰ MMSCF/D gas and ۲۷.۵ MBbl/d condensate.



DEY, SEFID-ZAKHOR, SEFID-BAGHON AND HALEGAN SURFACE FACILITIES SCHEME

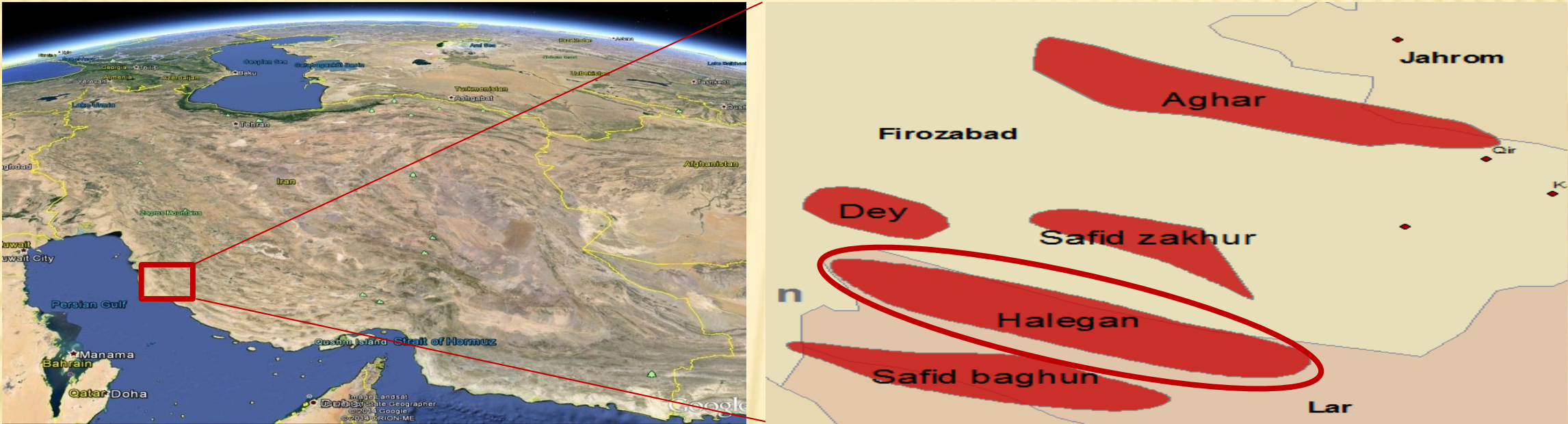


Field Name	Gas in Place	Estimated Gas Production	Estimated Condensate Production
	BSCF	MMSCF/D	MBbl/D
Halegan	4630	440	5.9
Sefid-Baghon	2370	160	4.2
Sefid-Zakhor	8291	353	5.5
Dey	1753	180	2.5
Aghar-phase 2	25790	1500	9.4
Total	42834	2633	27.5



HALEGAN GAS FIELD

LOCATION OF HALEGAN FIELD

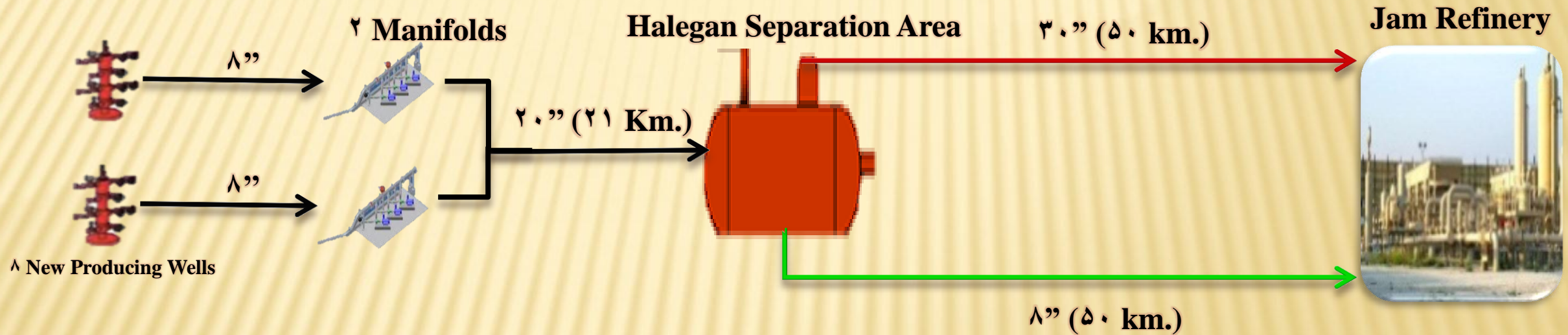


- ❑ Halegan field is located about ۲۳ Km. North of Assaluyeh seaport. It is surrounded by gas fields of Sefied-Zakhour at north and Sefied-Baghoun at south.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				STB/MMSC F	ppm
۲۰۰۷	N/A	۵۰x۱۱	۲D	۲ Expl.	Dehram group	۲۶.۷	۲۳۰۰

HALEGAN FIELD GENERAL SPECIFICATIONS

□ **Phase-۱ (Estimated):** ۴۴۰ MMSCF/D Gas and maximum of ۵۹۰۰ Bbl/D condensate

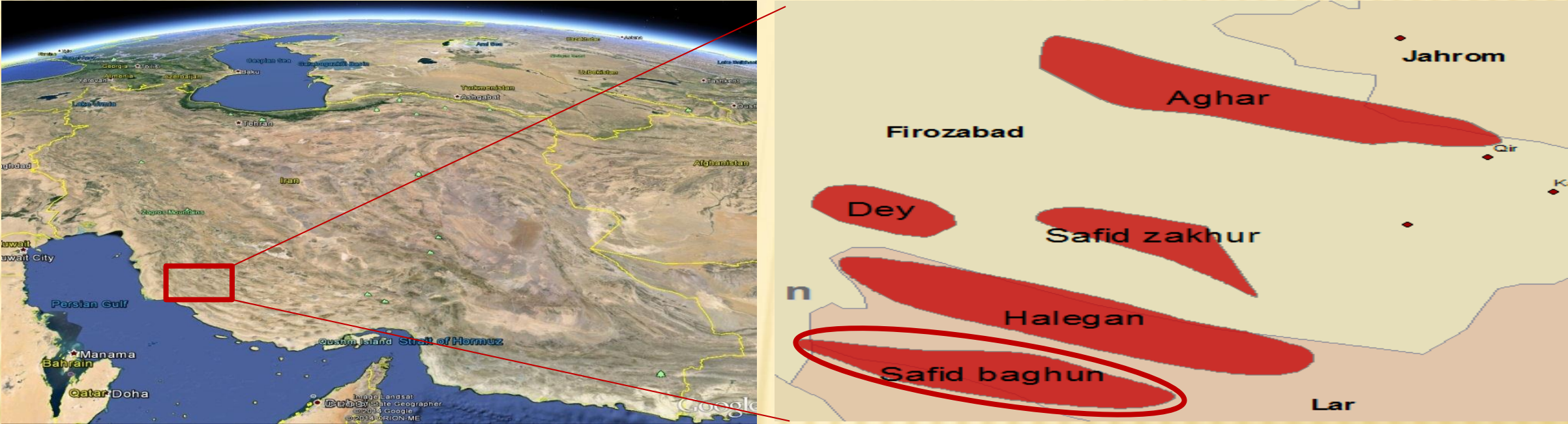


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	۱.۹ SCF	۱.۹ SCF	۱.۹ SCF/d	۱.۹ SCF/d
Halegan	۴۶۳۰	.	.	۴۶۰



SEFIED-BAGHOUN FIELD

LOCATION OF SEFIED-BAGHOUN FIELD

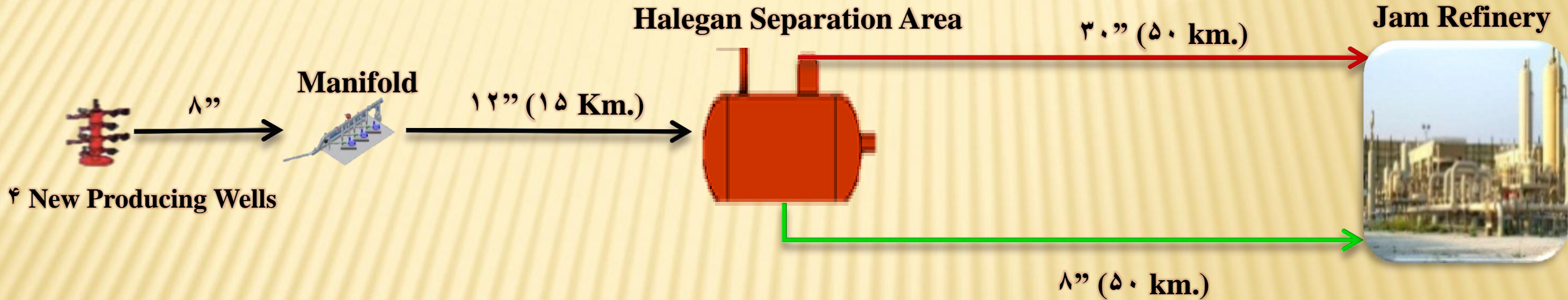


- ❑ Sefied-Baghoun anticline is located in gaseous area of shiraz, about ۹۰ Km. west of Khenj, ۳۵ Km. north west of Jam and ۱۶۰ Km. south of Shiraz.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				STB/MMSCF	ppm
۲۰۰۸	N/A	۲۴x۳.۵	۲D	۱ Expl.	Dehram group	۲۶.۶	۱۰۰-۲۰۰

SEFIED-BAGHOUN FIELD GENERAL SPECIFICATIONS

❑ **Phase-1 (Estimated):** ۱۶۰ MMSCF/D Gas and maximum of ۴۲۰۰ Bbl/D condensate

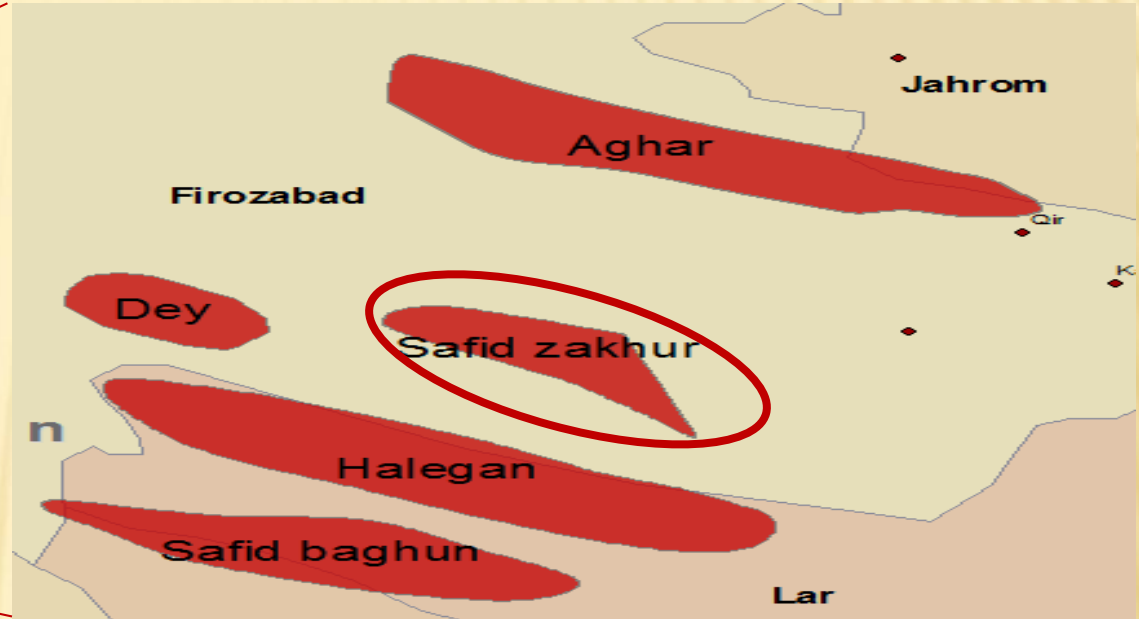
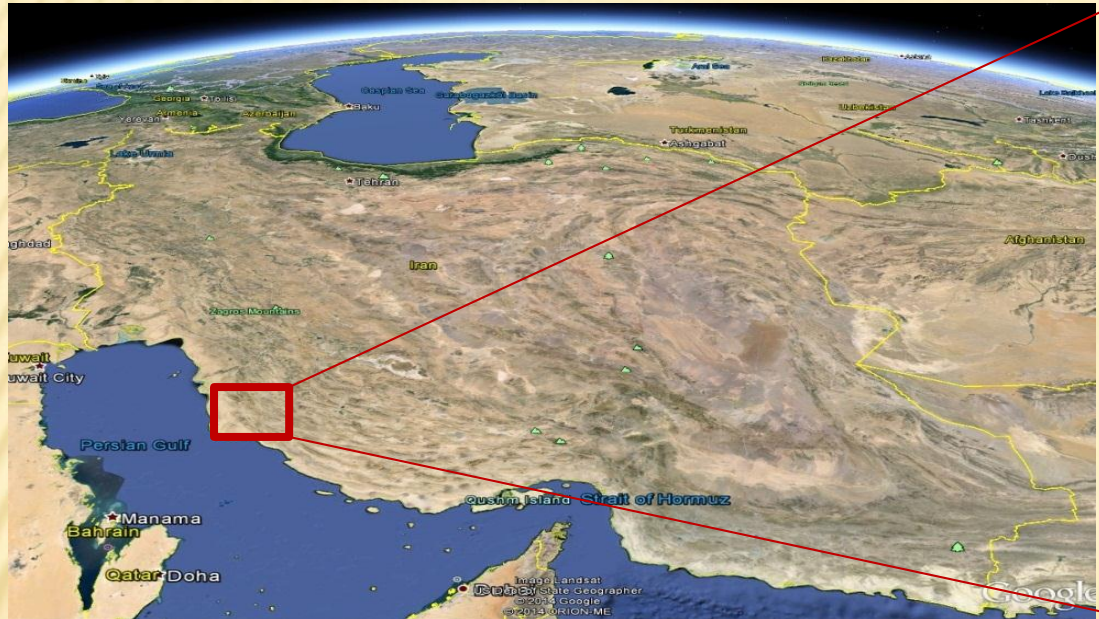


