GROUP POISK

СЕВАСТОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

RSS-NMR SEVSU Poisk

POISK Grubu

Üretimdeki olgun sahalarda yeniden arama

Örnek projeler

Örnek olay I. Rusya. Üretim alanı

Bu çalışmanın amacı

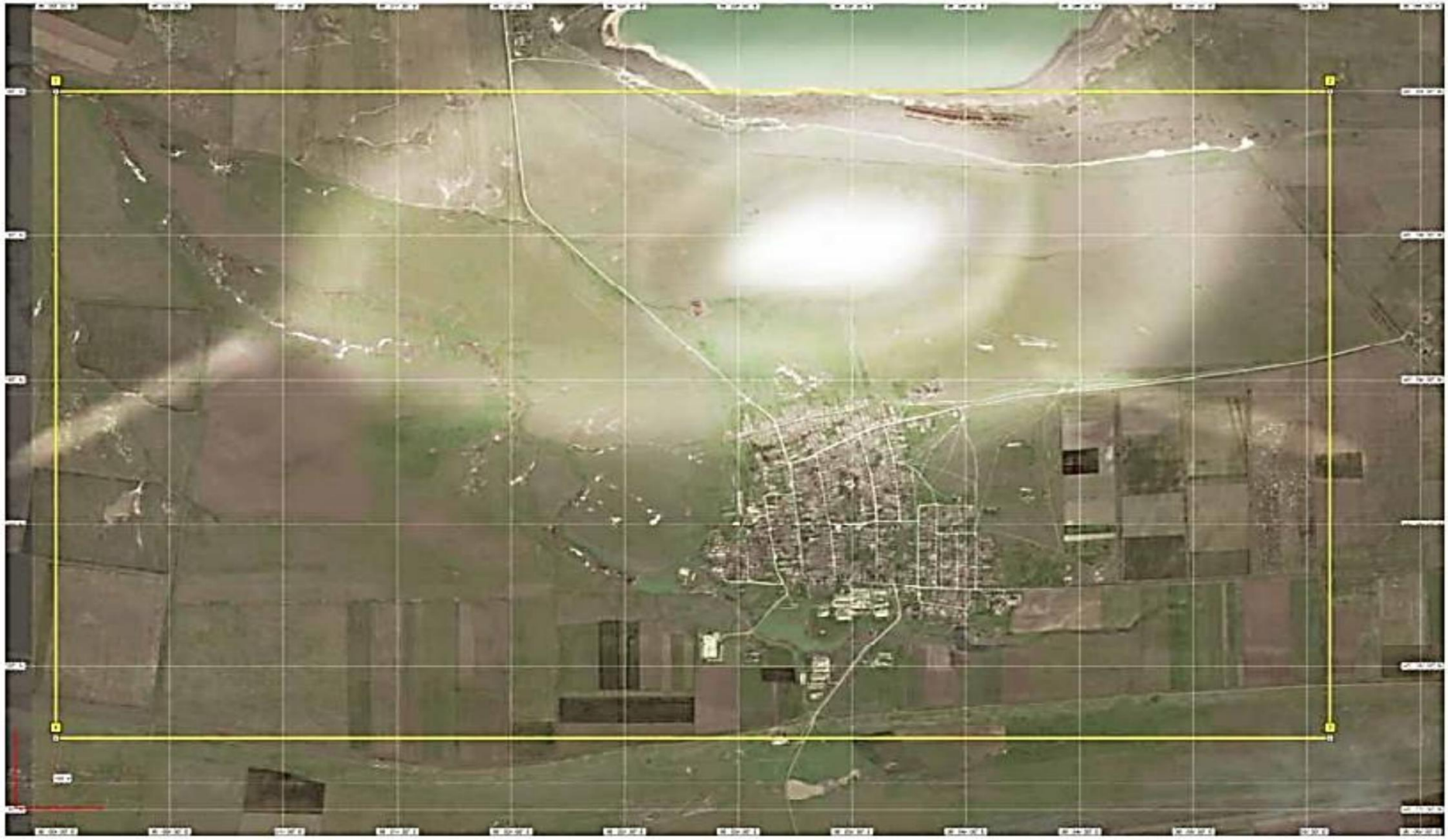
Gaz kondensat üretim sahasında sondaj yapılmamış veya keşfedilmiş yataklarla ilişkili hidrokarbon anormalliklerinin tanımlanması ve tanımlanması

1) Uydu verilerini işleyerek (adım I) ve mobil rezonans kanıtlayıcı yer ekipmanı kullanarak anormal alanları ayrıntılı olarak inceleyerek (adım II) çalışma alanındaki hidrokarbon anormalliklerini belirleyin ;
2) Anormalliklerdeki hidrokarbon rezervuarlarının derinliklerini ölçün
3) Hidrokarbon rezervuarlarının kalınlığını tahmin edin;
4) Gaz oluşumunun gözenekli kısmının ortalama kalınlığını ve her ufuktaki gaz basıncını tahmin edin;
5) Gaz geçirgen kayalar boyunca hidrokarbon göç yollarının haritasını çıkarmak;

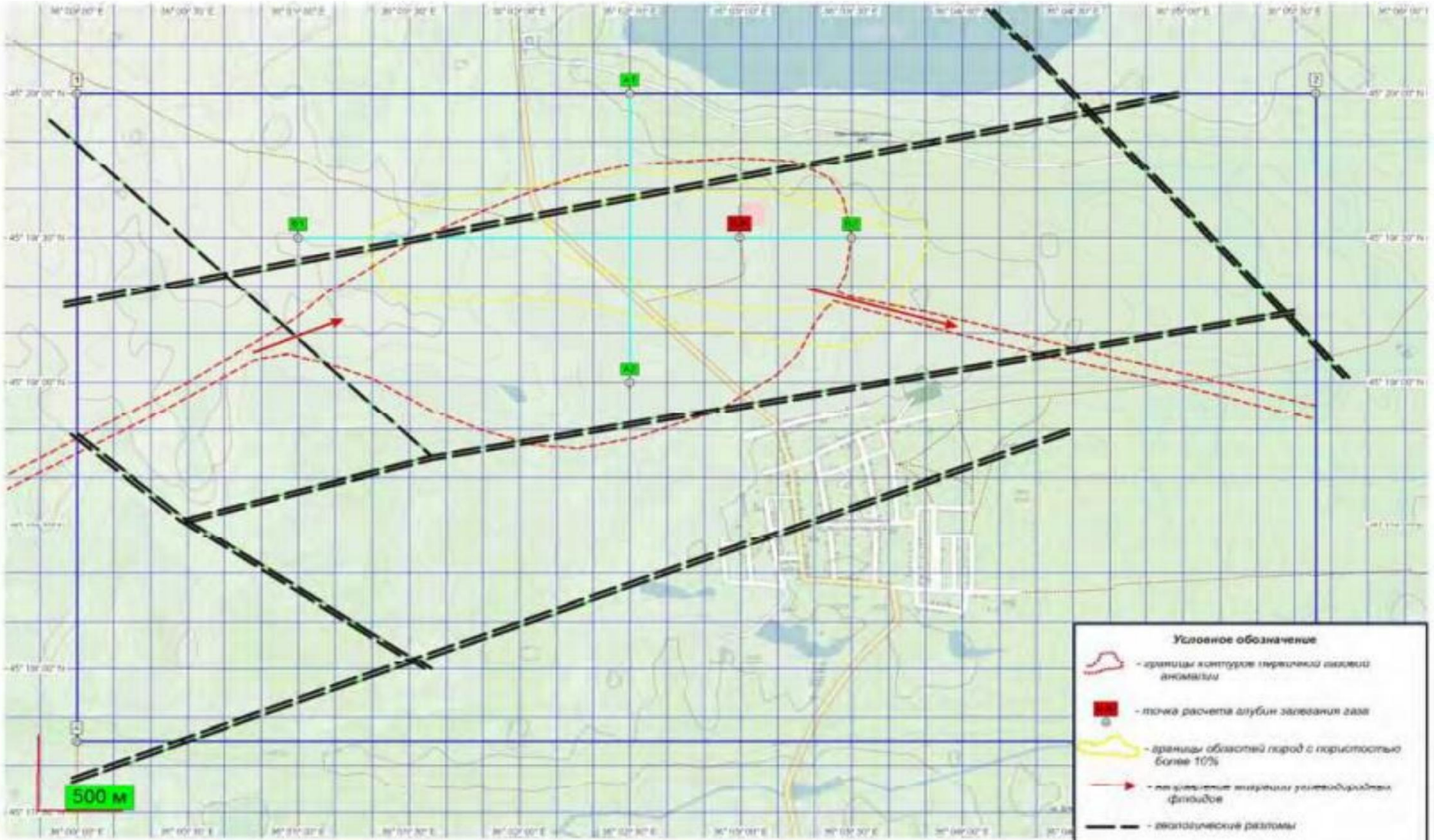
6) Hidrokarbon katmanları için rezervuar kaya türlerini belirleyin;
7) 500 m'yi aşmayan ölçüm adımıyla anormallikler üzerindeki hidrokarbon rezervuarlarının derinlik profillerini oluşturun ;
8) Belirlenen anormalliklerdeki hidrokarbon kaynaklarını tahmin edin.

Örnek olay I. Rusya. Faz I üretim alanı (uzaktan algılama). Düzen

Örnek olay I. Rusya. Faz I üretim alanı (uzaktan algılama). Haritalanmış anomaliler