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	۱۰۹ SCF	۱۰۹ SCF	۱۰۹ SCF/d	۱۰۹ SCF/d
Sefid Baghoun	۲۳۷۰	۰	۰	۱۶۰



SEFIED-ZAKHOUR FIELD

LOCATION OF SEFIED-ZAKHOUR FIELD

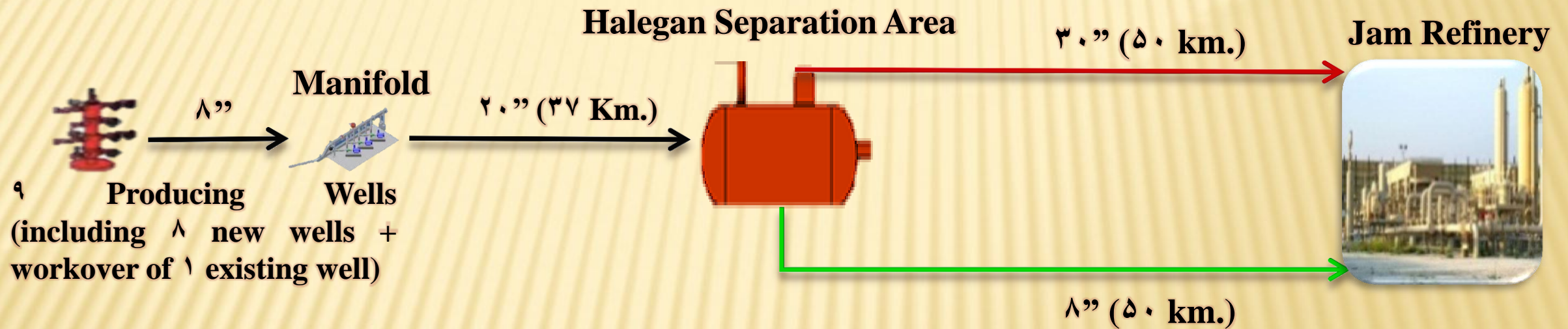


- ❑ Sefied-Zakhour anticline is located in gaseous area of Fars and about ۱۶۰ Km. southeast of Shiraz.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				STB/MMSCF	ppm
۲۰۰۷	N/A	۴۰x۸	۲D	۳	Dehram group	۱۸.۸	۴۰-۵۰

SEFIED-ZAKHOUR FIELD GENERAL SPECIFICATIONS

□ **Phase-1 (Estimated): ۳۵۳ MMSCF/D Gas and maximum of ۵۵۰۰ Bbl/D condensate**

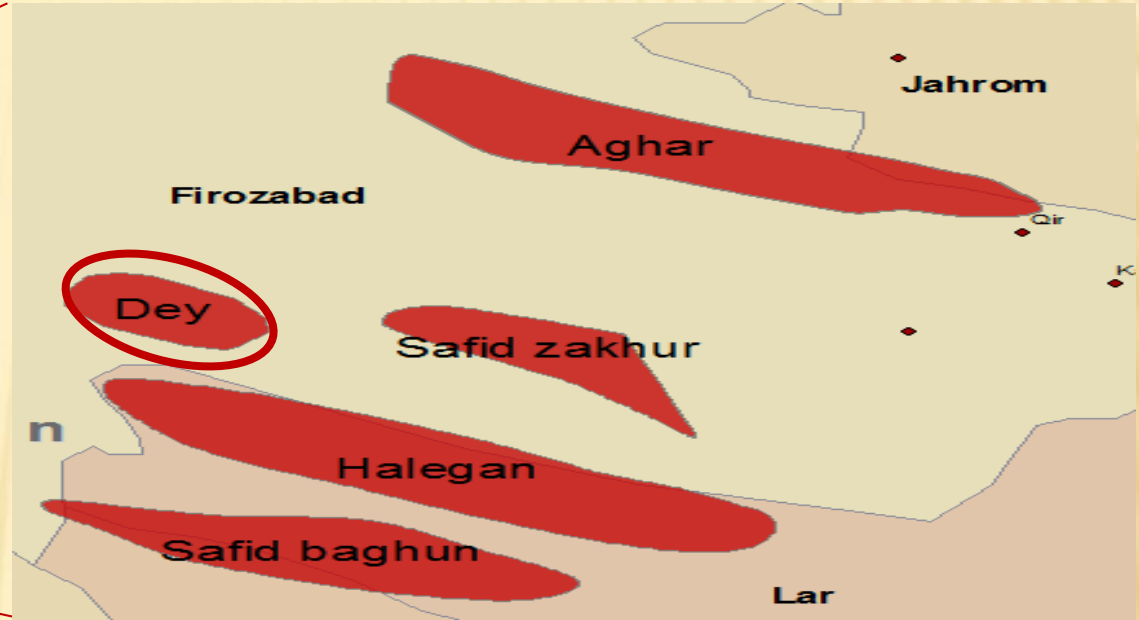
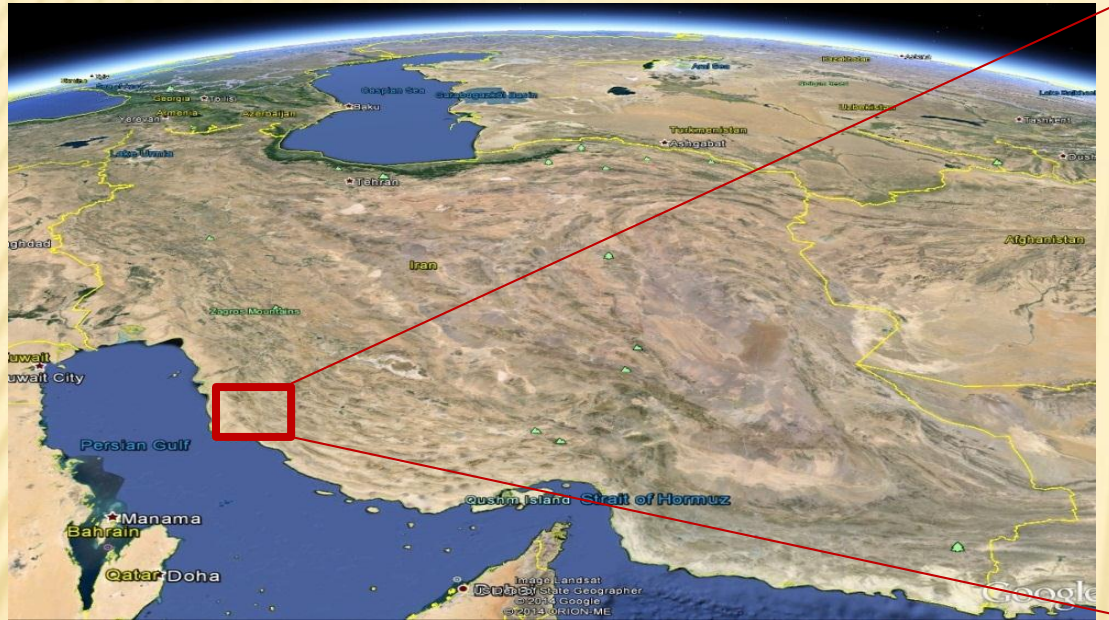


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	۱۰۹ SCF	۱۰۹ SCF	۱۰۹ SCF/d	۱۰۹ SCF/d
Sefid Zakhour	۸۲۹۱	.	.	۳۵۳



DEY FIELD

LOCATION OF DEY FIELD

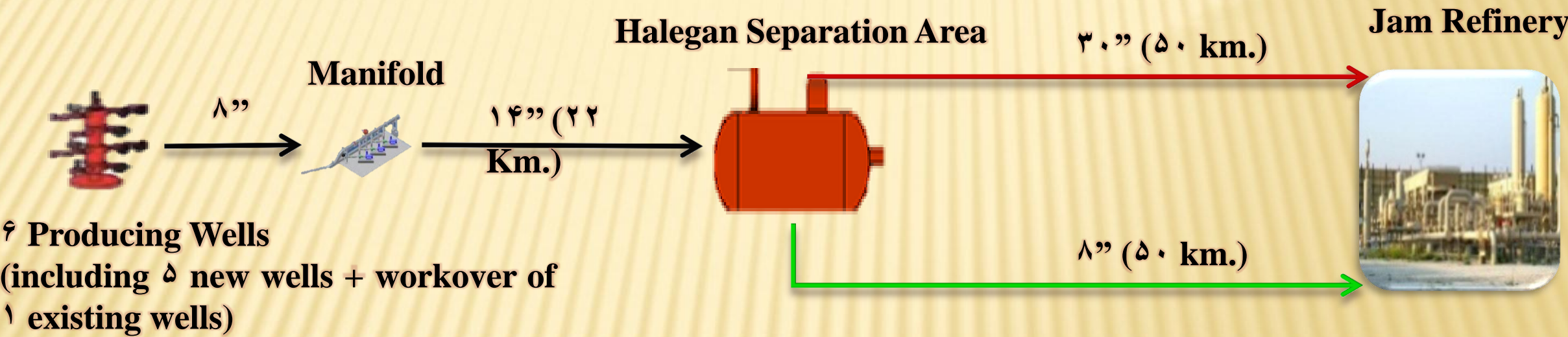


- ❑ Dey field is located in mountainous area of Fars province, about ۱۶۰ Km. and ۶۰ Km. of Shiraz and Firouzabad respectively.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				STB/MMSCF	ppm
۲۰۰۰	N/A	۱۶x۶	۲D	۴	Dehram group	۱۳.۶	۵