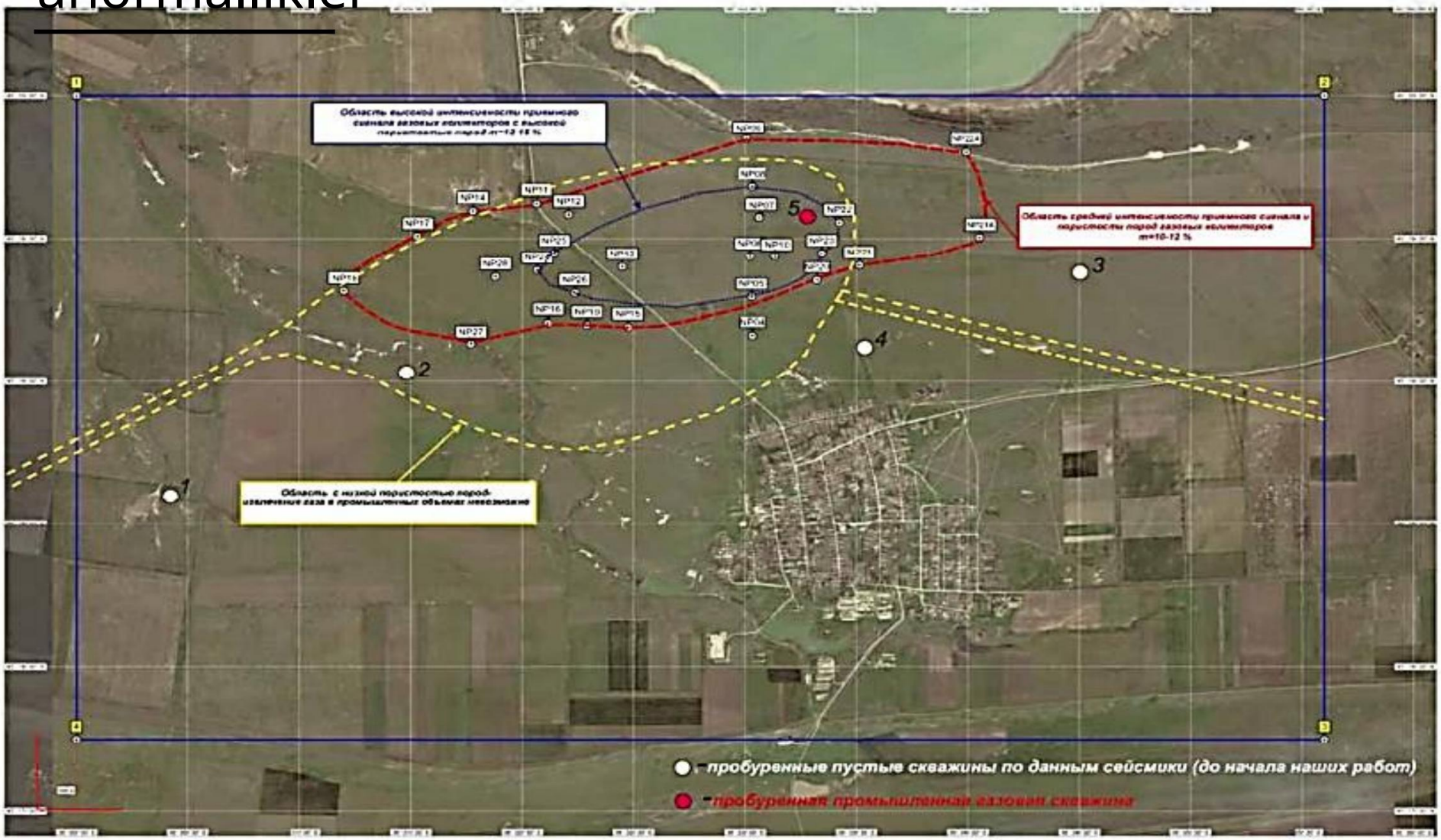


Örnek olay I. Rusya. Faz I üretim alanı (uzaktan algılama). Varsayılanlar



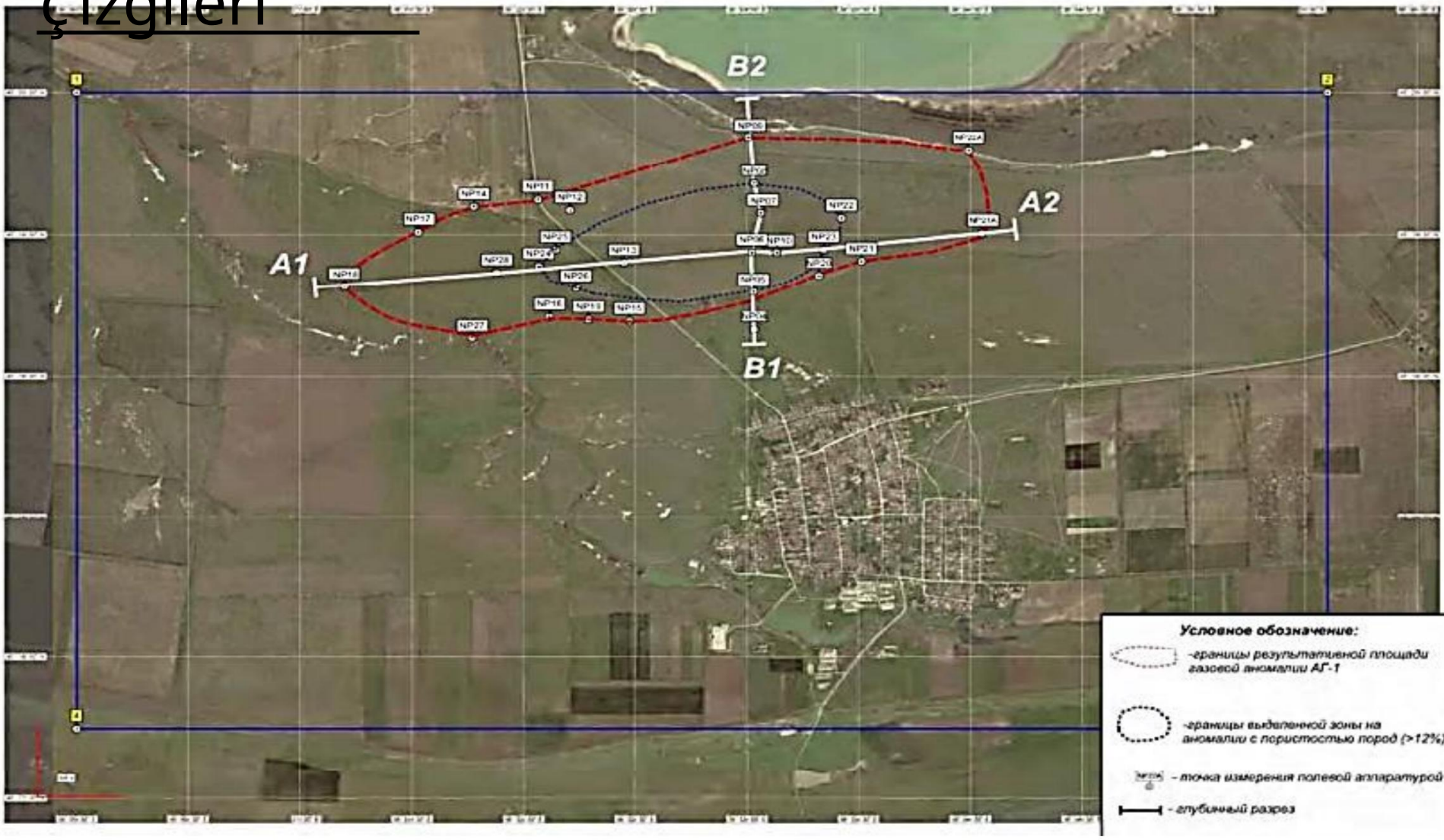
Örnek olay I. Rusya. Üretim alanı

Aşama II (saha araştırması). Onaylanmış anormallikler

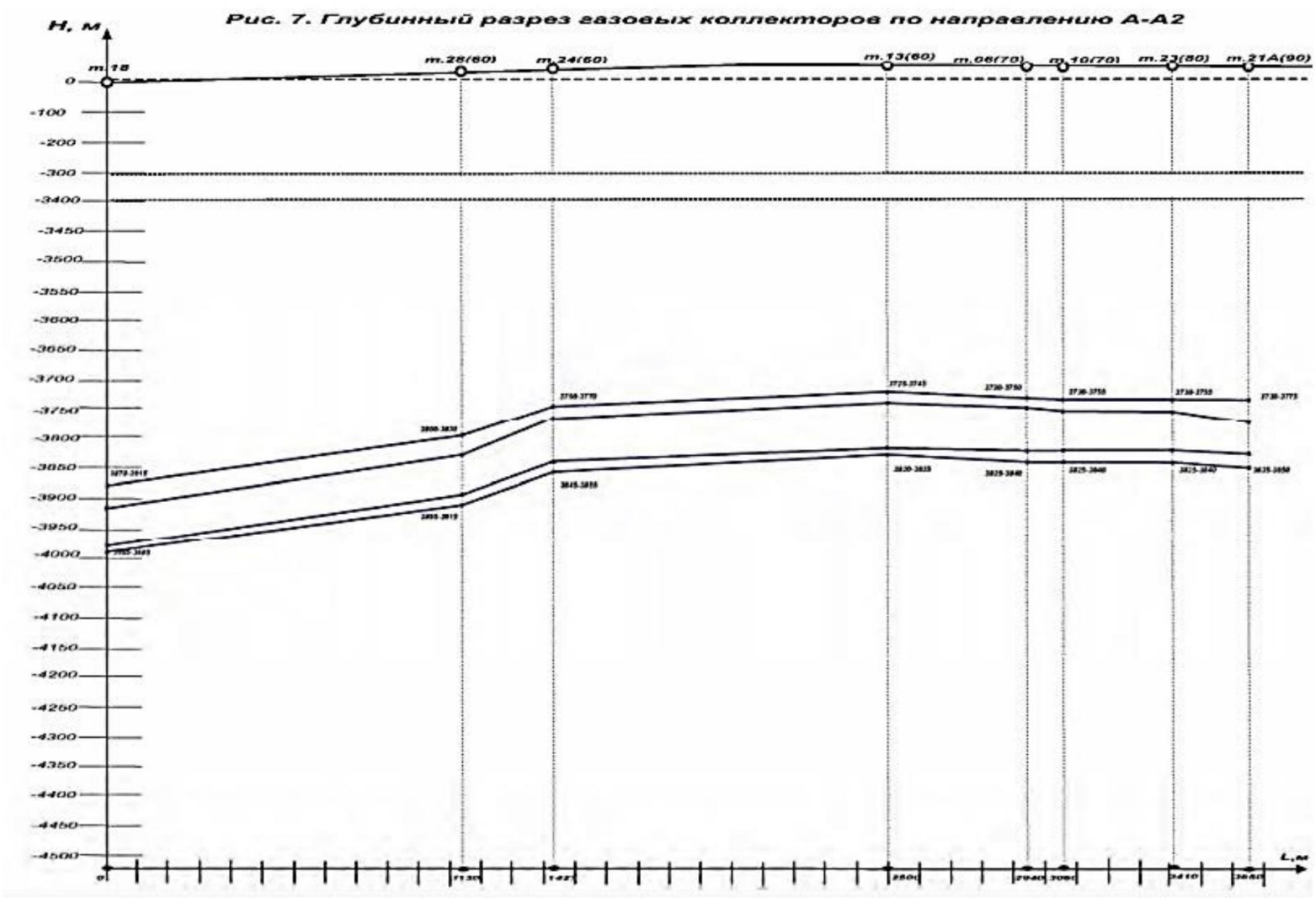


Örnek olay I. Rusya. Üretim alanı

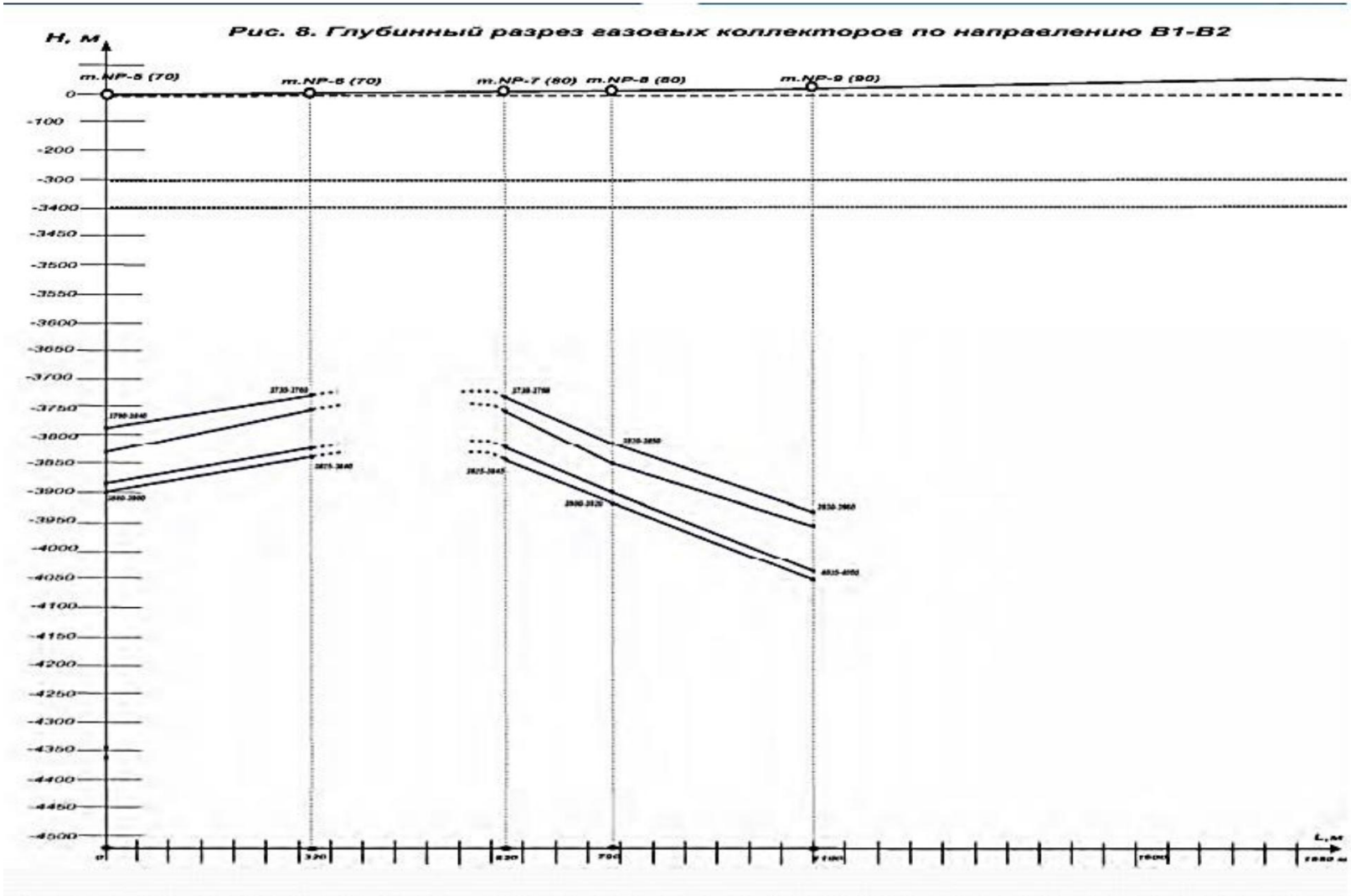
Aşama II (saha araştırması). Derinlik tahmin çizgileri



Örnek olay I. Rusya. Faz II üretim alanı (saha araştırması). Derinlik tahmini



Örnek olay I. Rusya. Faz II üretim alanı (saha araştırması). Derinlik tahmini



Örnek olay I. Rusya. Faz II üretim alanı (saha araştırması). Rezervuar Özellikleri