DEY FIELD GENERAL SPECIFICATIONS

Phase-1 (Estimated): 180 MMSCF/D Gas and maximum of 250,000 Bbl/D condensate

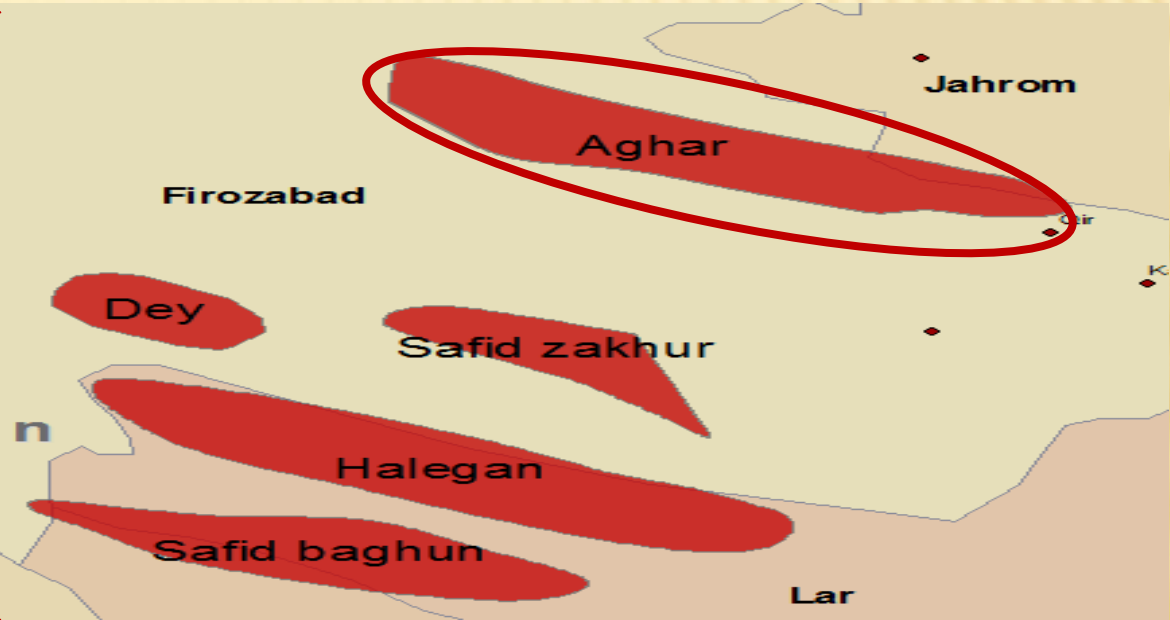
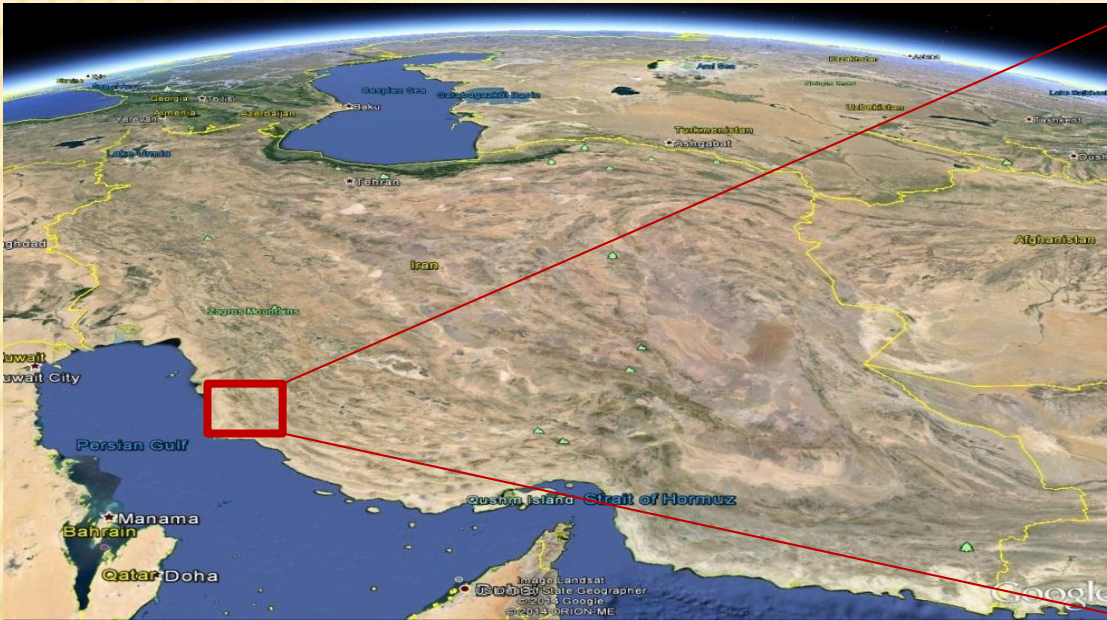


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	10.9 SCF	10.9 SCF	10.9 SCF/d	10.9 SCF/d
Dey	1753	.	.	180



PHASE-۲ OF AGHAR FIELD

LOCATION OF AGHAR FIELD

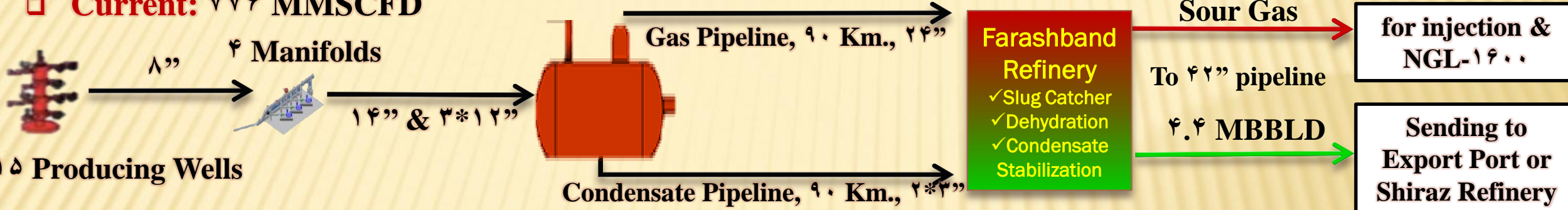


- ❑ Aghar field is located in Fars province, about ۱۲۰ Km. south-east of Shiraz and ۳۵ Km. of Firouzabad nearby the Meymaneh and Surmeh anticlines.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm				STB/MMSCF	ppm
۱۹۷۲	۱۹۹۸	۷۵x(۵-۸)	۲D	۱۸ (۱۵ prod.)	Dehram group	۶.۲	۲۰۰

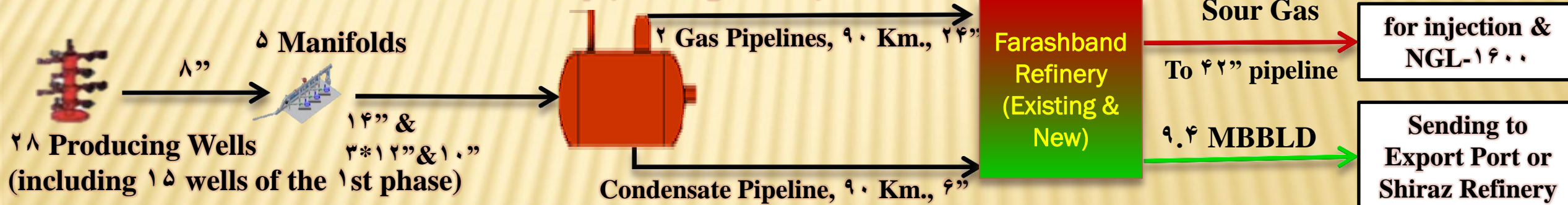
AGHAR FIELD-PHASE 2 GENERAL SPECIFICATIONS

Current: 776 MMSCFD



Phase 2 (Estimated): 724 MMSCFD (Totally 1500 MMSCFD)

Central Facility (Existing & New)

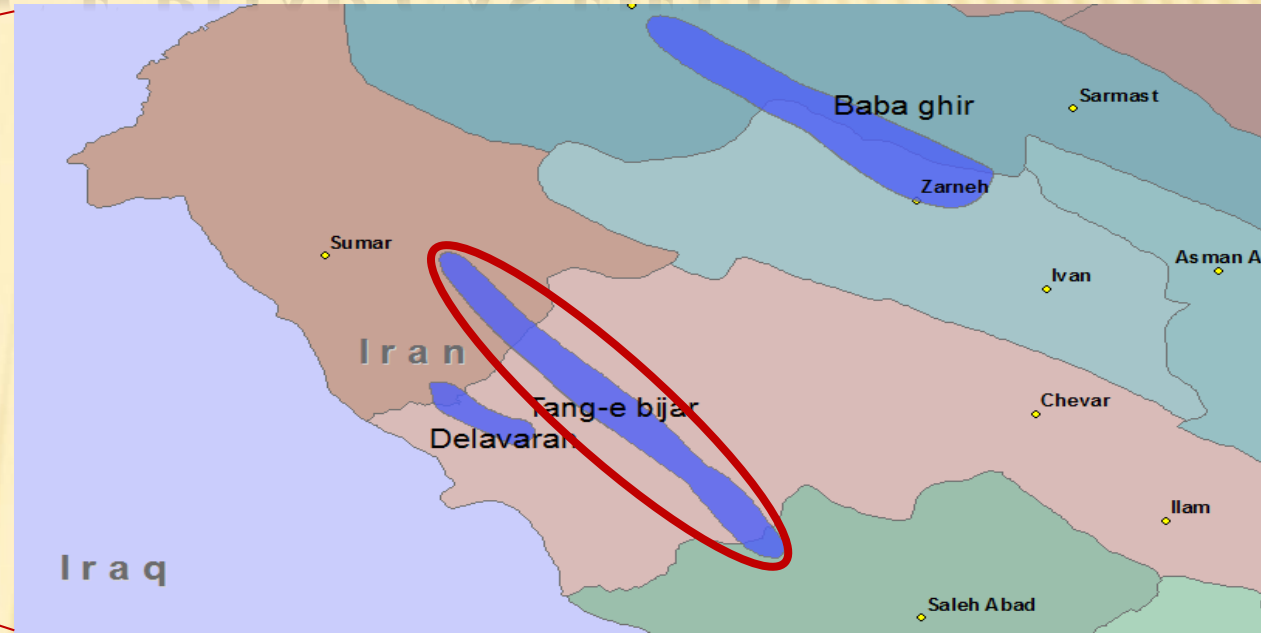


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	1.9 SCF	1.9 SCF	1.9 SCF/d	1.9 SCF/d
Aggar	2579.	3561	776	1500



TANG-E-BIJAR GAS FIELD AND ILAM REFINERY

LOCATION OF TANG-E-BIJAR GAS FIELD

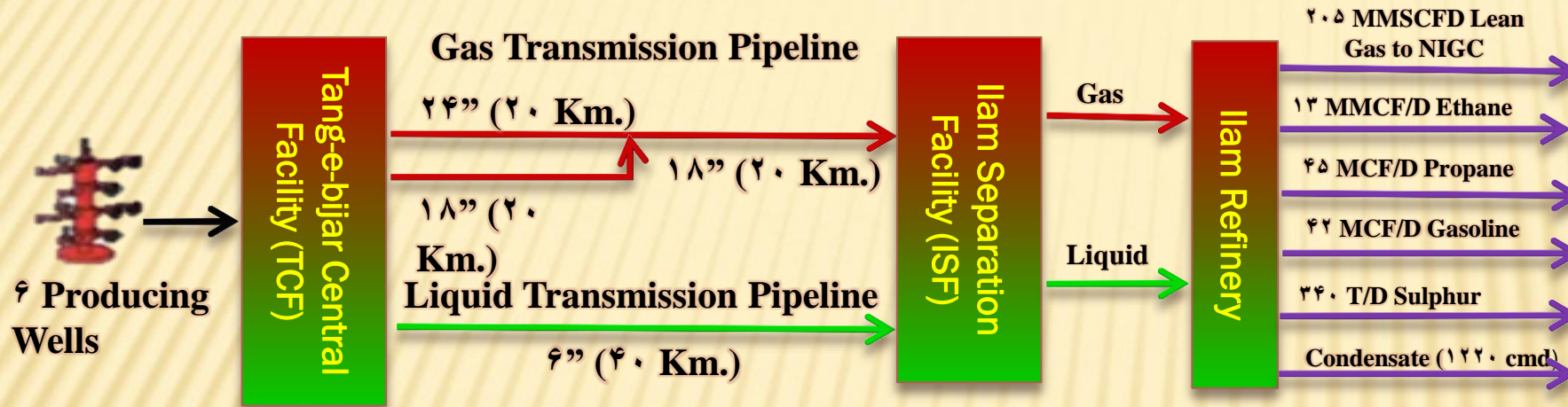


- ❑ Tang-e-bijar gas field, is located in Ilam province about 50 Km. west of Ilam and about 50 Km. southeast of Naft-shahr oil field.
- ❑ 2D seismic is undergoing by NIOC and can be handed over to the contractor.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	CGR	H ₂ S
year	year	kmxkm			mid-to-late Cretaceous	Bbl/MMscf	ppm
۱۹۶۶	۲۰۰۷	۳۳x۷	۲D	۶	Sarvak	۲۸	۲۷۴۰۰