Location	Lat, N Long, E	Signal features	Altitude above sea level (m)	Gas reservoirs depth $-H_1$, $-H_2$ (m)	Rock types. Pressure (P, MPa)	Gas reservoir thickness, Δh (m)
1	2	3	4	5	6	7
NP04	45°19'9,7" 36°3'2,0"	The "gas" signal, the background values of the signal. Of no commercial value	70	-	-	-
NP05	45°19'17,7" 36°3'1,8"	Gas. The southern tip of the productive anomaly. Maximum signal intensity. Measurement of gas reservoir occurrence parameters.	70	(I) -3790÷3830; (II) -3880÷3900.	Porous sandstone, P_1=50; P_2=55	30 10
NP06	45°19'26,2" 36°3'1,4"	Gas. The maximum amplitude of the signal. Measurement of gas reservoir occurrence parameters.	70	(I) -3730÷3760; (II) -3825÷3840.	Porous sandstone, P_1=50; P_2=55	25 10
NP07	45°19'34,4" 36°3'3,8"	Gas. The maximum amplitude of the signal. Measurement of gas reservoir occurrence parameters.	80	(I) -3730÷3750; (II) -3825÷3845.	Porous sandstone, P_1=50; P_2=55	25 10
NP08	45°19'40,7" 36°3'2,0"	The boundary of the intense signal at the northern part of the anomaly.	80	(I) -3820÷3850; (II) -3930÷3950.	Porous sandstone, P_1=50; P_2=55	25 10
NP09	45°19'51" 36°03'00"	Gas. Average signal intensity. The northern part of the anomaly. Measurement of gas reservoir occurrence parameters.	90	(I) -3930÷3960; (II) -4035÷4050.	-//-	25 10
NP10	45°19'25,9" 36°03'7,1"	Gas. Maximum signal intensity. Measurement of gas reservoir occurrence parameters.	70	(I) -3730÷3755; (II) -3825÷3840.	-//-	25 10

Örnek olay I. Rusya. Üretim alanı

Aşama II (saha araştırması). Derinlik ve rezervuar verileri

№	Location	Altitude above sea level (m)	The depth of occurrence of gas reservoirs from the sea level	Effective thickness of the gas reservoirs (m)
1	P-18	50	3870-3915 3965-3985	30 10
2	P-28	60	3800-3830 3895-3915	25 8
3	P-24	60	3750-3770 3845-3855	25 10
4	P-13	60	3725-3745 3820-3835	20 10
5	P-06	70	3730-3750 3825-3840	20 8
6	P-10	70	3730-3755 3825-3840	25 9
7	P-23	80	3730-3755 3825-3840	25 10
8	P-21A	90	37503775 38353850	20 8

Örnek olay I. Rusya. Üretim alanı

Aşama II (saha araştırması). Kaynak tahmini

Horizon	Gas reservoir size			Depth, H (м)			Average effective thickness h (м)	Porosity m (%)	Water saturation, %	Pressure P (МПа)	Resources ($\cdot 10^6$ м^3)	
	Width (м)	Length (м)	Area S(м^2)	Min	Average	Max					In-place	Recoverable
I	1,3	3,8	$3,2 \cdot 10^6$	3725	3820	3930	20	12÷15	30	50	582,4	416,0
II	1,3	3,8	$3,2 \cdot 10^6$	3820	3930	4048	10	10÷12	40	55	147,84	105,6
Total:			$6,4 \cdot 10^6$								730,24	521,6

Kurtarılabilir hacimler:

$$V_{kayıt} = S \cdot \Delta h \cdot P \cdot \eta CP ;$$

burada η CP – gözeneklilik, sıcaklık, su doygunluğu, gaz geri kazanımının integral faktörü