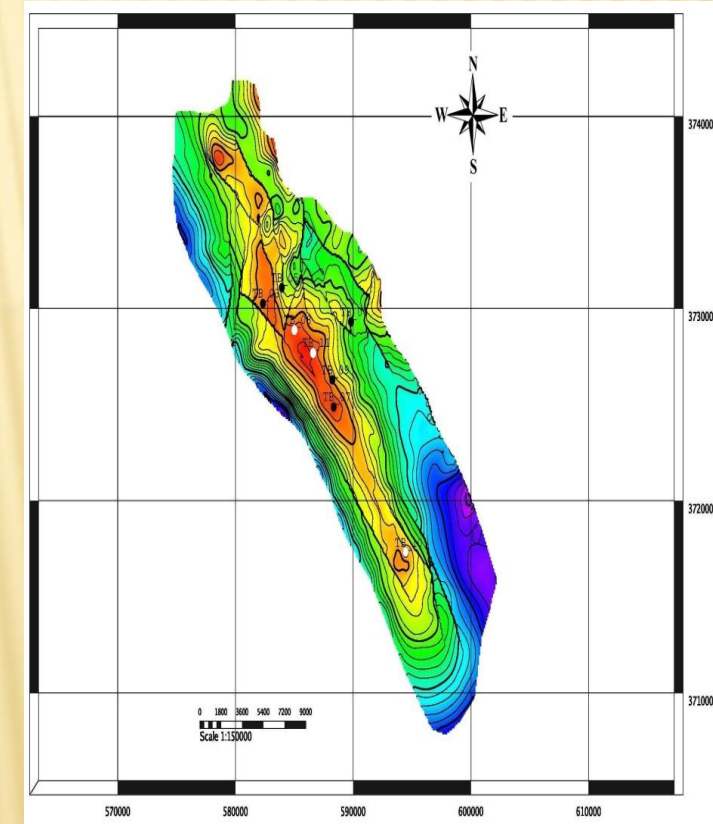
GENERAL SPECIFICATIONS OF TANG-E-BIJAR GAS FIELD

□ **Current:** ۲۴۷ MMSCF/D



✓ The lean gas is sending to the NIGC for domestic consumption, Ethane and Propane are sending to the Petrochemical Company and Gasoline is sending to the NIORDC.

□ **Phase ۲ (Estimated):** ۱.۶ MMSCF/D (Totally ۳۵۳ MMSCF/D)

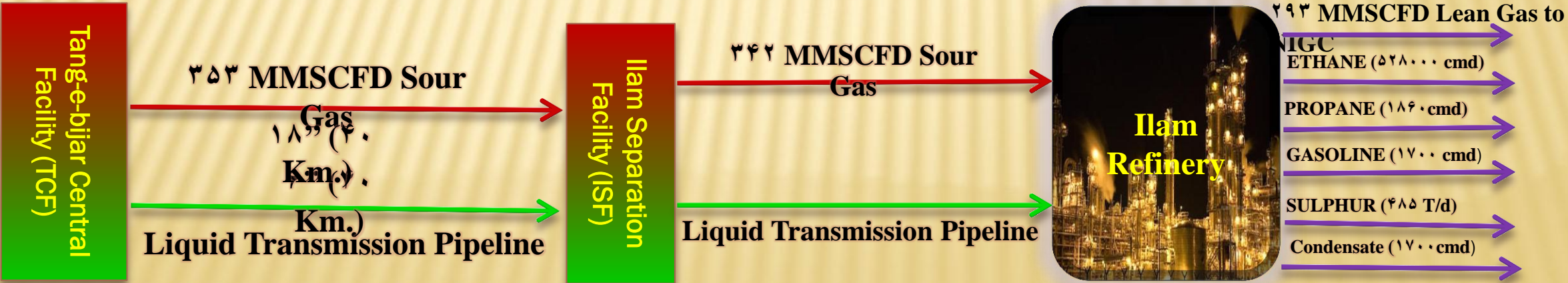
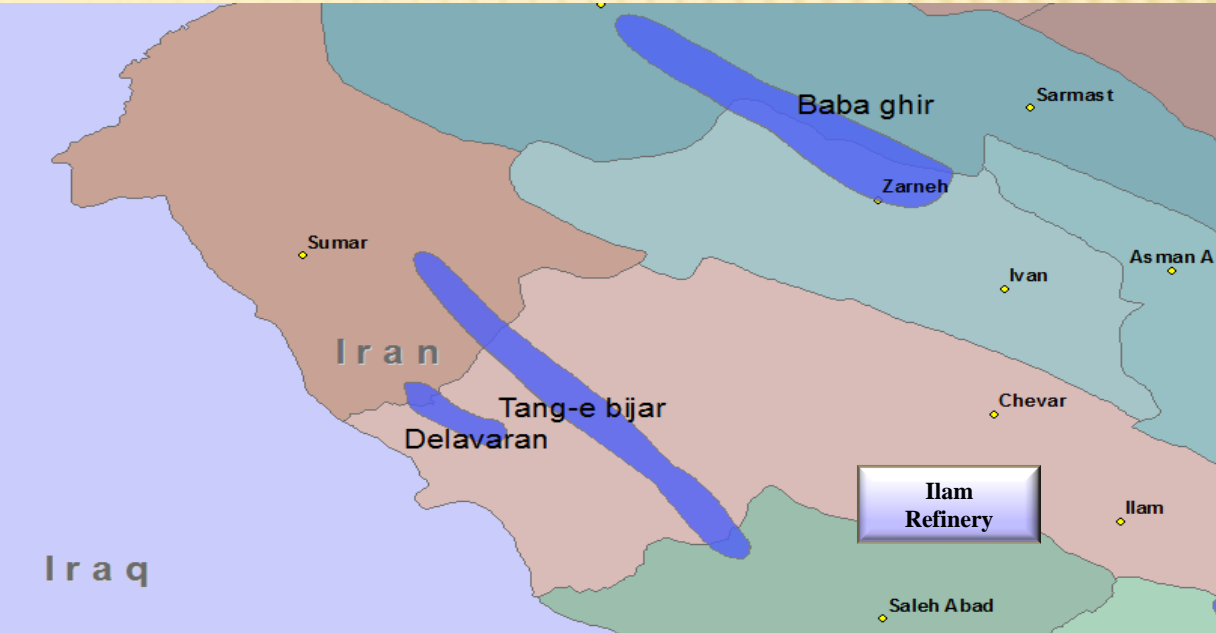


Field	OGIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	۱.۹ SCF	۱.۹ SCF	۱.۶ SCF/d	۱.۶ SCF/d
Tang-e-bijar	۸۱۷.	۲۲۴	۲۴۷	۳۵۳

ILAM REFINERY

Phase ۲ (Estimated): ۳۵۳ MMSCF/D

Increasing the capacity of Ilam refinery to ۳۵۳ MMSCFD is considering as Phase-۲.



TEHRAN SUMMIT

The Introduction of New Iran Petroleum Contracts – IPC

Tehran – ۲۰۱۵

AOGC Onshore Projects

By: Mr. Noshadi
Engineering and Construction Manager



SUSANGERD, JUF AIR, SEPEHR, BAND-E-KARKHEH, ARVAND, SOHRAB FIELDS



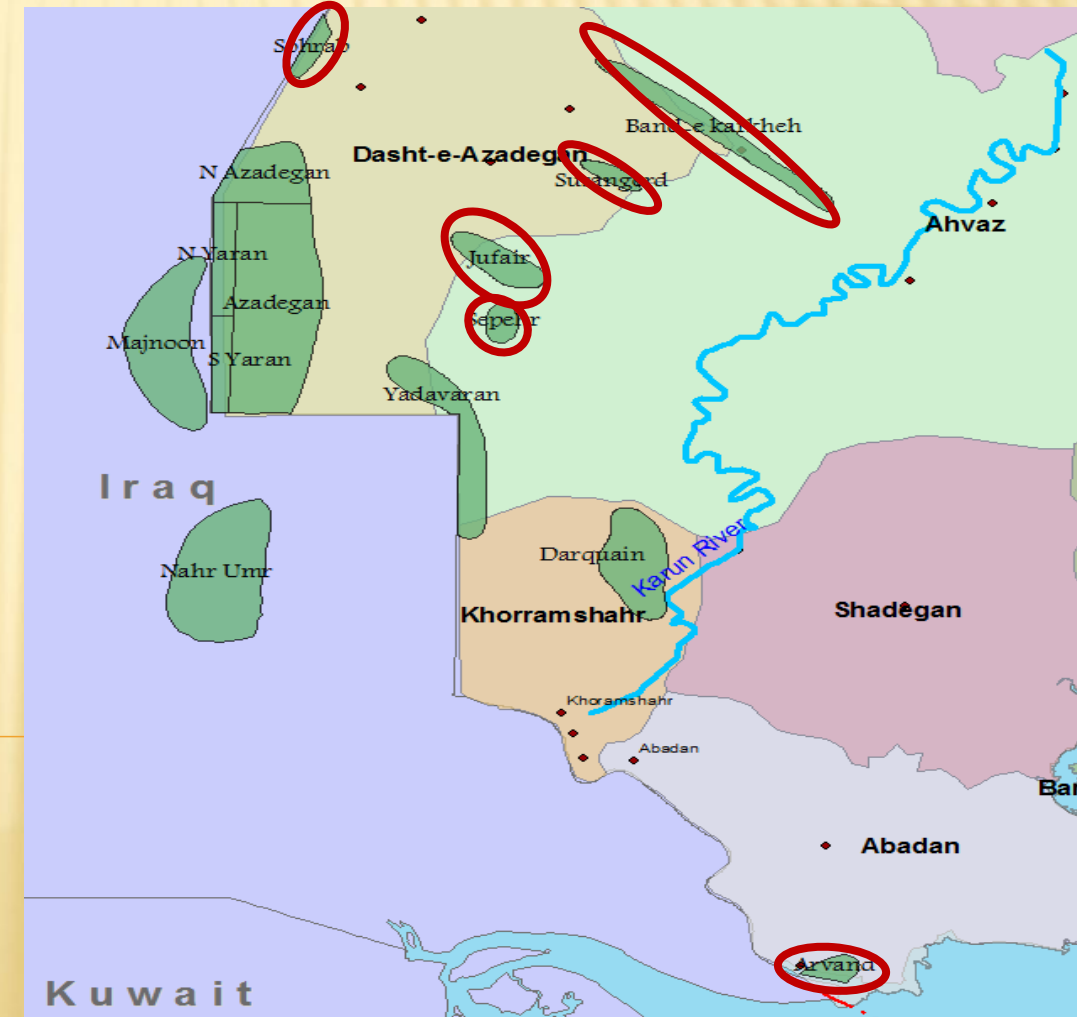
Susangerd, Jufair, Sepehr, Band-e-karkheh, Arvand and Sohrab fields are located in the west of Karoon river in an area called Arvandan.

These fields can be considered as one package.

The potential production from all the above mentioned fields is expected to be ۹۲ MSTB/D.

Most of the produced oil will be processed in West Karoon Processing Unit with the capacity of ۱۶۵ MSTB/D.

Arvand and Sohrab fields are cross-border fields.