- η CP – – ufuk I için – 0,13
- η CP Horizon II için – 0,06

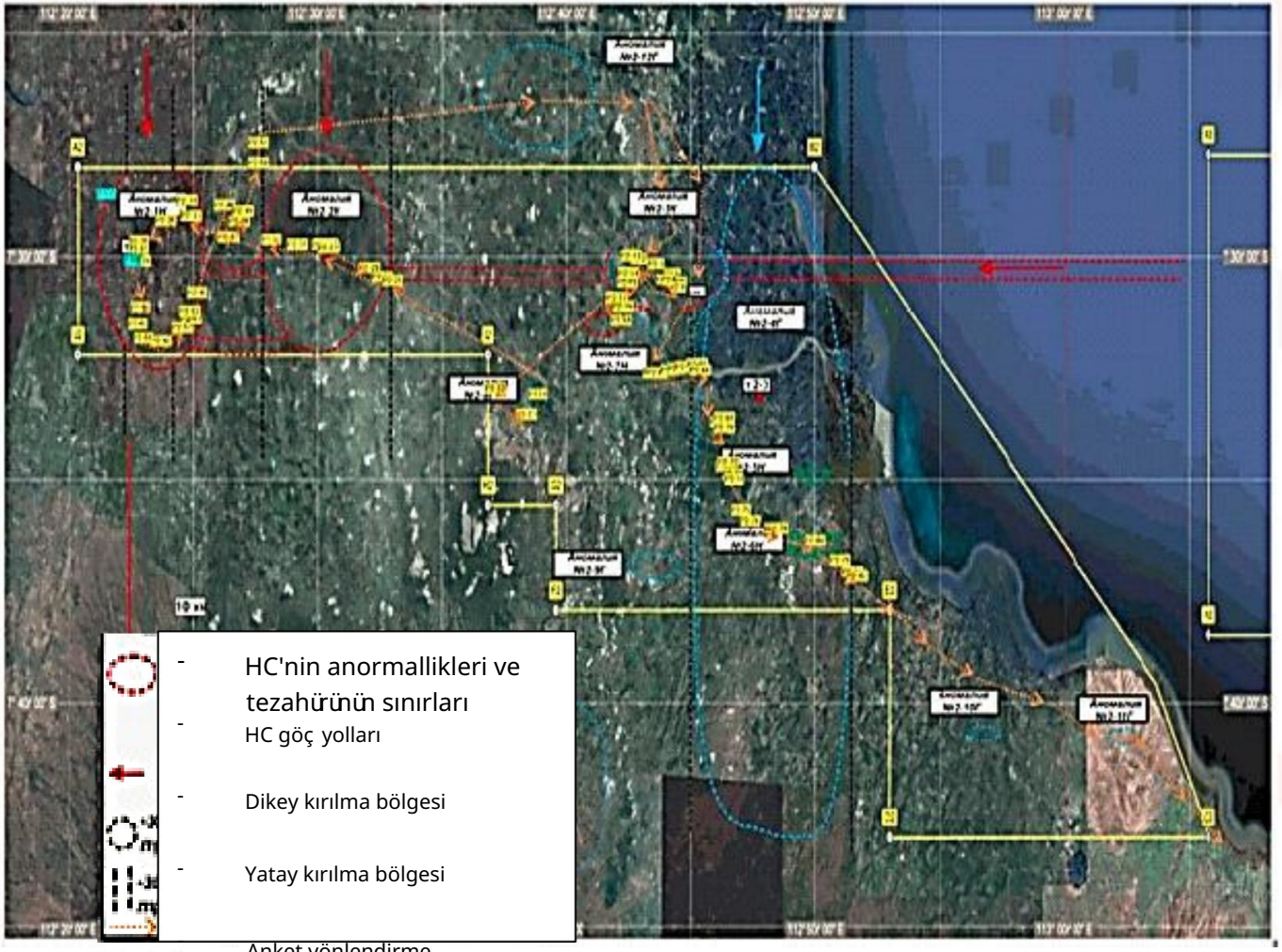
Örnek olay I. Rusya. Üretim alanı

sonuçlar

- Ruhsatlı alanın RS-NMR teknolojisi kullanılarak incelenmesinin takip edilmesi ve POISK ekipmanı kullanılarak mekansal görüntülerin işlenmesi (aşama I), anormallikler Gazlar tanımlanmış ve haritalandırılmıştır.
- Gaz rezervuarlarının oluşum derinlikleri (yaklaşıkları) tahmin edilmiştir.
- Gaz seviyelerindeki rezervuar kaya türleri tanımlanmış ve spektrumlar anormalliğin üzerindeki rezonans elektromanyetik alanların özellikleri rezervuarların gözenekli kısmının etkin kalınlıkları kaydedilmiştir. gazla doymuş olduğu belirlenir.
- Bazı rezervuar özellikleri tahmin edildi ve gaz kaynakları tahmin edildi
- Tavsiye edilen yerlerde açılan kuyular, kanıtlanan bir gaz akışı üretti yöntemin güvenilirliği

Örnek olay II. Endonezya.

Üretim alanı



License block in Indonesia

Productive wells are sitting within the areas outlined marked with red color

Durum II. Endonezya. Tanıklık

Russ Techno
Tel: +62 8170 228877 FAX: +62 21 84306196

CV RussTechno Indonesia
Ruko Permata Boulevard Blok BA, No.1
Jl Pos Pengumben Raya Jakarta Barat 11550 – INDONESIA

Date : 1 June, 2012 r.

Re: SBRDSS report reference

In accordance Contract No.1, 28.11.2011 between RussTechno Indonesia and Sevastopol State University, Sevastopol's specialists (head of team - Ph.D. Kovalev N.I.) were involved with a set of equipment "Poisk" for remote search for oil and gas with identification its depth and deposit on Brantas Block in Java, Indonesia total area 3050 km2. Off-shore – 2 blocks and On-shore – 3 blocks.

Previously, these areas were studied by traditional seismic methods and have more then 30 wells.

The study was performed in February 2012. Based on the results of study on Brantas Block by using remote method SBRDSS Sevastopol specialists discovered total 31 hydrocarbon anomalies.

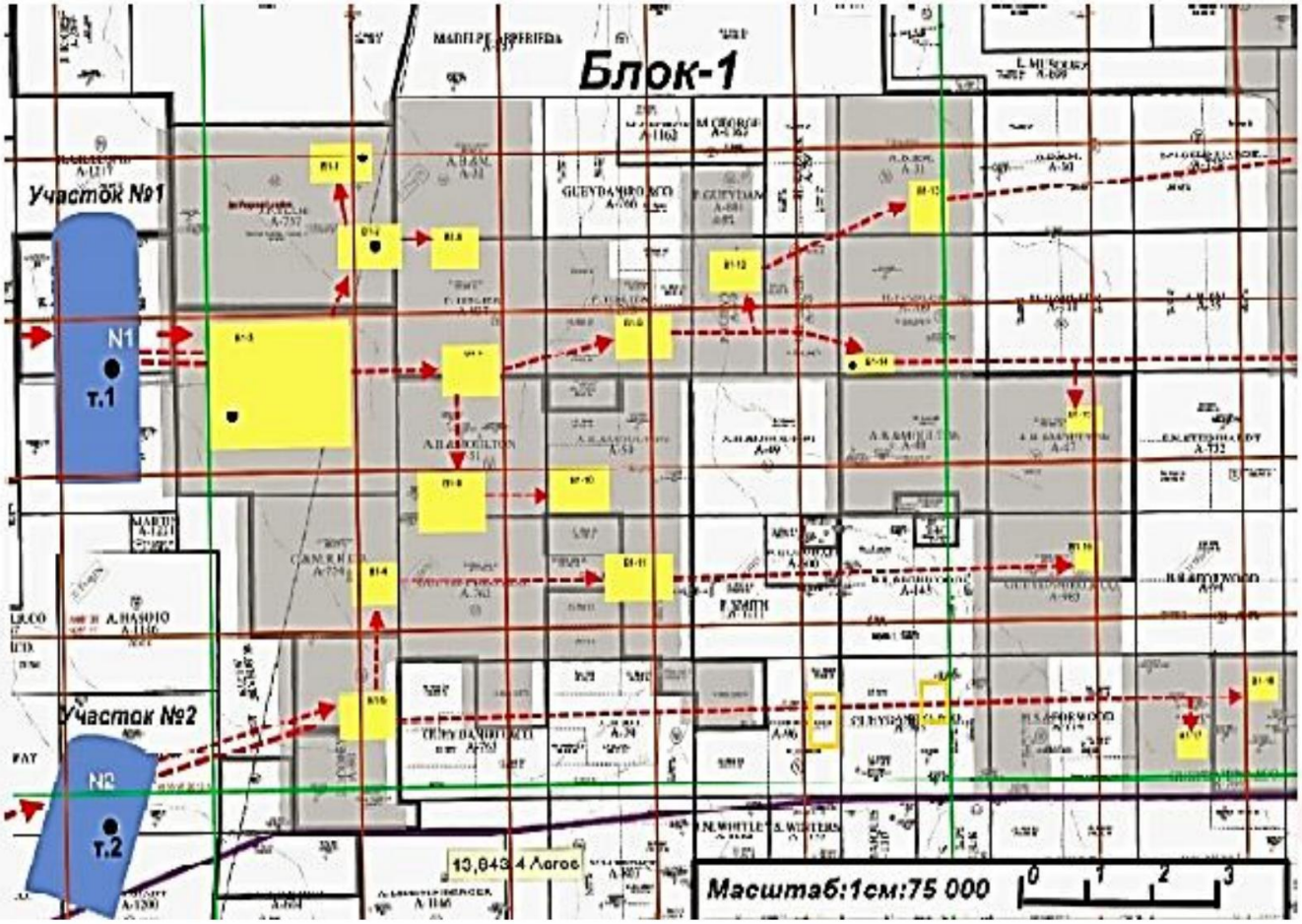
SBDRSS remote method was proven by compare with seismic date available in Lapindo Brantas company. This method is cost effective and very accurate in depth and deposit result.