SUSANGERD FIELD

LOCATION OF SUSANGERD FIELD



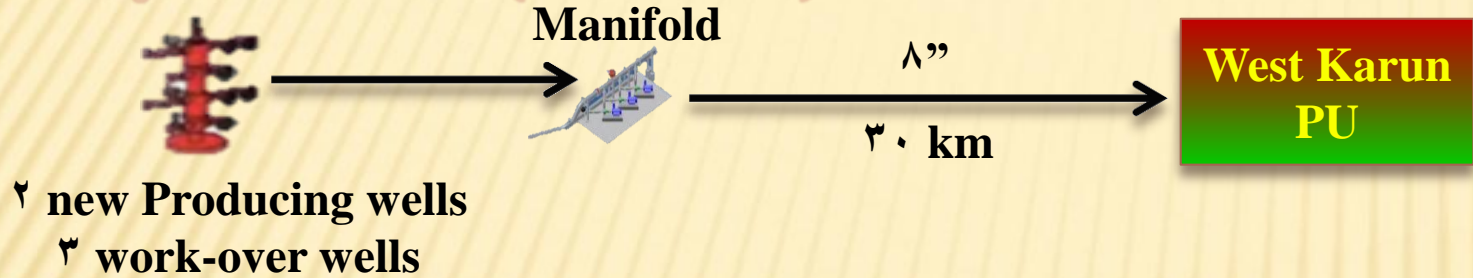
- ❑ Susangerd field is located about ۴۵ Km. northwest of Ahwaz, in north Dezful region and south of Band-e-Karkheh field.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۲۰۱۰	--	۲۷x۴	۲D	۱ Expl. ۲ Appr.	Asmari Ilam Sarvak	۱۶ ۲۲ ۲۰

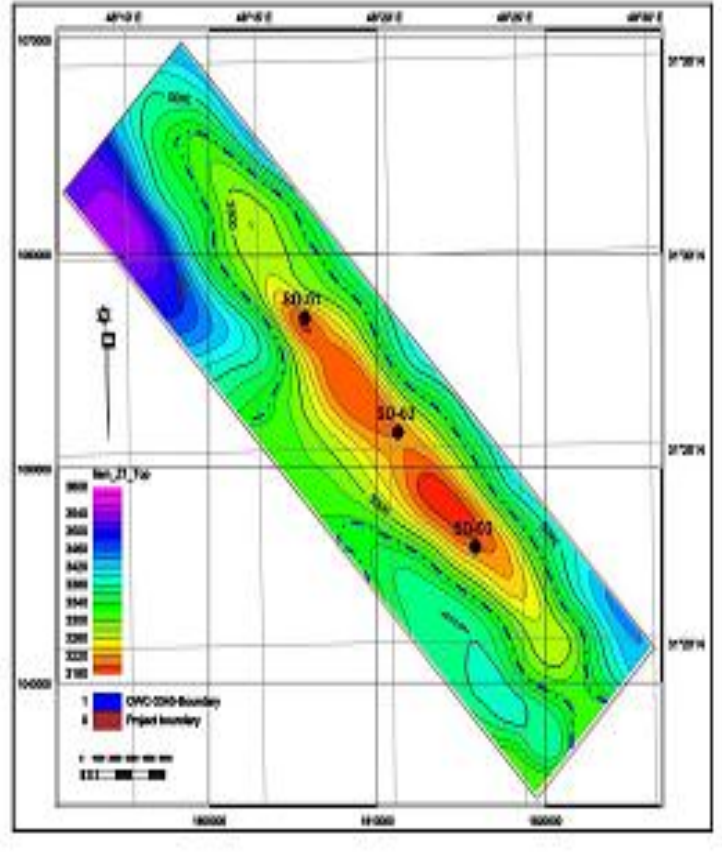
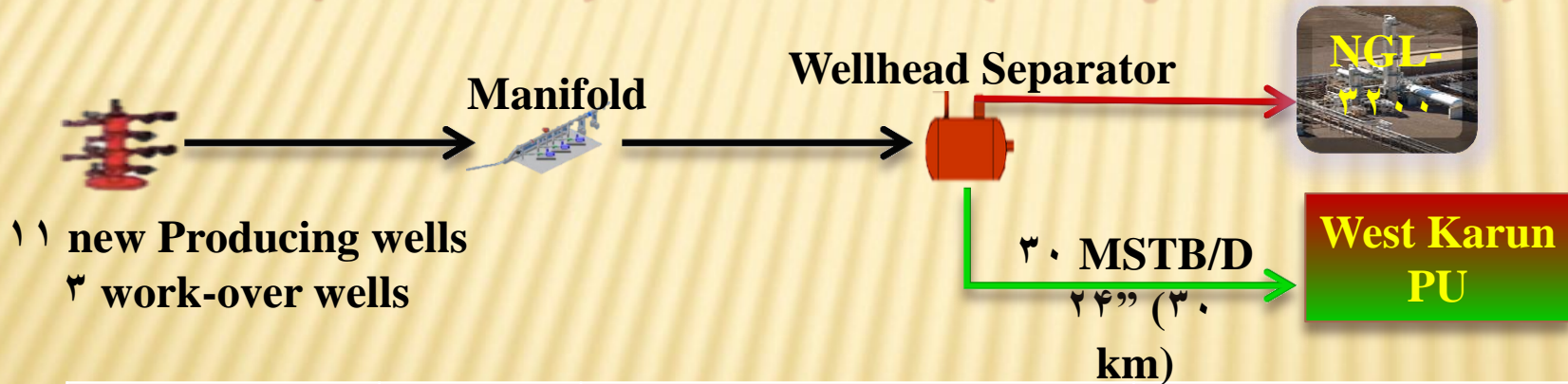
SUSANGERD FIELD

GENERAL SPECIFICATIONS

□ **Early Production (Estimated):** ۱ • MSTB/D



□ **Phase ۱ (Estimated):** ۲ • MSTB/D (Totally ۳ • MSTB/D)



Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Susangerd	۶۹۹۶	•	•	۳ •



JUFAIR FIELD

LOCATION OF JUF AIR FIELD



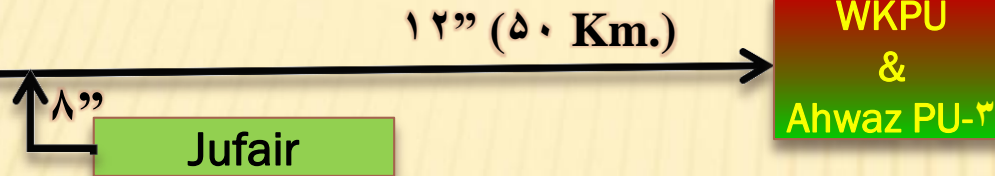
- Jufair oil field is located in Khuzestan province and about ۵۰ Km. west of Ahwaz near Azadegan, Yadavar and Ab-Teymour oil fields.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۱۹۷۵	۲۰۱۰	۱۴x۷	۳D	Totally ۶ (۴ prod.)	Ilam Sarvak Gadvan Fahliyan	۱۸ ۲۰ ۲۳ ۳۴

JUFAIR FIELD GENERAL SPECIFICATIONS

❑ Current Production: ۱.۳ MSTB/D

North & South
Azadegan's Clusters



❑ Early Production (Estimated): ۱.۰ MSTB/D



♣ Producing Wells
 ⬠ Workover Wells
 ♣ Appraisal Wells

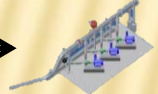
West Karun
PU

❑ Phase ۱ (Estimated): ۱.۷ MSTB/D

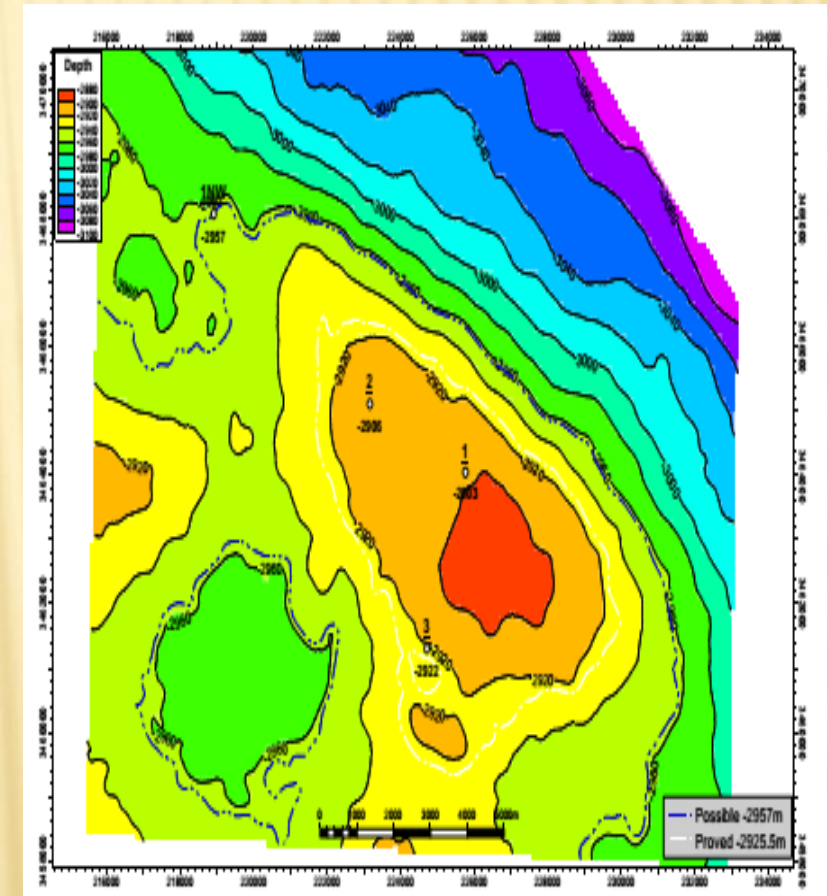


۱۳ Producing Wells
 ⬠ Workover Wells
 ♣ Appraisal Wells

Two Manifolds



West Karun
PU



Field	STOIP	Cumulative Production	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Jufair	۳۵۱۴	۱.۶۵	۱.۳	۱.۷



SEPEHR FIELD

LOCATION OF SEPEHR FIELD



- Sepehr oil field is located about ۶۰ Km. southwest of Susangerd, ۹۰ Km. of southwest of Ahwaz and in west of Karun river.
- It is thought that the field is extended to Jufair oil field.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۲۰۱۱	--	۱۸x۹	۲D	۱ Expl. ۱ Appr.	Ilam Fahliyan Gadvan	۲۲-۲۳ ۳۸ ۳۴-۳۸

SEPEHR FIELD

GENERAL SPECIFICATIONS

□ **Early Production (Estimated):** ۵ MSTB/D

□ **Phase ۱ (Estimated):** Totally ۱۵ MSTB/D



Field	STOIP	Cumulative Production (Up To Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Sepehr	۸۳۸	.	.	۱۵



BAND-E-KARKHEH FIELD

LOCATION OF BAND-E-KARKHEH FIELD

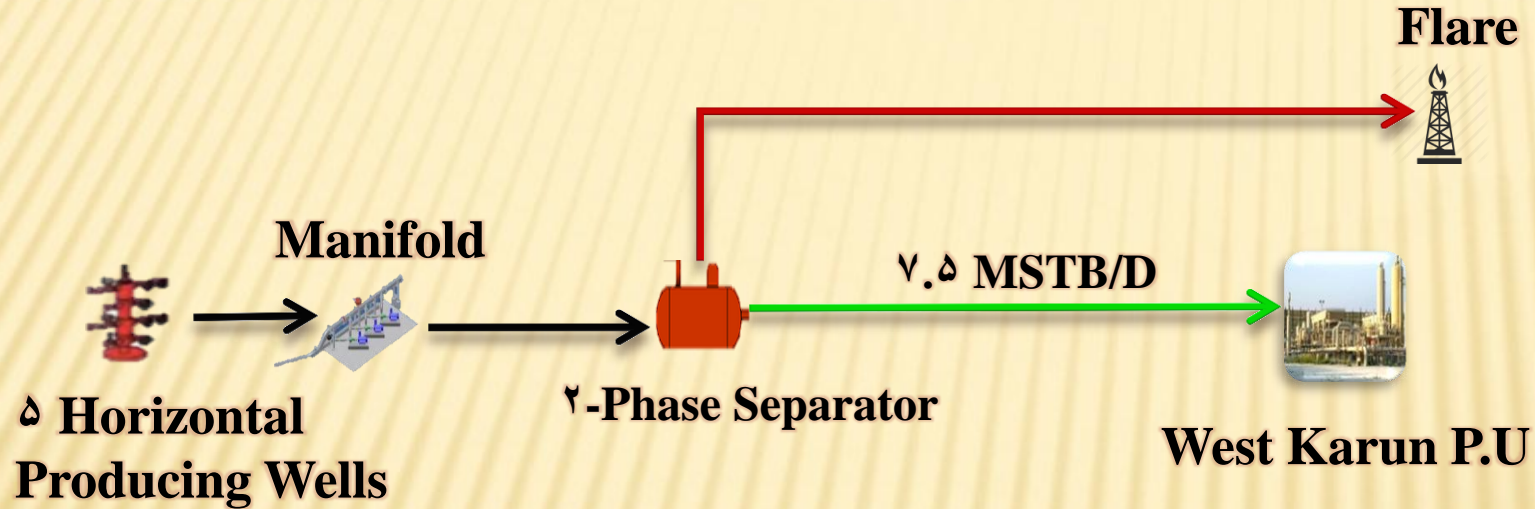


- ❑ Band-e-karkheh oil field is located about ۲۰ Km. from Ahwaz in Khuzestan province.
- ❑ This field was discovered in ۱۹۶۱ by seismic surveys and the first well in the field was drilled in ۱۹۶۷. After re-investigation of the field in ۲۰۰۰'s, in Mehr block exploration project by OMV Co. and after drilling of two new wells in the field, the existence of oil in Ilam and Sarvak was proved thereafter, the exploration of Band-e-karkheh oil field was announced in ۲۰۰۵.

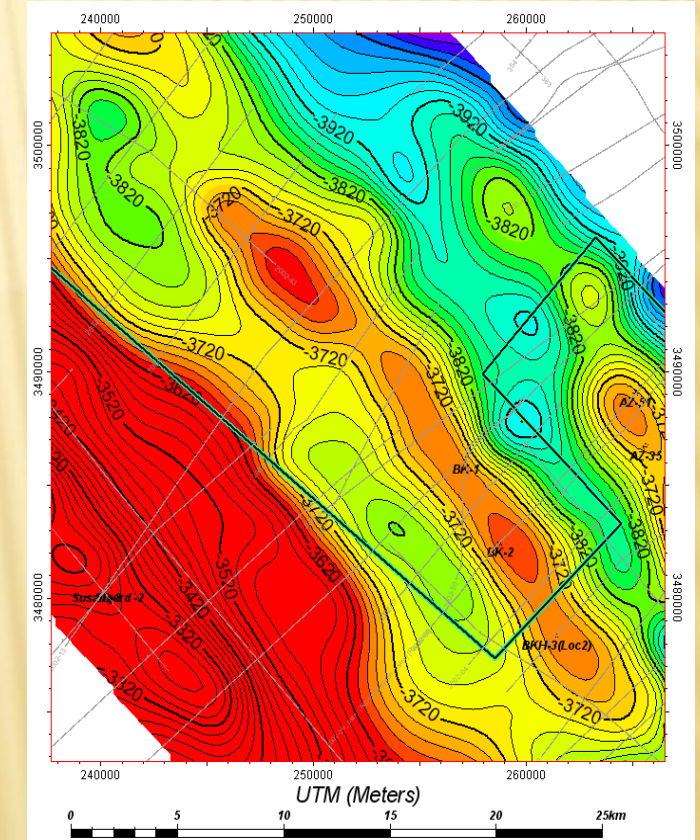
Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۲۰۰۵	--	۵۰x۵	۳D	۲ Expl. ۱ Appr.	Ilam Sarak	۲۰ ۲۲

BAND-E-KARKHEH FIELD GENERAL SPECIFICATIONS

❑ **Early Production (Estimated): ۷.۵ MSTB/D**



❑ **Final Phase (Estimated): Totally ۱۵ MSTB/D**

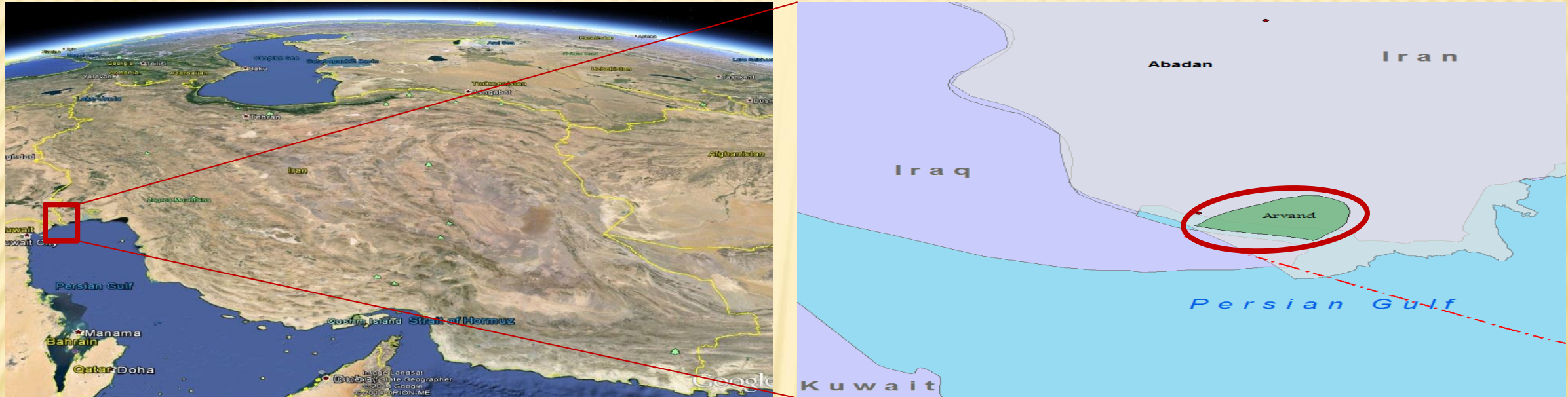


Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Band-e-Karkheh	۳۴۶۸	.	.	۱۵



ARVAND FIELD

LOCATION OF ARVAND FIELD

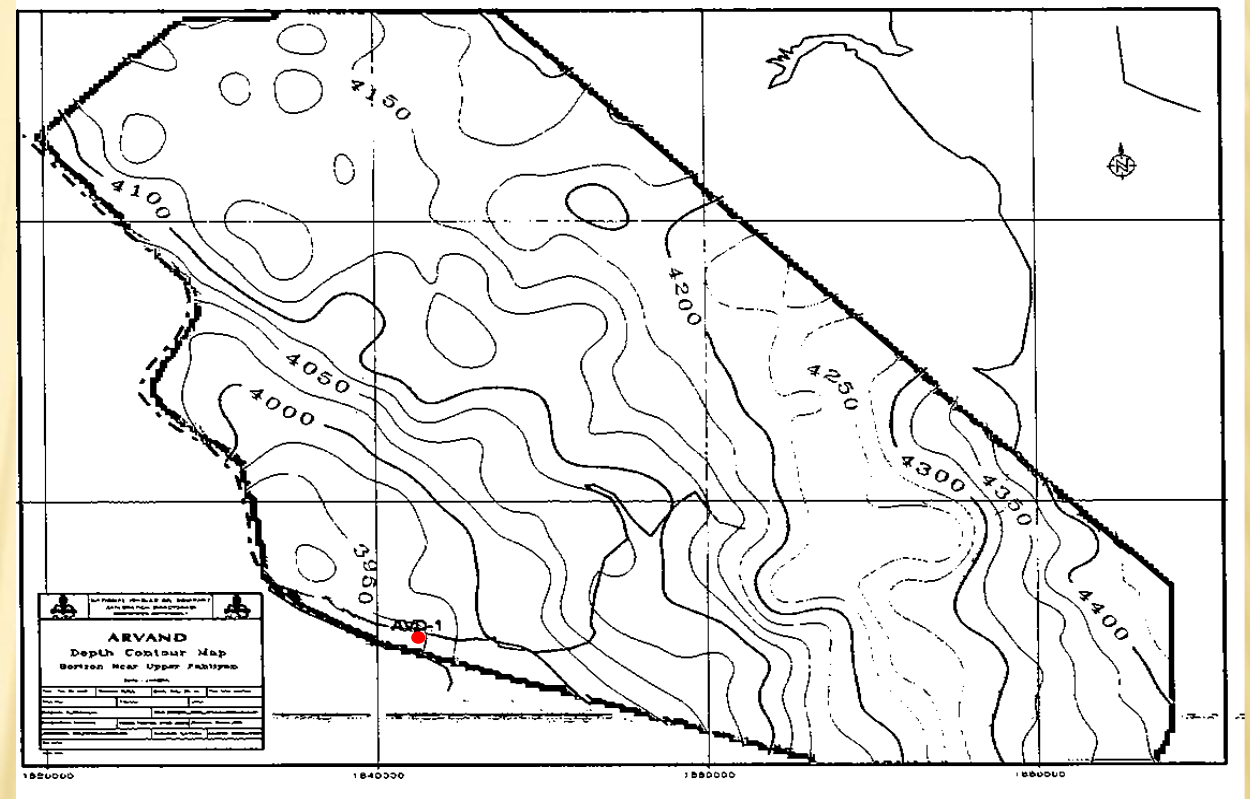


- Arvand oil field is located about ۵۰ Km. south of Abadan near Arvand river. The field Straddles Iran-Iraq border.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۲۰۰۸	N/A	۴۳x۸	۲D	۱ Expl. ۲ Appr.	Fahliyan	۴۴

ARVAND FIELD GENERAL SPECIFICATIONS

□ **Plan:** The estimated rate of production from the field is ۱.۰ MSTB/D.



Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Arvand	۱۱۱۴	.	.	۱.۰



SOHRAB FIELD

LOCATION OF SOHRAB FIELD



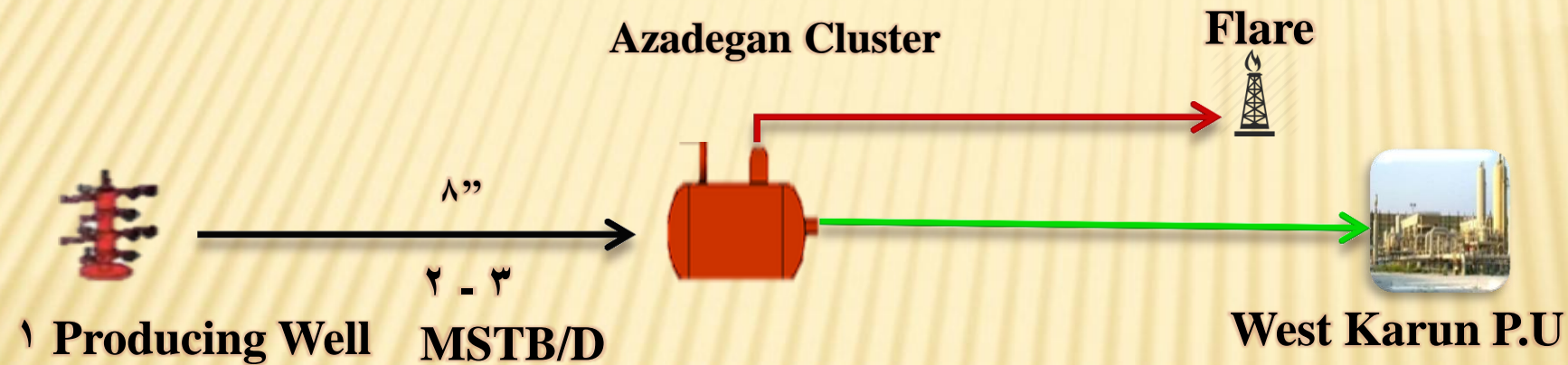
- ❑ Sohrab oil field is located about ۱۱۵ Km. northwest of Ahwaz, in Abadan plain, and north of Azadegan field along Iran-Iraq border.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۲۰۱۲	N/A	۱۲x۷	۲D	۱ expl. ۱ Appr.	Upper Ilam lower Ilam Sarvak Kazhdumi	۱۲ ۱۶ ۱۸ ۳۰

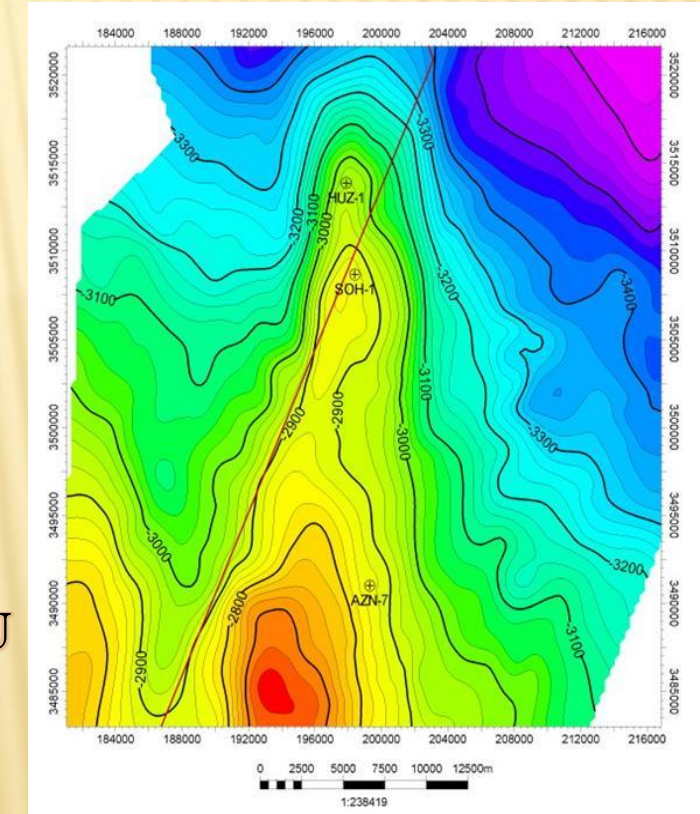
SOHRAB FIELD GENERAL SPECIFICATIONS

❑ **Appraisal and Early Production: ۲-۳ MSTB/D**

➤ **Drilling of second exploration well is undergoing.**



❑ **Estimated Field Production: ۵ MSTB/D**



Field	STOIP	Cumulative Production (Up to Now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Sohrab	۷۳۶	.	.	۵