Regards,

Thanigasalam
President Director

CV RUSSTECHNO INDONESIA RTI

Gaz üretim alanı



License block in Texas, USA

Well N-1 penetrated shale oil formation as indicated by the corresponding anomaly

Vaka III. AMERİ KA Bİ RLEŞİ K DEVLETLERİ . Tanıklık

«Інститут геофізики та проблем Землі»
Товариство з обмеженою відповідальністю
Україна, м. Київ, вул. К.Білокур 4, оф. 6
тел/факс: +38 044 285 0826, моб.: +38 068 100 5153

Founded in 2007

«Institute of Geophysics and Problems of the Earth»
Limited Liability Company
Ukraine, Kyiv, K. Blokur 4, of. 6
tel/fax: +38 044 285 0826, mobile: +38 068 100 5153

Outgoing # 11/10-03 15.11. 2010

Conclusion

on the results of prospecting works performed by specialists of the «Sevastopol National University of Nuclear Energy and Industry» in the territory of Texas, USA

Commissioned by the Institute of Geophysics and Problems of the Earth (Kiev, Ukraine) in 2010 specialists (Ph.D. Goh V.A., Ph.D. Kovalev N.I., Doctor of Geological and Mineralogical Sciences Filippov E.M., etc.) performed a search and exploration of natural gas deposits on the territory of Texas, USA using the equipment of the remote complex "Search". At the same time, remote search facilities were used to study the territory in the south of Texas, with an area of about 500 km2.

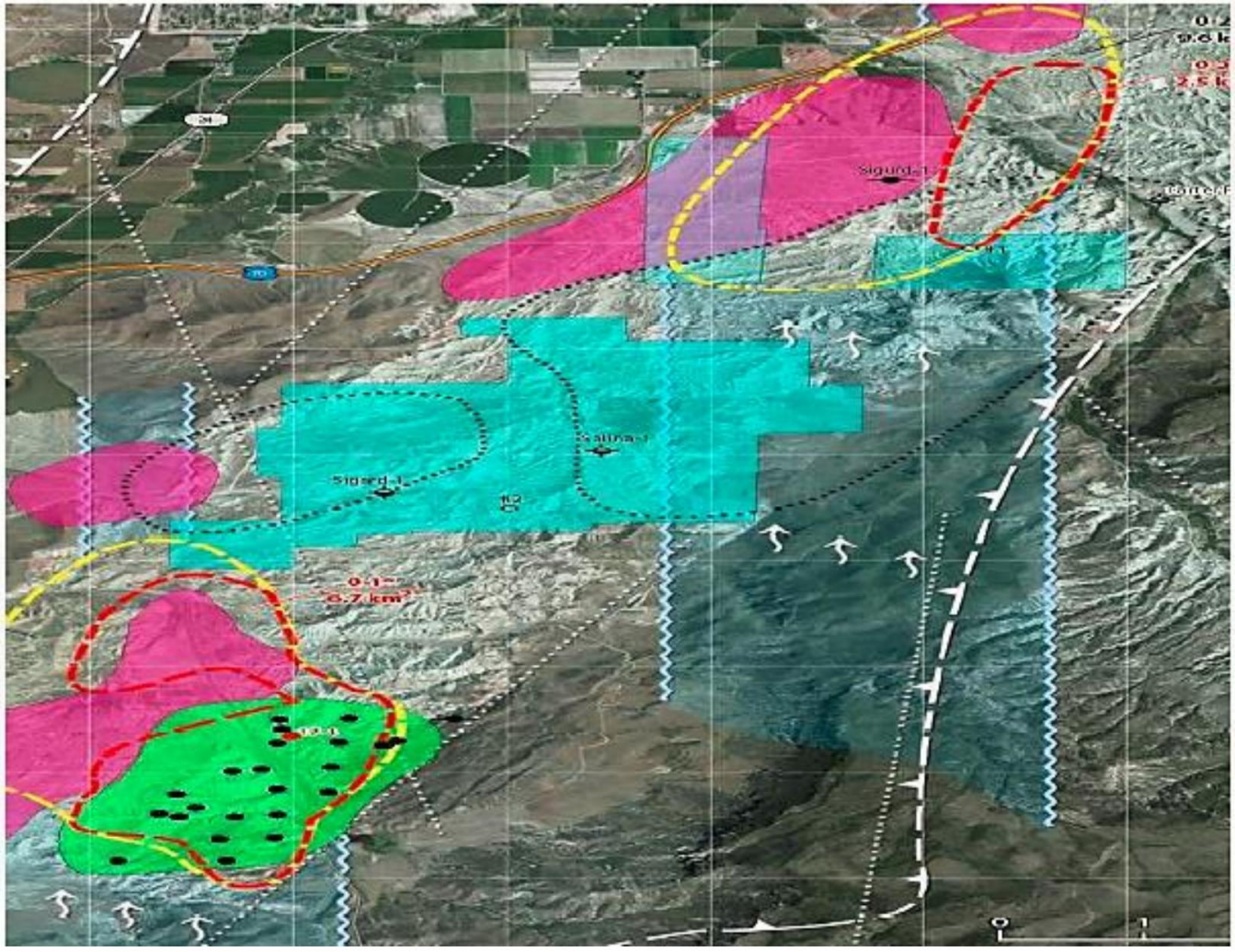
Based on the results of work on a given territory, underground natural gas accumulations were discovered having industrial significance, 3 points for drilling industrial wells were selected and surveyed.

The results of drilling a well at one of the proposed points confirmed the presence of a natural gas reservoir. The gas pressure in the deposit proved to be abnormally high, 620 atm., in accordance with the survey data.

Director of
Institute of Geophysics and
Problems of the Earth
Pavel Ivashchenko

«ІНСТИТУТ ГЕОФІЗИКИ ТА ПРОБЛЕМ ЗЕМЛІ»

Petrol üretim alanı



License block in Utah, USA

The oil accumulations and wells locations have proved the delineated anomalies. Recommendations were made to drill new wells at the identified anomalies to the north-east.