TEHRAN SUMMIT

The Introduction of New Iran Petroleum Contracts – IPC

Tehran – ۲۰۱۵

PEDEC Onshore Projects

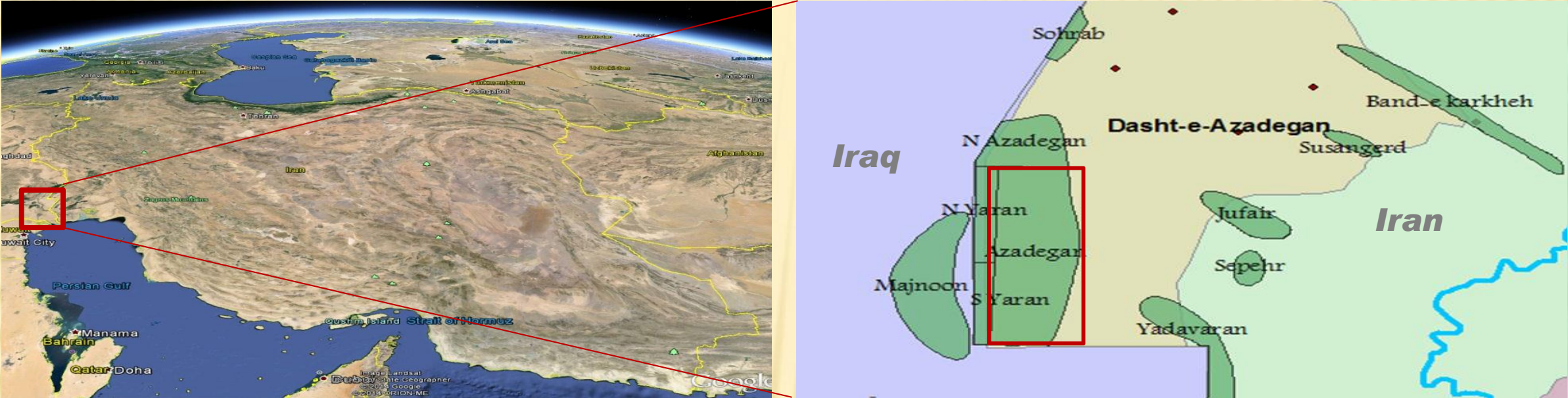
By: Mr. Behbahani

Director, North Azadegan Oil Field Development Project/AMAK Gas Gathering and Treatment Project/Internal Resources Projects



SOUTH AZADEGAN FIELD PHASE ۲

LOCATION OF SOUTH AZADEGAN OIL FILED



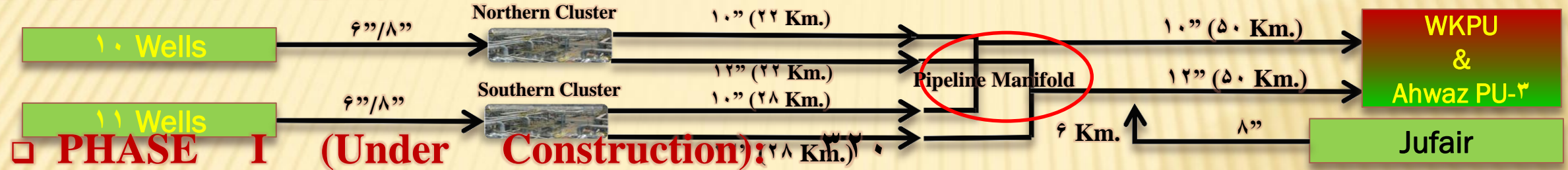
❑ Azadegan oil field in south west of Iran is located about 10 Km. west of Ahwaz and straddles the Iran-Iraq border.

Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm			mid-to-late Cretaceous	Degrees
1999	2008	43x17	3D	6 expl. 21 prod.	Sarvak Kazhdumi Gadvan Fahliyan	20 30 32 35

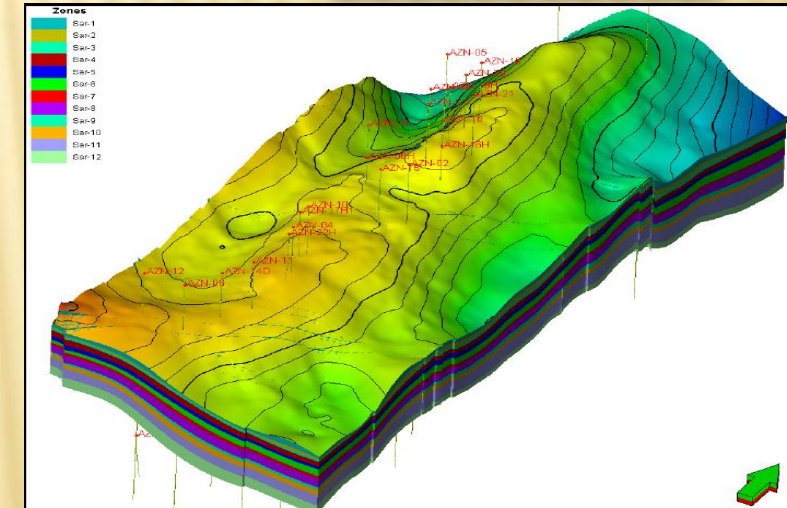
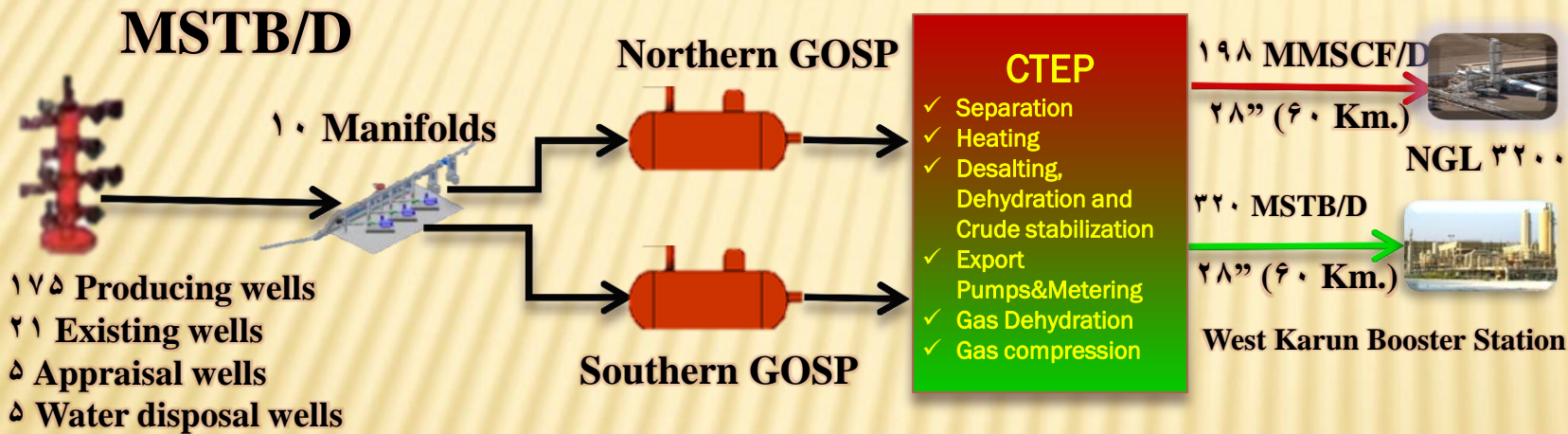
SOUTH AZADEGAN OIL FIELD

GENERAL SPECIFICATIONS

□ CURRENT: ۵, MSTB/D



□ PHASE I (Under Construction): ۲۸, MSTB/D



□ PHASE-۲ (Estimated): Total field production of ۶۰, MSTB/D (۲۸, MSTB/D additional production in phase-۲).

Field	STOIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
South Azadegan	۲۵۶۴۲	۹۹	۵۰	۶۰۰



CHANGULEH OIL FIELD

LOCATION OF CHANGULEH OIL FIELD

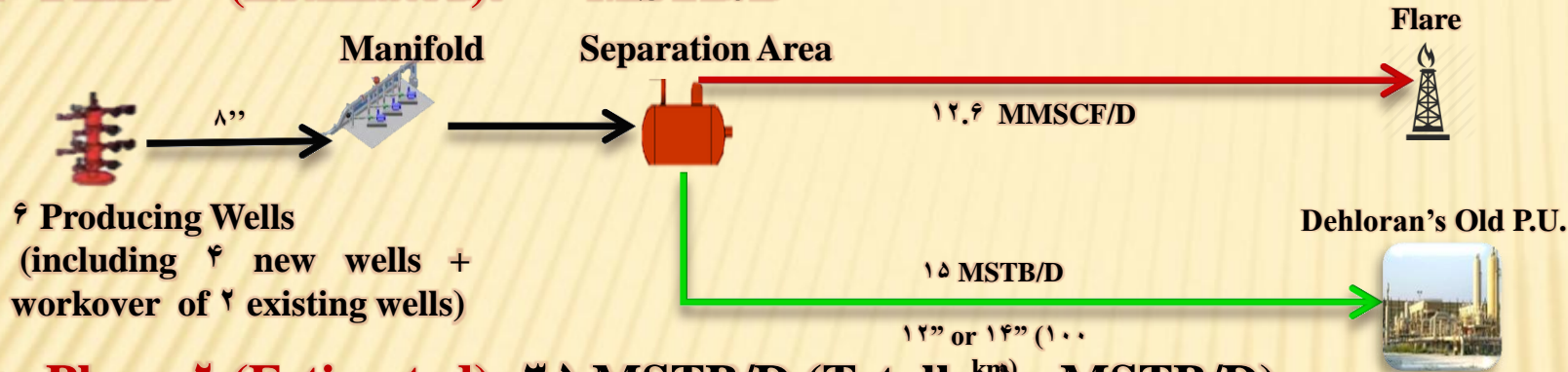


❑ Changuleh oil field is located 10 Km. northwest of Dehloran city and situated at northwest part of the North Dezful basin in Ilam province.