Vaka IV. AMERİ KA Bİ RLEŞİ K DEVLETLERİ . Tanıklık

"CARPATHIA", LLC
Limited Liability Company
470 E 3900 So Suite104, Salt Lake City, Utah 84107
Off.801-293-3314 Fax:801-303-0720
Cell:801-380-2087 ttvol333@gmail.com

"КАРПАТІЯ", ТОВ
Товариство з Обмеженою Відповідальністю
Cell:8063-740-4071 ttvol333@gmail.com

FINAL REPORT
On Presentation-Demonstration of "Deep Vision" Model

"CARPATHIA", LLC, represented by Vasyl Lyubarets, as a party representing "Deep Vision" Model of discovering natural resources that being tested, and Kelly Alvey, as a party participating in the test, have executed this Final Report concerning final results of testing unique Model "Deep Vision".

Results of inspection of objects, located on the territory of the state of Utah, USA **Dated 25 of February 2009**

Object #	Kelly Alvey's data	"Deep Vision" data	Comparison %	CONCLUSION
X "0"	Nothing	Nothing	100 %	Matching results
X 1	Nothing	Nothing	100 %	Matching results
X 9/1	6380	6150-6450	100 %	Matching results
X 9/2	6380	6150-6420	100 %	Matching results
X 9/3	6500 ; 9500-10000	6040-6420 ; 9450-9750	98 %	Matching results

Director of "Institute of Geophysics and Problems of the Earth",
Technical Director of "Benif International" Corporation — Pavlo N. Ivashchenko

Inventor of "Deep Vision" Model
Professor — Vitaly A. Gokh

Inventor of "Deep Vision" Model
Professor — Mykola I. Kovalyov

Signatures of Witnesses:

Vasyl O. Lyubarets, Leader-President of "CARPATHIA", LLC

Kelly Alvey

Rex W Hardy, Lawyer

Roy Moore, Wolverine Gas and Oil Company of Utah, LLC. Landman

Ray Beckham, BYU Professor

Jeffrey F. Chivers, "ENDEAVOR" Capital Group, LLC

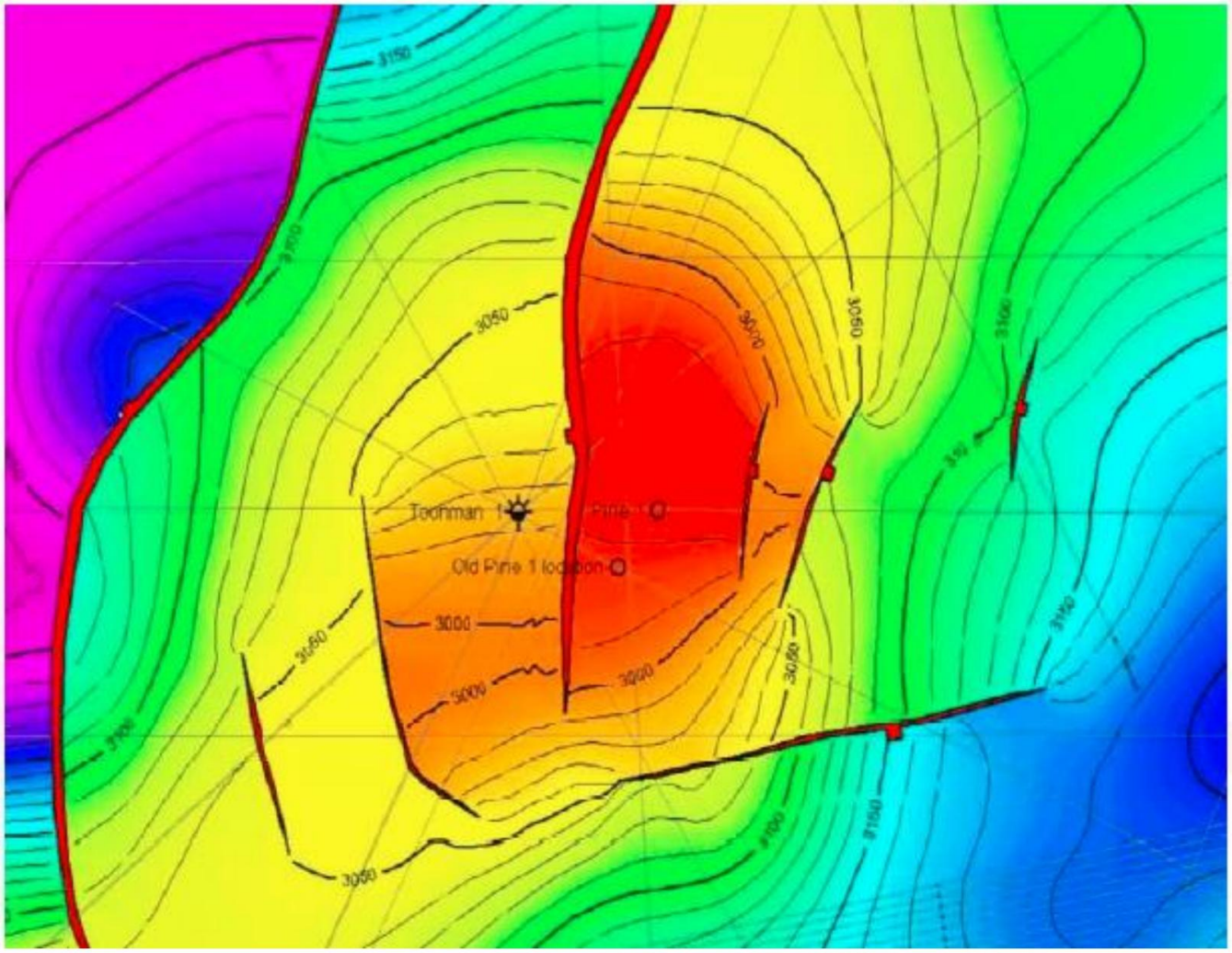
Brad Whittaker, CEDO Executive Director

Edward W. Fail, P.G.UT Government Department of Natural Resources

Arbitrator — Elizabeth Goryunova, Director of International Relations, Salt Lake Chamber of Commerce

Vaka çalışması V. Avustralya.

Petrol üretim alanı



License block Pel-105 in Australia

Well Pine-1 location was changed as suggested the identified anomaly. The well has been drilled and proved to be productive.

GROUP POISK

СЕВАСТОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

RSS-NMR SEVSU Poisk

FANDS-LLC
Inteligencia Economica Proactiva

Registered Office

Naaman's Building, Suite 206,
3501 Silverside Road,
Wilmington, New Castle County
Delaware, 19810, USA

inteleco@fands-llc.biz

Voip + 1 786 352 8843