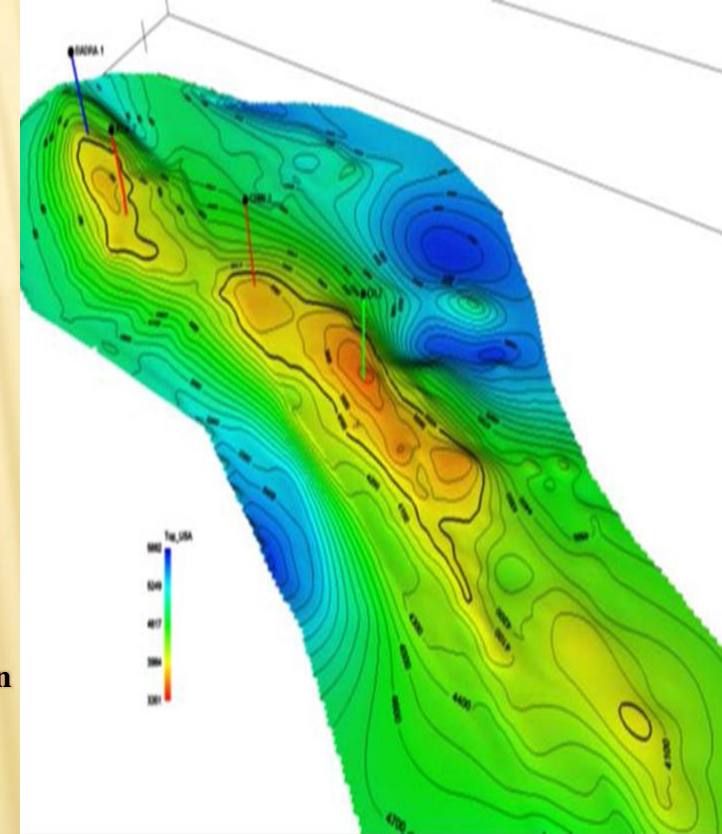
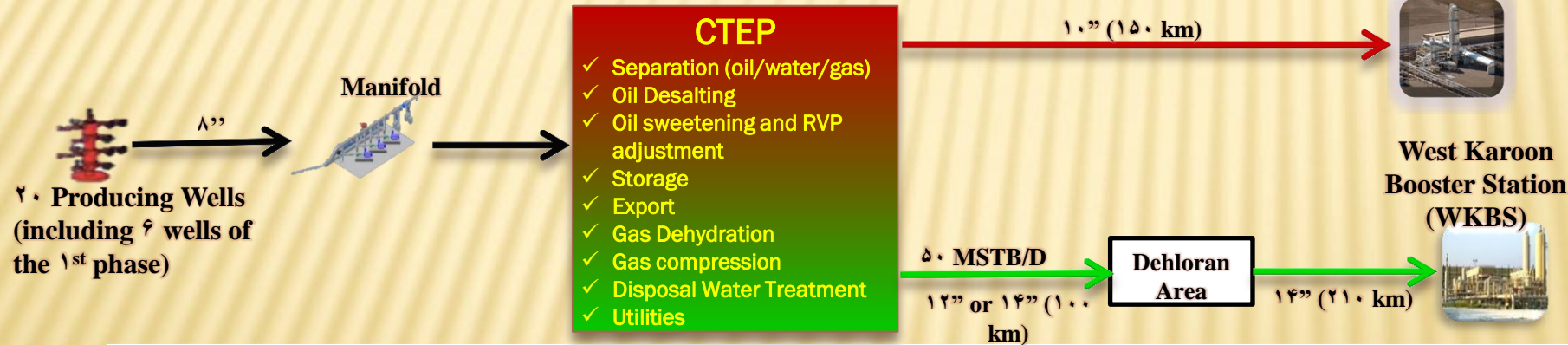
Disc.	Prod. init.	Dim.	Seismic Data	No. Wells	Formation	API
year	year	kmxkm				Degrees
۱۹۹۹	N/A	۵۰x۵	۳D	۳ Expl.	Bangestan	۲۴

CHANGULEH OIL FIELD GENERAL SPECIFICATIONS

Phase 1 (Estimated): 15 MSTB/D



Phase 2 (Estimated): 35 MSTB/D (Totally 50 MSTB/D)



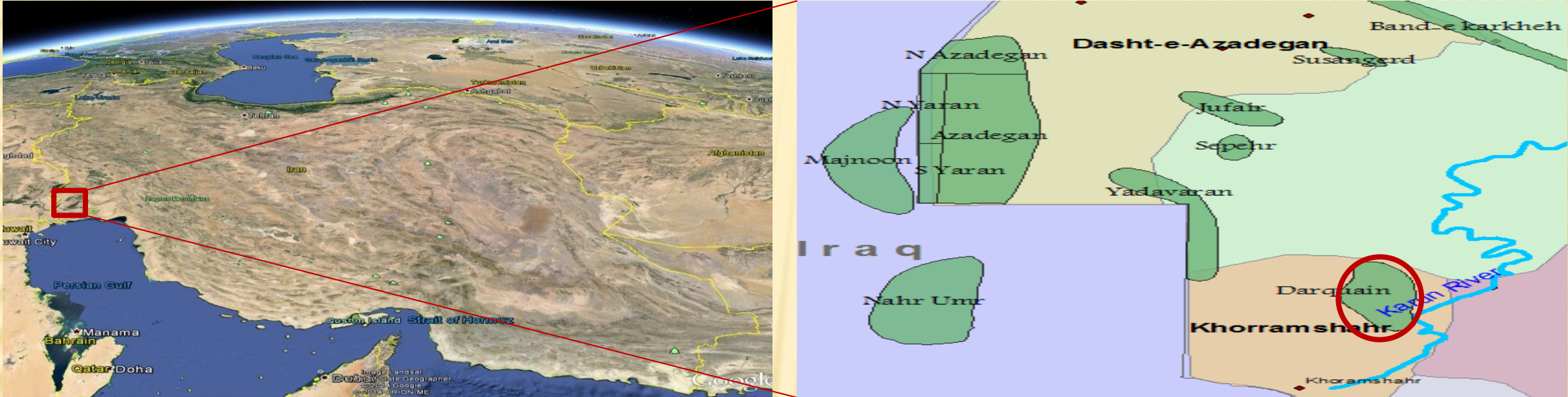
Field	STOIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
	MMBbl	MMBbl	MBbl/d	MBbl/d
Changuleh	2367	.	.	50



DARQUIN FIELD

PHASE ۳

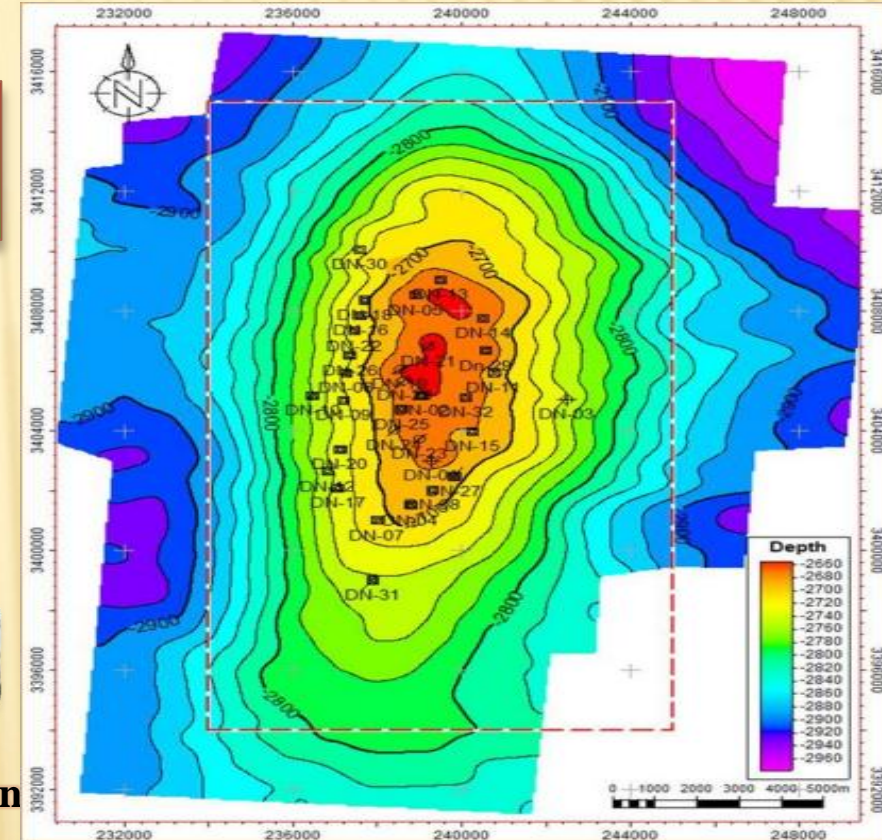
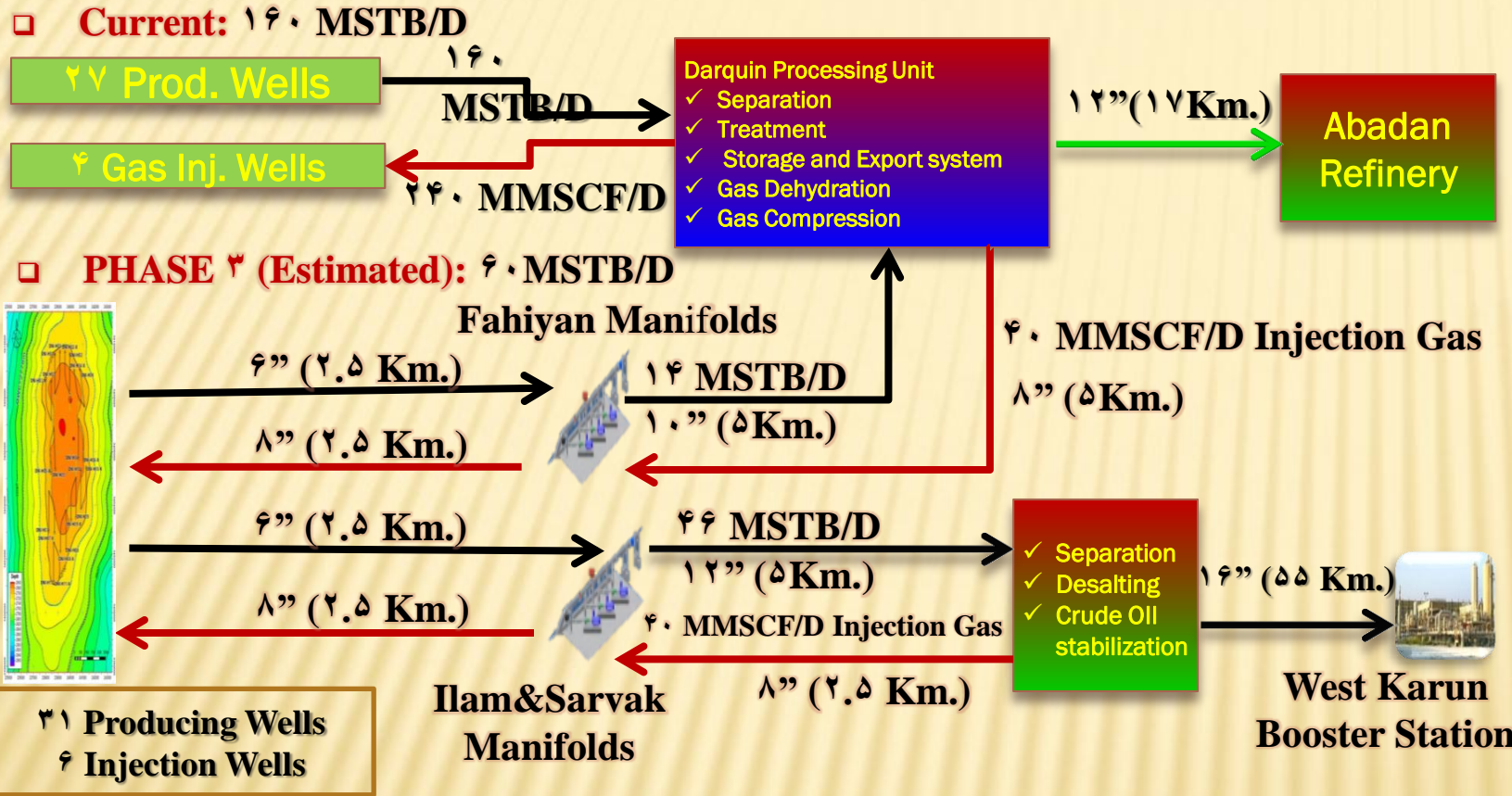
LOCATION OF DARQUIN FIELD



Darquin oil field is located ۳۰ Km. north of khorramshahr and ۱۰۰ Km. southwest of Ahwaz field.

Dim.	Seismic Data	No. Wells	Formation	Disc.	Prod. init.	API
Kmxkm				Year	year	Degrees
۲۰x۱۰	۳D	۲۷ Prod.	Fahliyan	۱۹۶۴	۲۰۰۲	۳۹
		۴ Gas Inj.	Ilam	۱۹۹۳	--	۲۲-۲۷
		۲ App.	Sarvak	۱۹۹۳	--	۲۲-۲۷

DARQUIN OIL FIELD GENERAL SPECIFICATIONS



Field	Reservoir	STOIP	Cumulative Production (Up to now)	Current Production	Total Estimated Production
		MMBbl	MMBbl	MBbl/d	MBbl/d
Darquin	Ilam, Sarvak and Fahliyan (phase ۳)	۲۵۶۶	.	.	۶۰
	Fahliyan	۵۳۷۹	۲۹۴	۱۵۰	۱۶۰